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Patents Nos. 2,317,969 to 2,318,574

THE

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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

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Notice

See page xxix for list of applications published by the Alien Property Custodian.

Notice

The machine now used in the Application Division to prepare papers for insertion in application file wrappers, punches holes three-eighths of an inch in diameter, about seven-eighths of an inch from the top of the page. It is therefore necessary that a margin of at least one and one-fourth inches be reserved at the top of all such papers, in order to avoid possible mutilation of the text. Failure to comply with this requirement may result in the return of unacceptable papers.

LESLIE FRAZER,
First Assistant Commissioner.

Interference Notices

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

The Circus Sally Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered March 3, 1925, No. 195,692, to The Circus Sally Company, 227 W. Austin Ave., Chicago, Ill., and the notice of such proceeding sent by registered mail to said The Circus Sally Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Circus Sally Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

William B. Fundis, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered Sept. 15, 1931, No. 287,072, to William B. Fundis, 837 W. North Ave., Pittsburgh, Pa., and the notice of such proceeding sent by registered mail to said William B. Fundis at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said William B. Fundis, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

Unicy Marshmallow Co., Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered Oct. 22, 1929, No. 262,792, to Unicy Marshmallow Co., Inc., 404 Platt St., Rochester, N. Y., and the notice of such proceeding sent by registered mail to said Unicy Marshmallow Co., Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Unicy Marshmallow Co., Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

Jamestown Brewing Company, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Fox Head Waukesha Corporation, Waukesha, Wis., to effect the cancellation of trade-mark registration of Jamestown Brewing Company, Jamestown, N. Y., No. 305,465, dated August 15, 1933, and the notice of such proceeding sent by registered mail to the said Jamestown Brewing Company at the said address having been returned by the post office with the notation "Out of Business" endorsed thereon, notice is hereby given that unless said Jamestown Brewing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Conditions of Applications Under Examination at Close of Business April 17, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,977; Trade-Mark Division, 904. Oldest new case, June 8, 1942; oldest amended, June 8, 1942)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting action	Oldest amended application awaiting action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Nov. 20	Dec. 14	328
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	†Jan. 23	Dec. 15	212
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	June 26	July 2	947
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Nov. 6	Oct. 30	392
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Aug. 17	Aug. 17	529
6. GENIESSE, E. W., Carbon Chemistry (part)	Aug. 10	Aug. 6	1012
7. JARBOE, C. G., Optics, Photography	Sept. 16	Sept. 18	902
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Oct. 7	Sept. 30	600
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Aug. 17	Sept. 5	750
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Nov. 10	Nov. 12	370
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Nov. 13	Nov. 6	356
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Oct. 15	Oct. 15	630
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 12	Dec. 16	417
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Oct. 12	Oct. 15	677
16. SPENCER, C. J., Telegraphy; Telephony	Aug. 26	Aug. 27	645
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 9	July 3	716
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 13	Aug. 27	535
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	July 29	July 29	656
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Nov. 3	Oct. 15	435
21. THOMPSON, T. J., Textiles	Nov. 10	Oct. 28	288
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	July 10	July 14	1682
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 13	Nov. 10	136
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Dec. 1	Dec. 2	567
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 22	Sept. 23	625
26. YOUNG, R. R., Electricity—Generation and Motive Power	Sept. 26	Sept. 23	564
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 8	Sept. 18	603
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 13	June 8	598
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 8	Dec. 21	358
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 26	Dec. 14	305
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Oct. 26	Oct. 26	1341
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 24	Sept. 18	653
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Nov. 25	Nov. 30	608
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Oct. 17	Oct. 22	412
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Nov. 18	Nov. 5	599
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Nov. 14	Sept. 30	386
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 5	Dec. 12	427
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Oct. 5	Sept. 9	635
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	†Jan. 2	†Jan. 2	384
40. DRUMMOND, E. J., Receptacles	Dec. 26	Dec. 26	345
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 10	Oct. 12	410
42. MARANS, H., Electric Signaling	Nov. 21	Dec. 8	338
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	June 23	June 16	889
44. HARVEY, L. P., Refrigeration	Sept. 14	Aug. 11	346
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Oct. 10	Nov. 10	748
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Sept. 11	Sept. 11	489
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Sept. 23	Sept. 30	1011
48. ROEPKE, O. B., Electricity, General Applications; Igniters	June 8	June 10	726
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Oct. 13	Oct. 14	597
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Sept. 19	Sept. 19	1229
51. BACKUS, C. D., Radiant Energy	Oct. 6	Oct. 5	987
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Oct. 27	Oct. 9	645
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Feb. 9	Nov. 26	194
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Sept. 26	Sept. 30	453
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	Aug. 6	Aug. 5	755
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Oct. 6	Sept. 30	814
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 12	July 16	422
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 19	Nov. 7	540
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	June 18	June 20	1276
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Aug. 15	Aug. 17	407
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Sept. 1	Sept. 30	568
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Dec. 3	Oct. 9	454
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Aug. 4	Aug. 12	979
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Nov. 5	Nov. 3	1088
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telethony, Repeaters and Relays.	Sept. 11	Sept. 11	653
Trade Marks: RICHMOND, F. A.	†Mar. 17	†Apr. 1	904
Designs: KALUPY, H. H.	†Mar. 18	†Apr. 1	314

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

LEISHMAN
v.
ASSOCIATED WHOLESALE ELECTRIC COMPANY

No. 332. Decided February 15, 1943

1. APPEAL—TIME FOR APPEALING TO THE CIRCUIT COURT OF APPEALS.
Where petitioner took his appeal to the circuit court of appeals more than three months after the district court had entered judgment dismissing his complaint, but within three months after the district court had denied a motion by him under rule 52(b) of the Rules of Civil Procedure, asking that the findings "be amended and supplemented" *Held* that petitioner's appeal was timely under 28 U. S. C. § 230.

2. JUDGMENT—EFFECT OF MOTION TO AMEND FINDINGS.
"The motion was not addressed to mere matters of form but raised questions of substance since it sought reconsideration of certain basic findings of fact and the alteration of the conclusions of the court. In short the necessary effect was to ask that rights already adjudicated be altered. Consequently it deprived the judgment of that finality which is essential to appealability."

3. SAME—SAME.
"It is immaterial that petitioner did not specifically request the amendment of the judgment, and the distinction based on this failure to request by the court below is artificial and untenable. If the motion had been granted and the requested amended and supplemental findings made, the judgment would have to be amended or altered to conform to those findings and the conclusions resulting from them."

4. APPEAL—TIME FOR APPEALING TO THE CIRCUIT COURT OF APPEALS.
"We conclude that a motion under rule 52(b) such as the instant one which seeks to amend or supplement the findings of fact in more than purely formal or mechanical aspects tolls the appeals statute, and that the time for taking an appeal runs from the date of the order disposing of the motion. Cf. *Continental Oil Co.* v. *United States*, 299 U. S. 510."

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Ninth Circuit. Reversed.

Mr. John Flynn for Leishman.

Mr. Samuel E. Darby, Jr. (*Mr. Martson Allen* and *Mr. Alden D. Redfield* with him on the brief) for Associatied Wholesale Electric Company.

MR. JUSTICE MURPHY delivered the opinion of the Court.

The question in this case is whether petitioner appealed to the circuit court of appeals within the time provided by law (28 U. S. C. § 230).

This is a suit brought by petitioner for infringement of certain claims of a reissue patent. The district court made findings of fact that the claims in issue did not embody any invention over the prior art and entered judgment dismissing the complaint on May 1, 1941. On May 28, 1941, after securing an enlargement of time under rule 6(b) of the Rules of Civil Procedure (28 U. S. C. A. following § 723c), petitioner filed a motion under rule 52(b)[1] asking that the findings "be amended and supplemented". Petitioner requested that some of the findings relating to non-invention be amended in certain respects set out in the motion so as to show invention and to include a specific finding that the claims in issue did define invention over the prior art. Supplemental findings, intended to dispose of various other defenses asserted by respondent but not passed upon by the court, were also requested. The motion concluded with the statement that:

"Consistently with these findings, the conclusions of law should be amended to state that the claims . . . in suit are valid; that an injunction shall issue in the usual form, and that there be an accounting for past infringement."

This motion was denied on June 9, 1941.

On September 4, 1941, petitioner filed his notice of appeal in the district court.[2] The circuit court of appeals sua sponte held it had no jurisdiction because the appeal was taken more than three months after the entry of judgment, contrary to 28 U. S. C. § 230. In so holding that court recognized the general rule that where a petition for rehearing, a motion for a new trial, or a motion to vacate, amend or modify a judgment is seasonably made and entertained, the time for appeal does not begin to run until the disposition of the motion.[3] But this case was differentiated on the ground that the instant motion was not one to amend the judgment but merely one to amend and supplement the findings and conclusions. 128 F.(2d) 204. We granted certiorari to settle the important question of practice presented under the Rules of Civil Procedure.

[1] [2] [3] [4] We think that petitioner's time to appeal did not begin to run until the disposition of his motion under rule 52(b) on June 9, 1941, and accordingly that his appeal was timely. The motion was not addressed to mere matters of form but raised questions of substance since it sought reconsideration of certain basic findings of fact and the alteration of the conclusions of the court. In short the necessary effect was to ask that rights already adjudicated be altered. Consequently it deprived the judgment of that finality which is essential to appealability. Cf. *Zimmern* v. *United States*, 298

[1] So far as is here material rule 52(b) provides: "Upon motion of a party made not later than 10 days after entry of judgment the court may amend its findings or make additional findings and may amend the judgment accordingly."

[2] This is the proper method of taking an appeal. Rule 73(a).

[3] *Morse* v. *United States*, 270 U. S. 151, 153–54, and cases cited. Compare *Joplin Ice Co.* v. *United States*, 87 F.(2d) 174; *Suggs* v. *Mutual Ben. Health & Accident Ass'n*, 115 F.(2d) 80; *Neely* v. *Merchants Trust Co.*, 110 F.(2d) 525; *United States* v. *Steinberg*, 100 F.(2d) 124. See also *Citizens Bank* v. *Opperman*, 249 U. S. 448; *Gypsy Oil Co.* v. *Escoe*, 275 U. S. 498; *Pfister* v. *Northern Illinois Finance Corp.*, — U. S. — (Nos. 26–27 this Term).

[4] The 10 day limit for filing fixed in rule 59 cannot be enlarged under rule 6(b) except as provided in subsection (c) of rule 59.

U. S. 167; *Dept. of Banking* v. *Pink*, — U. S. — (No. 466 this Term). It is immaterial that petitioner did not specifically request the amendment of the judgment, and the distinction based on this failure to request by the court below is artificial and untenable. If the motion had been granted and the requested amended and supplemental findings made, the judgment would have to be amended or altered to conform to those findings and the conclusions resulting from them. We conclude that a motion under rule 52(*b*) such as the instant one which seeks to amend or supplement the findings of fact in more than purely formal or mechanical aspects tolls the appeals statute, and that the time for taking an appeal runs from the date of the order disposing of the motion. Cf. *Continental Oil Co.* v. *United States*, 299 U. S. 510.

The motion was not one for a new trial under rule 59 and respondent's argument, based on that premise, that it was not filed in time, is not pertinent.

The judgment below is reversed.

U. S. Court of Appeals for the District of Columbia

BALDWIN-SOUTHWARK CORPORATION AND BLANKS
v.
COE, COMMISSIONER OF PATENTS

No. 7,821. Decided November 30, 1942

1. PATENTABILITY—ANTICIPATION—FOREIGN PUBLICATION.
The principles of law governing foreign publications applied by the courts in infringement suits *Held* equally applicable to proceedings to obtain a patent, and *Held* that a foreign publication cannot operate to anticipate a claimed invention unless it meets such principles.

2. SAME—TESTING MACHINE.
Certain claims of an application disclosing a materials testing machine so constructed that a test load may be applied to a material specimen at a predetermined rate of load change *Held* patentable over the single foreign publication cited.

Appeal from the District Court of the United States for the District of Columbia. Reversed.

Mr. Clifton V. Edwards (*Messrs. John B. Brady* and *E. A. Hathaway of counsel*) for Baldwin-Southwark Corporation and Blanks.

Mr. W. W. Cochran for the Commissioner of Patents.

Before STEPHENS, VINSON AND RUTLEDGE, Associate Justices

STEPHENS, *A. J.*:

This is an appeal from a judgment of the District Court of the United States for the District of Columbia dismissing a suit brought under Rev. Stat. § 4915 (1875), 35 U. S. C. § 63 (1940), by the Baldwin-Southwark Corporation and Robert F. Blanks, appellants, for an order authorizing the Commissioner of Patents, appellee, to issue a patent on claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 19, 20, 22 and 23 of an application for a patent filed by Blanks on October 11, 1932, and assigned by him to the Baldwin-Southwark Corporation on October 26, 1932.

The Blanks application discloses a materials testing machine so constructed that a test load may be applied to a material specimen at a predetermined rate of load change. The apparatus is described in terms of its use with an hydraulic testing machine, although Blanks states that it can be used also with a mechanical testing machine. Claims 1, 6 and 23, which are representative, read as follows:

1. An apparatus for determining a predetermined rate of load change applied to a test specimen in a materials testing machine comprising, in combination, a plurality of indicating members adapted to have similar paths of movement in relatively close relation for purposes of common visible comparison, means for driving one of said indicating members at a predetermined rate of speed, and means whereby the other member is adapted to be driven in response to the test load, whereby the relative positions of said members may be used to determine the rate applying load to the specimen.

6. An apparatus for determining a predetermined rate of load change applied to a test specimen in a materials testing machine comprising, in combination, a stress indicating hand, an auxiliary hand, means rotatably supporting said hands in superimposed axial relation, means for driving one of said indicating members at a predetermined rate of speed, and means whereby the other member is adapted to be driven in response to the test load, whereby the relative positions of said members may be used to determine the rate of applying load to the specimen.

23. The combination in an apparatus for effecting a predetermined rate of load change applied to a test specimen in a materials testing machine having opposed specimen-engaging elements one of which is moved to apply load to the specimen; comprising, a rate of load member movable at the precise predetermined rate of speed at which it is desired to apply load progressively to a specimen at each instant during a test irrespective of deformation characteristics of the specimen, means for continuously driving said member at said speed, a load indicating member movable in accordance with the actual load applied to the specimen and movable adjacent to said rate of load member in visible register therewith so long as load is actually applied to the specimen at said predetermined rate, means for actuating said load indicating member solely in accordance with the load force applied to the specimen, and adjustable means for controlling the application of load to the movable specimen engaging element of the testing machine whereby the operator may control the application of load force to the specimen and simultaneously observe whether said register relation is being maintained.

Blanks' apparatus and the operation thereof can best be understood in terms of the following drawings selected from his application:

FIGURE 1

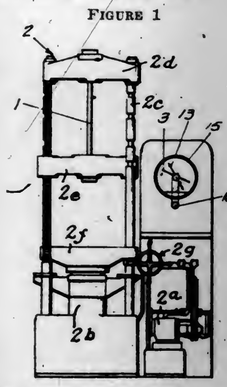
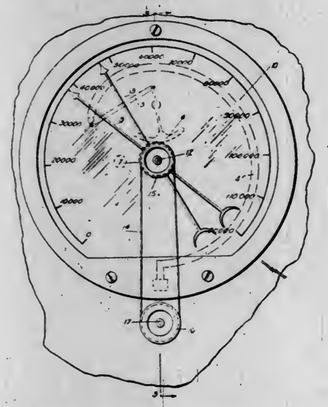


Figure 1 is a diagrammatic view of an hydraulic testing machine in which a test specimen has been placed. The specimen 1 is shown placed between the two opposed cross-heads 2*e* and 2*d*. One of these is moved by hydraulic pressure supplied from pressure pump 2*a* to a main loading cylinder 2*b*, which contains a piston or ram. A manually operable valve 2*g* is disposed in the pipe which carries the fluid from the pressure pump 2*a* to the main loading cylinder 2*b*. By this valve the load applied to the specimen is controlled. Figure 2 shows the

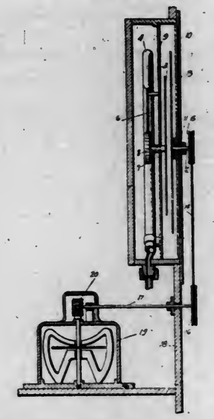
FIGURE 2



front elevation of the combination of members which comprise the apparatus, to be used in connection with the testing machine, for which Blanks claims a right to patent. The relation of this apparatus to the testing machine itself can be seen in Figure 1 just above the control valve 2*g*. In Figure 2 hand 3—the stress indicating hand of the claims—moves clockwise across the graduations of the dial in response to the load applied, through the manually operable valve 2*g*, to the specimen 1 by the testing machine. The movement of this hand thus affords, in connection with the graduations on the dial, a visual indication of the load applied or being applied to the specimen. The hand marked 13—the auxiliary or rate of load hand of the claims, hereafter referred to for convenience as the pacer hand—is, by means independent of that which carries the stress indicating hand 3, carried in superimposed and visual relation with the latter, and is capable of being caused, by means of an adjustable driving mechanism, to cross in clockwise direction each of the graduations on the dial at a predetermined rate of speed commensurable with the rate of change at which each unit of a load, represented by the graduations on the dial, is desired to be applied to the specimen. The upper part of Figure 3 shows a vertical cross-section of the apparatus which is seen in front elevation in Figure 2. It discloses that the two hands, 13 and 3, although separately carried, are set upon the same axis.

In using an hydraulic testing machine equipped with the Blanks apparatus the pacer hand 13 is so regulated, by means of a watt hour meter shown as 19 in the lower part of Figure 3, that it will cross the load indicating graduations of the dial at a rate of speed commensurable with the desired rate of load change. Through manual operation of valve 2*g*, hand 3, the load registering hand, is caused to move across the graduations of the dial in register, i. e., coincidentally, with pacer hand 13, with the result that the load is applied to the specimen at the desired predetermined rate of change. For example, if it is desired to apply a 20,000 pound load in five minutes, pacer hand 13 is set so that it will cover the first two graduations on the dial in that period of time, and then load hand 3 is caused, by application of the load through manually operable valve 2*g*, to keep pace with hand 13, so that when both have reached the 20,000 mark in five minutes time the load will have been applied to the full extent of 20,000 pounds during that time. Also the pacer hand may be set so as to reflect predetermined variations in the time within which a given load will be applied, and the load hand, through manual operation of valve 2*g*, caused to keep pace with the pacer hand in these variations.

FIGURE 3



The Commissioner contends and the trial court found that Blanks' apparatus is not inventive in view of the disclosures of a trade circular alleged to have been published and distributed in Europe by Ernst Krause & Company of Vienna, Austria, more than two years prior to the date of Blanks' application. The Commissioner's contention is predicated upon Rev. Stat. § 4886 (1875), 35 U. S. C. § 31 (1934), which, as it stood amended at that date, is set out in the margin,[1] and upon conclusions which the Commissioner asserts plainly follow from examination of Illustration 1 of the Krause circular in the light of certain passages of the text thereof. The illustration and text passages[2] upon which the Commissioner relies are set out below:

[1] "Any person who has invented or discovered any new and useful art, machine, manufacture, or composition of matter, or any new and useful improvements thereof, or who has invented or discovered and asexually reproduced any distinct and new variety of plant, other than a tuber-propagated plant, not known or used by others in this country, before his invention or discovery thereof, and not patented or described in any printed publication in this or any foreign country, before his invention or discovery thereof, or more than two years prior to his application, and not in public use or on sale in this country for more than two years prior to his application, unless the same is proved to have been abandoned, may, upon payment of the fees required by law, and other proceeding had, obtain a patent therefor. (R. S. § 4886; Mar. 3, 1897, c. 391, § 1, 29 Stat. 692; May 23, 1930, c. 312, § 1, 46 Stat. 376.)"

[2] The text of the circular was of course in the foreign vernacular. A translation offered in evidence by the appellant at the trial in the district court was received without objection and no question as to its correctness is raised in the case.

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Budapest, Prague Cologne, Warsaw

Factory: Donauwerk, Brunewerk

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For Tension, Compression, Buckling, Bending, Folding, Shearing, Punching and Brinell Tests, Chain and Spring Tests, Creep Tests, etc.

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Packing Free, Ground Piston, Shock Absorber
Load Indication by Pendulum Scale

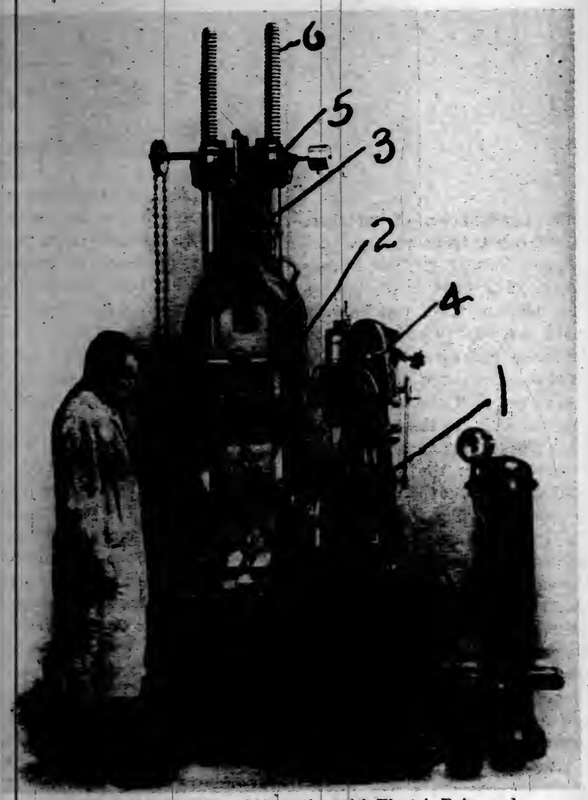
Testing Speed Adjustable, in accordance with regulations of the German Railroad.

and cylinder wall, thus producing only liquid friction. This friction value is, at all pressures, constant and disappearingly small, and is already balanced when engine is gauged at our Works.

The *pump body* is made of solid steel. As a pressure liquid, a good resin and acid-free mineral oil is used.

Power reading: A pendulum scale is used for reading of expended power. This pendulum scale has three (3) test ranged [*sic*] of 1 [*sic*] to 4,000 Kg. (8,818.4 lbs.); 0 to 12,000 Kg. (2,645.5 lbs.) and 0 to 40,000 Kg. (88,184 lbs.) The pendulum scale is not subjected to any wear and contains no parts endangered to overstrain, thus insuring correct power reading after longest time of operation.

For measuring of a desired testing speed (in accordance with acceptance regulations of the German Railroad), a time clock is used which is built into the pendulum scale. The hand of the clock is arranged concentric with the hands of the scale.



(Illustration 1. Normal Execution with Electric Drive and Storage Battery)

Outstanding Features

No foundation required; small set-up space required; easy to transport; no appearance of free forces; simple operation by handpump; electric motor and storage battery; clear vision of load tests by pendulum scale with three (3) test ranges; only one operator required; high efficiency (40 tons—88,184 lbs.); great versatility; finest regulation of testing speed.

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is according to the principle of the hydraulic press constructed with a packing free piston. The load definition is established through pendulum scales. The machine has a capacity for tension and compression tests as high as 40,000 Kg. (88,184 lbs.) and consists essentially of a pump, a press cylinder; a pendulum scale for direct reading of loading and power transmitting mechanism.

The *press cylinder* is made of high grade, especially fine grain cast steel.

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The contention of the Commissioner presents three questions: (1) Is the Krause circular a "printed publication" within the meaning of Rev. Stat. § 4886 (1875), 35 U. S. C. § 31 (1934); (2) Was it sufficiently proved that the circular had been published over two years prior to the date of Blanks' application; (3) Do the disclosures of the circular negative invention in Blanks' apparatus. The Commissioner urges that the answer to each of these questions is in the affirmative. It is to be noted, however, that if the answer to the third question is in the negative, the other two questions become immaterial. Moreover, the Commissioner conceded at the trial that the Krause circular is the only reference upon which the Patent Office relies to defeat invention and that if the circular does not disclose Blanks' apparatus the latter is inventive. The Commissioner also conceded utility. We set out in the margin the colloquy between counsel for the Commissioner and for the appellant in which the concessions were made.[3]

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> The ultimate strength for any one mode of stress, such as simple pull, has been found to depend on the time rate at which stress is applied; this will be noticed more fully later (§§ 28–34). . . . [p. 596]
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For a long time prior to Blanks' application—fifty years or more—the engineering art had attempted to devise machines for the testing of both light and heavy materials whereby the time rate at which a load is applied could be accurately predetermined. The efforts of the art had developed two types of materials testing machines. In one the application of the load to the specimen at a predetermined time rate was, theoretically, directly measured. Machines of this type were the Olsen New Automatic Shot Cement Testing Machine and the Olsen Improved Constantly Applied Strain Cement Testing Machine. In the Shot Cement Testing Machine the load was applied to the specimen by means of a counter-balancing lever system. At one end of the lever was hung a weight equaling the total load to be applied; at the other was hung a receptacle filled with buckshot, also equaling in weight the total load. The buckshot were allowed to run out of the container at a uniform rate of speed governed by the size of the aperture through which they dropped. This machine was usable, however, only for small loads and material specimens and it did not operate with accuracy. In the Applied Strain Cement Testing Machine a jockey weight was, by means of an electric motor, run out a graduated scale at a predetermined time rate. Simultaneously through a hand operated control wheel an operator attempted to apply the load uniformly by keeping a floating beam in horizontal balance. This machine, again, was not practical for large loads or specimens, and was not fully effective even for small ones because of the difficulty of keeping the float balanced. If it was not kept in balance its oscillation produced inertia effects and increased load. One attempt of the prior art to predetermine the rate of application of load to specimen was by the use of an ordinary musical metronome in connection with an hydraulic machine of the first type which permitted application of the load in a manually controllable manner. The operator tried to apply the load, through the manual control, uniformly over a predetermined period of time beaten out by the metronome. If, for example, the operator desired to apply a load of 1,000 pounds in four seconds time, he would set the metronome to beat once each second and would try manually to control the application of the load so that at the first tick 250 pounds would have been applied, at the second 500 pounds, at the third 750 pounds, and at the fourth 1,000 pounds. This was unsuccessful because it

[3] The Court [Bailey, J.]: What is the purpose of this testimony? Does the Patent Office raise any question as to the utility of this apparatus?

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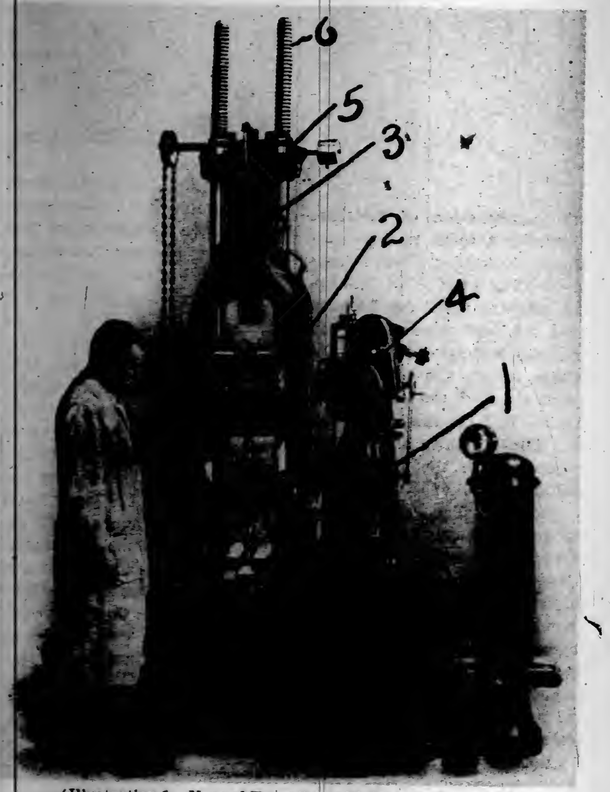
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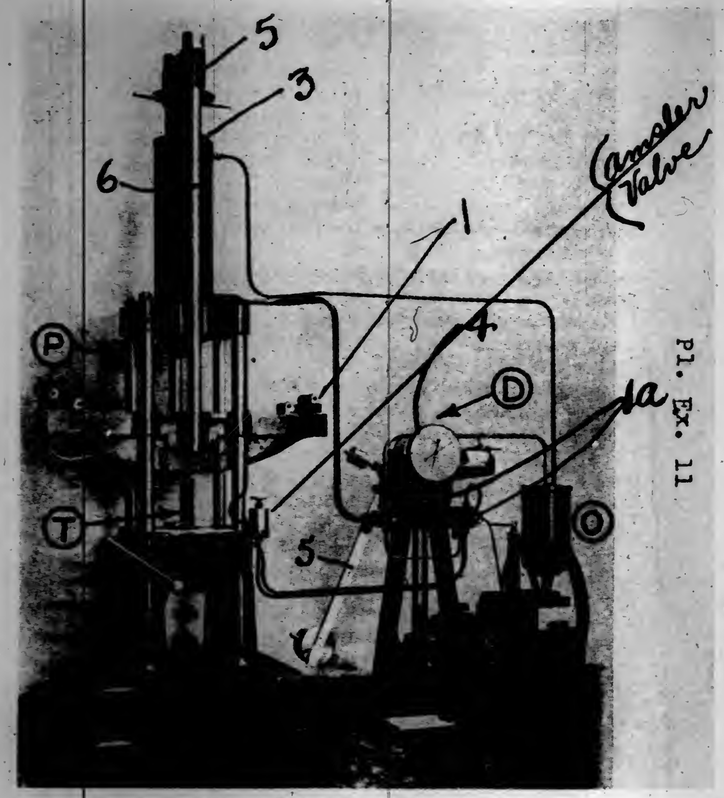
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required a nicer coordination of eye, ear and hand than was possible.[4]

In the second type of machine the application of the load to the specimen at a predetermined time rate was indirectly measured. The immediate object of the machine was to accomplish a predetermined control of the rate of progress of a force applying member or cross-head (as distinguished from the rate of increase of the load itself as in the first type of machine); that is to say, the force applying member was caused to move a given number of inches per unit of time. In connection with this there was a device for measuring the weight of the load. As the force applying member advanced and applied the load to the specimen it deformed the same either by compression or extension. What such a machine directly measured was the physical extent, in a predetermined period, of the deformation of the specimen, rather than the time rate of load application. Moreover, deformation of screws and of the machine frame and slipping of the specimen in the grips between which it was held and elastic deformation of the specimen itself made such a machine only theoretically accurate in the uniform speed of advance of the force applying member; actually there was variation therein and consequent variation in time of the application of the load. Such a machine was the T. Olsen Recording Testing Machine disclosed in Patent No. 445,476. This was a mechanical screw type machine. Another machine of this type was the Amsler Hydraulic Pendulum Type Testing Machine described by R. G. Batson and J. H. Hyde in their treatise "Mechanical Testing" (1922). Because of its importance in the discussion of this case we print below a picture of this machine and describe its



Amsler's 50-ton universal testing machine

operation. The specimen to be tested is shown at T, just underneath lower cross-head 1. The latter moves upward through the action of a ram and cylinder shown at 3. Rod 6 is one of two rods connecting cross-head 1 to upper cross-head 5. The cross-heads move as a result of hydraulic pressure introduced into the cylinder. The pressure is supplied by oil pump O. The force exerted is controlled and rendered uniform by a special "over

[4] As one of the witnesses in the case (A. H. Emery) said: "The trouble is that you have got to coordinate your ear and eye to see what you are doing. If you are short on the first tick, you have got to speed up the machine a little bit by the control valves, hoping you do not overshoot on the second tick, and then slow it down again, so that it is a continuous correction and not a continuous indication that you are doing what you want to do. * * * It is not very easy to coordinate with your eye and ear and hand. You have got to make mental calculations all the time, to know whether you are doing what you want to do; and you will get mixed up and lost and you will become very much lost. It is not a continuous operating device. . . ."

pressure" valve designated Amsler Valve in the picture. The extent of the force, i. e., the weight of the load being applied to the specimen, is indicated by a pendulum dynamometer shown at D, 5 being the pendulum and 4 the dial. One of the hands shown on the dial is a load indicating hand which revolves across the graduations of the dial as the load is increased. The other is a maximum hand, a loose pointer which is engaged by the load hand as it rises and which remains in the highest position reached by the load hand after the latter, upon the fracture of the specimen, returns to zero. The function of the maximum hand is to indicate the maximum load applied in a test.

It is not contended that the machines (other than the one shown in the Krause circular) which we have described solved the problem of the art. It was Blanks' apparatus which with its combined pacer and load indicating hands solved the problem by making possible an exact application of load to specimen at a predetermined rate. As indicated earlier in this opinion the Commissioner concedes this and concedes also that the Blanks apparatus is a patentable advance unless anticipated by the Krause circular. This case thus reduces itself to the one question whether or not the illustration and text of the Krause circular (which we shall assume was, as alleged, published and distributed in Austria more than two years prior to the date of Blanks' application) sufficiently disclose a machine of Blanks' type to constitute an anticipation.

[1] The consideration of a foreign publication relied upon as a reference against a claimed invention must be in the light of the law relating to such a publication. As was said in the leading case of *Seymour* v. *Osborne*, 11 Wall. 516, 555 (U. S. 1870), an infringement proceeding, the defense of invalidity of the patent in suit because described in a foreign publication is not made out unless it is shown that

"the description and drawings [of the foreign publication] contain and exhibit a substantial representation of the patented improvement, in such full, clear and exact terms as to enable any person skilled in the art or science to which it appertains, to make, construct, and practice the invention to the same practical extent as they would be enabled to do if the information was derived from a prior patent. Mere vague and general representations will not support such a defense, as the knowledge supposed to be derived from the publication must be sufficient to enable those skilled in the art to understand the nature of the invention, and to carry it into operation."

It is not competent to read into a foreign publication any information which it does not afford on its face. *Badische Anilin & Soda Fabrik* v. *Kalle*, 94 Fed. 163 (C. C. S. D. N. Y. 1899), affirmed, 104 Fed. 802 (1900); *Locw Filter Co.* v. *German American Filter Co.*, 164 Fed. 855 (C. C. A. 6th, 1908); *Carson* v. *American Smelting and Refining Co.*, 4 F.(2d) 463 (C. C. A. 9th, 1925) certiorari denied, 269 U. S. 555 (1925). The disclosure of a foreign publication must be so clear that it teaches the subject matter of the patent in suit without assistance from the latter. *Wisconsin Alumni R. Foundation* v. *Breon & Co.*, 85 F.(2d) 166 (C. C. A. 8th, 1936), certiorari denied, 299 U. S. 598 (1936). Moreover, as was held in *Atlantic Gulf & Pacific Co.* v. *Wood*, 288 Fed. 148, 155 (C. C. A. 5th, 1923), quoting from *Cimiotti Unhairing Co.*, 115 Fed. 524 (C. C. S. D. N. Y. 1902), a case itself based upon *Seymour* v. *Osborne*,

"A [foreign] document so obscure in its terminology that two conflicting theories may be deduced therefrom and supported by equally plausible arguments is too indefinite to be utilized as an anticipation."

These principles, although applied by the courts referred to in infringement suits, are equally applicable to proceedings to obtain a patent. *Beckett* v. *Coe*, 69 App. D. C. 51, 98 F.(2d) 332 (1938). That is to say, a foreign publication cannot operate to anticipate a claimed invention unless it meets these principles.

The contention of the Commissioner that the Krause circular does disclose Blanks' device comes in sum to the following: The Krause machine is described in the circular as one for the testing of materials with finest regulation of testing speed, clear visibility of tests on a pendulum manometer, direct reading of the loading, and use of a time clock built into the pendulum scale with concentric arrangement of the hand of the clock with the hands of the scale; therefore one of the two hands on the Krause dial is a load indicating hand like that of Blanks and the other a pacer hand like that of Blanks.

The Commissioner's conclusion that the Krause circular discloses that one of the two indicating hands of the Krause dial is a load indicating hand is justified—by the statement in the circular that there is direct reading of the loading on a pendulum scale. But the conclusion that the circular shows that the other hand is a pacer hand functioning as the pacer hand of Blanks does is, we think, not justifiable if the circular be looked at—as it must—in the light of the principles of law set forth above limiting the requirements of a foreign publication. All that the circular describes, so far as concerns a hand other than a load indicating hand, is the hand of a time clock. Although a time clock hand moves at a predetermined rate of speed it is not a pacer hand like that of Blanks for the reason that the predetermined rate of speed of a time clock hand is but a single rate, to wit, the rate which will carry it completely around a clock dial in one hour; the speed of a clock hand cannot be varied—except to the minor extent necessary for correction of error in time keeping. A time clock hand is therefore not operable, as Blanks' pacer hand is, i. e., at various and at variable rates of speed.

Within the four corners of the circular of Krause it cannot be determined that there is a pacer hand on the Krause scale. It is only by recourse to the application of Blanks and its description of a pacer hand and the reading of that description into the Krause circular that it can be concluded that one of the hands of Krause is a pacer hand. Moreover, even if it be assumed that the Krause circular is plausibly susceptible on its own face, without assistance from the Blanks application, of the inference that one of the two hands on the scale of Krause's machine is a pacer hand like that of Blanks, still the circular is susceptible of a conflicting theory at least equally plausible. The witness A. H. Emery, a mechanical engineer of excellent qualifications, testified at the trial—and no evidence to the contrary of his testimony was introduced—that the Krause circular shows an Amsler type machine, one of the hands of which, as stated above, is a load indicating hand but the other of which is not a pacer hand but a maximum hand.

Specifically, comparing the Krause and Amsler machines as shown in the pictures set forth above, Mr. Emery testified that both were hydraulic machines of the vertical type, each having cylinders, cross-heads, control valves governing the movement of the heads, and typical pendulum two hand dial indicators. He identified the cross-head marked 1 in the Amsler machine with cross-head marked 2 in Krause; cylinder marked 3 in Amsler with cylinder marked 3 in Krause; movable upper cross-head marked 5 in Amsler with cross-head 5 in Krause; rod 6, one of the two rods connecting the upper and lower cross-heads of Amsler, with rod 6, one of two similar functioning rods in Krause; the Amsler valve, designated in those words in the picture of the Amsler machine, with one of the valves (the witness could not say specifically which) shown in a circle designated 1 in Krause; the Amsler two handed dial 4 with its pendulum 5 with the two handed dial 4 in Krause. It is true that on cross-examination Mr. Emery conceded that the Krause circular did not specifically describe one of the two hands on the pendulum dial as a maximum hand. Thus he himself was obliged to go outside the Krause circular and to look at the teaching of the Amsler machine, and also to give weight, as he said, to the general practice in the testing machine industry of using a load indicating hand and a maximum hand. But his testimony identifies the Krause machine, including its hands, with the Amsler type machine, including the Amsler type hands, at least as plausibly as does the contention of the Commissioner that the Krause machine and its hands are to be identified with Blanks' apparatus and the load indicating and pacer hands thereof.[5]

[2] We think it obvious that the Krause leaflet does not, within the principles of law governing foreign publications, disclose the Blanks apparatus, and that the Patent Office and the trial court clearly erred in holding that it did. Therefore, in view of the Commissioner's concession that the Blanks apparatus is a patentable advance unless anticipated by the Krause circular, a patent should issue.

Reversed.

[5] The ambiguity in the teaching of the Krause circular is further evidenced by the following: The Krause circular says: "For measuring of a desired testing speed (in accordance with acceptance regulations of the German Railroad), a time clock is used which is built into the pendulum scale." There is nothing on the face of the circular which shows what these "acceptance regulations" are. The circular then goes on to say: "The hand of the clock is arranged concentric with the hands of the scale." The Krause dial shows two concentric hands. That being true, if the hand of the clock is arranged concentric with the hands of the scale, there must be three hands. But three hands are not shown. Only two conclusions may be validly drawn from this: one, that the dial indicator shown in the Krause exhibit is not described by the text, or the other, that the Krause apparatus is equipped somewhere with a third clock hand not carried on the face of the dial in visible relation with the two hands thereon.

If the second conclusion be accepted, then Krause cannot negative invention in Blanks' apparatus for it is of the essence of the latter that the pacer hand be carried on the front of the indicator dial in visible relation with the load indicating hand. If the first conclusion is true, then Krause can anticipate Blanks only by there being imagined a third hand of pacer type on the dial of Krause concentric with the other two—and this without any statement in the circular that the third hand was to pace the others singly or together at a rate commensurable with the rate of change at which it is desired to apply a load to a specimen. Nothing in the circular states that the "clock hand" is used to reflect a predetermined rate of load change.

Adjudicated Patents

(C. C. A. Calif.) Sachs patent, No. 1,197,957, for inclosed fuse connector, *Held* invalid. *Madsen Iron Works* v. *Wood,,* 133 F.(2d) 416.

(D. C. N. Y.) Hill patent, No. 1,526,982, for stencil sheet, *Held* infringed. *A. B. Dick Co.* v. *Marr,* 48 F. Supp. 775.

(C. C. A. Calif.) Smith patent, No. 1,871,825, for elevator latch, claims 1, 4, and 11 *Held* invalid. *Wilson* v. *Byron Jackson Co.,* 133 F.(2d) 644.

(D. C. Mass.) Reed patent, No. 1,978,388, for heat producing composition and method of chemically generating heat, claims 1, 2, 3, 5, 7, and 8 *Held* valid and infringed. *Lee* v. *Congress Beauty Equipment Co.,* 48 F. Supp. 827.

(C. C. A. Calif.) Kugelman patent, No. 2,042,407, for drain cleaner, claims 13, 14, and 15 *Held* invalid. *Kugelman* v. *Sketchley,* 133 F.(2d) 426.

(C. C. A. N. Y.) Cover patent, No. 2,065,304, for respirator, claims 1 to 8 and 10 *Held* invalid. *Cover* v. *Schwartz,* 133 F.(2d) 541.

(C. C. A. N. Y.) Cover patent, No. 2,120,230, for respirator, claims 2 and 3 *Held* invalid. *Id.*

(C. C. A. Ohio.) Thurston reissue patent, No. 16,061, for drill, *Held* invalid. *Detachable Bit Co.* v. *Timken Roller Bearing Co.,* 133 F.(2d) 632.

(C. C. A. Ohio.) Thurston reissue patent, No. 17,557, for mining drill, claims 8, 9, and 10 *Held* invalid. *Id.*

Disclaimers

2,094,963.—*Joseph Sachs,* West Hartford, Conn. AUTOMATIC CIRCUIT BREAKER. Patent dated October 5, 1937. Disclaimer filed April 12, 1943, by the assignee, *Colt's Patent Fire Arms Manufacturing Company.*

Hereby enters this disclaimer of claim 14 in said patent.

2,240,178.—*George A. Brace,* Winnetka, Ill. ABSORPTION REFRIGERATION. Patent dated April 29, 1941. Disclaimer filed April 12, 1943, by the assignee, *The Hoover Company.*

Hereby enters this disclaimer to claims 24 and 25 in said specification.

2,244,556.—*Melvin M. Holm,* San Francisco, *Eugene H. Oakley,* El Cerrito, and *Robert L. Humphreys,* El Segundo, Calif. REACTION OF HYDROCARBONS. Patent dated June 3, 1941. Disclaimer filed April 3, 1943, by the assignee, *Standard Oil Company of California.*

Hereby enters this disclaimer to claims 1, 2, 3, and 4 of said patent.

2,285,032.—*Joseph R. Ingram,* Nitro, W. Va. AGE RESISTING RUBBER COMPOSITION. Patent dated June 2, 1942. Disclaimer filed March 27, 1943, by the assignee, *Monsanto Chemical Company.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, and 18.

2,303,817.—*George A. Brace,* Winnetka, Ill. REFRIGERATION. Patent dated December 1, 1942. Disclaimer filed April 12, 1943, by the assignee, *The Hoover Company.*

Hereby enters this disclaimer to claims 8 and 9 in said specification.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 4, 1943

[VOL. 550. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 440,132. THE PITTSBURG AND MIDWAY COAL MINING COMPANY, Kansas City, Mo. Filed Jan. 30, 1941.

PINE VALLEY

FOR COAL.
Claims use since Jan. 2, 1941.

Ser. No. 457,166. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Dec. 2, 1942.

CELAPOK

FOR STAPLE FIBERS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES.
Claims use since Nov. 27, 1942.

Ser. No. 458,218. BARIUM AND CHEMICALS, INC., Willoughby, Ohio. Filed Jan. 29, 1943.

BAR-CO

FOR MIXTURE OF ARGILLACEOUS AND CARBONACEOUS MATERIALS FOR BLANKETING AND INSULATING PURPOSES IN THE RISERS OF FOUNDRY MOLDS.
Claims use since June, 1941.

Ser. No. 458,448. ALBERT TROSTEL & SONS COMPANY, Milwaukee, Wis. Filed Feb. 9, 1943.

BLIZZARD SIDES

Applicant disclaims the word "Sides" apart from the mark.
FOR LEATHER.
Claims use since July, 1942.

CLASS 2

RECEPTACLES

Ser. No. 451,934. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed Mar. 27, 1942.



FOR WATERING CUPS, PANS AND TROUGHS, AND FEEDING PANS, TROUGHS AND RECEPTACLES FOR POULTRY AND FARM ANIMALS.
Claims use since July 21, 1941.

Ser. No. 457,438. B. C. JARRELL & COMPANY, Humboldt, Tenn. Filed Dec. 16, 1942.

"BUNDLE BUGGIE"

No claim is made to the word "Bundle" apart from the mark.
FOR SHOPPING BASKETS EQUIPPED WITH A HANDLE AND WHEELS.
Claims use since Sept. 23, 1942.

Ser. No. 458,168. M. ADLER'S SON INC., New York, N. Y. Filed Jan. 26, 1943.

Protectorette

FOR MOISTURE-PROOF BAG FOR THE PROTECTION OF FLOWERS.
Claims use since May 25, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 451,089. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 19, 1942.

Gay

FOR TOILET SOAP.
Claims use since July, 1940.

Ser. No. 457,611. THE NU-DI PRODUCTS COMPANY, Cleveland, Ohio. Filed Dec. 26, 1942.

Ermine

FOR LIQUID CLEANER, POLISHES, AND A DYE, AND DRESSING PREPARATION FOR SUEDE, FABRIC, AND LEATHER ARTICLES—NAMELY, FOR SHOES, AND HEEL AND EDGE TRIM FOR SHOES.
Claims use since Dec. 1, 1934.

Ser. No. 458,696. RAY A. WASHBURN, doing business as The VegaRinse Company, Chicago, Ill. Filed Feb. 22, 1943.

VegaRinse

No claim is made to the word "Rinse" apart from the mark.
FOR COMMINUTED CHEMICAL COMPOSITION TO BE DISSOLVED IN WATER FOR WASHING FRUITS AND VEGETABLES.
Claims use since Feb. 12, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 453,724. DE HERIOT, INC., Los Angeles, Calif. Filed June 16, 1942.

White Lace

FOR BATH OIL, BATH POWDER, BEAUTY CREAM, BRILLIANTINE, COLOGNE, COMPLEXION MAKEUP, DEODORANT, DEPILATORY, FACE CREAM, FACE POWDER, FINGERNAIL POLISH, HAND CREAM, HAND LOTION, LIPSTICKS, MANICURE PREPARATIONS, PERFUME, ROUGE AND ROUGE COMPACTS, SKIN LOTIONS.
Claims use since Sept. 1, 1935.

Ser. No. 457,215. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Dec. 4, 1942.



No claim is made to the words "Naugatuck" and "Sulphur" apart from the mark.
FOR CHEMICALS FOR USE AS FUNGICIDES.
Claims use since Nov. 13, 1942.

Ser. No. 457,569. ABBOTT LABORATORIES, North Chicago, Ill. Filed Dec. 23, 1943.

SULFEDEX

FOR ANTISEPTIC PREPARATION CONTAINING SULFONAMIDE TO BE USED AS AN INHALANT AND MEDICINAL JELLY.
Claims use since Nov. 27, 1942.

Ser. No. 457,754. FRED H. BLANCHARD, Philadelphia, Pa. Filed Jan. 5, 1943.

COD-O

No claim is made to the word "Cod" apart from the mark.
FOR OINTMENT FOR USE IN TREATING ACHING JOINTS.
Claims use since January, 1942.

Ser. No. 457,776. PARFUMS MASSENET, INCORPORATED, New York, N. Y. Filed Jan. 6, 1943.

RHAPSODIE

FOR PERFUMES AND TOILET WATER.
Claims use since Dec. 31, 1942.

Ser. No. 458,492. RAY P. HELM, doing business as The Helm Company, Benton Harbor, Mich. Filed Feb. 12, 1943.

HELM'S

Rob-A-San

The word "Helm's" is disclaimed apart from the mark.
FOR ANTACID NEUTRALIZING POWDER.
Claims use since March, 1926.

Ser. No. 458,617. JULIUS SCHMID, INC., New York, N. Y. Filed Feb. 18, 1943.



Applicant disclaims the words "The Seal of Protection" and "Trade-Mark Reg. U. S. Pat. Off." apart from the mark.
FOR VAGINAL JELLY.
Claims use since Jan. 29, 1943.

Ser. No. 458,665. WILLIAM R. WARNER & CO. INC., Wilmington, Del., and New York, N. Y. Filed Feb. 20, 1943.

INTRAMIN

FOR AMINO ACID PREPARATIONS FOR USE IN THE TREATMENT OF NUTRITIONAL DISORDERS.
Claims use since Feb. 19, 1943.

Ser. No. 458,666. WILLIAM R. WARNER & CO. INC., Wilmington, Del., and New York, N. Y. Filed Feb. 20, 1943.

ORAMIN

FOR AMINO ACID PREPARATIONS FOR USE IN THE TREATMENT OF NUTRITIONAL DISORDERS.
Claims use since Feb. 19, 1943.

Ser. No. 458,687. LUCIEN LELONG INC., Chicago, Ill. Filed Feb. 22, 1943.

FREEDOM

FOR LIPSTICK.
Claims use since Feb. 10, 1943.

Ser. No. 458,842. LAMBERT PHARMACAL COMPANY, Wilmington, Del. Filed Mar. 1, 1943.



FOR CREAMED OR SEMI-LIQUID TOOTH-PASTE.
Claims use since Dec. 30, 1942.

Ser. No. 459,112. THE HARROWER LABORATORY, INC., Glendale, Calif. Filed Mar. 15, 1943.

POLY-VI-CAPS

FOR VITAMIN PRODUCT USED AS A DIETARY SUPPLEMENT.
Claims use since Sept. 15, 1942.

Ser. No. 459,150. DR. HESS & CLARK, INC., Ashland, Ohio. Filed Mar. 16, 1943.

SOFENATE

FOR DISINFECTANT.
Claims use since Feb. 24, 1943.

Ser. No. 459,172. FIRST TEXAS CHEMICAL MANUFACTURING COMPANY, Dallas, Tex. Filed Mar. 17, 1943.

CELVET

FOR VITAMIN PREPARATION.
Claims use since Feb. 23, 1943.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 440,449. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Feb. 8, 1941.

SPOT-O-RITE

FOR OPAQUE, A GRAPHITIC MATERIAL IN THE NATURE OF AN INK FOR BLACKING OUT UNDESIRED PORTIONS OF A PHOTOGRAPHIC NEGATIVE.
Claims use since Nov. 20, 1940.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 457,038. KEASBEY & MATTISON COMPANY, Ambler, Pa. Filed Nov. 25, 1942.

K&M "Century" APAC BOARD

No claim is made to the word "Board" apart from the mark.
FOR ASBESTOS BOARDS, ASBESTOS SHEETS, ASBESTOS LUMBER, AND ASBESTOS BUILDING MATERIALS IN FLAT AND SHEET FORM.
Claims use since Sept. 25, 1942; and since Mar. 1, 1904, for the word "Century."

Ser. No. 458,570. IRVING SUBWAY GRATING CO., INC., Long Island City, N. Y. Filed Feb. 16, 1943.

POCKET

AIRFIELDS

The word "Airfields" is disclaimed apart from the mark.
FOR METAL GRATINGS FOR ASSEMBLY INTO LANDING AND TAKE-OFF MATS FOR AIRCRAFT.
Claims use since Feb. 8, 1943.

Ser. No. 458,948. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Mar. 6, 1943.

STRATOSEAL

FOR ZINC CHROMATE COMPOUND EXTRUDED MATERIAL IN THE FORM OF A TAPE FOR SEALING TO PREVENT LEAKS, PARTICULARLY IN HIGH ALTITUDE FLIGHTS.
Claims use since Dec. 30, 1942.

Ser. No. 458,978. A. F. VAN WOLF, doing business as Kedmont Manufacturing & Waterproofing Co., Chicago, Ill. Filed Mar. 8, 1943.

PRESERVATEX

FOR MATERIALS (IN LIQUID FORM), APPLICABLE TO CONCRETE (OR THE LIKE) FOR PURPOSES (*a*) HARDENING, (*b*) FINISHING, (*c*) WATERPROOFING, (*d*) SEALING, (*e*) ACIDPROOFING, AND/OR (*f*) STAINING THE CONCRETE (OR THE LIKE).
Claims use on (*a*) hardeners, since Feb. 8, 1926; on (*b*) finishes, since Oct. 8, 1926; on (*c*) waterproofers, since March, 1928; on (*d*) sealers, since May, 1928; on (*e*) acidproofers, since March, 1929; and on (*f*) stains, since November, 1938.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 456,411. ANTISEPTOL COMPANY, INC., Chicago, Ill. Filed Oct. 26, 1942.

MARVARATOR

FOR WATER PIPELINE DISPENSERS OF WATER SOFTENING AND CLEANSING COMPOUNDS FOR DISHWASHING MACHINE AND THE LIKE.
Claims use since Nov. 22, 1941.

Ser. No. 458,422. ADEL PRECISION PRODUCTS CORP., Burbank, Calif. Filed Feb. 9, 1943.

ISOdraulic

FOR HYDRAULIC CONTROL VALVES ESPECIALLY DESIGNED FOR USE ON AIRCRAFT.
Claims use since Dec. 18, 1942.

Ser. No. 458,885. TIMBERLOCK COMPANY, Hastings, Nebr. Filed Mar. 3, 1943.

Red Dot

FOR TIMBER CONNECTORS.
Claims use since Nov. 1, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 454,320. HERBERT VAN STRAATEN, doing business as Van Straaten Chemical Co., Chicago, Ill. Filed July 18, 1942.

VANTROL

FOR MACHINE TOOL LUBRICANTS FOR METAL CUTTING, GRINDING, HONING, LAPPING, DRAWING, AND STAMPING OF ALL TYPES OF METALS.
Claims use since Mar. 2, 1940.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 453,550. KEN-NITE COMPANY, Detroit, Mich. Filed June 8, 1942.

KEN-GLO

FOR CLEANER, WAX AND POLISH FOR AUTOMOBILES AND LACQUERED AND ENAMELED FINISHES.
Claims use since Feb. 17, 1938.

Ser. No. 454,028. CARBSIL PIGMENT COMPANY, Franklin, Tenn. Filed July 3, 1942.

CARBSIL

FOR CARBON-SILICATES USED AS A PIGMENT FOR PAINTS.
Claims use since May 29, 1942.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 457,856. JOHN P. LIEBERMAN & CO., Detroit, Mich. Filed Jan. 11, 1943. Under 10-year proviso.

LIEBERMAN'S PURE LEAF

ESTABLISHED 1880
LIEBERMAN'S

FOR SMOKING AND CHEWING TOBACCO.
Claims use since 1880.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 449,825. A. S. CAMPBELL CO., INC., Boston and East Boston, Mass. Filed Dec. 29, 1941.

NOJAX

FOR DOLLY TRUCKS FOR RECEIVING THE WHEEL OF A VEHICLE TO SUPPORT THE LATTER.
Claims use since June 2, 1941.

Ser. No. 457,804. THE BRITISH POWER BOAT COMPANY, LTD., Hythe, England. Filed Jan. 8, 1943.

QUEEN DUCK

FOR MOTOR BOATS.
Claims use since May 23, 1940.

Ser. No. 457,805. THE BRITISH POWER BOAT COMPANY, LTD., Hythe, England. Filed Jan. 8, 1943.

QUEEN GULL

FOR MOTOR BOATS.
Claims use since Sept. 26, 1941.

Ser. No. 458,563. BEECH AIRCRAFT CORPORATION, Wichita, Kans. Filed Feb. 16, 1943.

FOR AIRCRAFT—NAMELY, AIRPLANES.
Claims use since October, 1930.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 453,669. EXECUTONE, INC., New York, N. Y. Filed June 15, 1942.

Executone

FOR AMPLIFIED VOICE TYPE OF INTERCOMMUNICATING EQUIPMENT COMPRISING INTER-OFFICE TELEPHONE COMMUNICATION APPARATUS, ELECTRICAL COMMUNICATION AMPLIFIERS, PUBLIC ADDRESS SYSTEMS, TELEPHONE APPARATUS, PAGING SYSTEMS, MICROPHONES, AND ELECTRIC LOUD SPEAKERS.
Claims use since January, 1937.

Ser. No. 458,428. IRVINGTON VARNISH & INSULATOR CO., Irvington, N. J. Filed Feb. 9, 1943.

IRV-O-FLEX

FOR EXTRUDED PLASTIC TUBING FOR ELECTRICAL INSULATION.
Claims use since Dec. 17, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 458,709. RALPH VICTOR MORAN, doing business as Vic Moran, Bradford, Pa. Filed Feb. 23, 1943.

A LITTLE DOE

FOR TOY COIN BANKS.
Claims use since Apr. 3, 1941.

Ser. No. 458,710. RALPH VICTOR MORAN, doing business as Vic Moran, Bradford, Pa. Filed Feb. 23, 1943.

CHICKEN FEED

FOR TOY COIN BANKS.
Claims use since Aug. 27, 1940.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 446,530. JUSTIN E. ROSS, doing business as Ross Manufacturing Company, Kansas City, Mo. Filed Aug. 25, 1941.

MAGNO-ZIPPER

FOR SAFETY RAZORS.
Claims use since Aug. 9, 1941.

Ser. No. 452,928. HALDA AKTIEBOLAG, Svangata, Sweden. Filed May 11, 1942.

HALDA

FOR TYPEWRITERS, CHECK PROTECTORS, BOOKKEEPING MACHINES, DUPLICATORS, CODE WRITERS, TABULATING MACHINES, BILLING MACHINES, ADDRESSING MACHINES, PARTS THEREOF AND ACCESSORIES THEREFOR.
Claims use since 1896.

Ser. No. 455,631. METAL PRODUCTS ENGINEERING, INC., Los Angeles, Calif. Filed Sept. 19, 1942.

MAG-FITE

FOR FIRE EXTINGUISHING DEVICES.
Claims use since Sept. 4, 1942.

Ser. No. 458,096. THE FOSTORIA PRESSED STEEL CORP., Fostoria, Ohio. Filed Jan. 22, 1943.

BALANCED

FOR GUARDS, BRACKETS, ASSEMBLY MEANS THEREFOR, AND PARTS THEREOF, MORE PARTICULARLY AS ACCESSORIES FOR MACHINES TO PROVIDE USE OF LIGHT TO ADVANTAGE BY MACHINE OPERATORS.
Claims use since Nov. 1, 1941.

Ser. No. 458,330. GENESEE TOOL COMPANY, Fenton, Mich. Filed Feb. 4, 1943.



FOR METAL CUTTING TOOLS: DRILLS, FORM RELIEVED CUTTERS, HOBS, INSERTED BLADE MILLING CUTTERS AND BLADES, MILLING CUTTERS, CIRCULAR SAWS, SLITTING SAWS, REAMERS, TOOL BITS, CUTOFF BLADES, FINNING BLADES, FLAT FORM TOOLS, CIRCULAR FORM TOOLS, COMBINED DRILLS AND COUNTERSINKS, COUNTERSINKS, COUNTERBORES, SOLID BORING BARS AND TOOLS, INSERTED BORING BARS AND TOOLS, AND ARBORS.
Claims use since June 27, 1939.

Ser. No. 458,863. THE GLEASON WORKS, Rochester, N. Y. Filed Mar. 2, 1943.

CURVIC

FOR CLUTCHES.
Claims use since Jan. 21, 1943.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 458,456. CO-OPERATIVE DISPLAYS INC., Cincinnati, Ohio. Filed Feb. 10, 1943.

SIL-O-MODEL

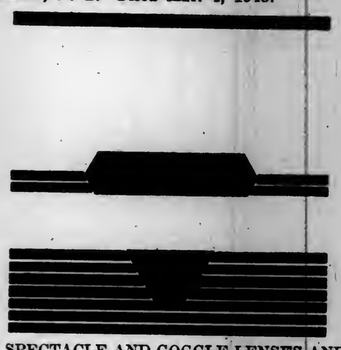
The word "Model" is disclaimed apart from the mark.
FOR SILHOUETTE MODELS FOR INSTRUCTIONAL USES TO IDENTIFY ACTUAL AEROPLANES AND MATERIAL IN SETS FOR MAKING THE MODELS.
Claims use since Jan. 4, 1943.

Ser. No. 458,888. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Mar. 4, 1943.



FOR SPECTACLE AND GOGGLE LENSES AND LENS BLANKS.
Claims use since August, 1942.

Ser. No. 458,889. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Mar. 4, 1943.



FOR SPECTACLE AND GOGGLE LENSES AND LENS BLANKS.
Claims use since August, 1942.

Ser. No. 458,890. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Mar. 4, 1943.



FOR SPECTACLE AND GOGGLE LENSES AND LENS BLANKS.
Claims use since August, 1942.

Ser. No. 458,993. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 9, 1943.

FASTAX

FOR MOTION PICTURE APPARATUS—NAMELY, MOTION PICTURE CAMERAS, PARTS THEREOF AND ACCESSORIES THEREFOR.
Claims use since Dec. 9, 1942.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 457,511. PROMOTIONS, INC., Youngstown, Ohio. Filed Dec. 18, 1942.

COSMOPOLITAN

FOR DINNERWARE PIECES OR DINNERWARE SETS MADE OF CROCKERY, EARTHENWARE, OR PORCELAIN.
Claims use since Oct. 4, 1941.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 456,735. VISUAL RECORDS CORPORATION, Washington, D. C. Filed Nov. 10, 1942.

VIS-U-ALL

FOR OFFICE FURNITURE—NAMELY, DESKS, CHAIRS, TABLES AND FILING CABINETS, FILING CASES, FILING BOXES, FILE HOLDERS, SEPARATORS, BOARDS, FRAMES, TUBS, TRANSFER RACKS AND CASES FOR MAINTAINING CARDS AND PAPERS IN PRESCRIBED ORDER AND ARRANGEMENT.
Claims use since Nov. 3, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 454,380. JAMES B. SHAVER, doing business as Powermatic Ventilator Company, Cleveland, Ohio. Filed July 21, 1942.



No claim is made to the words "For Industrial Buildings" or "Iron" or to the representation of the ventilator apart from the mark.
FOR GRAVITY AND FORCED DRAFT ROOF VENTILATORS.
Claims use since June 15, 1942.

Ser. No. 456,983. GENERAL PROPERTIES COMPANY, INC., Toledo, Ohio. Filed Nov. 23, 1942.

RX

FOR ATMOSPHERE CORRECTING GAS CONVERTERS FOR HEAT TREATING FURNACES.
Claims use since July 25, 1942.

Ser. No. 458,700. ATLAS ASBESTOS COMPANY, North Wales, Pa. Filed Feb. 23, 1943.



FOR ASBESTOS WICKS FOR OIL BURNING STOVES AND HEATERS.
Claims use since Dec. 3, 1942.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 458,849. RAYBESTOS-MANHATTAN, INC., Passaic, N. J. Filed Mar. 1, 1943.

GlassbestoS

FOR INSULATING TAPE.
Claims use since March, 1941.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 458,590. EVERPOINT NEEDLE COMPANY, New York, N. Y. Filed Feb. 17, 1943.

Everpoint

FOR PHONOGRAPH NEEDLES.
Claims use since Jan. 28, 1943.

CLASS 39

CLOTHING

Ser. No. 445,396. THE SEIBERLING LATEX PRODUCTS CO., Barberton, Ohio. Filed July 16, 1941.

BABY BUNTING

FOR BABY PANTS OF RUBBER.
Claims use since Aug. 16, 1940.

Ser. No. 445,617. MORRIS B. SACHS, Chicago, Ill. Filed July 24, 1941.

Norcraft

FOR MEN'S AND BOYS' SUITS AND OVERCOATS AND LADIES' COATS, SUITS, DRESSES, FUR COATS, FUR SCARVES, FUR JACKETS, FUR MUFFS, AND FUR GLOVES.
Claims use since Jan. 12, 1941.

Ser. No. 445,931. FRIEDMAN-MARKS CLOTHING COMPANY, INC., Richmond, Va. Filed Aug. 4, 1941.

PENNWOOD

FOR MEN'S SUITS AND COATS.
Claims use since January, 1932.

Ser. No. 457,802. ALPHA MILLS, Schuylkill Haven, Pa. Filed Jan. 8, 1943.

Patter Togs

No claim is made for the word "Togs" apart from the mark.
FOR CHILDREN'S UNDERWEAR, SWEATERS, AND PANTS.
Claims use since Oct. 7, 1942.

Ser. No. 458,234. UNION MANUFACTURING CO., Frederick, Md. Filed Jan. 29, 1943.

Barbara Fritchie

The trade-mark consists of the name of a celebrated Civil War character.
FOR HOSIERY.
Claims use since Feb. 21, 1941.

Ser. No. 458,452. C. W. ATTENBOROUGH & CO. LIMITED, Leicester, England. Filed Feb. 10, 1943.

TENBRA

FOR WOMEN'S, MEN'S, AND CHILDREN'S KNITTED OUTERWEAR AND UNDERWEAR GARMENTS CONSISTING OF WOMEN'S AND CHILDREN'S KNITTED FROCKS, JUMPERS, SPORTS COATS, VESTS, PANTEES, KNICKERS, PYJAMAS, NIGHTDRESSES, SLEEPING SUITS, AND MEN'S KNITTED VESTS, TRUNKS, SHIRTS, PANTS, PULLOVERS, HOSE AND FOOTBALL HOSE.
Claims use since August, 1941.

Ser. No. 458,723. ISREAL M. BERNSTEIN, doing business as Boston Blouse Co., Boston, Mass. Filed Feb. 24, 1943.

Jo-Ann Bernsley



Blouses

by BOSTON BLOUSE CO.

The picture of a girl is fanciful. The words "Blouses" and "by Boston Blouse Co." are disclaimed apart from the mark.
FOR MISSES' AND WOMEN'S BLOUSES.
Claims use since Jan. 18, 1943.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 451,923. SOLO PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 18, 1942.

Betty Bob

FOR HAIR PINS, HAIR CURLERS, HAIR WAVERS, HAIR PRESSERS, BARRETTES, HAIR CLASPS, RINGLET CURLERS, AND NON-ELECTRICAL HAIR CURLERS.
Claims use since Dec. 10, 1936.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 458,599. ONE-TWO-THREE COMPANY, INC., New York, N. Y. Filed Feb. 17, 1943.



FOR FLAVORING CONCENTRATE FOR BEVERAGES.
Claims use since Mar. 4, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 440,281. CHARLESTON MILLING COMPANY, Charleston, W. Va. Filed Feb. 4, 1941.

44

Applicant is the owner of registration No. 384,562, of Jan. 21, 1941.
FOR WHEAT FLOUR.
Claims use since July, 1930.

Ser. No. 452,103. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio. Filed Apr. 2, 1942.

KROGER'S

TOP TEN

Applicant is owner of Reg. No. 399,518 covering the name "Kroger's" and effected under the 10-year proviso.
FOR POTATOES.
Claims use since Dec. 4, 1941.

Ser. No. 455,296. CONSOLIDATED TEA COMPANY, INC., New York, N. Y. Filed Sept. 3, 1942.

SWEE-TOUCH-NEE



Applicant is the owner of trade-mark registration 103,987, dated Apr. 20, 1915, renewed, and No. 312,409, dated Apr. 24, 1934.
FOR TEA.
Claims use since 1938.

Ser. No. 456,682. VICTOR C. DEWEIN, Emery and Forsyth, Ill. Filed Nov. 7, 1942.



FOR FEEDS FOR LIVESTOCK AND POULTRY, SPECIFICALLY FOR CATTLE, HOGS, CHICKENS, AND TURKEYS.
Claims use since Oct. 21, 1942.

Ser. No. 456,684. VICTOR C. DEWEIN, Emery and Forsyth, Ill. Filed Nov. 7, 1942.

VIX

FOR FEEDS FOR LIVESTOCK AND POULTRY, SPECIFICALLY FOR CATTLE, HOGS, CHICKENS, AND TURKEYS.
Claims use since Oct. 21, 1942.

Ser. No. 459,206. ROPER BROS., INC., Winter Garden, Fla. Filed Mar. 18, 1943.

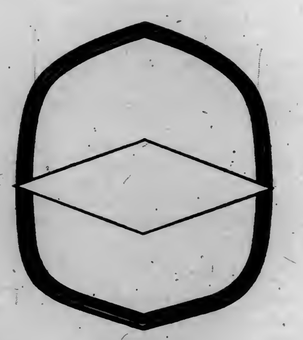
Molly Pitcher

FOR CANNED FRUITS AND VEGETABLES.
Claims use since Nov. 10, 1942.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 459,123. MINNEAPOLIS BREWING COMPANY, Minneapolis, Minn. Filed Mar. 15, 1943.



FOR BEER.
Claims use since Mar. 1, 1943.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 4, 1943

401,229. CARROTED HATTERS' FUR. COUPERIE BELGE AMERICAINE, S. A., Newark, N. J.
Filed June 4, 1941. Serial No. 444,175. PUBLISHED FEBRUARY 23, 1943. Class 1.

401,230. WINES. ACAMPO WINERY AND DISTILLERIES, INCORPORATED, Acampo, Calif.
Filed September 12, 1941. Serial No. 446,985. PUBLISHED DECEMBER 23, 1941. Class 47.

401,231. WARM AIR HOUSEHOLD FURNACE UNITS WITH AND WITHOUT AIR CONDITIONING EQUIPMENT PARTICULARLY DESIGNED FOR STOKER FIRING AND FOR INDIVIDUAL PARTS ENTERING THEREIN. HALL-NEAL FURNACE CO., Indianapolis, Ind.
Filed December 22, 1941. Serial No. 449,687. PUBLISHED FEBRUARY 23, 1943. Class 34.

401,232. MOTION PICTURE SCREENS OF THE ROLLER OR COLLAPSIBLE TYPE, PROJECTOR STANDS, AND UNIPODS. DA-LITE SCREEN COMPANY, Chicago, Ill.
Filed January 15, 1942. Serial No. 450,223. PUBLISHED FEBRUARY 23, 1943. Class 26.

401,233. CARTOONS PUBLISHED FROM TIME TO TIME. JAMES BUCHANAN, Middletown, Ohio.
Filed January 19, 1942. Serial No. 450,302. PUBLISHED FEBRUARY 16, 1943. Class 38.

401,234. SHEET MUSIC. HAROLD LEONARD, doing business as The Immortal Music Publishing Co., Long Beach, N. Y.
Filed April 23, 1942. Serial No. 452,536. PUBLISHED FEBRUARY 16, 1943. Class 38.

401,235. PERIODICAL PUBLICATION DEVOTED TO THE INDUSTRIAL FURNACE TRADE AND CONTAINING NOTES, COMMENTS, AND NEWS RELATING TO THE PROCESSING OF METALS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed April 27, 1942. Serial No. 452,601. PUBLISHED FEBRUARY 16, 1943. Class 38.

401,236. ILLUSTRATED STORY MAGAZINES PUBLISHED BI-MONTHLY. DELL PUBLISHING COMPANY, INC., New York, N. Y.
Filed May 7, 1942. Serial No. 452,851. PUBLISHED FEBRUARY 16, 1943. Class 38.

401,237. STRUCTURAL PARTS, FOR PREFABRICATED BUILDINGS—NAMELY, FRAMING LUMBER, PLYWOOD, MOULDINGS, SILLS, WALL GIRDERS, INTERIOR GIRDERS, PREFABRICATED FLOOR UNITS, ETC. AMERICAN HOUSES, INC., New York, N. Y.
Filed May 8, 1942. Serial No. 452,882. PUBLISHED FEBRUARY 23, 1943. Class 12.

401,238. SOAP. BOTH APPLIANCE DISTRIBUTORS, INC., Milwaukee, Wis.
Filed June 27, 1942. Serial No. 453,927. PUBLISHED FEBRUARY 23, 1943. Class 4.

401,239. CERAMIC TABLEWARE. EUGENE L. FONDEVILLE, New York, N. Y.
Filed July 25, 1942. Serial No. 454,506. PUBLISHED FEBRUARY 23, 1943. Class 30.

401,240. VOLTMETERS, POCKET VOLTAGE TESTERS, CONDENSER TESTERS, SPEAKER TESTERS, TUBE TESTERS, MAGNIFYING MIRRORS, OSCILLOSCOPES, THERMOMETERS, ETC. PHILCO CORPORATION, Philadelphia, Pa.
Filed July 30, 1942. Serial No. 454,610. PUBLISHED FEBRURY 23, 1943. Class 26.

401,241. MEN'S AND WOMEN'S COVERALL SERVICE COATS. PHILCO CORPORATION, Philadelphia, Pa.
Filed July 30, 1942. Serial No. 454,612. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,242. WHISKY. G. F. HEUBLEIN & BRO., Hartford, Conn.
Filed August 28, 1942. Serial No. 455,159. PUBLISHED FEBRUARY 23, 1943. Class 49.

401,243. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, CANNED FRUIT JUICES, CANNED RIPE OLIVES, CANNED TOMATO PASTE, CANNED TOMATOES, CANNED SAUERKRAUT, LENTILS, RICE, WHEAT FLOUR, COFFEE, AND SALT. GUS SCLAFANI, Stamford, Conn.
Filed September 3, 1942. Serial No. 455,314. PUBLISHED FEBRUARY 23, 1943. Class 46.

401,244. GLASS DISH. HARRY I. KLEINBERG, Pittsburgh, Pa.
Filed September 17, 1942. Serial No. 455,595. PUBLISHED FEBRUARY 23, 1943. Class 33.

401,245. PICK-UP UNITS ATTACHED TO AIRPLANES FOR THE PURPOSE OF PICKING UP TRAILERS OR OTHER LOADS AND FOR GROUND STATION STORAGE BOXES FROM WHICH THESE PICK-UPS ARE MADE. ALL AMERICAN AVIATION, INC., Wilmington, Del.
Filed October 14, 1942. Serial No. 456,169. PUBLISHED FEBRUARY 23, 1943. Class 19.

401,246. LIQUID COMPOSITION IN THE NATURE OF A RUBBER DRESSING. SILLERS PAINT & VARNISH COMPANY, Los Angeles, Calif.
Filed October 14, 1942. Serial No. 456,201. PUBLISHED FEBRUARY 23, 1943. Class 4.

401,247. LIQUID PREPARATION FOR CLEANING, PRESERVING AND RENEWING TYPEWRITER AND WRINGER ROLLERS AND OTHER PARTS MADE OF RUBBER AND FOR CLEANING TYPEWRITER TYPE AND KEYS. MOHAWK CHEMICAL PRODUCTS CO., Philadelphia, Pa., assignor to Mohawk Chemical Products, Inc., a corporation of Pennsylvania.
Filed October 15, 1942. Serial No. 456,220. PUBLISHED FEBRUARY 23, 1943. Class 4.

401,248. FIRE-RETARDANT AND WATERPROOFED STRUCTURAL NONMETALLIC MATERIAL—NAMELY, WOOD AND OTHER FIBRE MATERIALS IMPREGNATED TO MAKE SAME FIRE RESISTANT AND WEATHERPROOF. IGNACE ALEMBIK, New York, N. Y., assignor to Albi Chemical Corporation, New York, N. Y.
Filed October 23, 1942. Serial No. 456,359. PUBLISHED FEBRUARY 23, 1943. Class 12.

401,249. WINES. WESTERN WINE CORPORATION, doing business as Vintage Wines Co., Baltimore, Md.
Filed October 23, 1942. Serial No. 456,376. PUBLISHED FEBRUARY 16, 1943. Class 47.

401,250. WATCHES. ALBERT S. SAMUELS CO., San Francisco, Calif.
Filed October 26, 1942. Serial No. 456,434. PUBLISHED FEBRUARY 23, 1943. Class 27.

401,251. VISIBLE AND AUDIBLE ELECTRIC SIGNALS, INDICATORS, AND ALARMS, FOR HIGHWAYS, VEHICLES, TRAFFIC, AND IN PLANTS AND ESTABLISHMENTS FOR CALLING, ALARM AND INFORMATION PURPOSES, ASSEMBLIES THEREOF AND PARTS THEREFOR. SCHWARZE ELECTRIC CO., Adrian, Mich.
Filed October 29, 1942. Serial No. 456,514. PUBLISHED FEBRUARY 23, 1943. Class 21.

401,252. VISIBLE AND AUDIBLE ELECTRIC SIGNALS, INDICATORS, AND ALARMS, FOR HIGHWAYS, VEHICLES, TRAFFIC, AND IN PLANTS AND ESTABLISHMENTS FOR CALLING, ALARM, AND INFORMATION PURPOSES, ASSEMBLIES THEREOF, AND PARTS THEREFOR. SCHWARZE ELECTRIC CO., Adrian, Mich.
Filed October 29, 1942. Serial No. 456,515. PUBLISHED FEBRUARY 23, 1943. Class 21.

401,253. AUTO TRAILERS AND ROAD VEHICLES EQUIPPED WITH SLEEPING, EATING, AND LIVING FACILITIES. AHLANDER MANUFACTURING COMPANY, Provo, Utah.
Filed November 6, 1942. Serial No. 456,665. PUBLISHED FEBRUARY 23, 1943. Class 19.

401,254. HOUSE ORGAN. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed November 13, 1942. Serial No. 456,791. PUBLISHED FEBRUARY 16, 1943. Class 38.

401,255. RAZOR STROPS. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill.
Filed November 18, 1942. Serial No. 456,890. PUBLISHED FEBRUARY 23, 1943. Class 4.

401,256. RAZOR STROPS. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill.
Filed November 18, 1942. Serial No. 456,892. PUBLISHED FEBRUARY 23, 1943. Class 4.

401,257. CHEMICAL COMPOUND FOR CLEANING AND DEWAXING OIL WELLS AND THEIR PRODUCTIVE APPARATUS, AND FOR SOFTENING, LOOSENING, AND REMOVING UNDESIRABLE DEPOSITS OF MUD, SHALE, AND DETRITUS WHICH FORM CLOGGING OBSTRUCTIONS TO PRODUCTION IN OIL WELLS. SPAZIER SOAP & CHEMICAL COMPANY, Santa Monica, Calif.
Filed November 18, 1942. Serial No. 456,907. PUBLISHED FEBRUARY 23, 1943. Class 4.

401,258. NEWS STORIES AND NEWS PHOTOGRAPHS. THE ASSOCIATED PRESS, New York, N. Y.
Filed November 19, 1942. Serial No. 456,914. PUBLISHED FEBRUARY 23, 1943. Class 38.

401,259. FLAVORED POPPED CORN. MICHAEL J. BATELJA, doing business as M. J. Batelja Co., Portland, Oreg.
Filed November 19, 1942. Serial No. 456,915. PUBLISHED FEBRUARY 23, 1943. Class 46.

401,260. FILLING AND REINFORCING MATERIAL IN THE NATURE OF FINELY DIVIDED MINERALS FOR USE IN THE MANUFACTURE OF SYNTHETIC RUBBER. MOORE & MUNGER, New York, N. Y.
Filed November 19, 1942. Serial No. 456,926. PUBLISHED FEBRUARY 23, 1943. Class 1.

401,261. ALUMINUM OXIDE SUSPENSION USED FOR POLISHING METALLOGRAPHIC SPECIMENS PRIOR TO MICROSCOPICAL EXAMINATION. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa.
Filed November 20, 1942. Serial No. 456,939. PUBLISHED FEBRUARY 23, 1943. Class 4.

401,262. SPECTACLES, GOGGLES, AND LENSES FOR THE SAME. NEW YORK EYE PROTECTION CO. INC., Brooklyn, N. Y.
Filed November 21, 1942. Serial No. 456,958. PUBLISHED FEBRUARY 23, 1943. Class 26.

401,263. SPECTACLES, GOGGLES, AND LENSES FOR THE SAME. NEW YORK EYE PROTECTION CO. INC., Brooklyn, N. Y.
Filed November 21, 1942. Serial No. 456,959. PUBLISHED FEBRUARY 23, 1943. Class 26.

401,264. FOR FUEL STOKERS. DETROIT STOKER COMPANY, Detroit, Mich.
Filed November 23, 1942. Serial No. 456,974. PUBLISHED FEBRUARY 23, 1943. Class 34.

401,265. CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed November 25, 1942. Serial No. 457,026. PUBLISHED FEBRUARY 23, 1943. Class 17.

401,266. BRANDY. SHEWAN-JONES, INC., New York, N. Y.
Filed November 25, 1942. Serial No. 457,054. PUBLISHED FEBRUARY 16, 1943. Class 49.

401,267. ELECTRIC ARC WELDING MACHINES. WILSON WELDER AND METALS CO. INC., New York, N. Y.
Filed December 2, 1942. Serial No. 457,180. PUBLISHED FEBRUARY 23, 1943. Class 21.

401,268. FRESH GRAPES AND FRESH CITRUS FRUITS. GEORGE ZANINOVICH, doing business as Zaninovich Bros., and Orange Cove Fruit Company, Dinuba, Calif.
Filed December 2, 1942. Serial No. 457,182. PUBLISHED FEBRUARY 23, 1943. Class 46.

401,269. TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS, AND STRIPS. HOYLAND STEEL COMPANY INCORPORATED, New York, N. Y.
Filed December 3, 1942. Serial No. 457,188. PUBLISHED FEBRUARY 23, 1943. Class 14.

401,270. CIGARETTES. RIGGIO TOBACCO CORPORATION, Brooklyn, N. Y.
Filed December 4, 1942. Serial No. 457,208. PUBLISHED FEBRUARY 23, 1943. Class 17.

401,271. SMOKING TOBACCO. RIGGIO TOBACCO CORPORATION, Brooklyn, N. Y.
Filed December 4, 1942. Serial No. 457,209. PUBLISHED FEBRUARY 23, 1943. Class 17.

401,272. WINES. CALIFORNIA GROWERS WINERIES, Cutler, Calif.
Filed December 8, 1942. Serial No. 457,271. PUBLISHED FEBRUARY 16, 1943. Class 47.

401,273. DEHYDRATED SOUP MIXTURES—NAMELY, BEEF NOODLE, CHICKEN NOODLE, VEGETABLE NOODLE, YANKEE BEAN, SPLIT GREEN PEA, AND OLD FASHIONED POTATO. B. T. BABBITT, INC., Albany and New York, N. Y.
Filed December 12, 1942. Serial No. 457,360. PUBLISHED FEBRUARY 23, 1943. Class 46.

401,274. CORE AND FACING BINDER. STEVEN MOCSNY, doing business as Independent Fdry. Supply Co., Vernon, Calif.
Filed December 12, 1942. Serial No. 457,367. PUBLISHED FEBRUARY 23, 1943. Class 1.

401,275. QUARTERLY PUBLICATION. DELTA SIGMA PHI FRATERNITY, Springfield, Ohio.
Filed December 15, 1942. Serial No. 457,414. PUBLISHED FEBRUARY 16, 1943. Class 38.

401,276. CHILDREN'S, TEEN AGE, JUNIOR MISS, MISSES', WOMEN'S, AND LADIES' COATS, SUITS, JACKETS, SKIRTS, AND SLACKS MADE OF SILK, COTTON, WOOL, LINEN, WORSTED, RAYON, AND ACETATE CLOTHS. EDDIE GOLDFIELD, New York, N. Y.
Filed December 15, 1942. Serial No. 457,417. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,277. DEHYDRATED VEGETABLES AND DEHYDRATED PREPARED SOUPS. IVANHOE FOODS, INC., Auburn, N. Y.
Filed December 15, 1942. Serial No. 457,419. PUBLISHED FEBRUARY 23, 1943. Class 46.

401,278. CHILDREN'S, TEEN AGE, JUNIOR MISS, MISSES', WOMEN'S, AND LADIES' COATS, SUITS, JACKETS, SKIRTS, AND SLACKS MADE OF SILK, COTTON, WOOL, LINEN, WORSTED, RAYON, AND ACETATE CLOTHS. EDDIE GOLDFIELD, New York, N. Y.
Filed December 16, 1942. Serial No. 457,437. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,279. TERMINAL BLOCKS AND DROP-OUT FUSED TAPPERS. A. B. CHANCE COMPANY, Centralia, Mo.
Filed December 18, 1942. Serial No. 457,494. PUBLISHED FEBRUARY 23, 1943. Class 21.

401,280. FINGER RINGS. WALTER LAMPL, doing business as Lampl, New York, N. Y.
Filed December 19, 1942. Serial No. 457,524. PUBLISHED FEBRUARY 23, 1943. Class 28.

401,281. MEN'S MILITARY, SPORT, DRESS, AND NEGLIGEE SHIRTS. B. LIPPMAN, INC., New York, N. Y.
Filed December 22, 1942. Serial No. 457,562. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,282. RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed December 26, 1942. Serial No. 457,619. PUBLISHED FEBRUARY 23, 1943. Class 21.

401,283. WIRE FENCING. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed December 28, 1942. Serial No. 457,622. PUBLISHED FEBRUARY 23, 1943. Class 13.

401,284. LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES. MORRIS W. HAFT & BROTHERS, New York, N. Y.
Filed December 28, 1942. Serial No. 457,625. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,285. CANNED SALMON. NEW ENGLAND FISH COMPANY, Seattle, Wash.
Filed December 29, 1942. Serial No. 457,640. PUBLISHED FEBRUARY 23, 1943. Class 46.

401,286. LADIES' AND MISSES' COATS, SUITS, JACKETS, AND COAT AND SUIT ENSEMBLES. JULIUS NELSON CORP., New York, N. Y.
Filed December 31, 1942. Serial No. 457,684. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,287. FRESH VEGETABLES. ARIZONA FARMS, Tolleson, Ariz.
Filed January 2, 1943. Serial No. 457,713. PUBLISHED FEBRUARY 23, 1943. Class 46.

401,288. SERIES OF CARTOONS. ERIC ERICSON, New York, N. Y.
Filed January 5, 1943. Serial No. 457,760. PUBLISHED FEBRUARY 16, 1943. Class 38.

401,289. CANNED FISH. OXNARD CANNERS, INC., Monterey, Calif.
Filed January 11, 1943. Serial No. 457,863. PUBLISHED FEBRUARY 23, 1943. Class 46.

[ACT OF MARCH 19, 1920. SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,290. (CLASS 2. RECEPTACLES.) PAK-RAK, INC., New York, N. Y. Filed Jan. 13, 1940. Serial No. 427,440.

PAKRAK

FOR CONTAINERS COMPOSED OF CARDBOARD OR CORRUGATED CARDBOARD AND PARTS THEREFOR COMPOSED OF METAL.
Claims use since Dec. 15, 1939.

401,291. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FOG NOZZLE CO., Los Angeles, Calif. Filed Feb. 14, 1941. Serial No. 440,648.

FOGNOZL

FOR FIRE EXTINGUISHING EQUIPMENT—NAMELY, PIPES, NOZZLES, DISTRIBUTOR HEADS, APPLICATORS, AND SPRINKLER HEADS.
Claims use since Jan. 7, 1937.

401,292. (CLASS 38. PRINTS AND PUBLICATIONS.) THE B. MANISCHEWITZ COMPANY, Jersey City, N. J., and Cincinnati, Ohio. Filed Oct. 27, 1941. Serial No. 448,161.

FOOD STORE REVIEW

FOR A PERIODICAL PUBLICATION.
Claims use since Oct. 17, 1941.

401,293. (CLASS 37. PAPER AND STATIONERY.) ASHLAND PAPER MILLS, INC., Ashland, N. H. Filed Nov. 5, 1941. Serial No. 448,405.

Ashland

FOR FACIAL TISSUE, TOILET TISSUE, PAPER NAPKINS, AND PAPER TOWELS.
Claims use since 1937.

401,294. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) OHIO FERRO-ALLOYS CORPORATION, Canton, Ohio. Filed Jan. 5, 1942. Serial No. 449,999.

DEPENDABILITY ★ RAINIER BRAND QUALITY ★ SERVICE

FOR FERRO-ALLOYS—NAMELY, FERRO SILICON, ALL GRADES; FERRO CHROME; FERRO MANGANESE, AND SILICO MANGANESE.
Claims use since Nov. 21, 1941.

401,295. (CLASS 47. WINES.) AMERICAN B. D. COMPANY, Paterson, N. J. Filed Mar. 9, 1942. Serial No. 451,478.

OPICI

FOR STILL WINES.
Claims use since Mar. 2, 1942.

401,296. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHRISALTY LABORATORIES, Newark, N. J. Filed Mar. 13, 1942. Serial No. 451,591.

B4S THEY FORTIFY

No claim is made for the descriptive elements, such as "B4" and "They Fortify."
FOR VITAMIN TABLETS AND CAPSULES.
Claims use since Feb. 18, 1942.

401,297. (CLASS 43. THREAD AND YARN.) CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Mar. 17, 1942. Serial No. 451,667.

FORTE

FOR YARNS.
Claims use since Mar. 2, 1942.

401,298. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Mar. 17, 1942. Serial No. 451,696.

SOFT-KNIT

FOR ART NEEDLEWORK YARNS.
Claims use since Mar. 4, 1942.

401,299. (CLASS 12. CONSTRUCTION MATERIALS.) ANDRESEN CORPORATION, Skokie, Ill. Filed Mar. 18, 1942. Serial No. 451,703.

PRONTOLAY

FOR BITUMINOUS COATED AGGREGATE FOR PAVING PURPOSES.
Claims use since Mar. 24, 1941.

401,300. (CLASS 12. CONSTRUCTION MATERIALS.) SAM CAMPAGNA, doing business as The Camp Company, Chicago, Ill. Filed Apr. 13, 1942. Serial No. 452,305.

SUREMASTIC

FOR PLASTIC INSULATING AND WATERPROOFING MATERIAL.
Claims use since Jan. 10, 1937.

401,301. (CLASS 12. CONSTRUCTION MATERIALS.) SAM CAMPAGNA, doing business as The Camp Company, Chicago, Ill. Filed Apr. 13, 1942. Serial No. 452,306.

Camp's QUICK PATCH

FOR QUICK SETTING MATERIAL FOR PATCHING FLOORS.
Claims use since Feb. 15, 1939.

401,302. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 4, 1942. Serial No. 452,768.

FAIR-LAWN

FOR LAWN SEED.
Claims use since Mar. 9, 1942.

401,303. (CLASS 38. PRINTS AND PUBLICATIONS.) FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed May 6, 1942. Serial No. 452,824.

HOME DECORATION

FOR PERIODICAL PUBLICATION.
Claims use since Feb. 25, 1942.

401,304. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CANTOR GREENSPAN CO., INC., New York, N. Y. Filed Aug. 8, 1942. Serial No. 454,797.

TACOMA

FOR RAYON PIECE GOODS.
Claims use since Jan. 16, 1942.

401,305. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) READY FOODS CANNING CORP., Chicago, Ill. Filed Aug. 10, 1942. Serial No. 454,837.

Kem

FOR PORK LUNCHEON MEAT.
Claims use since Feb. 23, 1942.

401,306. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) READY FOODS CANNING CORP., Chicago, Ill. Filed Aug. 10, 1942. Serial No. 454,838.

Leeds

FOR CANNED CHOPPED HAM.
Claims use since Feb. 23, 1942.

401,307. (CLASS 37. PAPER AND STATIONERY.) LEE PAPER COMPANY, Vicksburg, Mich. Filed Sept. 19, 1942. Serial No. 455,627.

Lee Paper Company's

WASHINGTON BOND

FOR BOND PAPER.
Claims use since Aug. 8, 1905.

401,308. (CLASS 39. CLOTHING.) GOTTLIEB BROTHERS MANUFACTURERS OF SILK UNDERWEAR, INC., New York, N. Y. Filed Nov. 18, 1942. Serial No. 456,887.

Tailored by
Radcliffe

FOR LADIES' UNDERWEAR.
Claims use since Oct. 1, 1940.

401,309. (CLASS 38. PRINTS AND PUBLICATIONS.) BUDDY J. FARES, doing business as The Youngstowner, Youngstown, Ohio. Filed Nov. 26, 1942. Serial No. 457,063.

YOUNGSTOWNER
Mahoning Valley's Entertainment Guide

FOR A WEEKLY PUBLICATION COMPRISING AN ENTERTAINMENT GUIDE.
Claims use since Feb. 13, 1942.

401,310. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. LOWE & SONS COMPANY, Fairfield, Conn. Filed Dec. 12, 1942. Serial No. 457,366.

PULL THE TRIGGER

FOR MANUALLY OPERATED FLOOR WAXERS.
Claims use since Dec. 21, 1939.

401,311. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PACIFIC FLUSH TANK COMPANY, Chicago, Ill. Filed Feb. 8, 1943. Serial No. 458,318.

FLOATING COVER

FOR SEWAGE SLUDGE DIGESTERS—NAMELY, TANKS HAVING COVERS AND ADAPTED TO RECEIVE AND STORE SEWAGE SLUDGE WHILE IT UNDERGOES BACTERIAL DECOMPOSITION KNOWN AS DIGESTION.
Claims use since July 29, 1931.

TRADE-MARK REGISTRATIONS RENEWED

23,353. **"HOOD'S" AND DRAWING.** COMPOUND OF SARSAPARILLA. Registered July 11, 1893. CHARLES I. HOOD, Lowell, Mass. Re-renewed July 11, 1943, to C. I. Hood Co. Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

164,118. **"G. SENSAT" AND DRAWING.** OLIVE OIL. Registered February 13, 1923. G. SENSAT, Hijos, Barcelona, Spain, a firm. Renewed February 13, 1943.

164,278. **"ELINSTAR" AND DRAWING.** ELASTIC CORSETS, CORSET BELTS, BUST SUPPORTERS, HOSIERY, SUPPORTING BELTS, AND SUSPENSORY BANDAGES. Registered February 20, 1923. F. LONGDON & COMPANY LIMITED, Derby, England, a corporation of Great Britain. Renewed February 20, 1943.

165,259. **DISPLAY WORLD.** MONTHLY PUBLICATION FOR MERCHANTS, DISPLAYMEN, AND ADVERTISERS. Registered March 6, 1923. THE DISPLAY PUBLISHING COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed March 6, 1943.

165,540. **WALNETTOS.** CANDY. Registered March 13, 1923. J. N. COLLINS COMPANY, Minneapolis, Minn. Renewed March 13, 1943, to Peter Paul, Inc., Naugatuck, Conn., a corporation of Delaware, successor.

165,585. **L'OFFRANDE.** PERFUMES AND CERTAIN OTHER TOILET PREPARATIONS. Registered March 13, 1923. MULHENS & KROPFF, INCORPORATED, New York, N. Y. Renewed March 13, 1943, to Alien Property Custodian, Washington, D. C., assignee.

165,591. **NELVO.** COTTON PIECE GOODS AND CERTAIN NAMED COTTON GOODS. Registered March 13, 1923. JAMES NELSON, LIMITED, Nelson, England. Renewed March 13, 1943, to James Nelson Ltd., Bradford, England, a corporation of Great Britain.

166,591. **"PERM-O-RITE" AND DRAWING.** TYPEWRITER RIBBONS AND CARBON PAPER. Registered April 10, 1923. WATERS & WATERS MFG. CO., St. Louis, Mo. Renewed April 10, 1943, to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

166,945. **NOUVELLA.** WOOLEN PIECE GOODS. Registered April 17, 1923. FORSTMANN & HUFFMANN COMPANY, assignor to Forstmann & Huffmann Company. Renewed April 17, 1943, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee by mesne assignments.

167,237. **A-A.** FRESH MILK. Registered April 24, 1923. THE MATTHEWS SELECTED DAIRIES COMPANY. Renewed April 24, 1943, to The Matthews-Frechtling Dairy Company, Cincinnati, Ohio, a corporation of Delaware, assignee by mesne assignments.

167,427. **LEBANON BELLE.** WHEAT FLOUR. Registered May 1, 1923. PFEFFER MILLING COMPANY, Lebanon, Ill., a corporation of Illinois. Renewed May 1, 1943.

167,574. **NEVERLEAK.** DRAIN SOLVENTS. Registered May 1, 1923. BUFFALO SPECIALTY CO. Renewed May 1, 1943, to Liquid Veneer Corporation, Buffalo, N. Y., a corporation of New York, by change of name.

167,893. **"RED HOOP" AND DRAWING.** NAILS. Registered May 8, 1923. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio, Chicago, Ill., Pittsburgh, Pa., New York, N. Y., and Worcester, Mass. Renewed May 8, 1943, to The American Steel and Wire Company of New Jersey, Cleveland, Ohio, a corporation of New Jersey.

167,933. **REPRESENTATION OF AN OVAL AND CHECKER PANEL DESIGN.** DRY AND READY-MIXED PAINTS, PAINT ENAMELS, STAINS AND VARNISHES. Registered May 8, 1923. MONROE, LEDERER & TAUSSIG. Renewed May 8, 1943, to Monroe, Lederer & Taussig, Inc., Philadelphia, Pa., a corporation of Delaware, successor.

167,934. **REPRESENTATION OF A BOTTLE CAP COLORED RED.** AMMONIA. Registered May 8, 1923. C. M. KIMBALL COMPANY, Winthrop, Mass. Renewed May 8, 1943, to C. M. Kimball Company, Boston, Mass., a corporation of Massachusetts.

168,394. **RED CAP.** AMMONIA. Registered May 22, 1923. C. M. KIMBALL COMPANY, Winthrop, Mass. Renewed May 22, 1943, to C. M. Kimball Company, Boston, Mass., a corporation of Massachusetts.

168,572. **"DUPLEX" AND DRAWING.** LEATHER. Registered May 29, 1923. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y., a corporation of New York. Renewed May 29, 1943.

168,754. **KYSPAR.** GROUND, LUMP, AND GRAVEL FLUOR SPAR. Registered May 29, 1923. KENTUCKY FLUOR SPAR CO., Marion, Ky. Renewed May 29, 1943, to Kentucky Fluor Spar Co., Newport, Ky., a corporation of Kentucky, successor.

168,851. **WATERFALLS.** PAPER USED FOR PRINTING, WRITING, BOOKKEEPING, AND TYPEWRITING, AND MAILING ENVELOPES. Registered May 29, 1923. POLAND PAPER COMPANY, Mechanic Falls, Maine. Renewed May 29, 1943, to North American Pulp & Paper Corporation, New York, N. Y., a corporation of New York, assignee.

168,924. **HAVA.** CRACKERS OR BISCUITS. Registered May 29, 1923. PENNSYLVANIA BAKING COMPANY, Scranton, Pa., a corporation of Pennsylvania. Renewed May 29, 1943.

169,298. **CONVERTIT.** INVERTASE USED IN MAKING SUGAR SIRUPS. Registered June 12, 1923. AMERICAN BURTONIZING COMPANY AND WALLERSTEIN LABORATORIES. Renewed June 12, 1943, to Wallerstein Company, Inc., New York, N. Y., a corporation of New York, assignee.

169,655. **"E. R. SQUIBB & SONS" AND DRAWING.** CERTAIN NAMED CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS. Registered June 26, 1923. E. R. SQUIBB & SONS, New York, N. Y., a corporation of New York. Renewed June 26, 1943.

170,118. **HIGHLANDER.** FRESH CANTALOUPES. Registered July 10, 1923. THOMAS H. PEPPERS. Renewed July 10, 1943, to Western Fruit Growers, Inc., Los Angeles, Calif., a corporation of California, assignee.

170,155. **GOLDEN FLEECE.** CANDIES. Registered July 10, 1923. MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y., a corporation of West Virginia. Renewed July 10, 1943.

170,717. **"LONDON" AND DRAWING.** FABRIC AND LEATHER SHOES FOR MEN, WOMEN, AND CHILDREN. Registered July 24, 1923. LONDON SHOE CO., INC. Renewed July 24, 1943, to London Character Shoes Corporation, New York, N. Y., a corporation of New York, assignee.

170,784. **AMERICO.** PAINTS, PARTICULARLY PASTE AND READY-MIXED PAINTS. Registered July 24, 1923. AMERICAN MARINE PAINT COMPANY, INC., New York, N. Y. Renewed July 24, 1943, to American Marine Paint Company, San Francisco, Calif., a corporation of California, successor.

171,140. **BURTO.** DEXTRINOUS SIRUP USED IN MAKING BEVERAGES. Registered July 31, 1923. AMERICAN BURTONIZING COMPANY AND WALLERSTEIN LABORATORIES. Renewed July 31, 1943, to Wallerstein Company, Inc., New York, N. Y., a corporation of New York, assignee.

171,184. **SUNDIPT.** CANNED FRUITS, FRUIT SALAD, AND VEGETABLES, AND DRIED FRUIT. Registered July 31, 1923. F. G. WOOL PACKING CO., INC., San Jose, Calif., a corporation of California. Renewed July 31, 1943.

171,355. **"EARLY RISER" AND DRAWING.** YEAST CAKES FOR CULINARY PURPOSES. Registered August 7, 1923. REEL PRODUCTS COMPANY, Cedar Rapids, Iowa. Renewed August 7, 1943, to Reel Products Company, Monticello, Iowa, a corporation of Iowa.

171,359. **GLASEPTIC.** NEBULIZERS AND SYRINGES. Registered August 7, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed August 7, 1943.

171,583. **"T" AND DRAWING.** ROLLER BEARINGS AND PARTS THEREOF. Registered August 7, 1923. THE TIMKEN ROLLER BEARING COMPANY, Canton, Ohio, a corporation of Ohio. Renewed August 7, 1943.

171,818. **THE OKLAHOMA FARMER-STOCKMAN.** MONTHLY MAGAZINE. Registered August 14, 1923. THE OKLAHOMA PUBLISHING COMPANY, Oklahoma City, Okla., a corporation of Oklahoma. Renewed August 14, 1943.

171,838. **"SUNLAN" AND DRAWING.** HATS AND CAPS FOR MEN AND BOYS. Registered August 14, 1923. MAX RAPPAPORT. Renewed August 14, 1943, to Consolidated Hat Stores, Ltd., Los Angeles, Calif., a corporation of California, successor.

171,873. **'CV'.** TAPPET WRENCHES FOR TIGHTENING AND LOOSENING NUTS, BOLTS, AND CAP SCREWS. Registered August 14, 1923. BONNEY FORGE & TOOL WORKS, Philadelphia and Allentown, Pa., Chicago, Ill., and New York, N. Y. Renewed August 14, 1943, to Bonney Forge & Tool Works, Allentown, Pa., a corporation of Pennsylvania.

171,972. **ASPRO.** PHARMACEUTICAL PREPARATION FOR THE RELIEF OF HEADACHE, NERVE PAINS, NEURALGIA, AND RHEUMATISM. Registered August 21, 1923. NICHOLAS PROPRIETARY LIMITED, Melbourne, Victoria, Australia. Renewed August 21, 1943, to Nicholas (Overseas) Marketing Company Proprietary Limited, South Melbourne, Victoria, Australia, an incorporated company of Victoria, Australia, assignee by mesne assignments.

172,092. **THE NORRISTOWN TIMES.** PERIODICAL PUBLICATION, PUBLISHED DAILY. Registered August 21, 1923. NORRISTOWN HERALD, INC., Norristown, Pa., a corporation of Pennsylvania. Renewed August 21, 1943.

172,207. **"POINSETTIA" AND DRAWING.** HOSIERY. Registered August 28, 1923. PHILLIPS & HART, Jacksonville, Fla. Renewed August 28, 1943, to Cordell Hosiery Corporation, Greensboro, N. C., a corporation of North Carolina, assignee by mesne assignments.

172,215. **ANTI-DARN.** HOSIERY. Registered August 28, 1923. MAY HOSIERY MILLS, Nashville, Tenn., a corporation of Tennessee. Renewed August 28, 1943.

172,227. **ANESTHONE.** ANAESTHETIC CREAM. Registered August 28, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed August 28, 1943.

172,228. **BOROL.** ANTISEPTIC MOUTH WASH AND GARGLE. Registered August 28, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed August 28, 1943.

172,229. **CHOLELITH.** PREPARATION FOR TREATMENT OF CHOLELITHIASIS AND ALLIED CONDITIONS. Registered August 28, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed August 28, 1943.

172,236. **NEBECO.** BEADS. Registered August 28, 1923. NELSON BEAD COMPANY, New York, N. Y., a firm. Renewed August 28, 1943.

172,242. **"ARIDOR" AND DRAWING.** JARS, CASES, AND OTHER RECEPTACLES FOR CERTAIN NAMED USES. Registred August 28, 1923. THE ARIDOR COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,264. **CLARIFILTER.** DRY CLEANSING SYSTEMS, INCLUDING THEREIN CERTAIN NAMED MACHINES AND APPLIANCES. Registered August 28, 1923. S. F. BOWSER & COMPANY, INCORPORATED, Fort Wayne, Ind., a corporation of Indiana. Renewed August 28, 1943.

172,312. **BROADWAY.** PLAYING CARDS. Registered August 28, 1923. RUSSELL PLAYING CARD Co., Milltown, N. J. Renewed August 28, 1943, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a corporation of Ohio, assignee.

172,349. **OZITE.** HAIR CARPET CUSHIONS AND HAIR SEAT CUSHIONS. Registered August 28, 1923. AMERICAN HAIR FELT Co. Renewed August 28, 1943, to American Hair & Felt Company, Chicago, Ill., a corporation of Delaware, assignee.

172,368. **DEKO.** DRY, READY-MIXED, AND PASTE PAINTS; PUTTY, LINSEED OIL, TURPENTINE, PAINT PIGMENTS, PAINT COLORS. Registered August 28, 1923. HARRY W. WEBSTER, doing business as Decorators Wall Paper Co., Toledo, Ohio. Renewed August 28, 1943, to Decorators Wall Paper Company, St. Louis, Mo., a corporation of Missouri, assignee.

172,370. **STYLE-A.** MATTRESSES. Registered August 28, 1923. THE STEARNS & FOSTER COMPANY, Lockland, Ohio., a corporation of Ohio. Renewed August 28, 1943.

172,588. **KROMEPATCH.** REFRACTORY CEMENTS. Registered September 11, 1923. E. J. LAVINO AND COMPANY, Philadelphia, Pa., a corporation of Delaware. Renewed September 11, 1943.

172,664. **NEPTO.** SKIN LOTION. Registered September 11, 1923. THE E. L. PATCH COMPANY, Stoneham, Mass., a corporation of Massachusetts. Renewed September 11, 1943.

172,666. **FI FI.** LIQUID AND POWDERED PERFUMES. Registered September 11, 1923. COLGATE & COMPANY. Renewed September 11, 1943, to Colgate-Palmolive-Peet, Jersey City, N. J., a corporation of Delaware, assignee.

172,667. **HEALTH BLUSH.** ROUGE. Registered September 11, 1923. COLGATE & COMPANY. Renewed September 11, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

172,807. **REPRESENTATION OF A WHITE YARN, THREAD, OR THE LIKE IN ROPE.** MANILA ROPE. Registered September 11, 1923. TUBBS CORDAGE COMPANY, San Francisco, Calif., a corporation of California. Renewed September 11, 1943.

172,809. **MINENA.** PERFUME AND CERTAIN OTHER TOILET PREPARATIONS. Registered September 11, 1923. HENRI RIGAUD, doing business as Rigaud, Paris, France, and New York, N. Y. Renewed September 11, 1943, to Etablissements Rigaud, Inc., New York, N. Y., a corporation of New York, by merger and change of name.

172,848. **ARTWOOL.** YARNS FOR KNITTING, CROCHETING, AND ART NEEDLEWORK. Registered September 11, 1923. BERNHARD ULMANN CO. INC., New York, N. Y., a corporation of New York. Renewed September 11, 1943.

172,849. **CALEDONIAN.** YARNS FOR KNITTING, CROCHETING, AND ART NEEDLEWORK. Registered September 11, 1923. BERNHARD ULMANN CO. INC., New York, N. Y., a corporation of New York. Renewed September 11, 1943.

172,851. **FANCHON.** FACE POWDER. Registered September 11, 1923. THE PALMOLIVE COMPANY, Milwaukee, Wis. Renewed September 11, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

172,871. **BILTMORE.** CANNED FISH, FRUIT, AND VEGETABLES. Registered September 11, 1923. A. F. KITTLE, doing business as A. F. Kittle & Co., Los Angeles, Calif. Renewed September 11, 1943, to Coast Fishing Company, Wilmington, Calif., a corporation of California, assignee by mesne assignments.

172,922. **UNIFILE INDEX.** PRINT, BOOK, COVER, BRISTOL, POST CARD, LEDGER, WRITING, BOND, AND ENVELOPE PAPERS. Registered September 11, 1923. J. W. BUTLER PAPER COMPANY. Renewed September 11, 1943, to Butler Paper Corporation, Chicago, Ill., a corporation of Illinois, assignee.

172,978. **TROPICAL.** FOOD FLAVORING EXTRACTS AND COFFEE. Registered September 11, 1923. C. A. MURDOCK MFG. Co., Kansas City, Mo. Renewed September 11, 1943, to Jewett & Sherman Co., Milwaukee, Wis., a corporation of Wisconsin, successor.

173,016. **B & M.** CERTAIN NAMED FISH PRODUCTS, CANNED GOODS, AND OTHER GROCERIES. Registered September 11, 1923. BURNHAM & MORRILL COMPANY, Portland, Maine, a corporation of Maine. Renewed September 11, 1943.

173,046. **SCILLAREN.** PHARMACEUTICAL PREPARATION, BEING A CARDIOTONIC AND DIOTONIC. Registered September 11, 1923. CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland. Renewed September 11, 1943, to Sandoz Chemical Works, Inc., New York, N. Y., a corporation of New York, assignee.

173,047. **GYNERGEN.** PHARMACEUTICAL PREPARATION, BEING A UTERPTONIC. Registered September 11, 1923. CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland. Renewed September 11, 1943, to Sandoz Chemical Works, Inc., New York, N. Y., a corporation of New York, assignee.

173,089. **GREY-BARON.** CANNED FRUIT AND VEGETABLES AND DRIED FRUIT. Registered September 18, 1923. BARRON-GRAY PACKING COMPANY, San Jose, Calif., a corporation of California. Renewed September 18, 1943.

173,091. **"SUPERIOR" AND DRAWING.** PORTLAND CEMENT. Registered September 18, 1923. NEBRASKA CEMENT COMPANY, Omaha, Nebr., and Denver, Colo. Renewed September 18, 1943, to Ideal Cement Company, Denver, Colo., a corporation of Colorado, assignee.

173,130. **TOYON.** CANNED FRUIT AND VEGETABLES AND DRIED FRUIT. Registered September 18, 1923. BARRON-GRAY PACKING COMPANY, San Jose, Calif., a corporation of California. Renewed September 18, 1943.

173,133. **SMILES.** CIGARETTES. Registered September 18, 1923. STEPHANO BROTHERS, Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 18, 1943.

173,212. **AGGREMETER.** HOLDING AND MEASURING APPARATUS FOR ACCURATELY PROPORTIONING STONE OR GRAVEL OR OTHER CONSTRUCTION MATERIALS FOR MAKING UP BATCHES. Registered September 18, 1923. ERIE STEEL CONSTRUCTION COMPANY, Erie, Pa., a corporation of Pennsylvania. Renewed September 18, 1943.

173,213. **BLUE RIBBON.** WOOLEN CLOTHS IN THE PIECE INTENDED FOR SUITING, ETC. Registered September 18, 1923. S. STEIN & Co., New York, N. Y., a firm. Renewed September 18, 1943.

173,222. **MERSOLAC.** POWDERED MILK. Registered September 18, 1923. MERRELL-SOULE COMPANY, Syracuse, N. Y. Renewed September 18, 1943, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

173,274. **RAINBOW.** ICE CREAM. Registered September 18, 1923. JOSEPH M. GRIES, Battle Mountain, Nev. Renewed September 18, 1943.

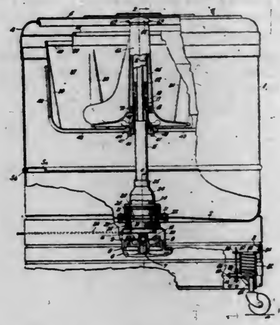
173,309. **WANDA.** LUBRICATING OILS AND GREASES. Registered September 18, 1923. CATO OIL AND GREASE Co., Oklahoma City, Okla., a corporation of Oklahoma. Renewed September 18, 1943.

REISSUES

MAY 4, 1943

22,307
WASHING MACHINE
George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York
Original No. 2,275,846, dated March 10, 1942, Serial No. 92,373, July 24, 1936. Application for reissue May 20, 1942, Serial No. 443,763
14 Claims. (Cl. 68—23)

1. In a washing machine having a tub, a rotatable receptacle in the tub for receiving liquid and material to be washed, means including a vertical sleeve extending upward from the bottom of the tub for supporting the receptacle, washing means in said tub, shaft means extending through said sleeve for operating said washing means and for rotating said receptacle to extract liquid from the material contained therein, means for resiliently supporting said sleeve for gyratory movement relative to the tub, said supporting means being sufficiently resilient so that the sleeve will tend to assume a tilted position during washing, and stabilizing



means engaging said sleeve for decreasing the tendency of said sleeve to tilt during washing.

PLANT PATENTS

GRANTED MAY 4, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

580
PEACH
Carl Burton Fox, Tulsa, Okla.
Application January 8, 1940, Serial No. 312,949
1 Claim. (Cl. 47—62)

A new and distinct variety of peach characterized as to novelty by the color and large size of the fruit, thickness, flavor and firmness of the flesh of the fruit which lacks the characteristic bitter tang of the flesh adjacent the stone of the parent plant, the small size of the seed deeply embedded in the flesh, and the excellent eating, shipping and canning qualities of the fruit, and particularly the novel brandy flavor of the fruit when cooked, as described.

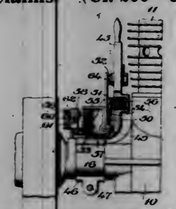
581
ROSE PLANT
Frederick Huber Howard, Montebello, Calif.
Application December 7, 1942, Serial No. 468,134
1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant herein shown and described, characterized particularly by its adaptability to garden growing; its strong growth; its resistance to mildew and blackspot; its strong, heavy stems; its long pointed bud; and its prolific production of large fragrant flowers of excellent loose form and distinctive Rose Red to Grenadine Pink color as indicated.

PATENTS

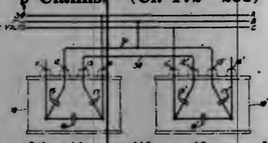
GRANTED MAY 4, 1943

2,317,969
TIMER FOR ELECTRICAL SYSTEMS
Thomas R. Arden, Danbury, Conn.
Original application June 12, 1939, Serial No. 278,772, now Patent No. 2,274,644, dated March 3, 1942. Divided and this application February 27, 1942, Serial No. 432,710
5 Claims. (Cl. 200—30)



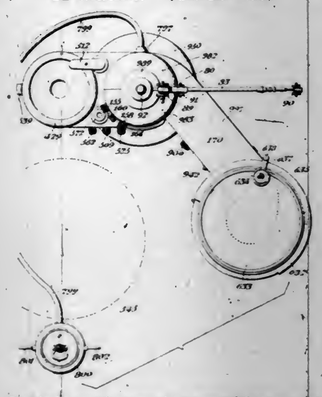
3. In an ignition system, a fixed contact, a cooperating movable contact in front of said fixed contact, a carrier for said movable contact rearwardly swingable to engage said movable contact with said fixed contact and forwardly swingable to separate said movable contact from said fixed contact, a rockable hammer member including a pair of arms, one of said arms being disposed behind said carrier, spring means between the other of said arms and said carrier tending constantly to swing said carrier rearwardly against said first mentioned arm, other spring means tending constantly to rock said hammer member in a direction to swing the first mentioned arm thereof and said carrier forwardly to separate said movable contact from said fixed contact, and cam means operable to rock said hammer member in the opposite direction to cause said first mentioned arm to swing said carrier rearwardly until the movable contact thereof engages said fixed contact and then to swing said first mentioned arm into spaced relationship to said carrier following engagement of said movable contact with said fixed contact and then quickly to release said hammer member, thereby to permit said second mentioned spring means to act to rock said hammer member to cause the first mentioned arm thereof to strike said carrier a hammer blow in a forward direction and thus cause quick separation of said movable contact from said fixed contact.

2,317,970
CAPACITOR CONSTRUCTION AND CIRCUIT ARRANGEMENT FOR POLYPHASE CIRCUITS
Max I. Alimansky, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application February 13, 1940. Serial No. 318,723
9 Claims. (Cl. 172—238)



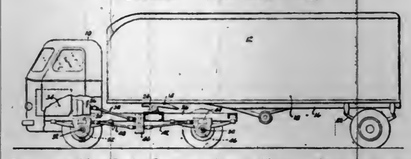
1. In combination with a three-phase alternating current circuit, a capacitor unit having three electric capacitance sections and four terminals for connection of said sections in said circuit; one of said terminals being common to one pole of one of said sections and one pole of a second of said sections, a second of said terminals being common to the other pole of said second section and one pole of the third of said sections, the remaining two of said terminals being connected respectively with the remaining pole of said one section and with the remaining pole of said third section; and means, employing at least three of said terminals, connecting all of said sections for supplying capacitance to said three-phase circuit.

2,317,971
DENTAL EQUIPMENT STAND
Robert C. Angell, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application April 5, 1939, Serial No. 266,174
44 Claims. (Cl. 32—22)



1. A dental equipment assemblage comprising a plurality of frame sections having flanges and being mounted one upon the other about a common axis, and a casing therefor formed of sections of sheet material having means arranged to engage said flanges for securing them together and also having means cooperative with said flanges for axially locating the casing section on the frame sections.

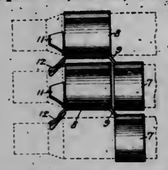
2,317,972
AUTOMOTIVE VEHICLE
Charles S. Ash, Milford, Mich.
Application July 20, 1939, Serial No. 285,485
In Great Britain November 10, 1938
1 Claim. (Cl. 180—14)



An articulated, automotive tractor-semi-trailer road vehicle including a wheeled tractor

and a wheeled semi-trailer, the tractor being provided with front and rear dual wheels at each side thereof, some of the wheels being dirigibly mounted, a motor on the tractor carried largely in front of the front wheels and connected to drive the front and rear wheels of the tractor, the semi-trailer having dual wheels near its rear end and a pivotal fifth-wheel connection near its front end between the tractor and semi-trailer for pulling and supporting the front end of the semi-trailer, the semi-trailer having a load receiving portion extending from rear to front, said load receiving portion being of substantially uniform height and cross-section throughout its length and extending at the front well in advance of said fifth-wheel connection and of the rear wheels of said tractor, said fifth-wheel connection being positioned rearwardly of the front end of said semi-trailer a distance greater than the distance the rear wheels of said semi-trailer are disposed forwardly from the rear end of said semi-trailer, said fifth-wheel connection also being disposed between the front and rear wheels of said tractor, but nearer to the rear wheels than to the front wheels thereof, the wheels, motor and pivotal fifth-wheel connection being thereby so positioned and arranged that all of the wheels may be substantially equally loaded when the trailer is carrying its normal load.

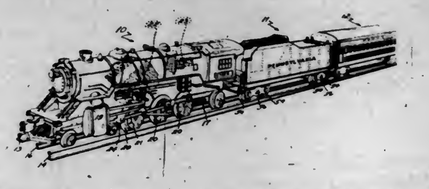
2,317,973
CARTRIDGE BELT
Charles E. Balleisen, Philadelphia, Pa.
Application October 6, 1941, Serial No. 413,818
5 Claims. (Cl. 89—35)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A cartridge belt link comprising an open ring, a second open ring, a connecting strip formed integrally with said rings and joining said rings in offset relation with their axes in parallel relation, a tongue integral with said second ring, said tongue being adapted to engage the shoulder formed by the neck of a cartridge case embraced by said second ring, and a finger integral with said second ring, said finger being adapted to engage the shoulder formed by the neck of a cartridge case embraced by said first mentioned ring.

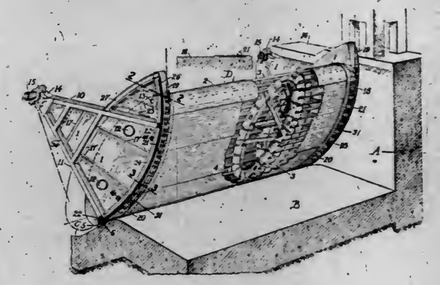
2,317,974
PSEUDO STEAM PUFFING APPARATUS FOR TOY TRAINS
Otto Bastiansen, Woodhaven, N. Y., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application November 23, 1940, Serial No. 366,892
27 Claims. (Cl. 46—113)

1. Pseudo steam puffing apparatus for an electrically driven toy locomotive fashioned in imitation of a real steam locomotive, embodying in combination with said locomotive and an electric tractional motor carried thereby, hollow toy rolling stock coupled in a train and hauled by said locomotive, mechanically reciprocative apparatus substantially concealed within said rolling stock adapted to produce intermittent puffing sounds imitative of the sounds produced by exhaust steam successively discharged from the power cylinder of a real locomotive, a variable speed electric motor in said rolling stock arranged to operate said apparatus, a course of toy railroad track, and means including said track for delivering electric current simultaneously at selec-



tively variable voltages to both of said motors, whereby during the travel of said locomotive and rolling stock at equal speed the frequency of said intermittent puffing sounds will be determined by the operation of said variable speed motor independently of said speed of locomotive travel.

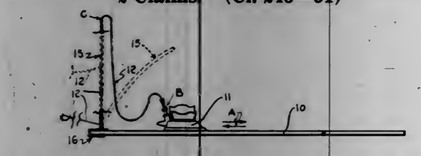
2,317,975
HYDRAULIC GATE CONSTRUCTION
Howard E. Boath and Charles F. MacNish, St. Louis, Mo., and Harry Cole, Memphis, Tenn.
Application March 10, 1939, Serial No. 261,026
2 Claims. (Cl. 61—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a sluice construction of the character described, the combination with parallel retaining walls spaced to define a sluiceway, the opposing surfaces of said walls being provided with sealing plates, an apron between said walls and forming a flooring for the sluiceway, and a sill seated in and arranged transversely of said apron; of a sluice gate of the closed shell type mounted for swinging movement between said retaining walls, means in connection with said gate for imparting thereto the resistance to bending and compression stresses afforded by a solid beam, said means including a metallic open ended shell elliptical in cross-section, a series of transverse elliptical frames arranged interior of the shell at predetermined intervals lengthwise thereof, a series of longitudinally extending stringers affixed to the inner surface of the shell and the peripheries of said frames, end shields attached to the extremities of said stringers and closing the open ends of said shell whereby the concentrated load adsorbed by the shell will be transmitted to said end shields, said end shields projecting sufficiently above the shell to form opposing training walls whereby the flow of water above the gate will be confined to its shell portion, sealing means attached to the lower portion of said sluice gate and arranged to coact

with said sill whereby the gate may be lowered below the normal sealing position of the sill to meet low headwater conditions without disrupting the seal between the sluice gate and said apron, and end projections positioned at the extremities of said gate immediately adjacent said end shields, each of said projections including a chain track forming an extension of the upstream surface of the shell portion of said gate, and a sealing member for sliding contact with the sealing plates on the opposing surface of said training walls.

2,317,976
IRONING CORD HOLDER
Thomas G. Boman, Grand Rapids, Mich.
Application December 18, 1941, Serial No. 423,511
2 Claims. (Cl. 248—51)



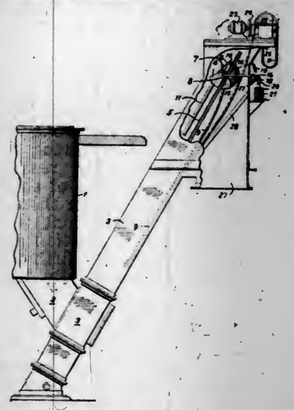
2. An ironing cord holder comprising, a base portion adapted to be slid onto an ironing board, a stem attached to the base portion, said stem comprising a wire coiled to form an elongated stem, the coiling extending downwardly from the top of the stem for substantially the full length thereof, the inner diameter of the stem being large enough to receive the usual heater cord and the spacing of the several loops of the coil being close enough together to frictionally grip the heater cord when it is turned laterally from the inner diameter of the stem to pass between the said loops, thus preventing sliding movement of the cord through the stem.

2,317,977
LUMINESCENT COATING FOR ELECTRIC LAMPS
Ezio Thomas Caselini, Salem, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
No Drawing. Application November 24, 1939, Serial No. 305,939
1 Claim. (Cl. 117—97)

The method of coating with a luminescent material the interior of a long tubular discharge lamp envelope, said method comprising: placing said lamp envelope in a vertical position; flushing into said envelope a suspension of luminescent material in a vehicle comprising a quick-drying solvent and a quantity of low viscosity nitrocellulose; draining said suspention quickly from said tube; retarding the initial drying of the tube by placing a baffle over the top of the tube; and then drying the tube very quickly.

2,317,978
CONVEYER APPARATUS
Edwin Cowles, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J., a corporation of New Jersey
Application December 4, 1941, Serial No. 421,594
6 Claims. (Cl. 214—103)

1. Apparatus of the character described, comprising, in combination, a chute, rails mounted on the interior of said chute, a bucket, trunnions mounted on said bucket adapted to ride on said rails, a latch near the upper end of said rails and adapted to engage said trunnions and support said bucket, said bucket being unbalanced so that when supported by said trunnions on said



latch, said bucket tends to rotate to discharge its contents.

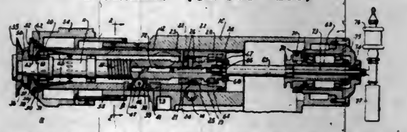
2,317,979
MANGANESE-BASE ALLOY
Reginald S. Dean and Clarence T. Anderson, Salt Lake City, Utah, assignors to Chicago Development Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application May 14, 1941, Serial No. 393,371
10 Claims. (Cl. 75—134)

1. An alloy having a high coefficient of linear expansion, said alloy consisting essentially of manganese, nickel and zinc, the manganese constituting from 50% to 85%, the nickel from 2% to 30%, balance substantially all zinc, the zinc constituting at least 10% of the alloy.

2,317,980
MAGNESIUM-BASE ALLOY
Reginald S. Dean and Clarence T. Anderson, Salt Lake City, Utah, assignors to Chicago Development Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 1, 1941, Serial No. 413,159
3 Claims. (Cl. 75—168)

1. Magnesium-base alloys containing from about 1% to about 10% lithium, from about 2% to about 10% manganese, balance substantially all magnesium.

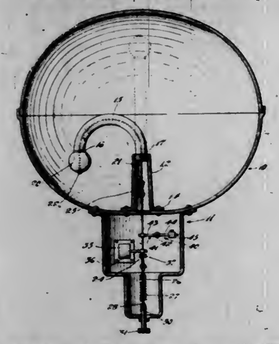
2,317,981
SPINDLE CONSTRUCTION
Gerard A. De Vlieg, Rockford, Ill.
Application December 6, 1937, Serial No. 178,434
5 Claims. (Cl. 308—135)



1. In a device of the character described, the combination of a spindle, a support for said spindle including means for limiting the endwise movement thereof, and frictionally loaded means driven by said spindle and arranged to set up

by its driven movement a thrust force on said spindle effective to urge the spindle toward one limit of its endwise movement.

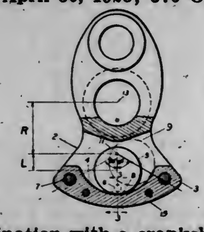
2,317,982
INERTIA ACTUATED DEVICE
Walter S. Diehl, Washington, D. C., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application April 18, 1941, Serial No. 389,206
12 Claims. (Cl. 264—1)



1. In a device of the class described, the combination of a support, a weighted member, normally stationary flexible sling means for supporting said weight member at one end and mounted on its other end on said support, a cable extending lengthwise along said sling means and attached to said member, and means adapted to be actuated by said cable; said member, in response to inertia, being adapted to pull said cable and cause said cable to actuate said last means.

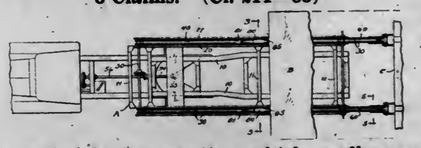
2. In a device of the class described, the combination of a weighted member, swingable means for supporting said member including a cable attached to said member, means adapted to be actuated by said cable, said member, in response to inertia being adapted to pull said cable and cause said cable to actuate said last means, and a counterbalancing device operatively associated with said cable for determining the pull on said cable required to actuate said last means.

2,317,983
TORSIONAL VIBRATION DAMPENER
William L. Fischer, Philadelphia, Pa.
Application May 9, 1940, Serial No. 334,223
7 Claims. (Cl. 74—604)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



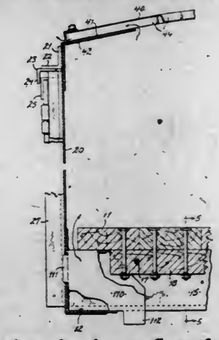
1. In combination with a crankshaft, two parallel flanges protruding from a crankcheek in a direction substantially opposite to the crankpin and in a plane perpendicular to the axis of rotation of said crankshaft and defining a radial slot therebetween, the outer surfaces of the flanges being in the same planes as the outer surfaces of the crankcheek a rigid insert held rigidly within said radial slot between said two flanges, a concave raceway arc extending longitudinally on said insert, and a cylindrical wafer roller free to move along the concavity on said raceway arc between said two flanges.

2,317,984
APPARATUS FOR TRANSFERRING FREIGHT
Benjamin F. Fitch, Greenwich, Conn., assignor, by mesne assignments, to National Fitch Corporation, New York, N. Y., a corporation of Delware
Application March 12, 1940, Serial No. 323,557
8 Claims. (Cl. 214—83)



1. A freight transporting vehicle, endless propelling chains thereon carrying rollers, means extending lengthwise of each chain beneath an upper reach thereof engaged by the rollers for supporting the chain, a container adapted to be supported by such upper reaches of the chains and moved substantially horizontally by the movement of the chains, and means adapted for attachment to the chain and to the container for moving the container in either direction when it is not over the chain.

2,317,985
DEMOUNTABLE FREIGHT CONTAINER
Benjamin F. Fitch, Greenwich, Conn., and Ragnar A. Norbom, New York, N. Y., assignors to National Fitch Corporation, New York, N. Y., a corporation of Delaware
Original application October 13, 1939, Serial No. 299,328. Divided and this application August 2, 1940, Serial No. 349,699
3 Claims. (Cl. 98—6)



1. A container having a floor frame, side and end walls secured thereto, flooring within the container supported by the floor frame and spaced at its edges from the side walls to provide ventilation space, corrugated roofing with its ridges and valleys arranged transversely, said roofing being secured to the end walls and side walls of the container and providing a ventilation space from the interior discharging adjacent the eaves of the container, and an angle bar secured to the top of the corrugated roofing adjacent the end and extending downwardly be-

yond the edge and spaced above the side walls to form a protection for the roof and a controller for the ventilation.

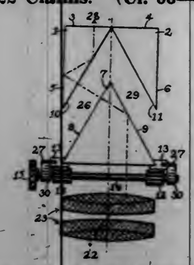
2,317,986
COMPOSITION OF MATTER
Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical Dye Corporation, a corporation of New York
No Drawing. Application July 8, 1940, Serial No. 344,379
15 Claims. (Cl. 260—505)

1. A mixture of substituted mononuclear aryl sulfonates which contain as nuclear substituents aliphatic and alicyclic hydrocarbon radicals derived from a liquid fraction of petroleum of which at least 80 per cent boils within the range from 195° to 295° C. at 15 mm. pressure.

2,317,987
CATHETER
Vincent J. Flynn, Palisades Park, N. J., assignor to Wardlyn Corporation, Ridgefield, N. J., a corporation of New Jersey
No Drawing. Application March 19, 1942, Serial No. 435,295
6 Claims. (Cl. 128—349)

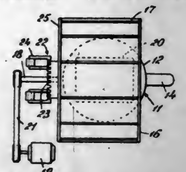
1. A surgical device comprising a relatively long cylindrical member of small external diameter formed from a thermoplastic mass so as to be externally smooth, continuous, non-porous and highly flexible but having sufficient inherent tensile strength and longitudinal rigidity to permit insertion by itself into and through long, narrow and tortuous bodily passages, and being characterized by an elasticity giving a high recovery factor, a substantial proportion of said mass comprising a co-polymer of vinyl resins.

2,317,988
REVERSIBLE OPTICAL SYSTEM
Carl F. W. Forssberg, Brooklyn, N. Y.
Application November 22, 1940, Serial No. 366,790
22 Claims. (Cl. 88—1)



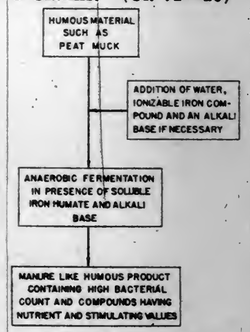
1. In a reversible optical system having a central axis, prism means including a plurality of triangular prisms of transparent material symmetrically arranged as a group with respect to said axis, each prism having a base portion capable of passing light and a side capable of reflecting light toward or from said base, and substantially plane reflecting means in said optical system movable in a plane coinciding with said axis from one position in said plane in which said reflecting means intercepts the optical field to another position in said plane so as to allow the light from prism means on one side of said axis to cross the axis and enter prism means on the other side of said axis in said system, said plane reflecting means when intercepting the optical field causing the light transmitted through the system upon one side of the axis to be reflected back from said reflecting means and axis into prism means upon the same side of the axis and be retained upon and within said same side of the axis throughout its entire path of travel in said optical system.

2,317,989
TELEVISION
Peter C. Goldmark, New York, N. Y., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York
Application February 24, 1941, Serial No. 380,144
7 Claims. (Cl. 178—5.2)



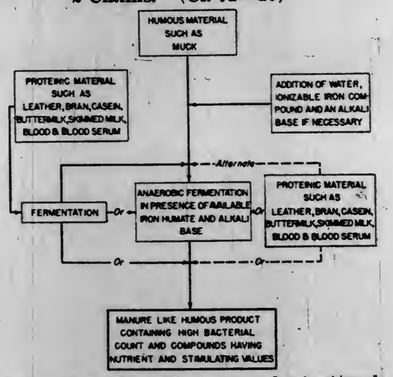
1. In color television, apparatus which comprises an electronic scanning device comprising an envelope having a bulbous portion and an elongated neck extending therefrom, a two-dimensional scanning area positioned within said bulbous portion with the normal thereto at a substantial angle with respect to said neck, an electron gun structure within said neck, and a rotatable filter drum having a plurality of filter segments arranged around the peripheral surface thereof, said drum encircling said bulbous portion and being positioned so that as the drum rotates said filter segments successively traverse said scanning area, said elongated neck extending beyond the boundaries of said drum.

2,317,990
PROCESS OF TREATING HUMOUS MATERIAL AND RESULTING PRODUCTS
Ernest F. Grether, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application May 10, 1939, Serial No. 272,896
5 Claims. (Cl. 71—10)



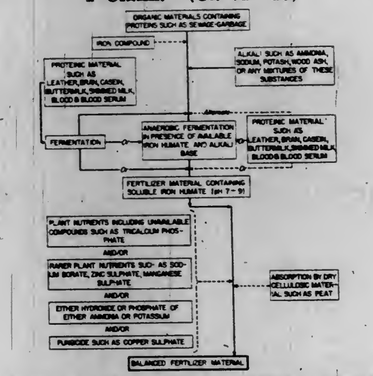
1. A process of producing a plant stimulant, plant nutrients, and an increased bacterial count within a humous material comprising subjecting a humous material, having a moisture content of at least 70 percent by weight of the dry content of the original starting material, to fermentation under substantially anaerobic conditions in the presence of an added quantity of a soluble iron compound and a sufficient quantity of an alkali base to cause the mixture to have a pH value of at least 7.

2,317,991
PROMOTER, METHOD, AND PRODUCT
Ernest F. Grether, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application March 18, 1940, Serial No. 324,698
2 Claims. (Cl. 71—10)



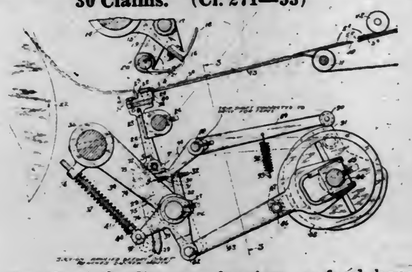
1. A process of producing a plant stimulant, plant nutrients, and an increased bacterial count within a humous material, comprising adding an iron compound to a humous material containing a moisture content of at least 70 percent, adding a sufficient quantity of an alkali base selected from the class consisting of the hydroxides and carbonates of potassium, sodium and ammonia to the said material to dissolve the iron compound and cause the mixture to have a pH value above 7, adding a sufficient quantity of a proteinic material to form from 1 to 10 percent by weight of the total mixture, and subjecting the resulting mixture to fermentation under substantially anaerobic conditions within a temperature range of from 15–30° C.

2,317,992
TREATMENT OF ORGANIC MATERIAL AND RESULTING PRODUCT
Ernest F. Grether, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application April 10, 1940, Serial No. 328,988
1 Claim. (Cl. 71—10)



A method of treating proteinic material to produce a plant stimulant, plant nutrients and to cause an increase in the bacterial count within the mass, which comprises subjecting proteinic material to fermentation under substantially anaerobic conditions at temperatures between 15° and 40° C. in the presence of a water-soluble iron compound, an alkali base in amount sufficient to give the mixture a pH value between 7 and 9 and sufficient water to form a paste of the mixture.
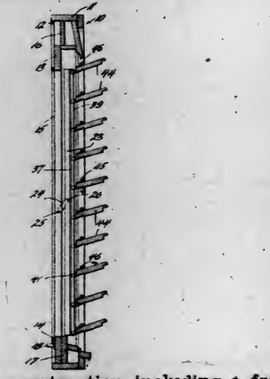
2,317,993
SHEET FEEDER
Charles W. Harrold, University Heights, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware
Application March 15, 1941, Serial No. 383,576
30 Claims. (Cl. 271—53)



1. In sheet feeding mechanism, a feed board adapted to support a sheet, a sucker adjacent the front end of said feed board adapted to act upon the front portion of a sheet for slowing it down, means for advancing a sheet along said feed board to carry its front edge across the mouth of said sucker while suction is maintained therein to thereby close the sucker and cause the same to act upon the sheet, and means for cutting off suction thereafter to permit registration of the sheet.

21. The method of slowing down a moving sheet comprising the step of applying to the surface of the sheet a gradually increasing frictional force opposing the movement of the sheet, the application of said force being controlled in accordance with the position of a transverse edge of said moving sheet.

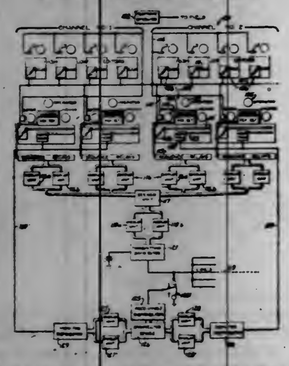
2,317,994
LOUVER CONSTRUCTION
Van E. Huff, Miami, Fla., assignor of one-half to Charles F. Miller, Miami, Fla.
Application July 20, 1942, Serial No. 451,616
10 Claims. (Cl. 160—103)



1. In a louver construction including a frame provided with pivoted slats, a screen member mounted on said frame for reciprocating movement relative thereto, and means to connect said screen member and said slats so that reciproca-

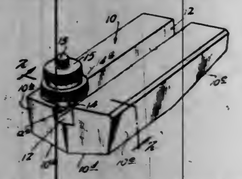
tion of said screen member in one direction will open said slats and movement in the other direction will close said slats.

2,317,995
SELECTIVE SIGNALING SYSTEM AND APPARATUS
Howard L. Krum, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application January 22, 1931, Serial No. 510,536
76 Claims. (Cl. 178—4)



53. In a telegraph system, a plurality of transmitters, a single set of transmitting contacts operable in cycles, a sequencing device having means individual to each of said transmitters for operatively and invariably associating one of said transmitters with said contacts during each cycle of operation thereof and selective means for varying the number of transmitters operable in turn over said contacts.

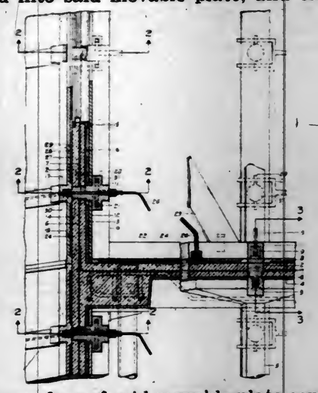
2,317,996
LATHE TOOL GRINDING FIXTURE
William R. Landy, Minneapolis, Minn.
Application August 27, 1941, Serial No. 408,461
6 Claims. (Cl. 51—218)



1. A grinding fixture of the kind described in the form of a block provided with a longitudinally extended tool-holding surface, said block having a bottom supporting surface which, in transverse section, is at an acute angle to said tool-holding surface, and in longitudinal section, is parallel to said tool-holding surface, said block, at its rear portion, having a tail end supporting surface which, in longitudinal section, is at an acute angle to said tool-holding surface and, in transverse section, is parallel to said tool-holding surface, said block having means for clamping the cutting tool against said tool-holding surface.

2,317,997
FORM FOR CONCRETE WALLS, FLOORS, OR THE LIKE
Morris Lapidus, Cleveland, Ohio
Application October 4, 1938, Serial No. 233,249
6 Claims. (Cl. 25—131)

1. A form for concrete walls and the like comprising a fixed plate, a plate movable theretoward, tubular bolting means connecting said plates and threaded into said movable plate, and channels



on the inner face of said movable plate communicating with the interior of said tubular bolting means.

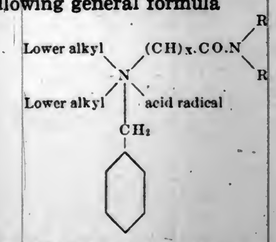
2,317,998
CONICAL CAP FOR COLLAPSIBLE TUBES
Gaston L. Lateur, San Francisco, Calif.
Application February 23, 1939, Serial No. 257,908
1 Claim. (Cl. 221—60)



A collapsible tube having a conical end with a central opening, a conical closure member disposed on the inner surface of the conical end and having a knob projecting through the opening, a ring secured to the knob and riding on the edge of the central opening for holding the closure in place, said conical end and closure having openings adapted to be brought into registration with each other, a handle extending from the ring and overlying the conical end, and means for limiting the rotative movement of the closure.

2,317,999
QUATERNARY AMMONIUM COMPOUNDS
Friedrich Leuchs, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application May 28, 1940, Serial No. 337,579. In Germany May 11, 1939
9 Claims. (Cl. 260—561)

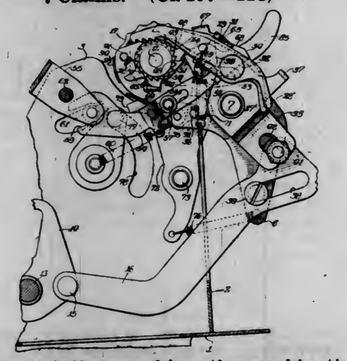
1. Water-soluble quaternary ammonium salts of the following general formula



wherein X stands for the integer 1 or 2 at least one R stands for a higher molecular aliphatic hydrocarbon radical, the other R standing for

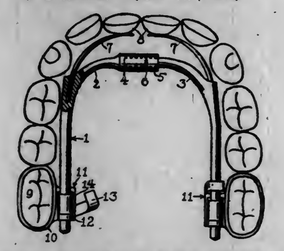
hydrogen and the aromatic nucleus of the benzyl group being substituted by at least one substituent of the group consisting of alkyl, alkoxy, halogen and nitro.

2,318,000
PLATEN MECHANISM
Erhard M. Lippert, Chicago, Ill., assignor to Victor Adding Machine Company, Chicago, Ill., a corporation of Illinois
Application March 14, 1941, Serial No. 383,259
7 Claims. (Cl. 197—114)



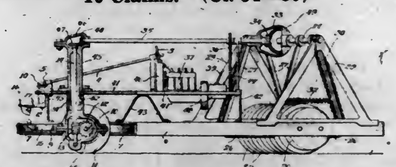
1. In a printing machine, the combination of a main operator, a rockable platen frame pivotally supported on the machine, a platen rotatably carried by said frame, a pair of oppositely toothed ratchet wheels integral with said platen, pawl supporting means pivoted coaxially with said platen frame, a pair of pawls pivotally carried on said means, and means actuated by the main operator during the initial part of the forward stroke thereof for actuating one of said pawls to reversely rotate said platen, the other pawl being operative to advance the platen during the return stroke.

2,318,001
ORTHODONTIC APPLIANCE DEVICE
John A. Linde, Brooklyn, N. Y.
Application July 30, 1941, Serial No. 404,667
7 Claims. (Cl. 32—14)



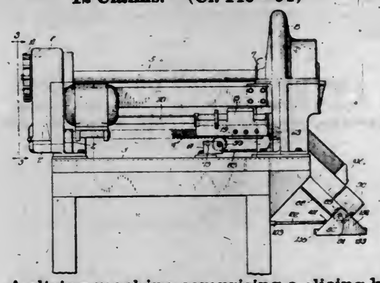
1. An orthodontic arch wire consisting of two arcuate wire members of which one has a hollow socket at one end for receiving the end of the other wire member, part of said socket being split along one side and said part being partly cut through transversely from both sides of said split portion so as to relieve the latter and form two free resilient clamping portions capable of resiliently enveloping the end of the wire inserted into said socket, the latter having the bore therein extending beyond the split portion further into said socket.

2,318,002
ANGLE DISK ROLLER
Wallace C. MacGregor, Chicago, Ill.
Application March 3, 1941, Serial No. 381,519
10 Claims. (Cl. 94—50)



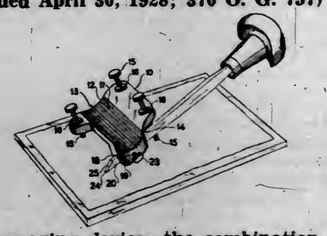
1. An angle-drive road roller having a frame, a plurality of rollers mounted in parallel planes lengthwise of the frame and upon a common axis obliquely transverse of the frame, and common driving means separately engaging the outer edges of the rollers to rotate them.

2,318,003
BACON SLICER
William Mahler, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application December 11, 1939, Serial No. 308,510
12 Claims. (Cl. 146—94)



1. A slicing machine comprising a slicing knife, means for operating said slicing knife, means for feeding substance to said slicing knife to be sliced thereby, a feed gearing for operating said feeding means, a trough mounted adjacent the knife for receiving slices as they are cut, an abutment slidably mounted in said trough for supporting said slices, a drive shaft driven by said feed gearing, a driven shaft driven by said drive shaft, means for selectively driving said driven shaft at various speeds from said drive shaft, and means operated by said driven shaft for moving said abutment in said trough in timed relationship with the movement of the feed means.

2,318,004
GRAVER HOLDER
William Marsheck, Baltimore, Md.
Application November 12, 1940, Serial No. 365,273
3 Claims. (Cl. 90—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In engraving devices the combination of a

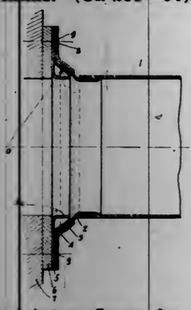
support, means for universally adjusting the angular relationship of the support and for adjustably elevating the support with respect to a predetermined surface, and means for securing an engraving instrument to said support and adapted to be angularly adjustable thereon.

2,318,005
FIRE ALARM GONG APPARATUS
James M. McGuinness, Worcester, Mass.
Application October 21, 1941, Serial No. 415,925
4 Claims. (Cl. 177—311)



1. In a device of the class described, the combination of a gong having a normally visible side surface with a support for said gong, circuit closing means housed in said support, a fusible plug arranged to normally maintain said circuit closing means in open position, and means for sounding the gong upon melting of the plug and consequent closing of the circuit, said support extending through the gong, and said plug being mounted in the support so as to be visible at said surface.

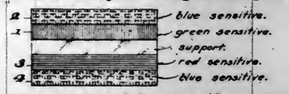
2,318,006
LABYRINTH JOINT OR COUPLING
Pierre Ernest Mercier, Westport, Conn.
Application December 24, 1941, Serial No. 424,219
6 Claims. (Cl. 285—90)



1. A labyrinth joint or flange for connecting a pipe to another member, comprising a collar having one end integrally secured to an extremity of the pipe and having the other end flared outwardly to form an arcuate annulus, and a pair of members spaced apart from each other at one of their ends to receive said annulus between them, said spaced members being curved at slightly different angles to one another so as to grip said annulus resiliently, said members having their opposite ends integrally connected together, and a support rigidly secured to the integrally connected ends of said members, and having a cylindrical flange extending towards the extremity of said pipe.

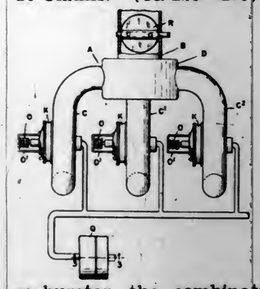
2,318,007
LIGHT-SENSITIVE MATERIAL
Walter Michaelis, Brussels-Forest, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated, a corporation of Nevada
Application January 8, 1940, Serial No. 312,983
In Great Britain January 10, 1939
5 Claims. (Cl. 95—2)

1. A light sensitive material for color photography comprising a transparent support and four superposed light sensitive silver halide layers dyed with dyes which are resistant to ordinary photographic treating solutions but capable of being bleached with the aid of a metallic silver image, two of said emulsion layers being sensitive to blue light and colored yellow, the third being colored magenta and sensitive to green light, the fourth being colored blue-green and sensitive to red light, said magenta colored layer and said blue-green colored layer being arranged between



said two yellow colored layers, the arrangement and coloring of the layers forming said material being such that the layers superposed with respect to said magenta colored layer and said blue-green colored layer are transmittant for both freen and red light introduced from either side of said material, and the dyes in said magenta colored layer and said blue-green colored layer being sufficient in concentration for natural reproduction of a multicolor image when taken together with the dye in said two yellow colored layers.

2,318,008
CARBURETOR FOR MULTICYLINDER INTERNAL COMBUSTION ENGINES
Thomas A. Morris, Detroit, Mich., assignor to National Devices Corporation, Detroit, Mich.
Application December 23, 1940, Serial No. 371,420
10 Claims. (Cl. 123—119)



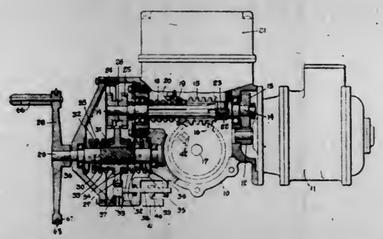
1. In a carburetor, the combination with a Venturi conduit having a fuel injection port in the constricted portion thereof, of metering means for the fuel passing through said port completely closing the port in one position, and a flexible diaphragm operatively connected with said metering means responsive to variations in pressure within said Venturi conduit to progressively restrict said port by decrease in pressure in the venturi and to completely close the port when the pressure within the venturi is equal to atmosphere.

2,318,009
VARNISH OIL
Izador J. Novak, Trumbull, Conn., assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn., a corporation of New Jersey
No Drawing. Application September 19, 1941, Serial No. 411,491
13 Claims. (Cl. 260—407)

1. A process for producing a relatively pale, amber colored, heat bodied, air blown varnish oil further characterized by being quick drying, of high waterproofness, tough film formation, good adherability to metals, and suitable for use in the formulation of pale varnishes and white enamels, which comprises subjecting a drying oil of the non-conjugated type to filtration through absorptive earth, prior to or without appreciable chemical treatment thereof, to reduce its ash content to about .01% to .001% by weight thereof, thereafter subjecting it to controlled low temperature air blowing to form an oil of conjugated system fluid at 25° C., and heating said conjugated oil at a temperature of from about 500° F. to about 600° F., to form a varnish oil of desired finished viscosity.

2. As a new product, an oil of the China-wood oil type comprising a blown drying oil of the linseed oil type, said blown oil being insoluble in alcohol and soluble in petroleum solvents having an ash content of less than .01% and characterized by substantial absence of frothing and development of red color on heating above 250° F.

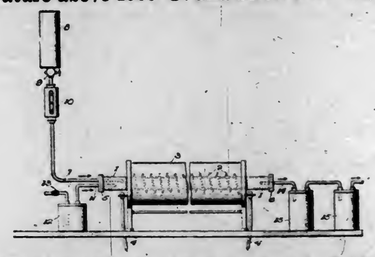
2,318,010
VALVE CONTROL
Erwin J. Panish, Bridgeport, Conn., assignor to Philadelphia Gear Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application April 9, 1940, Serial No. 328,645
3 Claims. (Cl. 74—407)



1. In a valve control having motor-operated valve-actuating mechanism including a valve driving shaft; a gear on said shaft; a handwheel; a gear driven by said handwheel and normally out of mesh with said gear on the driving shaft; a drum operated by the handwheel and carrying said hand-driven gear; a yielding driving connection between the handwheel and said drum adapted upon initial operation of said drum to arcuately move the hand-driven gear carried thereby into engagement with the gear on the driving shaft; means for limiting the movement of said drum when said gears are in mesh so that the operation of the handwheel will cause the said gears to operate and move the valve; and a spring placed under tension when the drum is rotated to cause said gears to mesh and acting to cause reverse rotation of said drum and unmeshing of the gears when manually applied torque is removed from the handwheel.

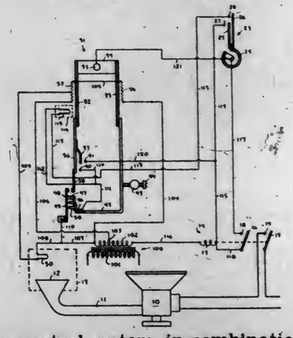
2,318,011
CEMENTATION PROCESS OF TREATING METAL
James A. Parsons, Jr., and Earl Ryder, Dayton, Ohio, assignors to The Duriron Company, Inc., Dayton, Ohio, a corporation of New York
Application May 10, 1940, Serial No. 334,442
12 Claims. (Cl. 148—14)

1. The process of cementing a ferrous metal article with silicon which comprises subjecting such an article to the action of a suitable cementing agent comprising available silicon, at a temperature above 1500° F. and below 2000° F., while



maintaining the article in a magnetic field whose magnetizing force, H, is not less than 65.

2,318,012
STOKER CONTROL
Bertram P. Pond, River Forest, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 16, 1940, Serial No. 361,427
14 Claims. (Cl. 236—9)

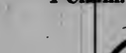


9. In a control system, in combination, a combustion chamber, an automatic stoker for feeding fuel to the chamber, control means comprising a thermal relay for controlling the stoker, means comprising a temperature responsive resistance element exposed to heat in the combustion chamber, the resistance of said element varying as its temperature varies, said element being associated with said relay to control its operation, said thermal relay and said element being so related as to start said stoker when the temperature in the combustion chamber is relatively low, and means controlled by said thermal relay and controlling its operation so as to cause the thermal relay to stop the stoker after it has been started sooner than it would normally be stopped in response to the resistance element, said last means comprising a device for varying the heating of the thermal relay.

2,318,013
LUBRICATING COMPOSITION
Carl F. Prutton, Cleveland Heights, and Albert K. Smith, Shaker Heights, Ohio, assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application November 12, 1940, Serial No. 365,224
7 Claims. (Cl. 252—54)

3. A lubricating composition comprising a major proportion of a suitable oil base and a minor proportion of an oxygen and halogen bear-

ing organic ring compound containing the carbonyl



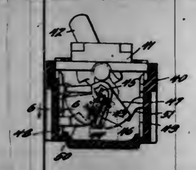
radical.

2,318,014
METHOD OF MAKING SHOES
Max I. Rovick, Chicago, Ill.
Application October 26, 1939, Serial No. 301,366
1 Claim. (Cl. 12—142)



The method of making a shoe which comprises providing an inner sole having an edge of reduced thickness extending along the opposite sides of the inner sole from the shank portion to the toe portion but terminating short of the toe portion and each reduced edge being adapted to be folded upon itself, positioning the edge of a shoe upper along the edge of the inner sole and positioning a welt at an edge of the shoe upper but with the edge of the shoe upper located outwardly of the adjacent edge of the welt, securing the shoe upper, the welt and the inner sole together by a single continuous line of stitching through the welt, the shoe upper and the reduced edges on opposite sides of the inner sole whereby the toe end of the inner sole is not stitched to the shoe upper, folding the reduced edges of the inner sole beneath the bottom surface of the inner sole and lasting the partially formed shoe and bringing the inner edge of the welt towards the adjacent edge of the shoe upper, and then securing an outsole to the welt.

2,318,015
ELECTRIC SWITCH
Mark N. Russell and Saul Keilien, Syracuse, N. Y., assignors to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Application March 30, 1940, Serial No. 327,002
8 Claims. (Cl. 200—67)



1. In an electric switch of the snap type, in combination, a rigid, tapered edge, stationary contact, a movable contact for straddle cooperation therewith, a snap mechanism having an oscillatable part so associated with the second contact as to move the same toward or from the stationary contact, the second contact being free to move laterally in respect to the said part during snap movement, said movable contact comprising a pair of spring arms having tips for engagement with the stationary contact, said arms being so shaped and attached to each other that the tips engage each other for mutual preloading of the natural spring of the arms to damp vibrations, and means to guide said tips to the stationary contact.

2,318,016
POLISHING DISK
Carl F. Schlegel, Brighton, N. Y., assignor to The Schlegel Manufacturing Company, Rochester, N. Y., a corporation of New York
Original application April 11, 1939, Serial No. 267,269. Divided and this application January 9, 1941, Serial No. 373,815
7 Claims. (Cl. 15—230)



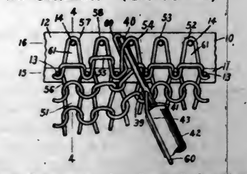
7. A flexible polishing disk comprising a flexible core having a central opening for attachment to a rotary driving spindle, a strip of textile material woven from edge to edge and wound around said core and upon itself to form a disk-shaped structure with said windings extending spirally about the axis of said opening and together forming at one edge a circular polishing face, the opposite edge only of said windings being impregnated with a flexible rubber composition which enters the interstices and secures the weft and warp strands together and the marginal portions of successive windings adhesively to one another, said rubber composition extending as a flexible connective binder body throughout the successive windings of the strip on the side of said disk opposite said polishing face.

2,318,017
ANTISLIP FOOT
Eugene Schmidt, Oak Park, Ill., assignor to Charles O. Moore
Application April 29, 1940, Serial No. 332,232
10 Claims. (Cl. 228—63)



1. An anti-slip device, comprising a resilient rubber foot having a socket of greater than hemispherical extent, a supporting member having a metal ball anchored in said socket, a hemispherical metal shell lining the base of said socket and in bearing engagement with said ball, said shell having a rim flange imbedded in said rubber whereby the load from said ball is distributed throughout a substantial part of the rubber, and a relatively rigid band surrounding said rubber beyond said shell for preventing removal of said ball from said socket.

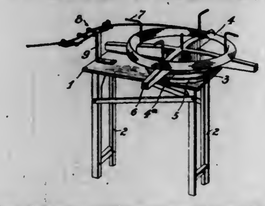
2,318,018
HOLDER AND NEEDLE FOR HAND KNITTING
Otto C. Semonsen, Bellerose, N. Y.
Application May 27, 1940, Serial No. 337,384
23 Claims. (Cl. 66—4)



1. A holder for use in hand knitting, which comprises a supporting member and a plurality of pegs associated with said supporting member

and held thereby in fixed relation to each other, said pegs constituting means for holding the unfinished edge of an unfinished piece of knitted fabric in position for the continuance of the knitting, said means being adapted to hold a plurality of the stitches which comprise the said unfinished edge in individually extended form, whereby an unobstructed space is provided within the confine of each of said stitches.

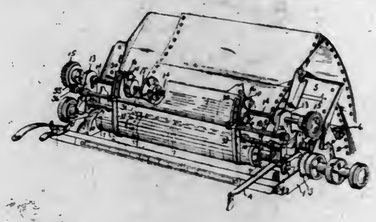
2,318,019
DEVICE FOR REMOVING CURVATURE FROM METALLIZING WIRES
Arthur P. Shepard, Forest Hills, N. Y., assignor to Metallizing Engineering Company, Inc., Long Island City, N. Y., a corporation of New Jersey
Application April 10, 1941, Serial No. 387,812
5 Claims. (Cl. 140—148)



1. Device for removing curvature from a metallizing wire, feeding into a metal spray gun, said curvature being due to coiling of such wire, which comprises means for rotatably supporting a coil of wire, a first set of wire guide means comprising a multiple number of rotatable guide wheels adapted and positioned to define a wire guide orifice, and at least one pair of rotatable guide wheels adapted and positioned to guide said wire therebetween and, together with said orifice in a substantially fixed path of travel in approximation of said curvature, and a second set of wire guide means comprising at least two pairs of rotatable guide wheels adapted and positioned to further guide said wire between the wheel rims of each pair in a substantially fixed path of travel in a counter curvature direction substantially sufficient to straighten said wire, each of said pairs of guide wheels defining a wire guide space, the centers of all of said wire guide spaces being substantially in the same plane, with the center of said orifice, said means for rotatably supporting a coil of wire being adapted and positioned to permit feeding of said wire to and through said orifice substantially in said plane and in continuation of said curvature.

2,318,020
DUAL PINWHEEL FEED
John Q. Sherman and Albert W. Metzner, Dayton, Ohio, said Metzner assignor to said Sherman; Katherine M. Sherman, William C. Sherman, and Wellmore B. Turner, executors of said John Q. Sherman, deceased
Application June 26, 1935, Serial No. 28,480
Renewed February 21, 1939
8 Claims. (Cl. 197—128)

1. In a conventional typewriting machine or the like, dual pin type feeding devices progressively engageable in longitudinally spaced holes in different strips of material, the pins of the devices carried by one of the feeding devices being arranged to engage the longitudinally spaced holes in one only of the strips of material and the pins of the other of the feeding devices being arranged to engage the longitudinally spaced holes in another only of the strips of material for independently advancing separate strips of series connected forms past a writing position, means for actuating the feeding devices at different speeds whereby said pin type devices serve to limit the advancement of one strip relative to the other to a predetermined ratio, thereby insuring that predetermined areas of the respective strips will be simultaneously presented in registry at the writing position, a guide extending from the writing position to the pin feeding device for guiding the record material, and actuating means for operating the feeding devices simultaneously.



2,318,021
FILM CHANGE-OVER WARNING DEVICE
Ottis V. Stephenson, United States Army
Application May 13, 1942, Serial No. 442,799
3 Claims. (Cl. 116—67)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

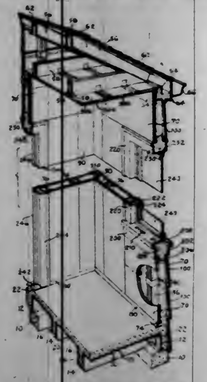


1. In combination, a reel, a film wound on the reel, and means supported solely by and between certain of the convolutions of the film, said means adapted to be released through the unwinding of the film when all but a predetermined length of the film has been unwound and to strike a sounding member to give an audible warning.

2,318,022
FABRICATED HOUSE
Owen M. Stolz and Alan D. Roush, Dayton, Ohio
Application July 5, 1940, Serial No. 344,058
14 Claims. (Cl. 72—1)

1. A fabricated house including a plurality of channel members forming supports for the fabricated house, said channel members including fastening means provided with flexible hooks, panel members each provided with a reentrant flange along one side thereof and an offset flange along the opposite side thereof engaging said fastening means and held in position temporarily by the flexible hooks, and a plastic material housed

by said channel members and interlocking the



flanges of the panels for providing a permanent rigid support for the panels.

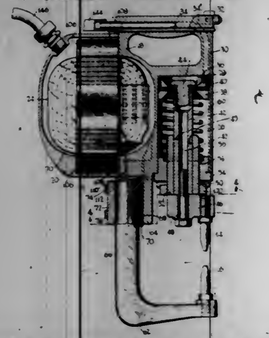
2,318,023

WELDING APPARATUS

Harold A. Strickland, Jr., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Original application October 18, 1939, Serial No. 299,984. Divided and this application November 19, 1940, Serial No. 366,242

17 Claims. (Cl. 219—4)



3. In a welding apparatus, a casing comprising a main section and a cover section together forming a space for receiving a welding transformer, a welding transformer including a core in said space, means for securing said transformer in position by clamping said sections together against said core, a cylinder on said main section having a reciprocable piston and piston rod, said cylinder being arranged along one side of said transformer, said piston rod being operatively connected to a welding electrode, a second welding electrode insulatingly supported from said main section, connections from said transformer to said welding electrodes, and a handle provided on said main section adjacent the end of the cylinder and to one side of said transformer.

2,318,024

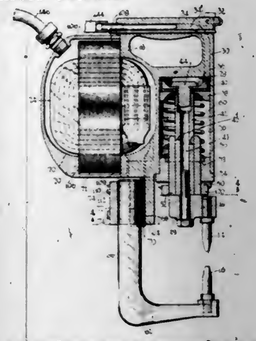
WELDING APPARATUS

Harold A. Strickland, Jr., Grosse Pointe, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 18, 1939, Serial No. 299,984

11 Claims. (Cl. 175—362)

1. In a welding apparatus, a transformer having a secondary, said secondary comprising a plurality of parallelly connected hollow conductors, a terminal connection for said conductors adapted to be connected to said conductors at a substantial angle, said terminal connector comprising a hollow tubular portion merging into an open end channel portion, apertures in said channel portion for receiving the ends of said conductors from the opposite side from the flanges of the channel portion, and a cover plate for said channel portion to form a closed distributing chamber thereof.



9. In a transformer, a secondary composed of a plurality of parallelly connected hollow conductor windings, said windings forming at least two layers of which the one is arranged in concentrically spaced relation around the other, the space between two layers of secondary conductor windings being filled by primary windings, said secondary windings being adapted for passing a coolant therethrough for cooling said secondary windings as well as the primary windings on account of the intimate association of the latter with the former.

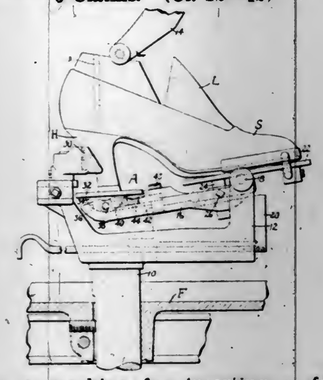
2,318,025

FASTENING-INSERTING MACHINE

Frank E. Stratton, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application December 30, 1941, Serial No. 424,858

6 Claims. (Cl. 12—42)



1. In a machine for inserting a fastening through a passage in a last within a shoe and into an applied heel, a tread-support for the work, a plate variable in position upon the support and upon which the forepart of the shoe may rest, a second plate mounted to move upon the support and upon which the tread-surface of the heel may rest, means for securing the heel-plate in different angular positions with respect to the plane of the forepart-plate, and movable clamping means for engagement with the cone of the last.

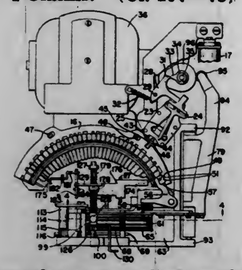
2,318,026

PRINTING TELEGRAPH APPARATUS

Carl W. Swan, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Original application May 20, 1939, Serial No. 274,811. Divided and this application July 5, 1940, Serial No. 344,099

4 Claims. (Cl. 197—73)



1. In a recorder, a recording mechanism comprising a set of recording instrumentalities, a shift shaft, a platen carrier normally operable within a restricted zone subjacent certain of said instrumentalities, a platen removably inserted in said carrier, said platen normally rendered inaccessible by said certain of said instrumentalities, means for yieldably retaining said carrier on said shaft for operation in said zone, case shift mechanism for altering the positionment of said carrier within said zone, and means to render said carrier movable manually from its restricted zone of operation against the action of said retaining means independently of said case shift mechanism to facilitate the accessibility of said platen.

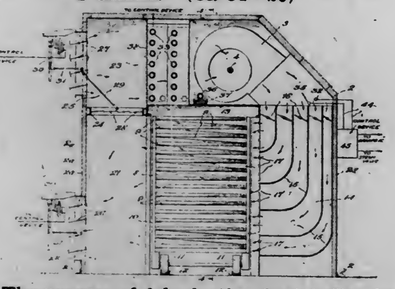
2,318,027

PROCESS FOR DEHYDRATING WATER-CONTAINING MATERIALS

George A. Sykes and Agnes Louise Andrea, Sodus, N. Y.

Application March 6, 1940, Serial No. 322,504

4 Claims. (Cl. 34—26)



1. The process of dehydrating foodstuffs which comprises establishing a circulatory flow of air within a closed space and in contact with the foodstuffs to be dehydrated, maintaining said flow at a temperature of about 140° to about 160° F. and at a humidity of about 25% to about 50% for a first treating period of the order of about one-quarter hour to about one hour, maintaining said flow at a temperature of about 160° to about 190° F. and at a humidity of about 25% to about 50% for a second treating period of the order of about one-half hour to several hours and longer than said first treating period, and subsequently maintaining said flow at a temperature of about 140° to about 170° F. and at a humidity of about 5% to about 30% for the balance of the drying time whereby a dehydrated product free from case-hardening effects and retaining the original cellular structure is obtained, said dehydrated product being adapted to be substantially restored by the addition of water to a product having the appearance, size, texture and flavor of the fresh foodstuffs.

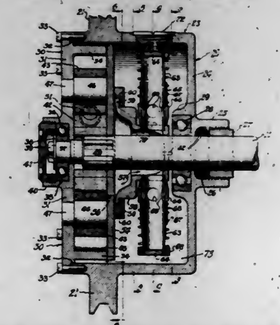
2,318,028

HYDRAULIC POWER TRANSMISSION DEVICE

Albert N. Thomas, Dodge City, Kans., assignor to Thomas Hydraulic Speed Controls, Incorporated, Dodge City, Kans., a corporation of Kansas

Application May 16, 1939, Serial No. 273,906

27 Claims. (Cl. 192—61)



1. Driving means operable at variable speeds, a rotatable driven member, and hydraulic power transmitting means operatively interposed between said driving means and said driven member comprising a rotatable casing constituting a receptacle having a fluid chamber therein, said casing being operatively connected with said driving means, fluid pumping means within said casing adapted for circulating the fluid through said pumping means whereby an operative connection is established between said rotatable casing and said rotatable driven member, and speed regulating means mounted wholly within said casing operatively responsive to centrifugal force and connected to said driven member for regulating the flow of the fluid from said pumping means into the fluid chamber within the casing whereby said driven member is controlled to rotate with a substantially constant speed after the speed of the driving means has reached a predetermined rate.

2,318,029

INTERMITTENT GAS LIFT PUMP

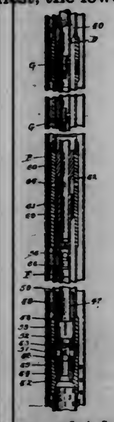
George L. Thompson and Leo A. Cejka, Avenal, Calif.

Application January 24, 1940, Serial No. 315,410

9 Claims. (Cl. 103—231)

1. In well pumping apparatus, the combination of a tubular pressure line extending down from the earth's surface, for carrying operating fluid under pressure, and having a pump-chamber therein, with a foot-valve through which the pump-chamber fills from the pool being pumped,

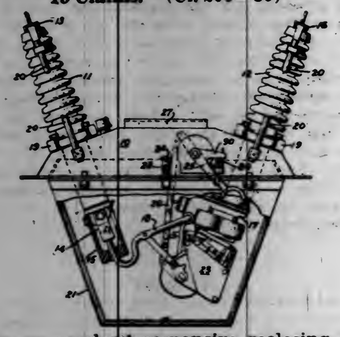
a flow-line tube-string within the pressure line, with a check-valve for passing the liquid discharged from the pump-chamber, means for reciprocating the flow tube, a valve-chest of restricted diameter in the pressure line, an upper valve head carried on the flow tube and capable of filling the bore of the valve-chest, and a lower valve-head carried on the flow pipe, filling the bore of the valve chest, the lower valve-head having ducts extending completely through the same from end to end, said pressure line having outlet ports through the wall thereof, all located at a level between the said valve-heads when the flow tube is near the lower end of the stroke, said valve-heads and outlet ports cooperating alternately to vent the pump-chamber to the exterior of the well through the ducts and said outlet ports, and to admit the operating fluid down through the said ducts to the pump-chamber.



2,318,030
AUTOMATIC RECLOSING CIRCUIT BREAKER

Joseph S. Thompson, Los Altos, Calif., assignor to Pacific Electric Manufacturing Corporation, San Francisco, Calif., a corporation of California

Application October 1, 1941, Serial No. 413,175
15 Claims. (Cl. 200—89)

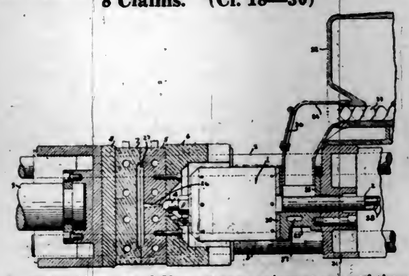


1. In an overload responsive reclosing circuit breaker, the combination of a supporting member, a pair of insulators mounted in spaced relation upon said supporting member, a stationary contact secured to an end of one of said insulators and connected to a terminal at the other end thereof, a contact supporting frame secured to and carried by the corresponding end of the other of said insulators, a movable circuit controlling contact mounted upon said frame adapted to move into and out of engagement with the stationary contact carried by the first of said insulators to complete or interrupt a circuit therebetween, spring means carried by said supporting frame for moving said circuit controlling contact through a predetermined cycle of operations, a trippable release mechanism for rendering said spring means operative to move said circuit controlling contact out of engagement with said stationary contact, a current carrying coil connected in series circuit between said circuit controlling contact and a terminal at the other end of said latter insulator adapted upon the occurrence of an overload to control said trippable release mechanism and permit said spring means to operate said movable circuit controlling contact through a circuit interrupting and a circuit reclosing operation of its predetermined cycle of operations in the event of an abnormal current condition, and means operative upon the completion of a circuit opening operation of said movable circuit controlling contact for delaying for a predetermined time interval the circuit reclosing movement of said movable circuit controlling contact to reestablish the circuit controlled by the circuit breaker.

2,318,031
APPARATUS FOR INJECTION MOLDING THERMOSETTING COMPOUNDS

Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware

Application December 18, 1939, Serial No. 309,798
8 Claims. (Cl. 18—30)



1. Injection molding apparatus comprising an injection cylinder having a bore, means for heating said cylinder, an injection plunger reciprocable in said bore, said plunger being larger than and not slidable in said bore under normal temperature conditions, and means for controlling the diameter of said plunger to just that which is slightly smaller than said bore and slidable therein in gas tight relationship when said cylinder is heated comprising passageways in said plunger and means for circulating a cooling medium at controlled temperature through said passageways.

2,318,032
PRODUCTION OF POLYHYDRIC ALCOHOLS

Gerald H. van de Griendt, San Francisco, Kenneth E. Marple, Oakland, and Leslie M. Peters, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 21, 1939, Serial No. 285,724
11 Claims. (Cl. 260—636)

11. A continuous process for the production of a polyhydric alcohol which comprises continuously feeding a halogen-containing compound hydrolyzable to a polyhydric alcohol, a basic metal hydroxide and a salt of a strong base and a weak acid into a heated liquid aqueous alkaline reaction mixture while regulating the rate of addition of the metal hydroxide with respect to the halogen-containing compound and its rate of hydrolysis so that the alkalinity of the reaction mixture is maintained between the alkalinity of a 0.075 normal aqueous solution of sodium bicarbonate and a 0.06 normal aqueous solution of sodium carbonate when these solutions are at the operating temperature of the reaction mixture, and continuously withdrawing a part of the polyhydric alcohol-containing reaction mixture.

2,318,033
PRODUCTION OF ALCOHOLS

Gerald H. van de Griendt, San Francisco, Kenneth E. Marple, Oakland, and Leslie M. Peters, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 22, 1939, Serial No. 285,960
15 Claims. (Cl. 260—617)

8. In a process for the production of cyclopentanol by effecting the hydrolysis of cyclopentyl chloride in a liquid aqueous alkaline reaction mixture containing sodium carbonate heated at a temperature of from 75° C. to 250° C., the improvement which comprises effecting the hydrolysis by adding sodium hydroxide to the reaction mixture at a rate relative to the alkalinity of the reaction mixture so that the alkalinity of the reaction mixture is maintained between the alkalinity of an 0.042 normal aqueous solution of sodium carbonate and the alkalinity of a 0.018 normal aqueous solution of sodium bicarbonate when these solutions are at the same temperature as the reaction mixture.

13. A process for the production of allyl alcohol which comprises hydrolyzing an allyl halide at a temperature of from 75° C. to 250° C. in a liquid aqueous alkaline reaction mixture containing an alkali metal carbonate with an alkali metal hydroxide, said hydroxide being added to the reaction mixture at a rate relative to the alkalinity of the reaction mixture so that the alkalinity of the reaction mixture is maintained at an alkalinity between that equivalent to the alkalinity of an 0.042 normal aqueous solution of sodium carbonate and that of a 0.018 normal aqueous solution of sodium bicarbonate when these solutions are at the same temperature as the operating hydrolyzing temperature.

15. A process for the production of a monohydric alcohol which comprises hydrolyzing the corresponding halogenated hydrocarbon which contains a single halogen atom linked to a saturated carbon atom in a liquid aqueous alkaline mixture containing a salt of a strong base and a weak acid with a basic metal hydroxide, said hydroxide being added to the reaction mixture at a rate relative to the alkalinity of the reaction mixture so that the alkalinity of the reaction mixture is maintained at an alkalinity between that equivalent to the alkalinity of an 0.042 normal aqueous solution of sodium carbonate and that of a 0.018 normal aqueous solution of sodium bicarbonate when these solutions are at the same temperature as the operating hydrolyzing temperature.

2,318,034
EMULSION BREAKING COMPOUND

Truman B. Wayne, Houston, Tex.

No Drawing. Application July 6, 1937, Serial No. 152,277
26 Claims. (Cl. 252—342)

1. In the process of breaking and resolving petroleum emulsions, the step of adding thereto a water-wettable, interfacial and surface-active reagent characterized by the presence of an addition product of a substance containing the $\alpha\beta$-enal grouping

$$(-C=C-C=O)$$

and an unsaturated chemical body.

2,318,035
PROCESS AND REAGENT FOR RESOLVING EMULSIONS

Truman B. Wayne, Houston, Tex.

No Drawing. Application March 25, 1939, Serial No. 264,235
18 Claims. (Cl. 252—341)

1. A petroleum demulsifying composition which comprises as a component a hydrophilic, surface-active aliphatic ester of a phosphorus acid, characterized by the presence of at least one alkyl radical containing at least seven carbon atoms in its alkyl chain, further characterized by the aliphatic residue of said ester being otherwise free of a sulfonic acid residue substituent of a polyhydric alcohol residue of a fatty acid ester, and further characterized by its property of being dispersed as a hydrophile colloid at the oil-water interface of a water-in-oil emulsion.

2,318,036
PREPARATION OF SURFACE-ACTIVE SULPHONATES

James Herbert Werntz, Brandywine Hundred, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 23, 1940, Serial No. 331,165
8 Claims. (Cl. 260—503)

1. A process for the preparation of water-soluble sulphur-containing compounds which contain a preponderant proportion of surface-active sulphonates which comprises agitating unsaturated hydrocarbons selected from the group consisting of acyclic and alicyclic hydrocarbons containing at least 6 carbon atoms and at least one double bond with a solution containing not more than 20% of a water-soluble compound capable of yielding bisulphite ions in a polar solvent in the presence of a catalytic amount of an oxidizing agent.

2,318,037
LIGHTER

Alexander Sydney Weston, New York, N. Y.

Application December 30, 1940, Serial No. 372,266
1 Claim. (Cl. 67—7.1)

In a cigarette lighter, having an elongated hollow casing for the operating parts thereof, a removable closure cap over the open upper end of said casing, a flint spark producing device in said casing, a countersunk top for said closure cap, a hollow body fitting into the countersunk portion of said cap, adapted to be used as a container for reserve flints, a hollow cylindrical upper portion for said hollow body projecting over said cap, screw threads pressed into the wall of said cylindrical portion, and a closure ball having a screw threaded recess therein whereby to be threaded over said cylindrical portion and normally to serve as a closure for the same and as a grip for pulling off said cap from said casing when it is desired to use the lighter, said ball being adapted to be unscrewed from said cylin-

drical portion when it is desired to open said container for the reserve flints, the bottom of said



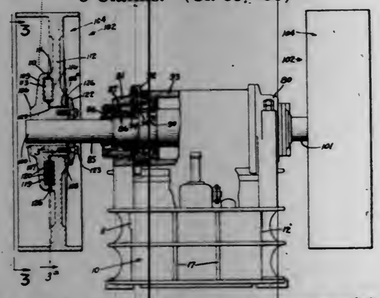
container being secured to the bottom of said countersunk top of the cap.

2,318,038
TRACTOR-TRAILER
Sidney B. Winn, Lapeer, Mich.
Application February 24, 1941, Serial No. 380,325
14 Claims. (Cl. 280—33.1)



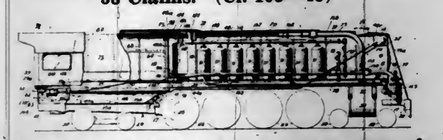
1. In a trailer, supporting means, releasable coupling means on said supporting means and cooperable with a king pin on a tractor to couple the vehicles together, a retractible king pin on said supporting means, said second-named king pin having an effective position for cooperating with coupling means on a second tractor and having a retracted ineffective position, means on said supporting means operable to retract said second named king pin and means on the first tractor actuating said last-named means when the first tractor backed into connection with the trailer.

2,318,039
ROCK CRUSHER
Everett N. Wood, Minneapolis, Minn.
Application December 15, 1939, Serial No. 309,387
8 Claims. (Cl. 83—53)
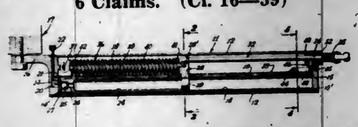


1. A reciprocating jaw crusher comprising a frame, a stationary crusher jaw mounted on said frame, a jaw mounted for movement relative to the frame and rotatable shaft means mounted on the frame and connected to the movable jaw for moving the jaw toward and away from the stationary jaw, a flywheel mounted on said rotatable shaft for rotation relative thereto and for slight movement out of a plane at right angles to the axis of said shaft, said flywheel being formed with walls defining a cavity, a protrusion formed on the shaft extending into said cavity and rubber torque transmitting blocks between the protrusion and the cavity wall for transmitting torque forces from the protrusion to the walls.

2,318,040
LOCOMOTIVE CONSTRUCTION
William E. Woodard, Forest Hills, and Arthur H. Filander, New York; N. Y.; said Filander assignor to Lima Locomotive Works, Incorporated, Lima, Ohio, a corporation of Virginia; Phebe H. Woodard, executrix of said William E. Woodard, deceased
Application August 6, 1938, Serial No. 223,528
38 Claims. (Cl. 105—43)



1. In locomotive construction, a pressure-free structural shell extending lengthwise of the locomotive and chiefly defining the gas passage area and forming the major stiffening element of the locomotive foundation, steam evaporating means housed within said shell and comprising a multiplicity of water tubes, said tubes being arranged in bundles rigidly secured to said shell as against dislodgment therefrom, but with freedom for expansion and contraction relative thereto, and tube spacing means holding the various tubes rigidly as against vibration due to operation of the locomotive.

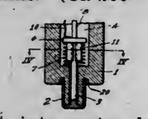
2,318,041
DOOR CHECK
Samuel T. Alexander, Los Angeles, Calif., assignor of one-third to Paul Eddy Richardson, Los Angeles, Calif.
Application November 18, 1941, Serial No. 419,559
6 Claims. (Cl. 16—59)



1. In a door check and return device, an elongated housing adapted to be pivotally secured to a door frame or the like and extend in a horizontal position; a cylinder in the lower portion of said housing; liquid in said housing filling said cylinder leaving the upper portion of said housing free of liquid; means providing a restricted fluid passageway from one end of the cylinder, the other end of said cylinder being in open communication with the interior of the housing; a piston in said cylinder; a crosshead mounted on one end of the piston and extending upwardly therefrom, a rod mounted at the upper end of said crosshead and extending parallel to the cylinder in a plane above the cylinder and above the level of the liquid in the housing, said rod extending through the end of said housing opposite to that to which the housing is attached to the

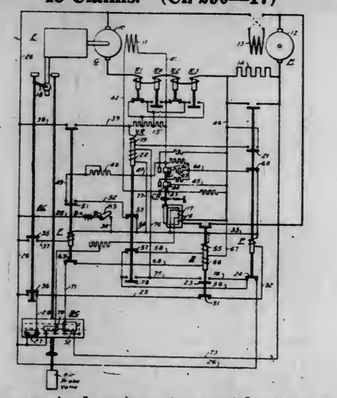
frame, said rod being provided with means at its outer end for attachment to a door or the like; means in said housing for yieldably holding said piston and rod in a retracted position; and a resilient seal member mounted on said rod exteriorly of said housing and adapted to be forced into pressure engagement with the end of the housing by said yieldable means when the rod and piston are in a retracted position.

2,318,042
CIRCUIT INTERRUPTER
Karl Aschwanden, Berlin-Wittenau, Germany; assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 19, 1940, Serial No. 357,350
In Germany September 21, 1939
5 Claims. (Cl. 200—130)



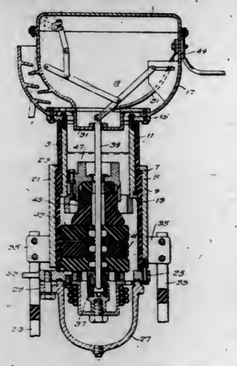
1. In a circuit interrupter having separable contacts, one of said contacts being rod-like in character, the other of said contacts comprising a unitary substantially cup-shaped socket member including a base and side walls projecting therefrom toward said rod-like contact, said side walls being split and normally tightly frictionally receiving said rod-like contact to prevent separation of said contacts, and at least the side walls of said socket member being of bimetal arranged to deflect outwardly in response to heating thereof to release said rod-like contact and permit separation of said contacts.

2,318,043
CONTROL SYSTEM
Bascum O. Austin, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 12, 1941, Serial No. 402,169
13 Claims. (Cl. 290—17)



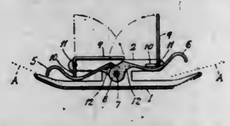
1. In a control system, in combination, a motor having an armature winding and a field winding, a generator for supplying current to the motor, an engine for driving the generator, switching means for connecting the generator and the motor armature and field winding in series-circuit relation for motoring operation, additional switching means for establishing dynamic braking connections for the motor, means for connecting said motor field winding for energization by the generator during dynamic braking, an engine accelerator controller, and a braking controller, said controllers cooperating in controlling the operation of said switching means.

2,318,044
CIRCUIT INTERRUPTER
Andrew H. Bakken, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1940, Serial No. 338,087
11 Claims. (Cl. 200—150)



1. In a circuit interrupter, a casing comprising a pair of tubular metal members disposed in telescopic relation with respect to each other, a tubular member of insulating material disposed between said tubular metal members for insulating one from the other, support means for each of said tubular metal members, said support means bearing against the outer ends of said member of insulating material and tending to move said metal members apart, and means for securing the inner ends of said metal members to said tubular member of insulating material for holding said metal members against movement.

2,318,045
COLLAR CLIP
Ramón González Barreto, Habana, Cuba
Application February 10, 1941, Serial No. 378,289
In Cuba February 14, 1940
2 Claims. (Cl. 24—81)

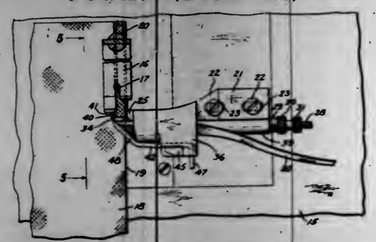


1. A collar holder comprising a main bar, a pair of spaced supporting elements integral with said bar extending rearwardly thereof, a pivot pin supported in said supporting elements, a pair of clamping elements pivotally mounted upon said pivot pin, a coil spring supported on said pivot pin normally urging said clamping elements away from said bar and a pair of cam elements pivotally mounted in said supporting elements for moving said clamping elements towards said bar against the action of said spring into collar clamping position.

2,318,046
METHOD OF TREATING PROTEIN
Frederick C. Bersworth, Verona, N. J., assignor to The Martin Dennis Company, Newark, N. J., a corporation of New Jersey
No Drawing. Application October 24, 1940, Serial No. 363,109
4 Claims. (Cl. 260—119)

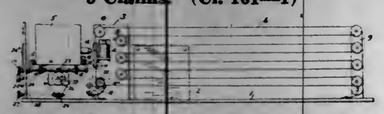
1. The method of treating naturally occurring proteins of the group consisting of casein, soy bean meal, albumin and sugar beet residues, to convert the same into amino acid amides which comprises suspending the protein in a solution consisting of a mixture of ethylene diamine and water, heating the same in a container closed to the atmosphere to a temperature within the range 100–200° C. under the pressure generated therein, the amount of said amine being at least sufficient to react substantially completely with the protein hydrolysates formed.

2,318,047
BINDER GUIDE OR FOLDER FOR SEWING MACHINES
Alonzo J. Bloodgood, Middlebury, Conn.
Application March 1, 1941, Serial No. 381,283
9 Claims. (Cl. 112—138)



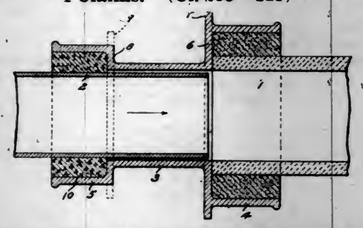
1. In a binder guide for sewing machines, a body adapted to be mounted on the bed plate of a sewing machine forwardly of the needle, a block mounted for adjustment on the body and having vertically spaced substantially horizontal guides to fold the tape about the edge of the cloth, resilient guide fingers mounted on the body and associated with said guides to guide the edges of the tape, means on the body to shift the block, and cam means on the block cooperating with the fingers to cause shifting of the fingers on adjustment of the block.

2,318,048
AUTOMATIC PROGRAM CONTROL MECHANISM
William N. Bodkin, Manoa, Pa.
Application October 15, 1940, Serial No. 361,238
5 Claims. (Cl. 161—1)



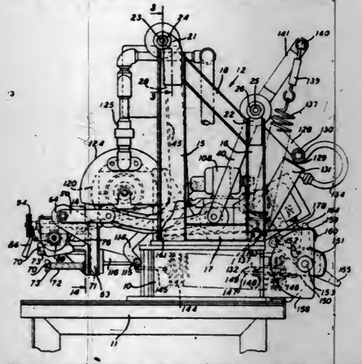
1. Automatic program control mechanism comprising in combination a photo-electric relay operating a controller, a single photo-electric cell operating the relay, a light source including a lens system constantly directing a beam of light on the cell and mounted for sidewise movement in respect to the direction of the beam of light, an opaque tape having spaced lines of transparent spots and mounted between the lens system and the photo-electric cell the relative positions of the spots in the progression being the sole means for timing the operation of the controller, rotary motor means for driving the tape continuously at constant speed, and means for shifting the photo-electric cell sidewise in respect to the direction of the beam of light to align its beam of light with any of the rows of translucent spots.

2,318,049
PIPE COUPLING
Edward W. N. Boosey, Detroit, Mich.
Application June 27, 1941, Serial No. 399,980
4 Claims. (Cl. 285—115)



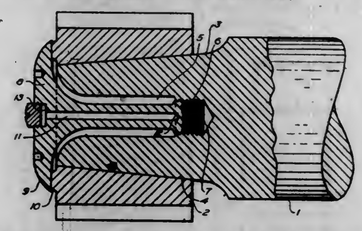
1. A coupling for connecting iron pipe and crock sections, comprising a cast metal body of cylindrical form and of an internal diameter in excess of the external diameter of the iron pipe to enable the coupling to be slipped thereover, a hub at the iron pipe end of the coupling, and a hub at the opposite end for the crock, one of said hubs having a peripheral flange providing a means for anchoring the same to prevent longitudinal displacement thereof when laid in earth the body of the coupling being less in internal diameter than the external diameter of the crock and the second named hub extending thereover to provide a space for material to seal the crock to the coupling.

2,318,050
CUTTING APPARATUS
Stanley E. Boynton, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1941, Serial No. 397,399
19 Claims. (Cl. 125—13)



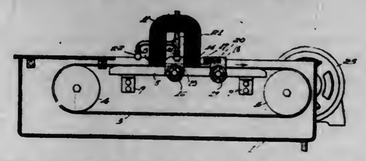
19. In a cutting apparatus, a rotary cutting element, a table to support work to be cut by the element, an arm to support the table for oscillatory movement relative thereto, means to impart movement to the arm to move the table with the work relative to the cutting element to cause the work to be cut thereby, and means actuable during the movement of the table and work with the arm to oscillate the table and work through an arc relative to the arm and cutting element during the cutting of the work.

2,318,051
COUPLING BETWEEN SHAFTS AND WHEELS
Porter H. Brace, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 12, 1942, Serial No. 434,306
8 Claims. (Cl. 287—53)



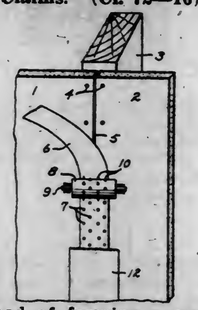
8. In a connection between a shaft and an element to be rigidly mounted thereon, in combination, a shaft having an axial opening, an element mounted on said shaft, said element and shaft having abutting surfaces limiting inward movement of said element with respect to said shaft, and means for maintaining said surfaces engaged comprising an elongated tension member having shoulder portions at one end, the other end of said member being receivable in said opening, means for securing said other end to said shaft at the bottom of said opening with said shoulder portions engaged with said element when said member is at a temperature higher than said shaft, cooling of said member to the temperature of said shaft being effective to stress said member in tension, the tension force thus imparted to said member being transmitted through said shoulder portions to said element for holding said element more firmly engaged with said shaft.

2,318,052
METHOD OF GRINDING BUTT JOINTS OF WOUND CORES
John H. Bramble, Sharpsville, and Michael Dunn, Sharon, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 15, 1941, Serial No. 388,630
9 Claims. (Cl. 51—135)



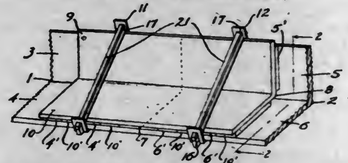
3. The method of working the end surfaces of a multiple leg core part formed of a plurality of layers of magnetic sheet steel positioned at right angles to a plane through the axis of the core legs and bonded together to provide flat surfaces for cooperating with similar surfaces to form a butt joint, comprising positioning the ends of the core legs to be worked in engagement with an abrasive surface moving in a plane and in rigidly supporting the first leg to be engaged by said abrasive surface against movement with the surface and in yieldingly supporting the remaining portion of the core part against movement with the surface.

2,318,053
WALL JOINT CONSTRUCTION
Lester W. Brusse, Houston, Tex.
Application June 14, 1940, Serial No. 340,417
6 Claims. (Cl. 72—16)



1. The method of forming a concealed joint between adjacent panels secured to a support member in substantially abutting relation comprising the steps of positioning a joint strip upon the surface of the panels in surface-to-surface relationship and over the joint formed by the meeting edges of the panels, and securing said strip in place by piercing the strip at a plurality of points, and forcing the strip material displaced into the panels.

2,318,054
SPLICE FOR JOINTS
Bert S. Calvert, Los Angeles, Calif.
Application May 17, 1941, Serial No. 393,894
2 Claims. (Cl. 189—36)

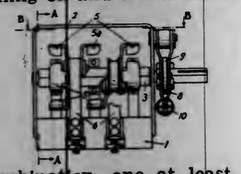


1. A structural joint comprising a plurality of angle irons pressed together by a holding means, spaced apart splines fixed to adjacent faces of the irons and nested snugly together to form a joint having uniform thickness, said holding means comprising a strap formed to agree with the external contour of the joint and having ears extending beyond the joint, openings in the ears, a clamp-rod in the openings having ends turned parallel with and abutting the said ears, said clamp-rod abutting the edges of one of the angle irons, and a wedge bar in the openings for locking the strap to the joint in the manner described.

2,318,055
COMBINATION SWITCH FOR THE CONTROL OF ELECTROTHERMAL APPARATUS
Etienne Challet, Bern, Switzerland, assignor of one-fourth to the firm Entreprises Electriques Fribourgeoises, Fribourg, Switzerland, a firm of Switzerland
Application September 18, 1941, Serial No. 411,423
In Switzerland June 23, 1941
1 Claim. (Cl. 200—6)

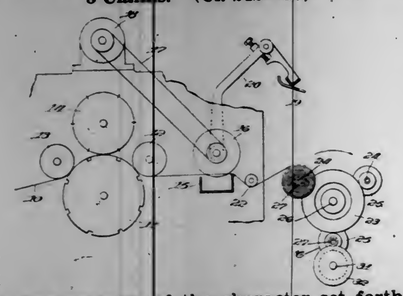
In a control-switch for electro-thermal ap-

paratuses, comprising a base carrying a frame, fixed brushes mounted on said base, several contacting sequents of same length mounted on a common rotary spindle rotatable in said frame and cooperating with said brushes in combining and in switching on and out at least two resist-



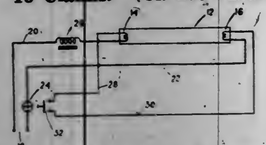
ances, in combination, one at least additional contacting segment of smaller length, so that when said resistances are combined in parallel and must be switched off simultaneously, these resistances are cut out quickly one after another in one single operation.

2,318,056
WINDING APPARATUS
Peter J. Christman, Green Bay, Wis.
Application April 1, 1940, Serial No. 327,124
8 Claims. (Cl. 242—56)



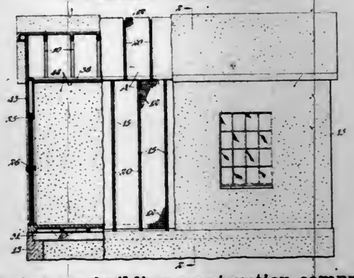
1. In apparatus of the character set forth, a frame, a plurality of spaced mandrels movably supported thereby, means for rotating a mandrel when moved into web-winding position, means for moving a first mandrel beyond winding position and simultaneously moving a second mandrel into winding position, the web carried by said first mandrel being brought adjacent said second mandrel, means for severing said web between said first and second mandrels, said mandrels being provided with a plurality of suction openings adapted to cause the free end of the severed web to adhere to the mandrel automatically when under the influence of suction, and means for creating suction in the openings of said second mandrel when in winding position.

2,318,057
CONTROL DEVICE FOR FLUORESCENT LAMPS
Arthur M. Cohen, New Rochelle, N. Y.
Application January 11, 1940, Serial No. 313,357
18 Claims. (Cl. 176—124)



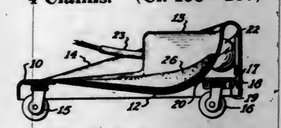
1. A device for the control of a fluorescent lamp, said device comprising a movable element, a switch having open and closed positions, a ratchet device between said element and said switch whereby each operation of the element changes the switch from open to closed position or vice versa, an auxiliary starter switch insulated from the switch and arranged for brief contact, and means whereby the switch is operated during the first part of the movement of the element, and the auxiliary starter switch is operated during the last part of the movement of the element.

2,318,058
BUILDING UNIT AND CONSTRUCTION MADE THEREFROM
Richard R. Colburn, Minneapolis, Minn.
Application December 23, 1940, Serial No. 371,231
14 Claims. (Cl. 72—16)



5. A skeleton building construction comprising, a plurality of building units each including a metal frame having an outer side and an inner side, a backing sheet extending across said frame at the outer side thereof, a pan-shaped foraminous reenforcement secured at its edges to said frame to bridge said backing sheet at the outer side of said frame and outwardly from said backing sheet and attachment flanges projecting at the edges of said frame, said units being located in side-by-side relation with the adjacent attachment flanges of adjacent units overlapped, and means securing together the overlapped attachment flanges.

2,318,059
KNEELING DOLLY
Frank T. Cooper, Cincinnati, Ohio
Application September 5, 1940, Serial No. 355,491
4 Claims. (Cl. 155—167)



2. A kneeling dolly or the like comprising a rigid material formed to provide a generally rectangular body having spaced depressions therein of a size and shape to conform in a plurality of directions to the average human knee and a part of the human shin, the said depressions being surrounded on at least three sides by a ridge and having a depth such that, if the human knee were likened to a sphere it would be supported over substantially the lower third of its surface, the said depressions merging with said ridges in outwardly curving planes.

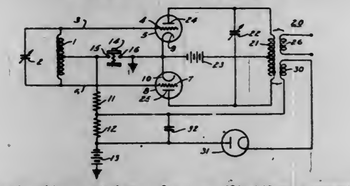
2,318,060
METHOD OF APPLYING LUMINESCENT MATERIAL
Thomas M. Cortese, East Orange, N. J.
Application August 12, 1939, Serial No. 289,928
3 Claims. (Cl. 117—97)

1. The method of applying a coating of powdered luminescent material to the inner surface of a glass tube having both ends open, comprising arranging the tube in a vertical position, flowing upwardly into said tube from the lower end thereof a low viscosity coating solution containing a finely divided luminescent material in suspension, rapidly draining by gravity the excess coating solution from the tube while the tube is in a vertical position to thereby form a thin coat-



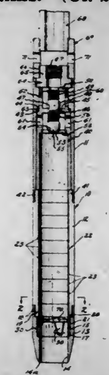
ing of the solution upon the inner surface of the tube, rotating the tube upon its longitudinal axis while vertical, and immediately subjecting the thin coating while the tube is being rotated about its vertical axis and before the thin coating has had time to flow down the vertical tube to any substantial extent to a drying action to accelerate the setting of the thin coating and thereby retard the tendency of the thin coating to flow down the vertical tube.

2,318,061
AUTOMATIC BIAS CIRCUITS
Hampton Jennings Dailey, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 29, 1941, Serial No. 395,803
1 Claim. (Cl. 250—36)



A protective system for oscillation circuits including, in combination, a pair of electron discharge devices containing anode, cathode and at least one grid electrode, respectively, an input circuit including said grid and cathode electrodes, an output circuit including said anode and cathode electrodes, both said circuits being tunable to the frequency of oscillations, a resistance in said input circuit across which under normal operation a bias voltage is being developed due to grid current flow, a second resistance and a source of potential in series with said first resistance, said resistances and said source of potential forming a current path between grid electrodes and cathodes in said input circuit, a secondary circuit coupled to said output circuit including a rectifier and said second resistance, a condenser in parallel with said resistance whereby said rectifier produces a unidirectional voltage across said resistance, the elements of said secondary circuit being so proportioned that the voltage produced by said rectifier across said second resistance at normal oscillatory energy in said output circuit is substantially equal in magnitude to the voltage of said source, said rectifier being so connected in said secondary circuit that the voltage developed across said second resistance is of a polarity opposite to the polarity of said source in said input circuit whereby under normal operation the effect of said two voltages is substantially canceled and upon failure of operation in the absence of oscillatory energy the voltage of said source is the effective control potential in said input circuit, and means for initiating oscillatory current flow comprising switching means for momentarily short circuiting said grid-cathode path formed by said resistances and said source of potential.

2,318,062
SOIL SAMPLER
Trent R. Dames, Pasadena, Calif., assignor to Dames & Moore, Los Angeles, Calif., a copartnership composed of Trent R. Dames and William W. Moore
Application November 29, 1940, Serial No. 367,741
3 Claims. (Cl. 255—1.4)

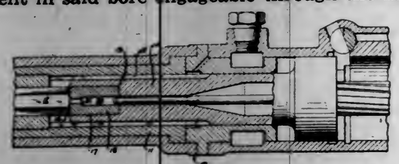


1. In a soil sampler comprising a hollow tubular body having a bit on its lower end, a bore extending upwardly into said body through said bit, and core retainer means inside said body projectible into said bore; the combination of a valve cage in said tubular body above said core retainer means, upper and lower downwardly seating ball valves arranged in series in said valve cage, upper and lower cleaning ports in the side of said cage opposite said ball valves, and packing means between said cage and tubular head at a point between the upper and lower cleaning ports, said packing means preventing circulation of water outside the valve cage between the upper and lower cleaning ports.

2,318,063
PISTON HAMMER FOR ROCK DRILLS
Edwin B. Davey, Glendale, and Ernest N. Martinson, Riverside, Calif.
Application November 26, 1941, Serial No. 420,480
3 Claims. (Cl. 121—31)

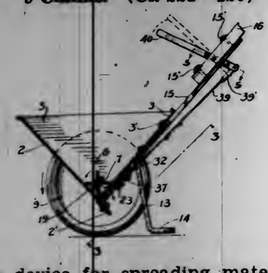
1. A piston hammer comprising a one-piece body having an axially disposed counterbore extending inwardly from its striking end, and a striking face insert having higher wear and impact resistant qualities than the body fitting the counterbore and secured therein, said insert

having a bore therethrough, an annular abutment in said bore engageable through the inner



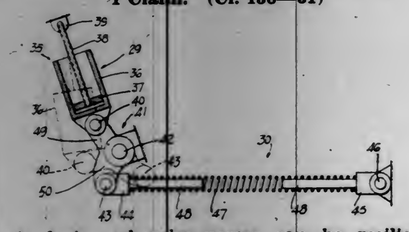
end of the insert to enable removal thereof from the counterbore.

2,318,064
SPREADER
James H. Delaney, Los Angeles, Calif.
Application May 7, 1941, Serial No. 392,249
9 Claims. (Cl. 221—120)



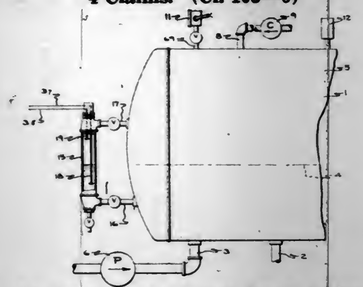
1. In a device for spreading material, a bin having ends and sides to hold the material to be spread, wheels journalled at the ends of the bin, the bin near its bottom having a shiftable plate with a plurality of egress openings, a valve element slidable along the bin and adapted to open and close the openings, guide brackets fixed to one side of the bin and accommodating the valve element between it and the side of the bin, and means to operate the valve element.

2,318,065
HYDRAULIC DRIVE
Peter De Mattia, Passaic, N. J.
Application May 7, 1941, Serial No. 392,207
1 Claim. (Cl. 138—31)



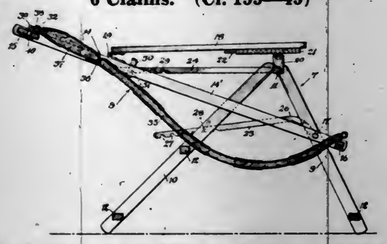
A device whereby power can be resiliently stored so as to be available at relatively constant pressure substantially without loss, including an expansible-collapsible accumulator for fluid under pressure pivotally mounted at one end, a resiliently acting power storage means pivotally mounted at one end, and means having a relatively fixed pivot pivotally connected to the other ends of the accumulator and power storage means and having the characteristic that the recurrent variable moments of the accumulator and power storage means about said relatively fixed pivot are approximately equal in different operative pivotal positions of the accumulator and power storage means.

2,318,066
HYDROPNEUMATIC TANK
John A. Dodd, Atlanta, Ga.
Application September 13, 1940, Serial No. 356,598
4 Claims. (Cl. 103—6)



1. An air volume control for a hydro-pneumatic tank comprising means to maintain the level of the liquid in the tank between a predetermined maximum and minimum level, means to direct air under pressure into the tank to maintain an air space over the liquid in the tank, said air directing means being under control of means to render the same operative when the liquid in the tank reaches its maximum level and during the time the liquid in the tank is between its maximum and minimum levels following the liquid reaching its maximum level, and to render the same inoperative when the liquid in the tank reaches its minimum level, and also being under the control of pressure responsive means operatively connected to the tank for limiting the air pressure in the tank to a predetermined maximum.

2,318,067
CHAIR
Daniel Forbes Ebbert, Wheeling, W. Va.
Application September 17, 1941, Serial No. 411,174
6 Claims. (Cl. 155—45)

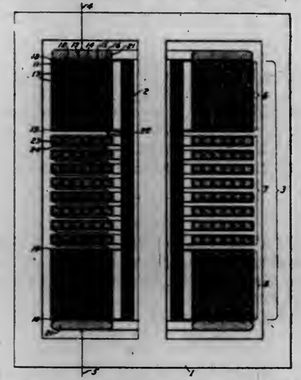


1. A chair comprising a frame, a rigid body-conforming and supporting cradle carried by the frame of a length to support the major portion of a human body reclining thereon, said cradle having a longitudinally convex surface and an oppositely disposed longitudinally concave surface, and means connecting said cradle to said frame whereby said cradle may be turned on a longitudinal axis so that either surface of the cradle may be disposed upwardly.

2,318,068
ELECTRICAL WINDING
Richard Elsner and Joseph Rebhan, Nuremberg, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1939, Serial No. 293,682
In Germany October 18, 1938
8 Claims. (Cl. 175—356)

1. An electrical winding having a main section

formed of a plurality of relatively wide thin disc-shaped coils electrically connected together and an end section formed of a plurality of relatively



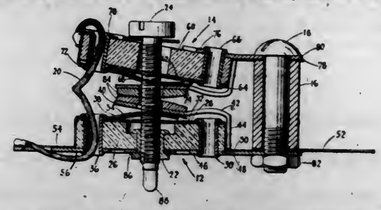
high thin concentrically arranged cylindrical coils connected in parallel, the several coils being wound about the same axis, the different sections being positioned about different parts of the axis.

2,318,069
PROCESS OF PRODUCING SHELL FORGINGS AND THE LIKE
Stevenson Findlater, Pittsburgh, Pa., assignor to National Tube Company, a corporation of New Jersey
No Drawing. Application August 17, 1940, Serial No. 353,151
1 Claim. (Cl. 29—1.21)

The process of producing shell forgings comprising obtaining a closed end blank having a bore of larger diameter than that desired in the finished diameter, inserting a mandrel having a diameter and contour like that desired in the finished shell forging in said bore, rolling said blank between cross-rolls to reduce the wall-thickness thereof to a slightly greater thickness than that desired in the finished product and the bore to the diameter desired in the finished product, maintaining pressure on the end of said mandrel while said mandrel and blank are passing through said cross-rolls to obtain the interior nose contour desired, and subsequently pushing said reduced blank and mandrel through a die to obtain a shell forging having the desired bore diameter, interior nose contour and the desired wall-thickness.

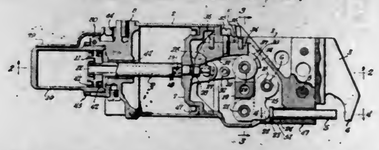
2,318,070
ELECTRICAL CONDENSER
Joseph A. Flanzer and Philip Bein, Willimantic, Conn., assignors, by mesne assignments, to Philip Lauter and Josephine Lauter, Willimantic, Conn., doing business under the name of The Electro Motive Manufacturing Company
Application November 8, 1940, Serial No. 364,856
10 Claims. (Cl. 175—41.5)

1. A wide-range trimmer condenser comprising two trimmer condensers arranged one above the other in face to face or inverted relation, each of said condensers comprising an insulation base having a plurality of normally openable metallic plates, the lower base being provided with an internally threaded bushing and having a mounting staple secured to the bottom of the base by said bushing, a single adjusting screw passing through the upper base and the plates of the upper and lower condensers, to the threaded bushing, whereby rotation of said screw simultaneously adjusts both condensers, means mov-



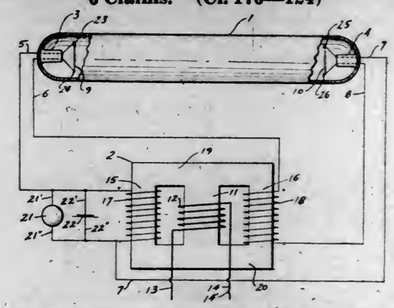
ably mounting the upper base for movement relative to the lower base, and means connecting said condensers in parallel.

2,318,071
COMPRESSION RIVETER
Frithiof P. Forss, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a corporation of Delaware
Application November 27, 1939, Serial No. 306,254
12 Claims. (Cl. 78—48)



1. In a riveting machine, the combination with a support, of a cam-track and a riveting plunger carried by the support, said cam-track being stationarily mounted on said support, a lever fulcrumed on the support between the cam-track and the plunger, a roller, a reciprocable power element having a straight line movement on the support with the center line of the movement parallel to the plunger and disposed between the cam-track and the fulcrum of the lever, and links connecting the roller to the power element and to the swingable end of the lever, respectively, for forcing the lever with an increasing power against the plunger in the travel of the roller along the cam-track towards the lever.

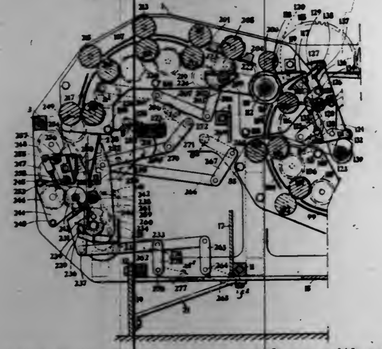
2,318,072
HIGH INTENSITY FLUORESCENT LAMP SYSTEM
Willard C. Hall, Jr., Los Angeles, Calif., assignor to Alfred P. Daniels, Los Angeles, Calif.
Application September 24, 1941, Serial No. 412,124
6 Claims. (Cl. 176—124)



1. In combination, a gaseous electric discharge lamp with end cathodes and a transformer, the transformer having a primary coil, and second-

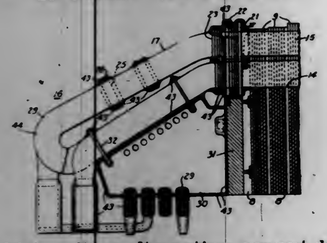
ary windings substantially in phase with their like polarity ends connecting across one cathode and the other opposite like polarity ends connected across the other cathode, and switch means connected across one of the windings to short it when the lamp is started.

2,318,073
MECHANISM FOR PREPARING POSTAL MATTER
Stanley Charles Herbert, Nunhead, London, England
Application April 25, 1939, Serial No. 269,923
In Great Britain April 25, 1938
16 Claims. (Cl. 93—6)



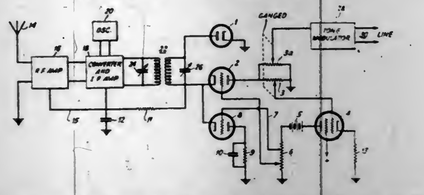
1. Apparatus for charging envelopes with postal matter and preparing them for despatch, comprising a filling table, envelope receiving and adjusting mechanism receiving an envelope from a supply magazine and advancing it into the filling position upon the said table, envelope distending mechanism acting upon the envelope in the filling position, postal matter feed mechanism transferring the postal matter from a position of supply into the envelope while it is distended, guide and feed mechanism to advance the filled envelope to a flap tucking position, and, at the said flap tucking position, mechanism for distending the filled envelope, and mechanism for turning the flap into the envelope to enclose the postal matter, and driving means for synchronising the operation of the several mechanism.

2,318,074
CORONA ELIMINATION IN GENERATOR END WINDINGS
Charles F. Hill, Edgewood, and Leo J. Berberich, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 6, 1941, Serial No. 405,572
15 Claims. (Cl. 171—206)



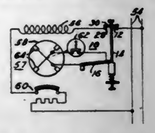
1. A high-voltage alternating-current dynamo-electric machine comprising a stator-member and a rotor-member operating in a gaseous medium, one of said members having a slotted core-member, and an insulated high-voltage winding comprising slot-lying coil-side portions and end-winding portions, a plurality of different insulating blocking-means and insulated lashings between different insulated conductors of said end-windings, a plurality of grounded insulating supporting-means connected to a plurality of portions of the end-windings, and a semi-conducting adherent coating covering the surfaces of said end-windings and the surfaces of all of said blocking-means, lashings and insulated supporting-means.

2,318,075
AUTOMATIC GAIN CONTROL SYSTEM
R. Lee Hollingsworth, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 19, 1941, Serial No. 411,466
4 Claims. (Cl. 250—20)



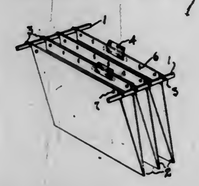
1. An automatic gain control device for a radio telegraph receiver comprising two time constant circuits, one being relatively fast and the other being relatively slow in action, means for applying a gain reducing potential across the fast-action time constant circuit in response to signals the amplitude of which increases up to a predetermined limit, means including a two-stage discharge tube circuit arrangement for causing the slow-action time constant circuit to prevent the application of a receiver-paralyzing voltage across said fast-action time constant circuit in the presence of static crashes the amplitude of which is above said predetermined limit, the tube in the second stage of said two-stage arrangement having its space path in circuit with said slow-action time constant circuit, and the first tube of said two-stage arrangement constituting means operative in the absence of signals for substantially blocking the second stage tube.

2,318,076
MOTOR PROTECTIVE DEVICE
Francis J. Johns, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1940, Serial No. 338,124
5 Claims. (Cl. 172—276)



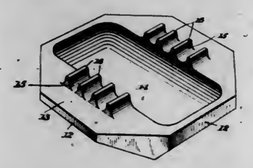
1. In combination, a thermal protective device for a motor having a rotor, comprising cooperating contacts for controlling the energization of said motor, a thermally responsive member directly connected to the rotor so as to be directly responsive to the current passing therethrough for disengaging the contacts under predetermined rotating conditions of such rotor, and means operatively associated with the contacts and member for reengaging the contacts.

2,318,077
SUSPENSION FILE
Frank D. Jonas, East Williston, N. Y., assignor to Oxford Filing Supply Co., Brooklyn, N. Y., a partnership
Application February 7, 1942, Serial No. 429,855
13 Claims. (Cl. 129—16.7)



11. In a suspension filing system a plurality of filing elements having means for supporting them in suspension, each of said filing elements having integral complementarily formed aligning means shaped so that when supported in suspension said aligning means nest in succession to hold the elements in alignment.

2,318,078
ASH TRAY
Felix Alexander Joseph, Scarsdale, N. Y.; now by judicial change of name Felix Joseph Alexander
Application August 26, 1941, Serial No. 408,341
5 Claims. (Cl. 131—235)

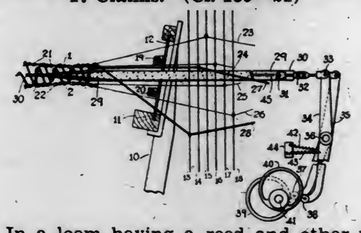


1. In an ash tray the combination of a substantially flat cigarette supporting surface, a well forming an ash receptacle, and extinguishing means comprising stationary spaced projections extending upward from said flat surface adjacent an edge of said well and forming between them a groove having a width slightly greater than the diameter of a cigarette and a depth of from one-half to one diameter of a cigarette, the bottom of said groove conforming approximately to the curved surface of a cigarette and having its lowermost portion in substantially the plane of said flat surface of the ash tray and forming a continuation of said surface.

2,318,079
FLUID COMPOSITION
Leon Paul Jehle, Buffalo, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application March 26, 1941, Serial No. 385,308
5 Claims. (Cl. 252—73)

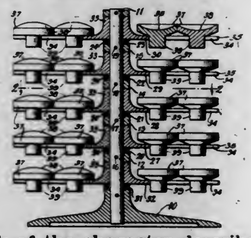
1. A fluid composition consisting predominantly of a mixture of dimethyl phthalate and dimethoxy tetraglycol.

2,318,080
LOOP PILE FABRIC AND METHOD AND APPARATUS FOR WEAVING SAME
William Rollin Keen, Drexel Hill, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 17, 1941, Serial No. 388,969
17 Claims. (Cl. 139—21)



1. In a loom having a reed and other means for making cloth, longitudinal pile gauge wires extending through the reed dents, individual wires of said pile gauge wires having a plurality of weaving stages of different heights which may be predeterminedly positioned at the fell of the cloth during weaving, and means for moving the said individual gauge wires longitudinally of the cloth to position different weaving stages of different heights to the fell of the cloth at the predetermined times.

2,318,081
LAP STORAGE RACK
John R. Kerry, Palatine, Ill., assignor to The House of Vision, Belgard-Spero, Inc., Chicago, Ill., a corporation of Delaware
Application October 25, 1941, Serial No. 416,436
5 Claims. (Cl. 211—13)

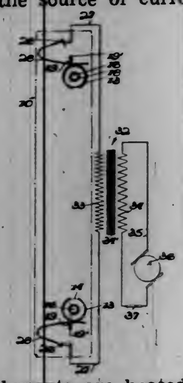


1. A rack of the character described comprising, a vertical support member, a plurality of vertically spaced shelves independently supported by said member and rotatably mounted thereon, one of said shelves being provided with a plurality of long radial slots and with a plurality of short radial slots extending inwardly from the outer periphery of the shelf, each of said short slots being disposed between a pair of long slots.

2,318,082
GASEOUS DISCHARGE LAMP
Paul Alexander Kober, Orange, and Thomas M. Cortese, East Orange, N. J.
Application May 9, 1941, Serial No. 392,782
13 Claims. (Cl. 176—124)

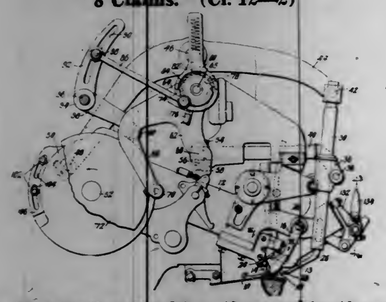
9. In a gaseous discharge lamp, a container having a gaseous atmosphere, spaced auxiliary electrodes within the container for connection with the opposite poles of a source of current, thermostatic elements for connection with the opposite poles of the source of current and arranged adjacent to the auxiliary electrodes to be heated thereby, and thermionic electrodes ar-

ranged within the container and disposed in cooperative relation with the auxiliary electrodes and being free from connection with the opposite poles of the source of current before the



thermostatic elements are heated, the thermostatic elements when heated serving to connect the thermionic electrodes with the opposite poles of the source of current.

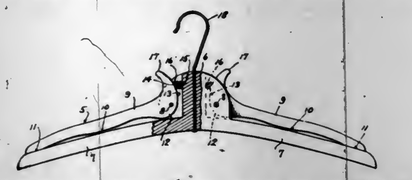
2,318,083
LASTING MACHINE
Harold Lane and William Arthur Barton, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application June 3, 1941, Serial No. 396,438
In Great Britain June 7, 1940
8 Claims. (Cl. 12—2)



1. In a lasting machine, the combination with fastening-inserting means movable relatively to a last into position to fasten an upper to a sole, of means for pulling the upper over the last and inwardly over the bottom face of the sole in response to the movement of said fastening-inserting means into upper-fastening position, said upper-pulling means comprising an upper-gripping jaw movable with the fastening-inserting means and a second upper-gripping jaw arranged to cooperate with the first-named jaw to grip the marginal portion of the upper, the second jaw being movable relatively to the first jaw into and out of upper-gripping position in time relation to the movement of the fastening-inserting means into position to insert the fastening.

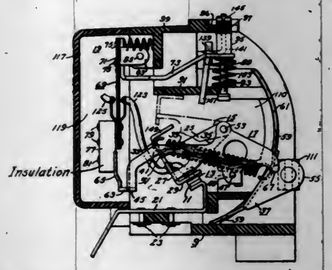
2,318,084
GARMENT HANGER
Maximilian A. Laporte, Brookline, Mass.
Application January 18, 1941, Serial No. 375,073
1 Claim. (Cl. 223—93)

A garment hanger comprising an upstanding head slotted throughout on opposite sides, arcuate arms formed on the lower portion of the head and extending from the opposite sides thereof, substantially arcuate clamps pivotally secured at their inner ends in the slots of the head with their free ends bearing on the upper sides of the arms and their medial portions lying in close



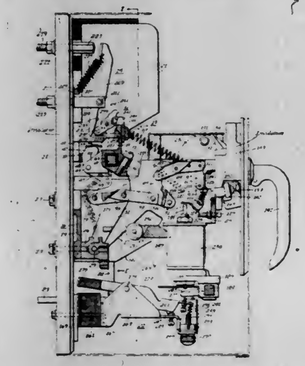
proximity thereto, opposed studs carried by the inner ends of the clamps and adjacent walls of the slots, expansible coil springs carried by the studs between the inner ends of the clamps and adjacent walls of the slots, and upstanding finger gripping lugs formed on the inner ends of the clamps extending beyond the edge of the head.

2,318,085
CIRCUIT BREAKER
Merrill G. Leonard, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 19, 1940, Serial No. 357,391
12 Claims. (Cl. 200—116)



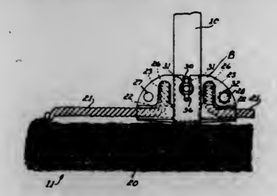
11. A multipole circuit breaker comprising a set of separable contacts and a movable contact arm therefor for each pole, an actuating means for each contact arm for moving the contact arm to open and to closed circuit position, the actuating means of each of a plurality of the poles including a member releasable to cause movement of the contact arm to open circuit position and a pivoted current-responsive bimetal trip element carrying a latch for normally restraining the actuating member and having an arm held in engagement with an adjusting element by a spring, said bimetal trip element being operable in response to predetermined current conditions in the circuit of its pole to flex without pivoting and effect release of the releasable member of its pole, the contact means and actuating means of the several poles being disposed side by side, and means comprising a transversely disposed interlock bar movable by the opening movement of the contact arm of any pole when tripped to move the bimetal trip element of other of the poles about its pivot to effect tripping of other of the poles, said interlock bar being pivoted intermediate its ends about an axis parallel to the plane of movement of the contact arms and engageable with the arms of said bimetal trip elements on the side opposite the springs.

2,318,086
FIELD DISCHARGE CIRCUIT BREAKER
Ture Lindstrom, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 24, 1941, Serial No. 424,301
15 Claims. (Cl. 200—5)



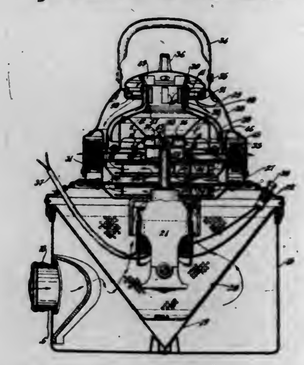
1. A circuit breaker comprising relatively movable contacts, a switch member movable to an open and to a closed position to open and close said contacts, operating mechanism for moving the switch member to open and to closed position, a field discharge switch including a stationary contact, a pivoted switch arm biased to a closed position, means for pivotally supporting said switch arm independently of the breaker operating mechanism, and means including a roller mounted on a part movable with the switch member for cooperating with the switch arm during operation of the breaker to cause closing and opening of the field discharge switch.

2,318,087
MOP CONNECTOR
Arthur L. Lowe, Southport, Conn.
Application October 15, 1940, Serial No. 361,291
2 Claims. (Cl. 15—147)



2. A connector for supporting a mop or the like on the end of a handle, said connector comprising a pair of identical sheet metal elements each having a central substantially semi-tubular depression, said elements arranged one against the other with said depressions registering and together defining a socket for the reception of the handle end, wing-like portions extending laterally from each side of each of said central portions and each having depressions and of which the open sides of the depressions of one element register with those of the other providing sockets at the sides of the first named socket for the reception of the bent ends of a mop frame, said sockets thus formed in said wing-like portions being substantially L-shaped and extending inwardly from the outer edges of said portions adjacent their lower ends and then extending at the outer sides of but substantially parallel with the handle receiving socket, a rivet integral with one wing portion of each element and passing through the other wing portion of the other element and securing said portions of the elements together rigidly and permanently in the angle between the outer sides of said L-shaped sockets, said depressions forming the portions of said L-shaped sockets which extending inwardly from the outer side edges of said wing-like portions continued inwardly to the first mentioned central depressions whereby to stiffen such wing-like portions of the clip in their connections with the depressed central portions, and said portions of the wing depressions extending substantially parallel with the handle socket stopping short of the upper edges of said wing-like portions whereby said L-shaped sockets are closed at their upper ends to enclose and conceal the free ends of any mop frame.

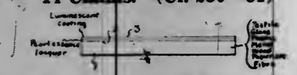
2,318,088
SUCTION CLEANING APPARATUS
Eugene F. Martinet, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a corporation of Ohio
Application May 15, 1939, Serial No. 273,636
15 Claims. (Cl. 21—127)



1. An attachment for a suction cleaner including walls forming a crystal reagent compartment terminating in a restricted nose forming a crystal discharging opening, walls spaced from said compartment walls forming therewith a passageway around said compartment, valve means for said opening, and a heat repellant lining on the inner surface of the compartment walls adjacent said opening.

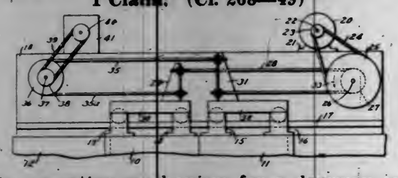
11. In combination with a suction cleaner having a power driven fan and an annular air duct leading from the fan, and having a dust filter on the suction side of said fan and power driven pulverizing means communicating with said duct, a crystal storage and distributing attachment having inner funnel-shaped walls forming a crystal reagent compartment provided with an outlet opening communicating with the pulverizing means, walls spaced from said funnel-shaped walls forming therewith an annular passageway around said compartment and communicating with said annular duct, valve means for said opening, means for detachably connecting the attachment to the cleaner, and means for automatically operating said valve means upon connecting the attachment to the cleaner.

2,318,089
LUMINESCENT MATERIAL
Harry E. Mattin, Brooklyn, N. Y., assignor to The Mearl Corporation, New York, N. Y., a corporation of New Jersey
Application July 22, 1942, Serial No. 451,825
14 Claims. (Cl. 250—81)



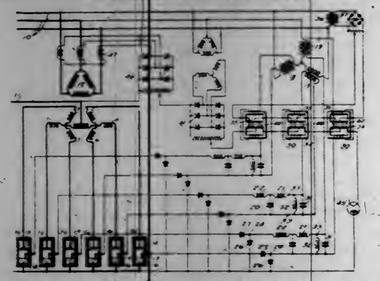
1. An article of manufacture as described, comprising pearl essence and a luminescent material overlying the pearl essence.

2,318,090
ELEVATOR DOOR OPERATING MECHANISM
Harold V. McCormick, Westfield, N. J., assignor to Westinghouse Electric Elevator Company, Jersey City, N. J., a corporation of Illinois
Application January 26, 1940, Serial No. 315,695
1 Claim. (Cl. 268—49)



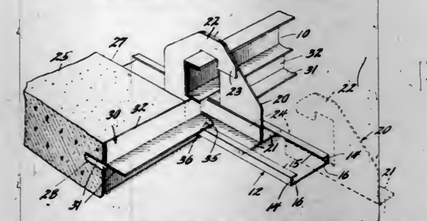
An operating mechanism for a doorway comprising a pair of center opening horizontally slidable doors, a driving sheave, power means for operating the driving sheave, a primary open end friction belt disposed on said sheave to be driven through friction therewith, said belt having its one end attached to one of the doors and its other end attached to the other door, a secondary sheave having a pair of parallel grooves in its rim and a passageway connecting the bottom portion of one groove with the bottom portion of the other groove, and a secondary soft faced belt threaded through said passageway with one end attached to one of said doors for operation in one of said grooves and the other end attached to the other door for operation in the other of said grooves for coupling the doors and causing operation of the secondary sheave in accordance with the operation of the doors.

2,318,091
VAPOR-ELECTRIC DEVICE
Henry C. Myers, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 5, 1941, Serial No. 405,480
6 Claims. (Cl. 175—363)



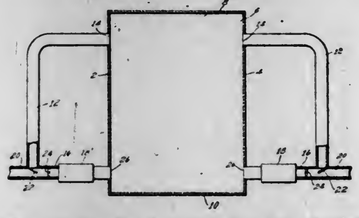
3. A vapor-electric conversion system for interconnecting two electric circuits at least one of which is a polyphase alternating current circuit comprising a main polyphase transformer providing a plurality of pairs of phase terminals, the terminals of each pair being diametrically opposite, a valve of the make-alive type connected to each of said phase terminals, each of said valves including a make-alive electrode, a source of control-potential, auxiliary transformer means energized from said source of control potential, for providing a plurality of electrically insulated secondary phase-windings, a plurality of impulsing networks associated with the respective secondary phase-windings, each impulsing network including a capacitor and a first and a second impedance device, at least said second impedance device being a non-linear reactor, the capacitor being connected in shunt relation to its associated phase-winding, with the first impedance device connected in series-circuit relation therebetween, and means, including said second impedance device for connecting the opposite terminals of said capacitor to the make-alive electrodes of two valves which are connected to one of said pairs of phase terminals, a phase shifting network connected between each of said secondary phase windings and its associated impulsing network, said phase shifting network including a saturating reactor and a capacitor each connected in shunt with the secondary phase winding and a second saturating reactor connected in series relation therebetween, a saturating winding associated with said second saturating reactor, means for impressing a direct current on said saturating winding, a second saturating winding on said second saturating reactor, a source of direct current bias potential and circuit means including a unidirectional conductor for connecting said bias potential and said second saturating windings in series relation across the output terminals of said conversion system.

2,318,092
BUILDING CONSTRUCTION
Anders C. Olsen, Binghamton, N. Y.
Application October 1, 1940, Serial No. 359,278
13 Claims. (Cl. 72—118)



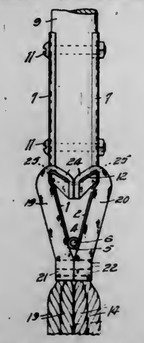
1. In a built-up panelled ceiling structure or the like, in combination, a plurality of elongated, spaced, parallel, main supporting strips, means for securing said strips to the framework of a building, a plurality of rows of panels, each row supported between adjacent ones of said supporting strips, a plurality of sheet metal cross strips each disposed between and connected with the adjacent edges of adjoining panels and seated at their ends upon said main supporting strips, a continuous elongated shoulder extending longitudinally of the upper surface of each of said main supporting strips inwardly of the side edges thereof, and a tongue struck from the lower portion of the ends of said cross strips and bent downwardly behind said shoulder to interlock the ends of said cross strips with said longitudinal strips at any point along the latter.

2,318,093
ELECTRICALLY NEUTRAL AIR CLEANING
Gaylord W. Penney, Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 21, 1940, Serial No. 341,611
21 Claims. (Cl. 183—7)



1. The method of providing an electrically-neutral discharged gaseous fluid from an electrical precipitator means, which comprises passing the fluid through a unidirectional ionizing zone for charging particles in the fluid with a predetermined polarity, and then passing a fraction only of the fluid through a unidirectional ionizing zone of a polarity opposite to that of the first said polarity.

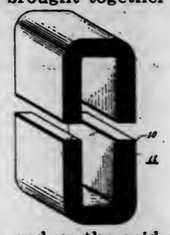
2,318,094
MOP
Ernst H. Petzold, Jr., and Robert A. Cherry, St. Louis, Mo.
Application May 13, 1940, Serial No. 334,696
6 Claims. (Cl. 15—147)



6. A mop holder including a hinged V-shaped head, cooperating jaws on said head, arms projecting therefrom to provide a mop stick receiving socket, a mop cloth including a bifurcated head, the branches of said head lying to the outside of the V-shaped head and serving as a protective covering therefor and the free ends of said branches being folded inwardly and clamped between said jaws when the arms of the mop head are secured to the end of a mop stick.

2,318,095
CORE STRUCTURE
Henry V. Putman, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 17, 1940, Serial No. 353,024
7 Claims. (Cl. 175—356)

1. In a transformer, in combination, a plurality of core sections, worked and etched faces for making a butt joint on the core sections, and an acid-resistant material applied to the faces, the faces being brought together in the making

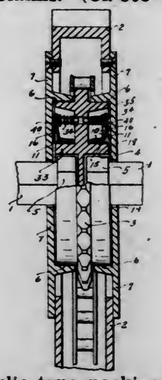


of a butt joint to reduce the acid-resistant material to a predetermined thickness.

2,318,096
TRANSFER SHEET
Frederick A. Quick, Bellerose, N. Y., assignor to All Purpose Gold Corporation, Brooklyn, N. Y., a corporation of New York
No Drawing. Application September 4, 1940, Serial No. 355,375
7 Claims. (Cl. 117—36)

5. The method of manufacturing a transfer sheet which comprises the steps of applying to a carrier sheet a first coat comprising shellac gum and sandarac gum in solution together with plasticizers and pigments, drying said coat and superposing on said first coat a coat comprising shellac gum and Pontianak gum in solution together with plasticizers and drying said coating.

2,318,097
DIRTPROOF BEARING
Ralph W. Richmond, Kennewick, Wash.
Application November 3, 1941, Serial No. 417,613
10 Claims. (Cl. 308—36.2)

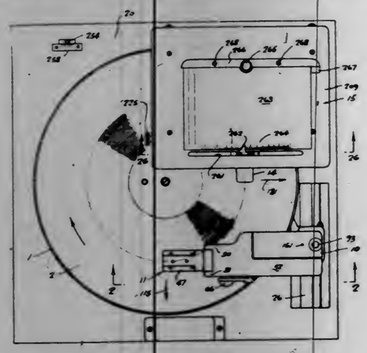


1. A hydraulic type packing for a shaft in a bearing defined as a double course tubular portion having a double course annular flange at one end thereof, the said tube and flange being joined together in sealing continuity save that the outside course of the flange portion and the inside course of the tube are adjacent but not touching and have sealing lips formed thereon.

2,318,098
PHONOGRAPH APPARATUS
Frank Rieber, Los Angeles, Calif., assignor to Memovox, Inc., Beverly Hills, Calif., a corporation of Ohio
Application April 28, 1941, Serial No. 390,690
21 Claims. (Cl. 274—9)

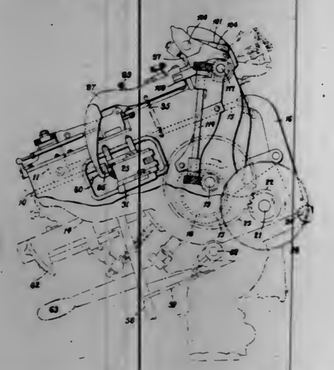
1. In a drive mechanism for a phonograph

having a rotatable record supporting table and a head adapted to cooperate with the record, a cylindrical member having an axis normal to the axis of rotation of the table, means for rotating said member, a drive wheel adapted to transmit a rotary force from the member to the



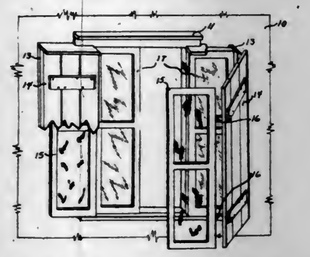
table, a carriage for the head, upon which carriage the wheel is supported, motion transmitting mechanism connecting the table and the carriage, to cause the carriage to traverse the table in response to rotation of the table, and means resiliently urging said wheel into driving relation to the member and the table.

2,318,099
TRIMMING MACHINE
William Thomas Buckingham Roberts, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 22, 1941, Serial No. 423,894
In Great Britain January 23, 1941
5 Claims. (Cl. 12—83.5)



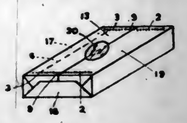
1. A trimming machine comprising a cutting bed having a U-shaped recess to receive the toe end of a partially fabricated shoe on a last, means arranged to support a shoe in cooperative relation to said cutting bed, power-operated mechanism including work-engaging means movable away from the heel end of the shoe and across said cutting bed to spread the toe margin of the shoe upper on said bed, power-operated mechanism including a pair of supplemental spreading members movable away from each other widthwise of the shoe in paths adjacent to the insole and near the tip-line thereof to fold out the side lasting margins of the lining and the upper, and power-operated cutting mechanism arranged to sever surplus materials from the outspread portions of the lining and the upper lying on said cutting bed.

2,318,100
CONCEALED STORM WINDOW AND SCREEN
William B. Rood, Des Moines, Iowa
Application December 31, 1942, Serial No. 470,796
5 Claims. (Cl. 160—129)



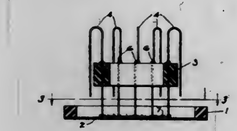
1. In a device of the class described, a window frame, a storm window hinged to one of the vertical side portions of said frame and capable of being swung to a position for closing the opening in said frame, a shutter element, a means for hinging said shutter element to a dwelling adjacent said window frame, a screen hingedly secured to the marginal edge of said shutter element through the medium of an off-set hinge for permitting said screen to be swung to a position over said window frame at times, and a box element for enclosing said screen or said storm window when either are swung to their open positions.

2,318,101
PACKAGE FOR TOBACCO OR OTHER ARTICLES
Alfred German Rose, Gainsborough, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company
Application March 30, 1940, Serial No. 326,977
In Great Britain April 1, 1939
8 Claims. (Cl. 229—51)



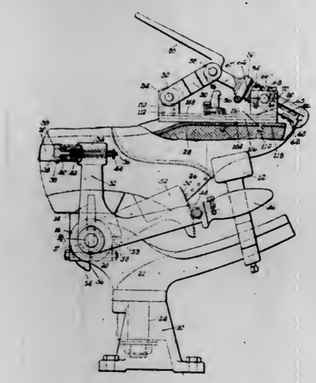
1. A package of the type described, wherein the package is of rectangular cross-section with a long side of the rectangle lying in the top of the package, the outer of the over-lapping edges lying on top of the package and the inner of the over-lapping edges lying on the inside of an adjacent side of the package, said package being formed with two parallel lines of perforations in the top of the package disposed one adjacent each end of the package, the lines passing through the outer over-lapping edge and each terminating in points adjacent each side of the package, the two lines of perforations in the inner over-lapping portion of the wrapped blank being connected at the ends lying nearest the edge of that portion by a slit lying adjacent and parallel to the side of the package containing that edge, thus providing for the formation of two over-lapping flaps by tearing the wrapped blank along the lines of perforations in opposite directions.

2,318,102
ROSETTE TYPE STRAIN GAUGE
Arthur C. Ruge, Cambridge, Mass.
Application September 15, 1941, Serial No. 410,865
6 Claims. (Cl. 201—63)



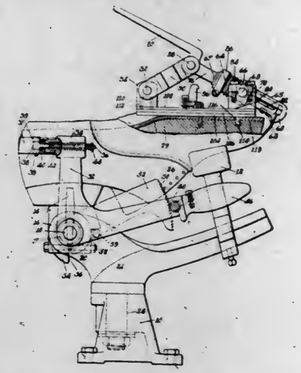
1. A strain gauge comprising a frame member, a plurality of leads supported by said frame in a circularly spaced manner and extending in a common direction, a plurality of continuous solid filaments whose electrical resistance varies in accordance with the strain thereof and said filaments respectively extending between and connected to certain pairs of said leads at their corresponding ends, a membrane to which said filaments are cemented throughout their effective length, and a second frame member secured to said membrane.

2,318,103
SHOEMAKING METHOD
Arthur L. Russell and William M. Watson, Boston, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 30, 1941, Serial No. 391,106
17 Claims. (Cl. 12—145)



1. That method of making shoes which comprises assembling the rear part of an upper on a last, gripping the rear part of the upper against the last by means of a heel band, tensioning the upper lengthwise by means portable with the last and securing the lasting margin of the upper to an insole while the upper is held under tension by said means.

2,318,104
TOE PULLING PINCER DEVICE
Arthur L. Russell, Boston, and William Malcolm Watson, Danvers, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application April 30, 1941, Serial No. 391,106. Divided and this application June 16, 1942, Serial No. 447,226
19 Claims. (Cl. 12—112)



1. Upper-stretching apparatus comprising a gripper and a carrier for the gripper having means whereby the carrier may be removably secured to a last motion.

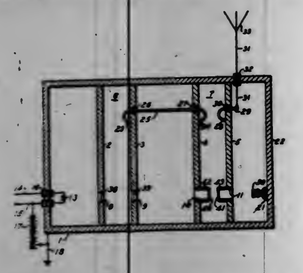
2,318,105
HYDRATED ACETYLENE DERIVATIVES OF THE CYCLOPENTANOPOLYHYDROPHENANTHRENE SERIES AND PROCESS OF PREPARING SAME
Leopold Ruzicka, Zurich, Switzerland, assignor, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey
No Drawing. Application July 17, 1939, Serial No. 285,020. In Switzerland July 23, 1938
4 Claims. (Cl. 260—397.4)

1. A process for the manufacture of hydrated acetylene derivatives of the cyclopentanolpolyhydrophenanthrene series, which comprises treating a steroid containing an ethinyl group in 17-position with a compound containing a hydroxyl group and selected from the group consisting of an acid, an alcohol and a phenol, in the presence of a halide of a non-metal selected from the non-metals of the third and fourth groups of the periodic system as catalyst, and treating the resultant product with a hydrolyzing agent.

2,318,106
HIGH-FREQUENCY APPARATUS
Alden H. Ryan, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 13, 1940, Serial No. 352,411
11 Claims. (Cl. 250—36)

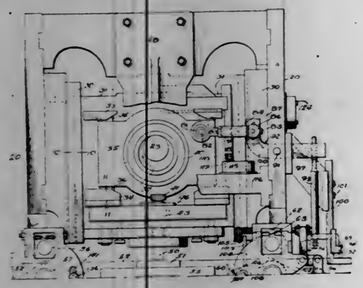
1. A high-frequency hollow-body resonator having a conductor-ensheathed space, in a combination including excitation-means operative on said resonator at a point in an off-centered relation to its total resonating space for causing said resonator to oscillate at a predetermined harmonic resonating-frequency at some multiple of

the fundamental resonating-frequency thereof, and coupling-circuit means for coupling the in-



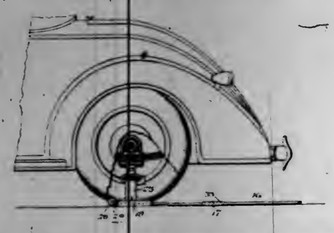
ternal harmonic oscillations within said resonator to some external device.

2,318,107
HIGH SPEED PUNCH PRESS
George B. Scheffey, Reading, Pa., assignor to James H. Sternbergh, Reading, Pa., and himself, jointly
Application March 25, 1941, Serial No. 385,168
30 Claims. (Cl. 164—47)



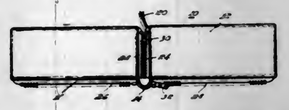
1. In a high speed punch press of the character described, in combination, a punch and die, means for actuating said punch including a part traveling throughout its working stroke at speeds varying from zero to maximum and back to zero, means for causing the punch, when near the end of the stroke of said part, to be impacted, when already in contact with the work, at a speed corresponding to the maximum speed attained by said part.

2,318,108
JACK CARRIAGE
Hugh H. Schramm, New York, N. Y.
Application September 26, 1941, Serial No. 412,387
5 Claims. (Cl. 280—61)



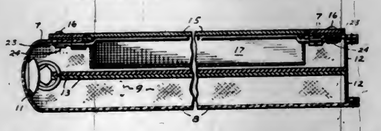
1. A jack carriage comprising a handle member foldable upon itself, a platform for positioning a jack at one end of said member, roller means on said member adjacent said platform, said roller means being so positioned as to be completely out of engagement with the surface of the ground when the platform is placed flat on the ground but adapted to engage the ground when the handle member is lifted.

2,318,109
HEATING PAD
Joseph A. Schultz, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 2, 1941, Serial No. 405,127
5 Claims. (Cl. 219—46)



1. A heating pad having a plurality of separate sections, a metallic heat-conducting structure on each of two adjacent sides of each of the sections, and means for selectively joining the metallic heat-conducting structures on the respective pairs of adjacent sides to provide a path of good heat conduction between said sections in each position.

2,318,110
BRIEF CASE
Tor E. Sjobom, Alameda, Calif.
Application May 19, 1941, Serial No. 394,089
3 Claims. (Cl. 281—31)

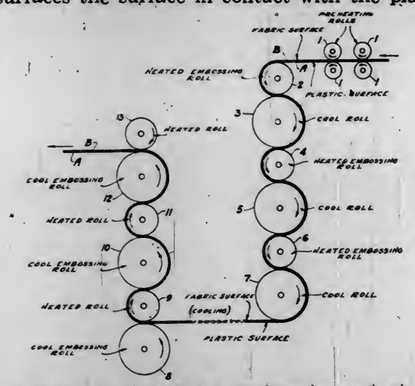


1. A brief case or the like having hingedly related tray-like side elements formed of flexible material and cooperative to define a compartment between them, a plate of rigid material fixed to and against the outside of said case side and having a flat working surface at its outer face and provided with an opening therethrough and opposite a corresponding opening in said side, a traylike member of rigid structure extending through said side opening into the compartment of the case and fixed to said plate with its open side registering with the plate opening, and a displaceable closure member for said opening normally having its outer face flush with the working face of the plate.

2,318,111
PROCESS OF COATING
Alfred J. Steinberger, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application March 23, 1940, Serial No. 325,549
15 Claims. (Cl. 101—32)

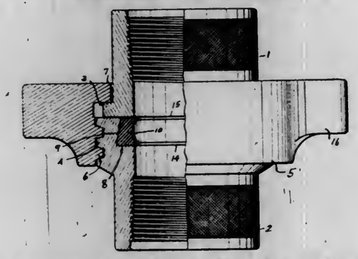
1. A method of treating composite materials comprising a non-thermoplastic material coated with a thermoplastic material, which comprises preheating the plastic-coated material, passing the heated material between a plurality of embossing surfaces contacting said composite material, and, after cooling said composite material,

subjecting it to another pass between embossing surfaces the surface in contact with the plastic



side being cool and the surface in contact with the non-plastic side being hot.

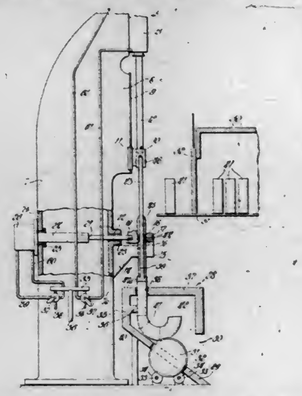
2,318,112
UNION
Crawford K. Stillwagon, Houston, Tex.
Application November 7, 1941, Serial No. 418,124
2 Claims. (Cl. 285—120)



1. A union comprising aligned coupling members having abutting end faces, the abutting ends of said coupling members being provided one with an external annular flange and the other with external threads, a clamp ring having internal threads adapted to mesh with the external threads and having an inside flange adapted to abut said external flange when the clamp ring is screwed home, one of said members having an annular internal countersunk portion whose outer wall converges toward the other member and which is overhung by the abutting end of said other member thus forming an internal annular groove, an annular resilient gasket whose ends converge outwardly and whose outer side tapers from one end to the other end of said gasket, to conform to the taper of said outer wall, the inner side of said gasket being wider than the groove and having lips fitting against the end walls of the groove, said gasket being retained in and conformed to the shape of said groove by pressure when the coupling members are clamped together by said ring.

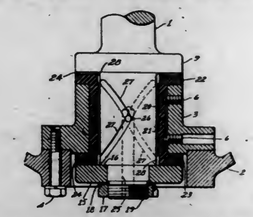
2,318,113
MEANS FOR PRODUCING PIPE BENDS
Edward Hall Taylor, Oak Park, Ill.
Application January 22, 1940, Serial No. 314,958
4 Claims. (Cl. 153—48)

1. In means for producing pipe bends from tubular blanks, a main frame, a substantially vertical mandrel rod and a mandrel at the lower end thereof, a yoke extending from said frame about the upper portion of said rod and provided with a fixed clamping jaw, a movable clamping jaw cooperating with said fixed jaw for clamping therebetween the upper portion of said rod, a cross-head mounted for reciprocation on said frame above said rod, and pusher bars pivoted to and depending from said cross-head at opposite sides of said rod and provided at their lower ends with elements adapted and disposed to



fit about said rod between said mandrel and said clamping jaws, said yoke and said elements and one of said jaws having cooperating surfaces effective for swinging said bars away from said rod, as they approach the limit of their up stroke, and for swinging said bars toward said rod into position with said elements fitting about said rod, as said bars start their down stroke, and maintaining said bars in their latter position during their down stroke.

2,318,114
THRUST BEARING
Leonid M. Tichvinsky, Annapolis, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 26, 1940, Serial No. 362,967
4 Claims. (Cl. 308—134.1)



1. A thrust bearing for a rotatable shaft comprising a thrust collar on the shaft for taking end thrust in one direction, a second thrust collar for taking end thrust in the other direction, a guide bearing encircling the shaft between said thrust collars, said guide bearing having a radial flange at each end providing radial bearing surfaces opposing the radial surfaces of said thrust collars, each of said flanges having a plurality of generally radial slots in its radial bearing surface and an annular recess about its inner periphery into which the slots open, said shaft having an axial passage therethrough for the supply of lubricant and helical grooves for supplying lubri-

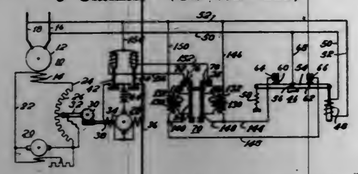
cant to the chambers formed by said recesses, said grooves communicating with said axial passage.

2,318,115
VALVE
Ira I. Tubbs, Mount Vernon, Iowa, assignor to Margaret L. Tubbs, Mount Vernon, Iowa, as trustee
Application October 14, 1940, Serial No. 361,069
12 Claims. (Cl. 273—65)



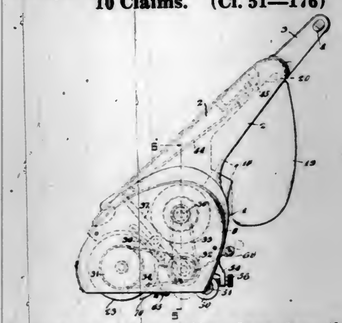
1. A valve for an inflatable article comprising a valve casing having a cylindrical passage therethrough for receiving a closure member, a removable cylindrical closure member of elastic material for said passage of a diameter greater than said passage and having an inflation slit extending longitudinally from the outer end to adjacent the inner end thereof and extending radially at said inner end to the wall of said member, said slit being adapted to receive a tool engageable with the wall of the slit at the inner end thereof for distending the closure member longitudinally to effect circumferential contraction thereof sufficiently to enable the closure member to be removed from operative position in said passage or to be inserted into said operative position wherein the inner end of the slit is disposed inwardly of the inner end of the casing and through which air from an inflating device inserted into said slit can pass into the article in inflating the same, the portion of the closure member within said passage being adapted to expand radially into sealing contact with the wall of the passage when the member is released from the distending force of the tool and to retain the slit closed against leakage upon withdrawal of the inflating device.

2,318,116
REGULATING SYSTEM
Lester G. Tubbs, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 13, 1942, Serial No. 446,855
5 Claims. (Cl. 171—119)



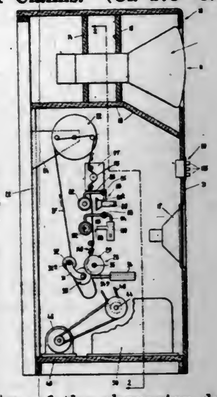
1. In a regulating system, in combination, an electric circuit the voltage of which is to be regulated, an automatic voltage regulator for said circuit, a control circuit for the regulator, the control circuit including a primary control device connected to respond to the voltage of said circuit, means under the control of the primary control device for controlling the operation of the regulator, and a thermal responsive time delay device connected in circuit with the controlling means for delaying the response thereof to the primary control device, the time delay device and the primary control device being disposed to be connected in series circuit relation with each other and the controlling means whereby the controlling means is dependent upon the operation of both the primary control device and the time delay device to effect the operation of the regulator but dependent upon the operation of the primary control device only to interrupt the operation of the regulator.

2,318,117
SURFACE TREATING MACHINE
Louis Vavrik, Rossford, and Kenneth C. Atkin, Toledo, Ohio, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio
Application May 4, 1942, Serial No. 441,685
10 Claims. (Cl. 51—176)



1. In a machine of the class described, wherein the machine body is supported at its rear by a truck and carries a surface treating member in advance thereof, a supporting toggle link connection between the body and truck permitting adjusting movements of the truck toward and away from said member and relative to a vertical line intersecting the center of gravity of the machine, and means operable to cause said movements, said connection having broad transverse connection with both the body and truck to tend to prevent relative lateral rocking movements thereof.

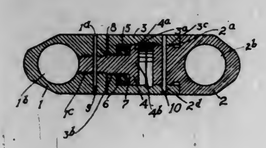
2,318,118
SELECTIVE AUTOMATIC APPARATUS FOR REPRODUCING IMAGES FROM RECORDS THEREOF
Matthew P. Warner and Selig S. Liese, Freeport, N. Y., assignors to Barney Rosenberg and Samuel W. Fried, New York, N. Y., as trustees
Application July 29, 1940, Serial No. 348,100
11 Claims. (Cl. 178—5.6)



1. Apparatus of the character described com-

prising a cathode-ray vision tube, means for mounting in spaced relation a plurality of separate picture-records to be reproduced one at a time, means for selectively reproducing said records including said vision tube and picture pick-up means operatively connected to said tube and arranged to be operatively associated with said records when the latter are operated, said picture pick-up means including a cathode ray tube selectively movable in relation to said records to position the same in operative relation to the record to be reproduced, means operable to move said pick-up tube to a plurality of such positions in succession, and means automatically actuated in response to said movements of said pick-up tube for operating said records one at a time in succession when said pick-up tube is moved to said positions, respectively, in which the pick-up tube is in operative relation to said records.

2,318,119
BALL BEARING STREAMLINED SWIVEL
Harold J. Westhaver, San Diego, Calif.
Application March 23, 1942, Serial No. 435,777
1 Claim. (Cl. 287—91)



In a cable connecting swivel of the class described, the combination of a substantially cup-shaped intermediate member, an end member secured in the open end thereof, a bolt provided with a relatively large head revolubly mounted in said intermediate member and extending outwardly through the substantially closed end thereof, another end member secured on the extending end of said bolt, each of said end members provided with looped portions arranged to receive a cable, ball bearing means between the head of said bolt and the substantially closed end of said intermediate member, pin means for interlocking said intermediate member with one of said end members, pin means for interlocking said bolt with one of said end members, and a bearing washer interposed between said intermediate member and the relatively movable end member.

2,318,120
TREATMENT OF TEXTILE YARNS AND FILAMENTS
William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 26, 1940, Serial No. 347,794
4 Claims. (Cl. 28—76)

1. In a process for the manufacture of tire fabric, the steps of forming tire cords from yarns comprising a mixture of cellulosic filaments or fibers and organic derivative of cellulose filaments or fibers, the latter being present in an amount of ½ to 10% of the weight of the cord, arranging the tire cords in parallel relation to form a fabric and subjecting said fabric to the action of a solvent medium so as to cause the organic derivative of cellulose filaments or fibers to coalesce on at least the surface of the tire cords.

2,318,121
AMINOTRIAZINE-ALDEHYDE BINDING AGENT
Gustav Widmer, Basel, and Willi Fisch, Muttenz, near Basel, Switzerland, assignors, by mesne assignments, to Ciba Products Corporation, Dover, Del., a corporation of Delaware
No Drawing. Application July 27, 1937, Serial No. 156,034. In Switzerland August 1, 1936
3 Claims. (Cl. 260—9)

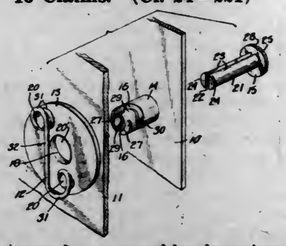
1. Water-proof binding agent comprising melamine-formaldehyde condensation product, starch and an ammonium salt capable of producing acid, in aqueous dispersion.

2,318,122
ARTICLE CARRIER AND STAND
Theodore Cortlandt Williams, Stamford, Conn.
Application February 7, 1941, Serial No. 377,850
1 Claim. (Cl. 220—18)



An article carrier, holder and stand, comprising in combination, a carrying case having fixed top and bottom walls and an open-ended tube fixed to said top and bottom walls and providing an open passage through said case and closed off from the interior of the case, said case having a hinged cover providing access to the interior of the case at one side of said tube, a supporting post of smaller diameter than said tube, said post having an earth piercing point and having a cross pin at a distance above said earth piercing point, said case adapted to be lowered over said post and said fixed tube being notched at the lower end of the same to interlockingly engage said cross pin of the post, to thereby enable said case to be used as a handle for turning and forcing said post into supporting position in the earth.

2,318,123
FASTENER
Samuel Segal, Brooklyn, N. Y.
Application May 21, 1942, Serial No. 443,953
13 Claims. (Cl. 24—221)



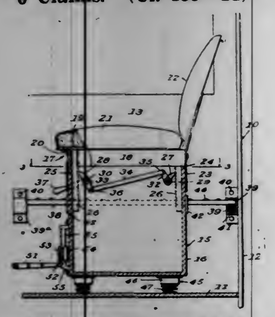
13. A fastener for removably clamping together an outer plate and an inner plate comprising a hollow bearing fixed to and extending from said outer plate and having cam means, said inner plate having rotatable means including an opening for removably receiving said fixed bearing, a spring secured to said rotatable means and

offset from the latter and spaced from and arranged across said opening, and a key rotatably and removably guided by said bearing and having spaced means for straddling said spring to rotatably drive the latter to interlock with said cam means.

2,318,124
CERAMIC STENCILING INK AND VEHICLE THEREFOR
Frederick Shurley, Windsor, Ontario, Canada, assignor to Guthrie Ceramic Labelling & Machinery Co. Inc., Dover, Del., a corporation of Delaware
No Drawing. Application June 30, 1939, Serial No. 282,073
10 Claims. (Cl. 106—30)

8. A non-oily, resinous, air-drying vehicle for vitrifiable stenciling inks used for ceramic printing, which consists of a mixture containing a liquid oleoresin, copaiba resin, molasses and a small amount of a liquid dialkyl phthalate ester in proportions producing a thin liquid vehicle in the general proportions of more than one-half being copaiba resin, one-half thereof being liquid oleoresin, about a fifth of the latter being molasses, and less than 1% being dialkyl phthalate, said vehicle when mixed with ceramic coloring material, forming a stenciling ink capable of adhering to a glass or metal surface and drying without the application of heat, thereby enabling colors to be superimposed to form a multi-colored design which can be fired in one operation.

2,318,125
LOCOMOTIVE SEAT STRUCTURE
Stanley Snyder, Wilkes-Barre, Pa.
Application April 30, 1940, Serial No. 332,573
6 Claims. (Cl. 155—14)

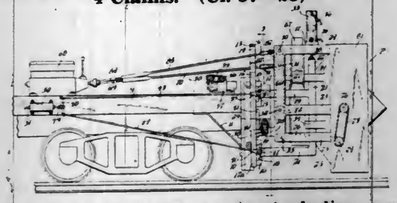


6. In combination with a vehicle, an approximately horizontal bar member mounted therein, a seat within said vehicle, an anchoring means on said seat engageable with said bar member; said seat and said means being slidable along said bar member whereby said bar member and said means function dually as a guide means and as a locking means for said seat in a plurality of adjusted positions, said first mentioned means comprising a plurality of plates spaced apart longitudinally with respect to the bar member each having an opening through which the bar member passes and which openings are enlarged with respect to the bar member, a bracket at each end of the bar member mounting the same in said vehicle for bodily displacement of the same in said openings away from the center line of said bar member, resilient means mounted by the brackets maintaining each end of the bar member in and urging the same to normal position, said bar member having spaced portions for engagement with said plates, and said portions being provided with cam surfaces effective to displace the bar member as aforesaid in said openings upon movement of the seat in fore and aft directions.

2,318,126
LATEX ADHESIVE
Louis Spraragen, Bridgeport, Conn., assignor to Angier Products, Inc., Cambridge, Mass., a corporation of Massachusetts
No Drawing. Application August 13, 1940, Serial No. 352,467
9 Claims. (Cl. 260—739)

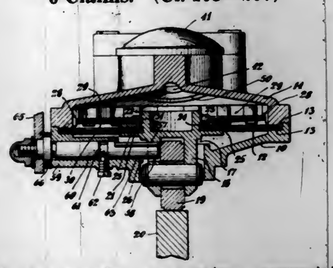
1. A latex adhesive comprising an aqueous dispersion of rubber containing up to about 25% of a lower alkyl ester of crotonic acid in which the alkyl radical contains no more than four carbon atoms.

2,318,127
SNOW REMOVAL MACHINE
Edward T. Stewart, St. Paul, Minn.
Application January 19, 1942, Serial No. 427,274
4 Claims. (Cl. 37—23)



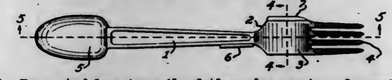
4. Snow removing apparatus including, a relatively stationary support, a relatively movable frame, a snow plow unit on said relatively movable frame, a connection between said relatively stationary support and said relatively movable frame permitting said relatively movable frame and plow unit to move laterally in a straight line relative to said stationary support, and counterbalancing means on said support movable laterally and oppositely to said movable frame and plow unit when said frame and plow unit are moved to off-center positions.

2,318,128
FLUID TRANSFER APPARATUS
Warner T. Tabb, Brooklyn, N. Y., assignor to Eisemann Magneto Corporation, New York, N. Y., a corporation of New York
Original application October 22, 1940, Serial No. 362,179. Divided and this application March 17, 1942, Serial No. 435,118
6 Claims. (Cl. 103—207)



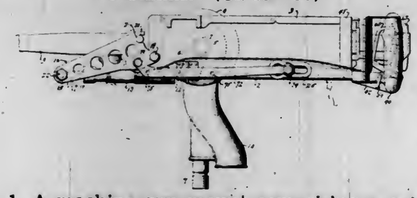
1. Fluid transfer apparatus comprising, in combination, a base member, a casing, a flexible diaphragm peripherally mounted on said casing to form therewith a pump chamber, an operating member mounted on said diaphragm and projecting outwardly through said base member free from any bearing support and having a mechanical diaphragm-flexing mechanism-engaging portion, an engaging shoulder on the side of said operating member, and a manually rotatable shaft mounted transversely on said base member with its inner end shaped to engage the shoulder and move said operating member axially when said shaft is rotated.

2,318,129
COMBINATION KNIFE, FORK, AND SPOON
Thomas D. Torode, Detroit, Mich.
Application June 2, 1941, Serial No. 396,305
2 Claims. (Cl. 30—147)



1. In a table utensil of the character described, the combination of an integral structure formed successively with a series of fork tines, a knife, a handle portion and a spoon, a finger pressure arm being arranged upon the handle portion in position to enable the application of manual force to said knife.

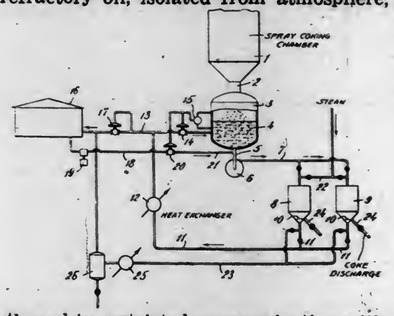
2,318,130
MOUNT FOR MACHINE GUNS
John C. Trotter, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y., a corporation of New York
Application November 7, 1939, Serial No. 303,283
3 Claims. (Cl. 89—37)



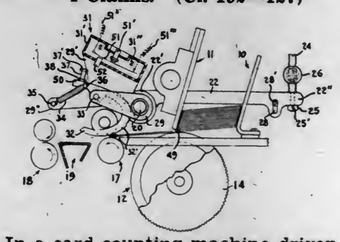
1. A machine gun mount comprising a cradle for a gun and having side portions and a guide track in each portion, a handle for the gun secured to the rear end of the cradle, means for slidably securing and supporting the rearward portion of the gun in the guide tracks, and disconnectable means secured to the front end of the cradle for supporting the forward portion of the gun, said disconnectable means together with said first-mentioned means supporting the gun at two longitudinal sections in the cradle, said front supporting means including means providing for relative movement between the cradle and the gun upon recoil of the latter, said slidable means including slide blocks movable by sliding contact in the guide tracks upon recoil of the gun in the cradle, and said gun securing means being readily disconnectable from the cradle at the two support sections whereby the gun may be removed from the cradle.

2,318,131
COKING PROCESS
Ernest Utterback, Upper Darby, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application July 25, 1941, Serial No. 403,989
5 Claims. (Cl. 202—36)

1. In a process of reducing heavy oils to relatively dry granular coke, the method which comprises, continuously subjecting the heavy oil to spray coking in a coking zone, maintaining a pool of refractory oil, isolated from atmosphere, beneath and in restricted communication with said coking zone, continuously collecting freshly formed coke granules in said pool, continuously withdrawing from said pool the mixture of oil and coke, and separating the oil and coke.



2,318,132
AUTOMATIC STOP FOR COUNTING MACHINES
Nelson S. Welk, Athens, Ohio, assignor to The McBee Company, Athens, Ohio, a corporation of Ohio
Application August 15, 1940, Serial No. 352,703
4 Claims. (Cl. 192—127)



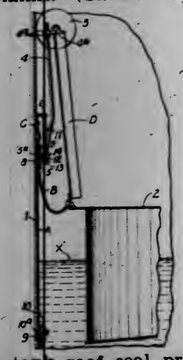
4. In a card counting machine driven by electric current flowing through a normally closed switch; means to open said switch; a pivoted switch control swung on its pivot by the passage of a card through said machine, said control including an arm having a peripheral surface adapted to contact the surface of more than one card fed simultaneously therethrough and being actuated thereby, the length of the said peripheral surface being so related to the throw of said switch control that in the case of single cards with relatively short arm contacting protuberances said protuberances will be too short to actuate said contact control to its switch opening position but that if more than one card be fed simultaneously through the machine the relatively long surface provided by said plurality of cards will be in contact with said peripheral surface sufficiently long to actuate said control to its switch opening position, and manually operable means to close said switch.

2,318,133
PROCESS OF DYEING WITH VAT DYES
William M. Wentz, Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 31, 1940, Serial No. 372,578
11 Claims. (Cl. 8—34)

1. In the process for dyeing textile fibers with

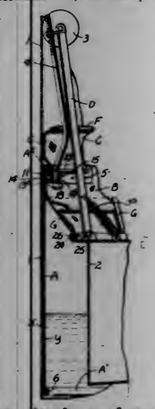
vat colors the steps which comprise padding the fibers with a caustic alkali solution of the reduced colors and developing the colors on the fibers by subjecting them, while the color is in substantially the reduced form, to a mild alkaline solution of an alkali metal hydrosulfite until development of the color is substantially complete, said developing solution having an alkalinity of from about pH 8 to about pH 12, and after the development of the color is substantially complete oxidizing the reduced dye on the fibers.

2,318,134
SEAL FOR FLOATING TANK ROOFS
John H. Wiggins, Chicago, Ill.
Application May 24, 1940, Serial No. 337,020
In Great Britain December 7, 1939
8 Claims. (Cl. 220—26)



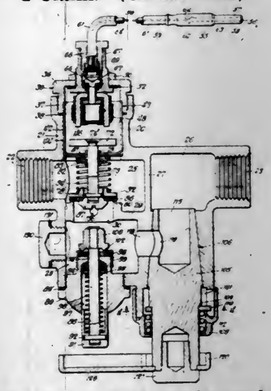
1. A floating tank roof seal provided with a side wall shoe, a secondary seal arranged at the top edge of said shoe and adapted to press against the tank side wall, the bottom edge of said secondary seal being attached to the shoe, and rockable carriers on the inner side of the shoe, projecting upwardly from same and attached to the top edge of the secondary seal, for supporting the upper end portion of said secondary seal.

2,318,135
SEAL FOR FLOATING TANK ROOFS
John H. Wiggins, Chicago, Ill.
Application May 24, 1940, Serial No. 337,021
4 Claims. (Cl. 220—26)



1. In a floating tank roof seal, the combination of an annular shoe adapted to act on the side wall of the tank, a floating roof, a secondary seal rockably mounted at the top edge of said shoe on the inner side of same so as to engage the tank side wall at a point above the shoe, swinging hangers on the roof arranged with their upper ends bearing against the tank side wall, and supporting links for the shoe attached to the upper ends of said hangers adjacent the point where said hangers engage the tank side wall and constructed so as to not bear against said secondary seal.

2,318,136
SAFETY SHUTOFF AND CONTROL DEVICE
Henry F. Alfery, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 13, 1941, Serial No. 374,233
1 Claim. (Cl. 137—144)

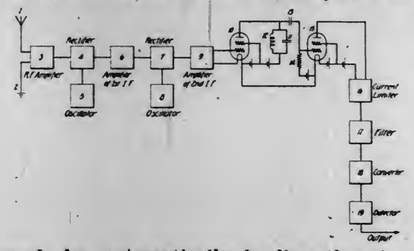


In combination, a fluid supply conduit, a valve member for controlling the supply of fluid through said conduit, a movable armature operable to control said valve member, an electromagnet for said armature, a thermocouple connected to said electromagnet for energizing said electromagnet, rectilinearly movable reset means for resetting said armature to attracted position, a rotatable valve member spaced laterally from said rectilinearly movable reset means and operable to control the supply of fluid through said conduit, and guard means carried by said rotatable valve member for obstructing endwise access to said reset means when said rotatable valve member is open and requiring closing of said rotatable valve member to clear said guard means of said reset means for access to said reset means for resetting operation thereof, said guard means having swinging movement in a plane wholly beyond the end of said reset means so that said guard means may be swung in either direction from obstructing position and with said reset means in its outwardly projected position.

2,318,137
MEANS FOR RECEIVING RADIO SIGNALS
Edwin H. Armstrong, New York, N. Y.
Application January 12, 1940, Serial No. 313,495
4 Claims. (Cl. 250—20)

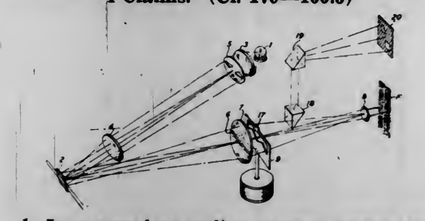
4. A radio receiver for frequency modulated signaling currents comprising, in combination, a selective resonant circuit tuned to a predetermined center frequency and adapted to pass a band of frequency modulated signaling currents and energy consuming means connected across the terminals of the resonant circuit and directly

responsive to the amplitude of the circulating current in said circuit, but substantially unaffected by the extent of the frequency deviations



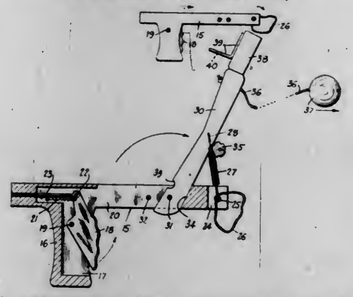
thereof, for automatically loading the circuit, whereby the band width of the resonant circuit automatically increases as the strength of the received signal increases.

2,318,138
SOUND RECORDER MONITORING MEANS
Richard W. Benfer, Los Angeles, Calif., assignor to Western Electric Company, Incorporated, a corporation of New York
Application October 19, 1940, Serial No. 361,880
4 Claims. (Cl. 179—100.3)



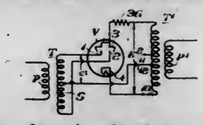
1. In a sound recording system, means defining a recording light beam and a pair of monitoring light beams, means for oscillating said light beams in accordance with sound currents, said monitoring light beams having an angular separation corresponding to the angle of oscillation of said recording beam for a peak amplitude signal wave at one hundred per cent modulation, said monitoring light beams being offset in the direction at right angles to the direction of oscillation of said beams.

2,318,139
TOY PISTOL
Gio Calabrese, New York, N. Y.
Application October 22, 1941, Serial No. 416,021
3 Claims. (Cl. 124—16)



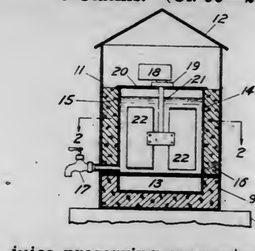
1. A catapulting toy comprising a body having a hand grip, a spring drawn finger operatable trigger pivoted in said grip, a rod pivoted to said trigger normally extending through the rear of said body and guided thereby, a spring actuated projector lever pivoted in the body, means on the free end of said lever to normally support a captive projectile, and a detent fixed on said lever engageable by the end of said rod and released therefrom upon exerting pressure on said trigger.

2,318,140
VISUAL INDICATOR
William Russell Clark, Abington, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 30, 1942, Serial No. 436,829
11 Claims. (Cl. 172—245)



1. A system for visually indicating the phase relation of two alternating voltages comprising electron-ray tube means having ray-control electrodes in an input circuit and associated target structure in another circuit, means for applying one of said alternating voltages to affect, oppositely, the potentials of said ray-control electrodes, and means for impressing the other of said alternating voltages upon either one of said circuits whereby said voltages jointly determine the ray pattern on the target structure.

2,318,141
APPARATUS FOR PRESERVING JUICE
Frank H. Collins, Orange, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
Application March 3, 1941, Serial No. 381,447
5 Claims. (Cl. 99—239)

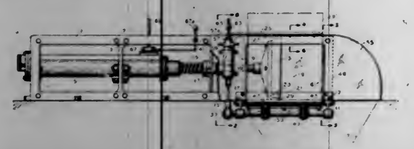


1. A juice preserving apparatus comprising an insulated juice container, refrigerating means associated with said juice container but out of contact with the contents thereof, means comprising a rotatable impeller having S-shaped vanes attached thereto, said impeller being positioned within said juice container and being adapted to effect a non-turbulent movement of the body of juice to effect deaeration of said juice and to maintain the homogeneity thereof.

2,318,142
CRUSHER
John V. B. Cox and Fred L. Thomas, Portland, Oreg., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application November 18, 1941, Serial No. 419,550
7 Claims. (Cl. 83—57)

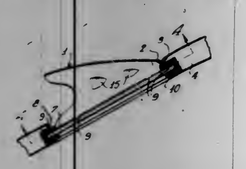
7. In a machine for crushing friable material, a crushing chamber open on one side and adapted to receive through said open side the material

to be crushed, a bottom grizzly and an end grizzly forming a portion of said crushing chamber through which crushed material is discharged, means for feeding material to be crushed to said chamber comprising a plate hinged at one side to said chamber along the lower edge of said open side and adapted in one position to function as a platform for receiving the material to be crushed and to be swung upwardly while deliv-



ering the material into said chamber into a second position in which it functions to close the open side of said crushing chamber during a crushing operation, means for moving said plate from each of said positions into the other of said positions, a crushing plunger adapted to be reciprocated within said crushing chamber towards and away from said end grizzly, and means for so reciprocating said plunger.

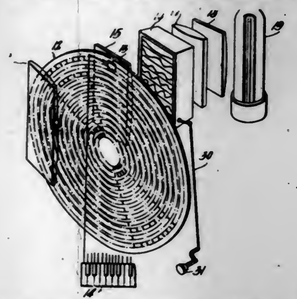
2,318,143
SNOW SHIELD FOR AUTOMOBILE WINDOWS
Herbert A. Cutting, Detroit, Mich.
Application October 17, 1940, Serial No. 361,512
6 Claims. (Cl. 296—95)



1. In combination with an automobile having an inclined rear window composed of a resilient channel with a pane of glass received therein, a shield member having attaching means composed of prong-like members inserted between the glass and a side of the resilient channel for removably holding the shield on the automobile, said shield having a portion extending rearwardly from the upper edge of the window and completely overlying the window, said portion being disposed in a plane substantially horizontal and above the uppermost normal line of vision of the car operator from a rear view mirror located on the header of the car.

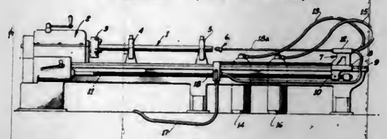
2,318,144
PHOTOELECTRIC MUSICAL INSTRUMENT
Francis J. Darke, Jr., Moorestown, N. J., assignor to Radio Corporation of America
Application March 29, 1941, Serial No. 385,832
8 Claims. (Cl. 84—1.18)

1. Tone control mechanism for an electric musical instrument of the type wherein a moving beam of light scans a stationary wave image and is thereafter directed to a photoelectric cell including a plurality of wave image shutters to produce different tones, and means for selectively adjusting each of said shutters to intercept a greater or smaller proportion of the light beam to vary the amplitude of each respective tone, the greater the amount of light transmitted to said cell, the smaller the degree of modulation of said



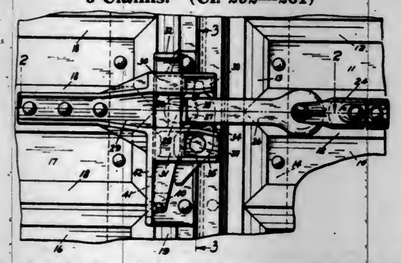
light beam and the amplitude of the respective tone.

2,318,145
METHOD OF FLAME HARDENING TUBULAR STRUCTURES
Frank C. Emery, Los Angeles, and Edwin F. Green, Lynwood, Calif., assignors to Axelson Manufacturing Co., Los Angeles, Calif., a corporation of California
Application October 30, 1939, Serial No. 301,922
6 Claims. (Cl. 148—21)



1. The method of hardening the interior surfaces of bores in machine elements which comprises applying heat to the interior surface of the bores to heat said surface to a temperature in excess of the critical temperature, applying a cooling medium to the interior of the bore to confine the effect of the heat to a short cylindrical zone limited in the direction of the length of the bore and to quench and harden said heated interior surface, progressively advancing the zone along the length of the bore, and rotating said element about the axis of said bore disposed horizontally to uniformly distribute the cooling medium over said interior surface.

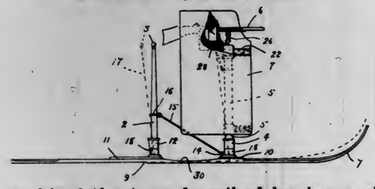
2,318,146
DOOR LOCK
Edward A. Erhardt, Mission Beach, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application January 28, 1942, Serial No. 428,581
6 Claims. (Cl. 292—281)



1. A lock for sliding doors comprising a lock bracket, a vertically slidable tapered pin carried

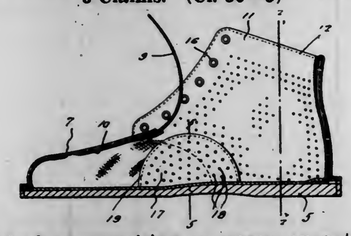
by said bracket, a member pivotally mounted intermediate its ends on said bracket, and a swingably mounted locking element, said locking element being adapted to extend in front of said member at one side of the pivot for said member, an inwardly extending detent on said locking element engageable in locking relationship with said member, a flange extending from said detent and adapted to lie behind said pin, said member being engageable with a side of said pin at the other side of the pivot for said member.

2,318,147
SKI
Eric O. Ericson, Duluth, Minn.
Application March 15, 1941, Serial No. 383,582
6 Claims. (Cl. 280—12)



2. A ski of the type described having a steering mast and a carrier rod extending from the upper surface thereof in longitudinally spaced relation, the upper surface of said ski between said mast and rod being cut-away to provide increased flexibility of the ski.

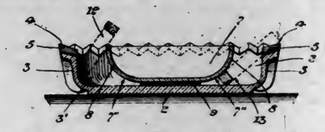
2,318,148
SHOE
Nicholas Ettelbrick, Sr., and Nicholas Ettelbrick, Jr., Greenup, Ill.
Application November 12, 1941, Serial No. 418,804
3 Claims. (Cl. 36—3)



1. A shoe comprising an upper, an outer sole and an insole, and a perforated leather lining for the rear portion of the shoe, said perforated lining extending continuously across the back and along each side of the upper, the upper edge and front edges of the upper and perforated lining being coextensive and stitched together close to the marginal edges thereof, said upper and perforated lining also being secured to the sole, the central portion of the perforated lining being free, and a flat perforated segment of flexible material secured to the lining in the region of the arch of the shoe to provide an arch support, said perforated lining and said segment having their lower edges lasted under the insole of the shoe.

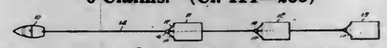
2,318,149
ASH RECEIVER
Sidney Ferman, Bronx, N. Y.
Application May 21, 1941, Serial No. 394,411
5 Claims. (Cl. 131—235)

1. An ash receiver comprising a pair of superposed ash receiving members, one being located within the ash receiving portion of the other and forming therebetween a wedge-shaped recess



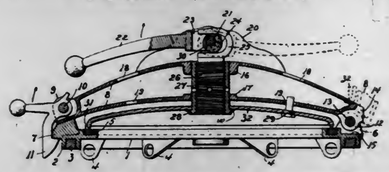
for holding and snuffing stubs, and means for securing said members together optionally in anyone of a plurality of relatively lateral positions.

2,318,150
TOWING DEVICE AND HOOK-UP
Henry O. Foss, Tacoma, Wash.
Application July 10, 1941, Serial No. 401,846
6 Claims. (Cl. 114—235)



6. A towing hook-up for a plurality of tug-towed scows comprising a tow line adapted to extend rearwardly from a tug, a unitary connecting plate having its forward end connected to the rear end of said tow line, bridle lines connected at their forward ends to said plate adjacent the rear end and on opposite sides of the longitudinal center thereof, said bridle lines diverging rearwardly and extending upwardly at an angle from said plate for connection at their rear ends with opposite corner portions of the bow of the first scow on the top side thereof, and a tow line for the second scow extending beneath the first scow, said second tow line having its forward end connected to said plate adjacent the rear end and along the longitudinal center line thereof, each tow line being of such length that the vertical resultant forces incident to the weight of each tow line will cause it to swing downwardly in the water roughly in an arc of a circle to cushion variations in the longitudinal forces transmitted through said tow lines, the forward end of the second tow line extending at a normally relatively sharp angle to the plane of said plate and said plate being adapted to alter the position of its plane in accordance wih variations in the forces being transmitted through the respective tow lines.

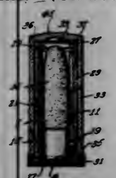
2,318,151
QUICK-OPENING MANHOLE
Hartwell H. Gary, Norfolk, Va.
Application July 17, 1941, Serial No. 402,853
5 Claims. (Cl. 220—57)



1. A quick-opening manhole, comprising in combination with a frame and means to clamp it in place on a manhole ring, a yoke hinged at one end to said frame, a latch carried by the other end of the yoke, said frame having a latching lug to cooperate with said latch, said frame having a gasket, a cap to seat on said gasket to close the manhole, a tapped hub secured to said cap, said yoke having apertured guides for said hub, a cam lever pivoted to said yoke, a threaded plug engaging with said hub and having a cam hous-

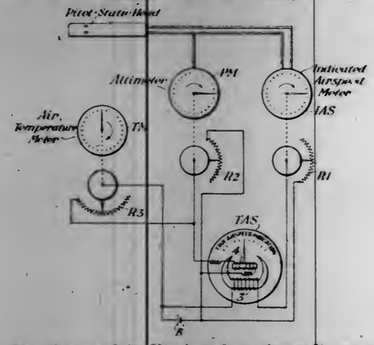
ing engaging with the cam of said cam lever, and a keeper carried by said cap and engaging said yoke to hold the cap from swivelling.

2,318,152
COSMETIC HOLDER
Albert Gelardin, New York, N. Y.
Application August 16, 1941, Serial No. 407,177
2 Claims. (Cl. 206—56)



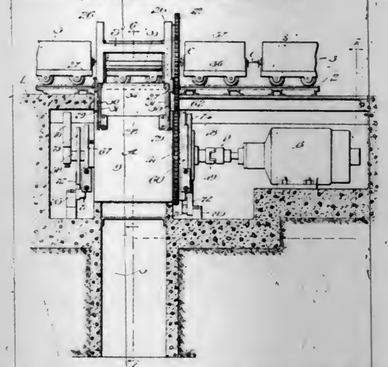
1. A two-piece cosmetic holder comprising a unitary, relatively thick-walled outer sleeve formed with an internal helical groove and a peripheral flange at its lower end, a thick-walled longitudinally slotted, unitary inner sleeve movably fitted within the outer sleeve, said inner sleeve having a bottom and a peripheral flange in the plane of its bottom and extending beyond the periphery of the lower end of the outer sleeve, a rim portion of the said bottom flange being turned over and on the flange on the outer sleeve to retain the said sleeves together in axially rotatable relation, and a carrier disposed within the inner sleeve, said carrier having a peripheral lug extending through the slot in the inner sleeve into the helical groove of the outer sleeve, whereby manual rotation of the bottom of the inner sleeve will effect relative rotation of the respective sleeves with concomitant travel of the carrier.

2,318,153
TRUE AIRSPEED INDICATOR
Robert D. Gilson, Parkville, Md.
Application December 7, 1940, Serial No. 368,982
6 Claims. (Cl. 73—182)



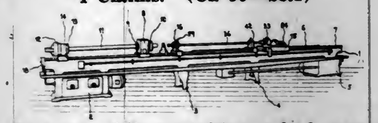
1. An airspeed indicator for aircraft comprising, in combination, an electrodynamometer having a first and a second element, a source of current, an indicated airspeed meter, an altimeter, a first rheostat connected in series with said first element across said source and operated in accordance with the indication provided by said airspeed meter, a second rheostat connected across said second element and operated in accordance with the indication provided by said altimeter, and means for supplying current from said source to the terminals of said second element, whereby said electrodynamometer will provide an airspeed indication which depends on the indication of both said airspeed meter and said altimeter.

2,318,154
MATERIAL DISPOSAL APPARATUS
Seth M. Gooder, Deerfield, Ill.
Application October 28, 1941, Serial No. 416,920
10 Claims. (Cl. 61—83)



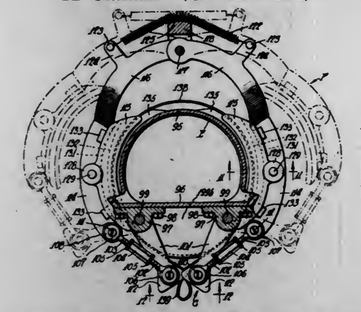
1. An unloading apparatus comprising a movable combined air-lock and material transferring unit, a holder mounted above said unit for rotation about a horizontal axis and adapted to receive a car to be unloaded and dump its contents into said unit through a rotation of the holder, a motor, means to cause the motor to turn said holder, means to cause the motor to operate, said air-lock and material-transferring unit, a manually operable element having two working positions, and controlling devices to cause the first of the aforesaid means to become active when said element is placed in one working position and the other means to become active when said element is placed in the other working position.

2,318,155
GUN RIFLING MACHINE
William F. Groene and Harry F. Stoffregen, Jr., Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application December 11, 1941, Serial No. 422,474
4 Claims. (Cl. 90—28.1)



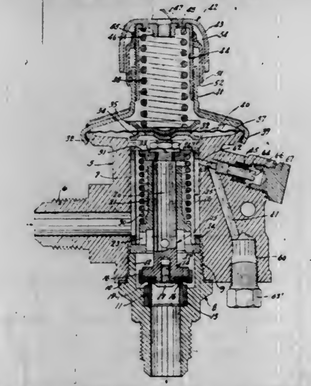
1. In a gun rifling machine, a bed, means for rotatably mounting a gun barrel longitudinally of said bed, means for indexing said gun to a predetermined series of rotary positions, a carriage slidably mounted on said bed longitudinally thereof, a tool feeding unit mounted on said bed between said carriage and said gun barrel and slidable longitudinally thereof, a fluid pressure cylinder mounted on said bed and having a piston rod directly connected to said tool feeding unit and connected to said carriage by a lost-motion arrangement, a rifling bar connected to said carriage and supported by said tool feeding unit, a rifling tool head mounted on said bar for passing through the bore of said gun, and means for effecting feeding motion of the tool of said rifling head, radially of the axis of rotation of said gun barrel, by the relative motion of said tool feeding unit and said carriage during the operation of said lost-motion mechanism.

2,318,156
BAG CLAMPING DEVICE
Peter Hannah, Yonkers, N. Y.
Application February 23, 1938, Serial No. 191,883
11 Claims. (Cl. 248—101)



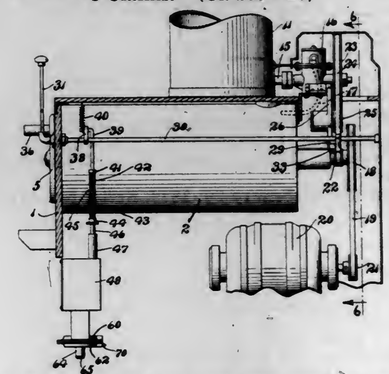
1. In a machine of the type having a spout designed to hold a bag to receive a predetermined charge of material, means to clamp said bag on said spout comprising two fixed arcuate clamping jaws on the sides of the spout, two movable arcuate clamping jaws to be moved sidewardly toward or away from said fixed jaws, a pair of arms carrying said jaws, a pivotal mount for said arms at the rear of the spout and an actuating arrangement having a supplemental pair of jaws to take up any slack in said bag at the front of said spout, said movable jaws being pivotally mounted on said arms.

2,318,157
SUCTION-PRESSURE-REGULATING VALVE
Ferdinand F. Heiser, Wauwatosa, Wis., assignor to Automatic Products Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 22, 1940, Serial No. 346,725
1 Claim. (Cl. 137—153)



A pressure-regulating valve comprising a valve body having a chamber, an inlet to said chamber, said chamber having an opening to the exterior of said body, an outlet fitting inserted into said opening from the exterior thereof and connected thereto, two counterbores in said fitting, a valve seat carried in one of the counterbores in said fitting, a valve having a flat-faced head accommodated in the other of said counterbores and cooperable with said seat and having a stem, a tubular guide slidable on said stem and having a flange at one end, a spring encircling said guide and reacting between said flange and said stem, said valve, guide and spring being inserted as a unit into said chamber through said opening, said fitting being engaged with said flange to position said valve, guide and spring in said chamber, and a diaphragm cooperable with said stem to control the position of said valve.

2,318,158
MIXING MACHINE
Fred R. Hoop, Grand Rapids, Mich., assignor to Froid Laboratories, Inc., Grand Rapids, Mich., a corporation of Michigan
Application March 6, 1941, Serial No. 382,042
8 Claims. (Cl. 259—10)

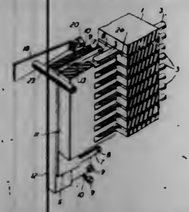


1. A machine of the class described comprising, a mixing chamber adapted to receive food ingredients and water to mix therewith, said chamber having an inlet near one end and an outlet near its opposite end, a rotatable shaft having agitating and advancing members thereon located within the chamber, a closure for the outlet, manually operable means for moving said closure to open or close the outlet, an electric motor, means for driving said shaft from the electric motor, an electric circuit in which the motor is located, feeding means for said food ingredients, a water pump for water, means for simultaneously driving said feeding means and water pump from said shaft, a switch in said circuit operatively connected with said manually operable means to close when said closure means is moved to outlet open position and released for opening when the outlet is closed, means for rendering the driving means for said feeding means and water pump inoperative when the closure is moved to outlet closing position, and means for retarding the opening of said switch for a period of time after said closure is moved to outlet closing position.

2,318,159
PANEL SELECTOR
Philip Husta, Great Neck, and William O. Wagenseil, Pelham, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 396,072
5 Claims. (Cl. 179—27.53)

1. In a selector switch adapted for use in tele-

phone switching systems, the combination of a plurality of terminals, a conducting strip formed with as many fingers as there are terminals in said plurality of terminals, said strip being positioned adjacent to said terminals but normally out of engagement therewith and having each



finger oppositely disposed to a terminal, and a mechanical device adapted for progressive movement with respect to said fingers whereby the operation of a finger by said mechanical device causes said finger to engage the oppositely disposed terminal.

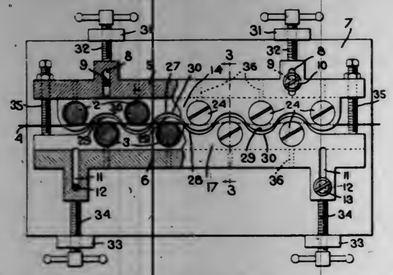
2,318,160

WIRE STRAIGHTENER

Charles D. Johnson, Worcester, Mass., assignor to Johnson Steel and Wire Company, Inc., Worcester, Mass., a corporation of Massachusetts

Application February 20, 1942, Serial No. 431,674

1 Claim. (Cl. 140—148)



A wire straightener comprising two roll-holding blocks, each having two bearing flanges forming between them a roll-receiving channel and each flange having a plurality of spaced openings, a plurality of spaced wire-engaging rolls in each channel, each roll presenting a cylindrical body of uniform diameter which is received entirely within the channel and no part of which projects beyond the edges of the bearing flanges, each roll also having conical ends, each conical end located in an opening of the corresponding flange, ball bearings in the openings in one flange of each block provided with balls engaging the corresponding conical ends of the rolls, the openings in the other flange of each block being through openings, and each through opening having a diameter at least as great as that of the corresponding roll whereby the rolls may be assembled in the flanges by introducing them through said through openings in an axial direction, a plug having a flat inner face screw threaded into the outer end of each through opening, balls in each annular space forming part of a through opening and bounded by the wall of said through opening, the inner flat face of the screw plug screwed into the outer end of said opening and the conical end of the corresponding roll, each flange of each block having a recess between adjacent rolls, which recess is situated opposite a roll of the other block and means to adjust the blocks toward and from each other.

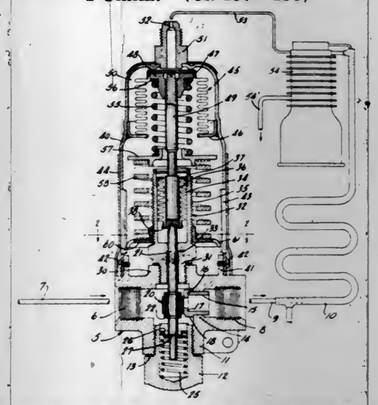
2,318,161

WATER REGULATING VALVE

Roy W. Johnson and Cedric E. Zarwell, Milwaukee, Wis., assignor to Automatic Products Company, Milwaukee, Wis., a corporation of Wisconsin

Application July 22, 1940, Serial No. 346,750

1 Claim. (Cl. 137—153)



A water regulating valve for controlling the flow of water to water-cooled compressors or condensers of refrigerating systems and comprising a valve body having an inlet and an outlet, a ported partition in said valve body interposed between the inlet and the outlet and having a valve seat provided with a flat valve face, a valve block slidable across the face of said seat to regulate flow through said ported partition, a valve stem with which said valve block is constrained to slide, a sealing bellows housing mounted on the valve body and having a guide opening through which the valve stem slides, a sealing bellows having one end hermetically sealed to said housing and having its other end closed and in driving engagement with the valve stem, a cover for the housing, a power bellows interconnected with the cover to define a pressure chamber, means connecting said pressure chamber with the high pressure side of the system, an adjusting nut engaged with said power bellows, an operating pin threadedly interconnected with the adjusting nut and in driving engagement with the portion of the sealing bellows engaged with the valve stem, a spring arrangement abutting the adjusting nut at one end and a second adjusting nut for said spring arrangement threaded on the housing.

2,318,162

PROCESS AND APPARATUS FOR TWISTING RAYON

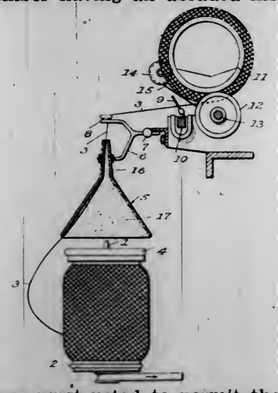
Frank J. Jones and John L. Bitter, Elizabethton, Tenn., assignors to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

Application May 16, 1940, Serial No. 335,510

5 Claims. (Cl. 57—62)

1. In an apparatus for the twisting of thread by the up-stroke twisting process whereby the thread is subjected to ballooning; a rotating twisting spool from which thread is drawn off;

an inverted, hollow, funnel-shaped member positioned above said spool and in axial alignment therewith through which the thread is passed, said member having an abraded inside surface



and being constructed to permit the movement of the thread around the entire inside surface thereof while it passes therethrough, said surface being incapable of injuring said thread; and take-up means for collecting the thread.

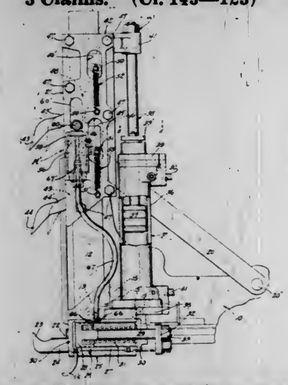
2,318,163

SAW MILL DOG

Martin Kahr, Milwaukee, Wis., assignor to The Filer & Stowell Co., Milwaukee, Wis., a corporation of Wisconsin

Application November 17, 1939, Serial No. 304,976

3 Claims. (Cl. 143—125)



3. A saw mill dog comprising movably supported upper and lower teeth, individual fluid pressure motors for said teeth, a source of fluid under pressure, one of said motors being connected to said source, the other of said motors being connected to said first mentioned motor so that fluid under pressure supplied to said second mentioned motor must pass through said first mentioned motor.

2,318,164

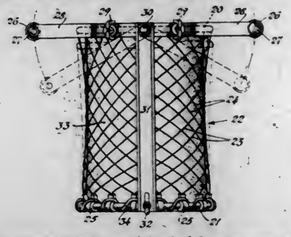
LIFTING AND/OR HOLDING DEVICE

David L. Kellems, Westport, Conn., assignor to Kellems Company, New York, N. Y., a partnership consisting of Vivien Kellems and David L. Kellems

Application January 5, 1942, Serial No. 425,664

15 Claims. (Cl. 294—86)

1. The combination of an expansible and contractile unit composed of a plurality of strands arranged about a common axis to form a tubular structure adapted to receive an object to be held, rigid means connected to a portion of said unit and extending longitudinally of the same, and



means connected to said rigid means and to said unit at a place spaced from the first mentioned connection of said rigid means with said unit and operable through said rigid means to extend said unit and thereby to contract the same.

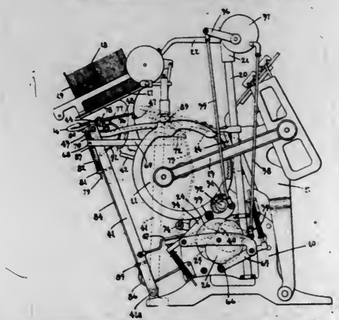
2,318,165

SHEET DELIVERY MECHANISM

Eneval Kluge, St. Paul, Minn., assignor to Brandtjen & Kluge, Inc., St. Paul, Minn., a corporation of Minnesota

Application October 11, 1941, Serial No. 414,628

11 Claims. (Cl. 101—287)



1. Delivery mechanism for a self-fed platen printing press having a delivery table in front of the platen and an overhead magazine for sheet stock, said mechanism comprising an oscillatory delivery arm pivoted at its lower end to the base of the press at one side thereof and swingable from a substantially upright rearward position to an inclined forward position, a carrier member swiveled to the upper end of said arm, a support extending inwardly of the press structure and mounted on said carrier member, said support having a suction grip thereon, a bracket extending forwardly from the press frame and including spaced rails at opposite sides of said delivery arm for guiding the same in its swinging movements, a swingable cam-rail pivoted at its forward end to the forward end of said bracket, the rearward end of said bracket having guides for the rearward end of said cam-rail to guide the same vertically, said cam-rail having a cam surface extending therealong, said cam surface in greater part substantially coinciding with an arc struck from the pivotal axis of the delivery arm and dipping at its rearward portion beneath such arc, said swiveled carrier member having a cam-arm thereon coacting with the cam surface of said cam-rail, means for swinging the delivery arm back and forth to carry the suction grip rearwardly over the platen for the taking

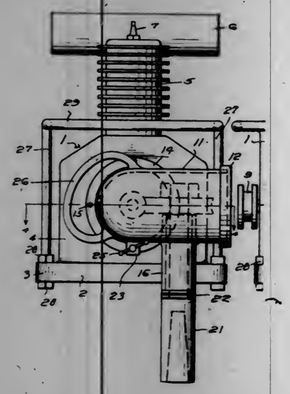
of a sheet therefrom and forwardly over the delivery table for the depositing of the sheet thereon, said delivery arm substantially throughout its entire forward movement directing said carrier member in a descending arc to clear the overhead stock magazine of the press, means for swinging the cam-rail up and down to cause the grip to follow an elevated path upon its approach to the platen and to depart from the platen along a lower path, the cam surface of said cam-rail and the downward swinging thereof combining in cooperation with said cam-arm to turn the swiveled carrier member and cause the suction grip to dip sharply to a position for grasping a sheet on the platen and, upon thus dipping, to clear the opening platen, arriving at such position substantially concurrently with the completion of the opening of said platen, said cam surface further cooperating with said cam-arm reversely to turn said swiveled carrier member and cause the grip to rise from its said sheet grasping position as it moves forwardly to sheet depositing position.

2,318,166

PORTABLE DRILL

Morrell Auston Knight, Brunswick, Ga., assignor of one-half to D. W. Shader, Brunswick, Ga.

Application November 28, 1941, Serial No. 420,896
2 Claims. (Cl. 77—7)



1. In a portable drill, a base plate, a motor centered on said plate, a continuous hand rail surrounding the motor above said plate in spaced relation to the motor and fixed to said plate, a drive shaft for said motor having one end extending beyond one side of said plate, a tool holder including a shank, means to mount said shank on one side of the motor for revolving around said end of said shaft in laterally offset right angular relation thereto, and a drive between said end of the shaft and said shank comprising a worm on said end of said shaft and a worm wheel fast on said shank and revoluble about said worm in mesh therewith, said means comprising an elbow-type drive housing inclosing said end of the shaft and said worm and wheel and comprising a bearing sleeve for said shank and an end rotatably mounted on said motor for adjustment of the housing about said end of said shaft into different set positions.

2,318,167

LINER SETTING AND WASHING DEVICE FOR WELLS

Laurence R. Knowlton, Redondo Beach, Calif., assignor to Vernon Tool Co. Ltd., Alhambra, Calif., a corporation of California

Application October 4, 1940, Serial No. 359,676
11 Claims. (Cl. 166—20)



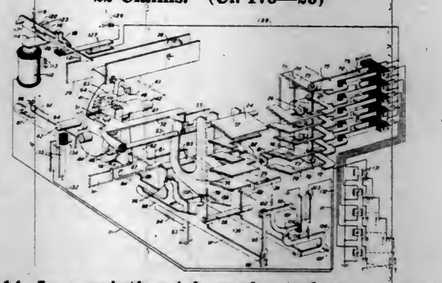
1. A screen-liner and washer for wells, comprising in combination, a tubular liner open at its upper end and having vertically spaced openings through its tubular wall, at least some of which are located in a lower zone of the liner to act as strainer openings, means carried by the upper portion of the tubular liner whereby the upper portion may be locked and sealed in the lower end portion of a well casing with the zone of lower strainer openings below the casing, a wash pipe extending downwardly within the tubular liner to a point near its lower end, means for detachably securing the wash pipe to the liner, two vertically spaced packers surrounding the wash pipe near the lower end thereof sealingly engaging the inner surface of the liner and defining within a limited lower portion of the strainer zone a vertically sealed off zone within the liner, an exit opening for washing fluid in the wash pipe between the two packers, and a third packer surrounding the wash pipe and sealing the annular space between it and the tubular liner at a level below the uppermost of the openings through the liner wall.

2,318,168

PRINTING TELEGRAPH APPARATUS

Wilmarth Y. Lang, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 14, 1941, Serial No. 398,055
22 Claims. (Cl. 178—23)



14. In a printing telegraph receiver, a set of

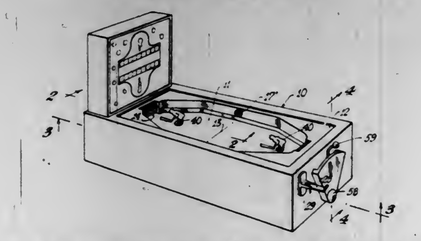
selector elements responsive to received signals, a plurality of printing members individually selectable by said selector elements, means for operating said printing members upon selection thereof, a plurality of electrical contacts adapted to be operated in accordance with the setting of said selector elements, normally disabled means for operating said electrical contacts, means controlled by said selector elements for conditioning said contact operating means to be operated, means for retaining said contact operating means in operative condition, means for disabling said printing member operating means, and means also controlled by said selector elements for releasing said retaining means to disable said contact operating means.

2,318,169

BALL REPROJECTOR

Pat La Rock, Chicago, Ill., assignor, by mesne assignments, to Chicago Coin Machine Co. (not inc.), Chicago, Ill., a copartnership composed of Samuel Gensberg, Dora Gensberg, Samuel Wolberg, and Eva Wolberg

Application July 10, 1941, Serial No. 401,712
3 Claims. (Cl. 273—85)



1. A game apparatus of the class described comprising a playing field inclined downwardly from a transverse medial line, motor driven means for elevating a predetermined number of balls one at a time to said playing field for gravitation theredown from said elevating means toward one end only of the playing field, ball batting means at opposite ends of the playing field, means including an electric circuit for simultaneously operating said ball batting means in one direction and a second circuit for simultaneously operating said ball batting means in an opposite direction and switch means including a manually operable oscillatory handle for controlling one or the other of said electric circuits whereby to reverse simultaneous operation of said ball batting means.

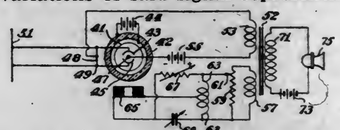
2,318,170

MODULATOR FOR HIGH FREQUENCY OSCILLATORS

Ernest G. Linder, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application September 30, 1938, Serial No. 232,661, now Patent No. 2,227,595, dated January 7, 1941, which is a division of application Serial No. 36,973, August 20, 1935, now Patent No. 2,139,238, dated December 6, 1938. Divided and this application June 1, 1940, Serial No. 338,325
13 Claims. (Cl. 179—171.5)

1. The method of modulating a magnetron oscillator having cathode and anode electrodes, means for producing a main magnetic field, and independent means for producing an auxiliary magnetic field at an angle to said main field, which comprises varying the intensity of said auxiliary field in accordance with variations in the amplitude of signal representing currents without varying said main magnetic field, applying voltages between the electrodes of said magnetron which vary in amplitude in accordance with variations of said signal representing currents, and adjusting the relative phase and intensity of the variations of said auxiliary field and said applied voltages so that said oscillation is modulated in a desired mode in response to said signal representing currents, and the modulation of oscillation in an undesired mode is minimized.

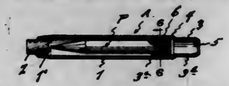


2,318,171

HOLDER FOR PENCILS AND THE LIKE

Joseph G. Lipic, Jr., St. Louis, Mo., assignor to Jos. Lipic Pen Co., St. Louis, Mo., a corporation of Missouri

Application April 22, 1942, Serial No. 440,000
3 Claims. (Cl. 120—9)



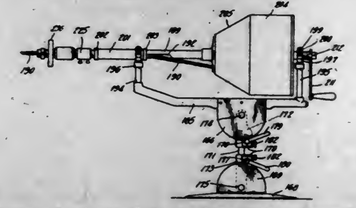
1. A holder for a pencil comprising a tubular body portion, and a tubular member adapted to have one or the opposite end portion thereof inserted into an end portion of said body portion for frictional engagement therewith and support thereby, said tubular member being open at one of its ends and being provided with an end wall portion at its opposite end which partially closes said end of said tubular member and in which an opening is formed which is of less diameter than the diameter of said tubular member, said tubular member being adapted to frictionally receive and support a pencil either in a position where said pencil extends from the open end of said tubular member or where a portion of said pencil extends through said opening in the partially closed end of said tubular member.

2,318,172

UNIVERSAL TOOL

Hugh Long, Los Angeles, Calif.

Application July 22, 1939, Serial No. 285,914
3 Claims. (Cl. 15—104.30)



3. In a device of the character described, a base, a standard pivotally supported by said base, means for optionally restraining said standard against angular motion about its pivot, a supporting structure pivotally mounted on top of the standard, about an axis parallel to the axis of the standard pivot on the base, said axis being in the same plane, means for optionally restraining said supporting structure against angualr

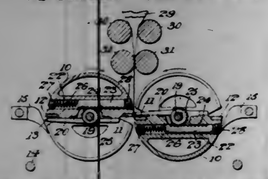
motion about its pivot, a hollow rotary spindle mounted on said structure, having an axis transverse to those of the pivots, and a snake cage rotatably supported on the spindle.

2,318,173

MEANS FOR CUTTING SHEETS OF DIFFERENT LENGTHS FROM TRAVELING WEBS

Hans J. Luehrs, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware

Application July 4, 1942, Serial No. 449,822
14 Claims. (Cl. 164—66)



14. A pair of rotary cutters for severing sheets of different lengths from a traveling web and delivering the sheets alternately in two directions, including sets of impaling pins for alternately engaging the web as the preceding sheets are severed therefrom, yieldingly mounted air cushioned supports for the sets of impaling pins, each support including a rock shaft, arms projecting therefrom and carrying the impaling pins, a slidable piston having a rack and sector connection with the rock shaft, a spring pressing on the piston and an air cushion for the piston, and devices for stripping the alternate sheets from their respective impaling pins and cutters.

2,318,174

DYESTUFFS OF THE ANTHRAQUINONE SERIES

Ralph N. Lulek, Wilmington, Del., and Edwin C. Buxbaum, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 25, 1940, Serial No. 347,486
5 Claims. (Cl. 260—316)

1. The water soluble sulfonation derivative of 4-benzoylamino-8-amino-1,2-anthraquinone-2',1'-naphthcarbazole which dyes wool and related fibers in gray shades of good fastness properties.

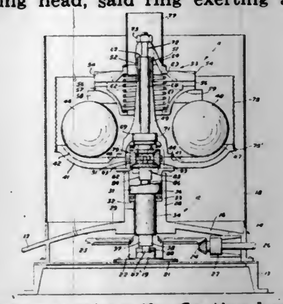
2,318,175

PULVERIZER MILL

Ernest E. Lynch, Alameda, Calif., assignor to Thomas P. Bacon, Sr., Oakland, Calif.

Application June 24, 1941, Serial No. 399,478
3 Claims. (Cl. 83—45)

1. A ball mill comprising a frame, a bowl journaled in the frame, a plurality of grinding balls mounted in the bowl, a column extended upwardly from the center of the bowl, a shaft extended through said column, a driving head secured to the upper end of the shaft, said head comprising a hub rigidly secured on the shaft, a plurality of arms formed on the hub and extending downwardly therefrom, a ring connecting the lower ends of the arms, a pair of lugs on the ring, a floating head disposed below the driving head and resting on the balls, said floating head having a central hollow hub with recesses formed in the upper end to receive the lugs on the driving head, and annular flange at the lower end of the hub and interiorly thereof to form an annular seat, a spring resting on said annular recesses and engaging the ring of the driving head, said ring exerting a yielding



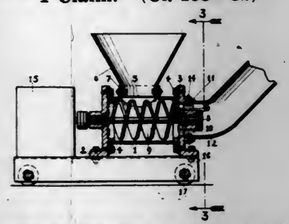
downward pressure on the floating head against the balls, and means for driving the bowl and the shaft extending through the column in opposite directions.

2,318,176

CONVEYER FOR SEMILIQUID MATERIALS

Aurelio Massano, Teaneck, N. J.

Application June 25, 1942, Serial No. 448,427
1 Claim. (Cl. 198—82)



In a conveyer system for semi-liquid material, the combination of a plurality of ejectors each of which comprises two bearing brackets, a horizontal cylinder having an intake opening in its side wall and being secured to said bearing brackets in such a manner that said intake opening is adapted to be positioned either at the upper or at the lower side of said cylinder, a discharge opening in one of said bearing brackets, a shaft carried by said bearing brackets, a spiral elevator blade section caried by said shaft intermediate the intake and discharge opening, an engine driving said shaft, and a truck having wheels and carrying said bearing brackets and said engine; with flexible tubes connecting the discharge opening of one ejector with the intake opening in the lower side of the cylinder of the next following ejector; and a hopper attached to the intake opening in the upper side of the cylinder of the primary ejector.

2,318,177

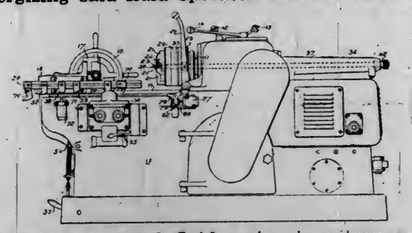
HYDRAULICALLY OPERATED COMBINED THREADING AND TURNING MACHINE

Samuel W. Mathias, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania

Application August 3, 1940, Serial No. 351,012
19 Claims. (Cl. 10—87)

1. In a cutting machine, a structure mounted for rectilinear movement; a fluid motor connected to said structure and operable to move it from an initial position to a final position; a valve for reversing the fluid flow in said fluid

motor; a fluid operated device for operating said valve; means automatically operable substantially when said structure attains said final position, for energizing said fluid operated device and caus-



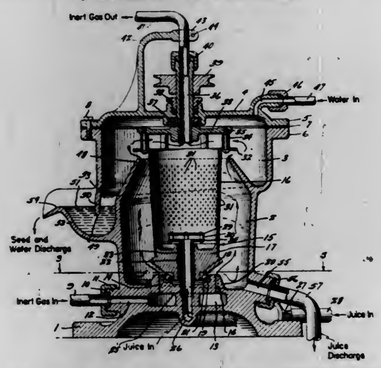
ing said valve and fluid motor to return said structure toward initial position; and means for automatically actuating said valve to arrest said structure in initial position.

2,318,178

METHOD OF EXTRACTING

Ronald B. McKinnis, Winter Haven, Fla., assignor, by mesne assignments, to Ronald B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla.

Application December 15, 1939, Serial No. 309,493
7 Claims. (Cl. 99—155)



1. A continuous process for preventing the oxidation of vegetable and fruit juices comprising the steps of separating the juice and seeds, discharging the juice in spray form, passing an inert gas through the juice whereby the oxygen is purged from the juice and discharging the seeds through a liquid seal.

2,318,179

GEAR FINISHING

Max B. Mentley, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan

Application June 26, 1939, Serial No. 281,278
9 Claims. (Cl. 90—1.6)



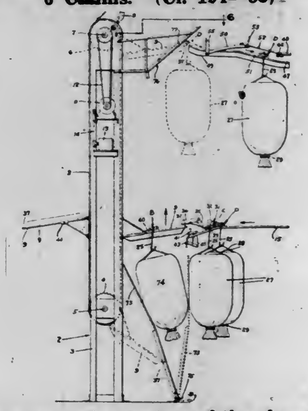
9. The method of finishing a gear which comprises meshing the gear with a conjugate gear-like finishing tool at crossed axes. rotating the gear and tool while in mesh, and solely guiding by one face only of the meshing tooth of the tool to compel the opposite face of the meshing tooth of the tool to cut the adjacent face of the adjacent tooth of the gear.

2,318,180

CONVEYING AND DISTRIBUTING SYSTEM

Guilford A. Morse, Minneapolis, Minn.

Application February 16, 1940, Serial No. 319,205
6 Claims. (Cl. 104—88)



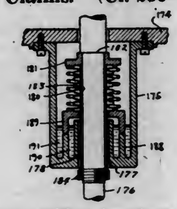
1. In a conveying system of the class described, a track of channel cross-section having an inclined section at its discharge end, a plurality of trolleys each comprising spaced carrying wheels adapted to travel on said track, an elevator at the discharge end of said track, means for controlling the delivery of trolleys onto the elevator comprising a rocker mounted adjacent to the upper end of the inclined track section and having laterally extending arms adapted to be alternately moved into the path of the trolleys on the inclined track section, thereby to temporarily intercept their downward movement thereon, an auxiliary stop member on said inclined track section spaced from said rocker in the direction of trolley travel and adapted to receive a trolley from the rocker and support it in position to be delivered onto the elevator, and means on the elevator for successively operating said auxiliary stop member and said rocker, whereby the trolleys are automatically delivered to the elevator, one at a time.

2,318,181

SUBMERSIBLE STRUCTURE

Thomas G. Myers, Los Angeles, Calif., assignor to U. S. Electrical Motors, Inc., Los Angeles, Calif., a corporation of California

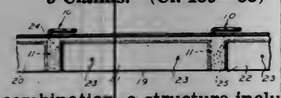
Application November 8, 1937, Serial No. 173,434
4 Claims. (Cl. 286—11)



1. In a submersible structure, a casing, a rotary shaft extending from the casing, an annular non-rotary cup, having an outer wall and an inner wall, surrounding the shaft, a rotary member having an annular surface in contact with

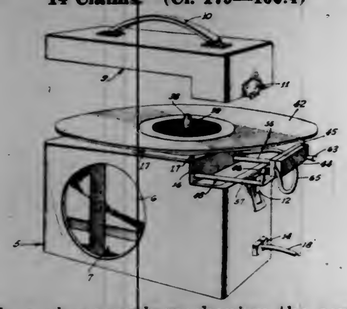
the outer wall of the cup, a metal bellows carried by the shaft and supporting said rotary member, and a liquid seal in the cup, overlapping the contacting areas.

2,318,182
FASTENER
Bion C. Place, Detroit, Mich., assignor of one-half to George E. Gagnier, Detroit, Mich.
Application October 20, 1938, Serial No. 236,079
5 Claims. (Cl. 189—88)



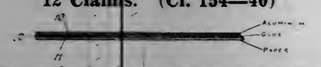
1. In combination, a structure including plates having flanges joined together so as to provide non-circular fastener receiving sockets at the joint between said plates, spring wire fasteners having U-shaped shanks engaged in said sockets from the unflanged side of said plates, a resilient arm extending laterally from one leg of the U-shape of each shank over the joint between said plates and a hollow molding having inturned flanges engaged beneath said arms.

2,318,183
PORTABLE PHONOGRAPH
Bruce Roberts, Los Angeles, Calif., assignor, by mesne assignments, to Radio Corporation of America, a corporation of Delaware
Application November 1, 1941, Serial No. 417,436
14 Claims. (Cl. 179—100.4)



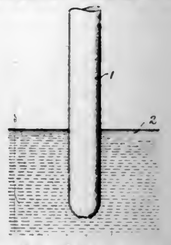
1. In a phonograph mechanism the combination of a turntable, a spindle, means for holding a record on said turntable, a carriage rectilinearly movable under said turntable, and a pickup unit mounted on said carriage, the stylus of said pickup being adapted to contact the groove in the underside of said record for moving said pickup substantially along a radius of said record.

2,318,184
LAMINATED SHEET AND METHOD OF PRODUCING SAME
Floricel A. Rojas, New York, N. Y., assignor of one-half to Walter H. Liebman, New York, N. Y.
Application January 18, 1936, Serial No. 59,681
Renewed April 3, 1940
12 Claims. (Cl. 154—40)



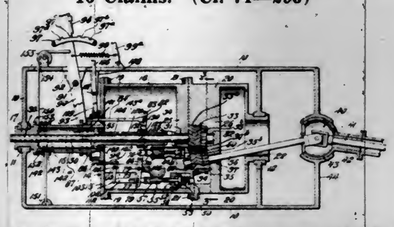
1. The method of connecting sheet aluminum with a sheet of cellulosic material which comprises subjecting the aluminum as an anode and at a current density of about five amperes per square foot to the action of an electric current in an electrolytic bath having an alkali metal hydroxide solution as electrolyte until adhering grease is removed and an active oxide coating is formed on the surface of said sheet aluminum, applying to the aluminum a coating of sodium silicate cement, applying a cellulosic sheet directly to the moist silicate coated surface, and drying the laminated structure at an elevated temperature but below the dehydration point of silicic acid, and under pressure.

2,318,185
CAP AND METHOD OF MAKING THE SAME
Leo Schreyer, Bratenahl, Ohio, assignor to International Elastit Corporation, a corporation of Ohio
Application November 16, 1939, Serial No. 304,874
11 Claims. (Cl. 18—47.5)



1. A method of making a cap which consists in forming the cap blank with an inner layer and an outer layer which is integral with said inner layer, said layers being of respectively different compositions, the major ingredient of each layer being gelatin, and treating said blank only at its outer surface with a fixing liquid which hardens the outer layer more than the inner layer, the outer layer having a larger proportion of gelatin than the inner layer.

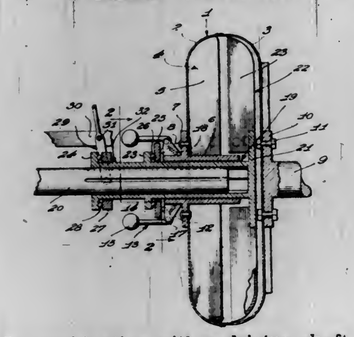
2,318,186
AUTOMATIC TRANSMISSION
George Schwarzbach, Brooklyn, N. Y.
Application January 3, 1942, Serial No. 425,496
16 Claims. (Cl. 74—293)



1. A change speed transmission comprising a driving shaft, a driven shaft, planetary gearing comprising a sun gear mounted on one of said shafts, a planet gear mounted on the other of said shafts and a floating rotatable housing carrying said gears mounted for rotation independent of both of said shafts, said housing having a closed gear chamber, said gears being mounted in said chamber to form a gear pump, inlet and outlet ports in said chamber arranged for the circulation of fluid by said gear pump, a pressure control valve to control the fluid pressure built up by said gear pump, a governor mechanism rotating with said housing and connected to control the operation of said valve so as to vary the fluid pressure built up by said gear pump in

accordance with the speed of rotation of said housing, said mechanism being so constructed and arranged that the speed of rotation of said housing, and the consequent fluid pressure, varies as a function of the speeds both of the driving shaft and of the driven shaft so that an increase in speed of the driving shaft causes an increased torque to be applied to the driven shaft and an increase in speed of the driven shaft increases the fluid drag on said gear pump until the gears become locked, with the driven shaft, the driving shaft and the housing rotating at the same speed, whereby the transmission ratio progressively decreases from a maximum through a continuous range to a condition of direct drive.

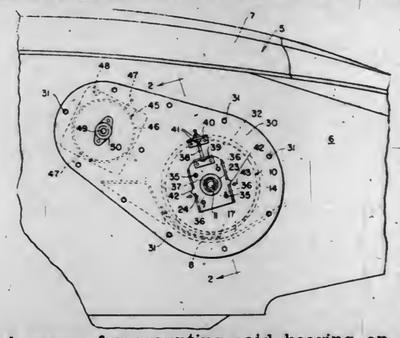
2,318,187
AUTOMATIC CONTROL FOR FLUID TRANSMISSIONS
Harry W. Addison, Jr., Marshall, Minn.
Application April 17, 1940, Serial No. 330,228
2 Claims. (Cl. 60—54)



1. In combination with a driving shaft and a driven shaft, a device of the class described including a casing to contain liquid and including sections, one of said sections being connected to the driving shaft and the other of said sections surrounding the end of the driven shaft, a driving sleeve carried by the other of said sections, a driving rotor in the casing and connected with the last mentioned section, a driven rotor, means connecting the driven rotor to rotate with the driven shaft and the driving sleeve, and means for automatically positioning the driven rotor with respect to the driving rotor whereby the maximum available driving power may be exerted as torque on the driven rotor, said last mentioned means including a weight pivotally mounted on the driving sleeve and engaging the driven sleeve for shifting the driven rotor toward the driving rotor, a spring urging the weight outwardly for positioning the driving sleeve and driven rotor in close proximity to the driving rotor at slow speed, said driving and driven rotors being shifted apart by shearing action of liquid in the casing at moderate speed, said weight shifting the driven rotor toward the driving rotor at high speed.

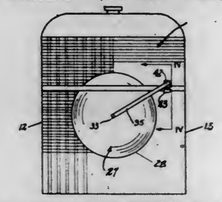
2,318,188
HARVESTING MACHINE
Ralph L. Anderson and Chester Ray Arnold, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Original application July 29, 1940, Serial No. 348,128. Divided and this application October 29, 1941, Serial No. 416,937
6 Claims. (Cl. 130—27)

1. In a harvesting machine having a body, a rotatable crop engaging device including a supporting shaft, a supporting bearing for said shaft, said body having an opening in one side large enough to receive said rotatable device during installation and removal thereof, a cover plate for said opening and having an opening larger than said shaft to receive the latter, means for fixing said cover plate to said body over said opening,



and means for mounting said bearing on said cover plate comprising a second plate attached to said bearing and disposed over the opening in said cover plate, said second plate being slidable on said cover plate throughout a range in which said second plate provides a closure for said cover plate opening, and means for fixing said second plate to said cover plate in adjusted position.

2,318,189
VEHICLE RADIATOR SHIELD
Morris Berman, Chicago, Ill.
Application May 24, 1941, Serial No. 395,044
4 Claims. (Cl. 257—132)

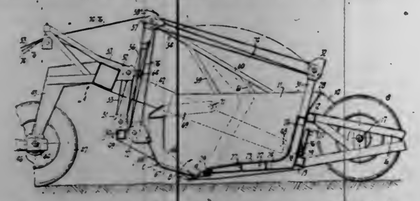


1. A radiator shield comprising a conical unreinforced member composed of thin sheet material that is normally not self-sustaining or form-retaining except for its shape, a bracket supported spring strap for engaging the apex of said conical member for supporting said member adjacent the front surface of a radiator to divert the air flow beyond said conical member.

2,318,190
EARTH MOVING EQUIPMENT
Leo Berner, San Jose, Calif., assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif., a corporation of Nevada
Application November 3, 1941, Serial No. 417,637
4 Claims. (Cl. 37—126)

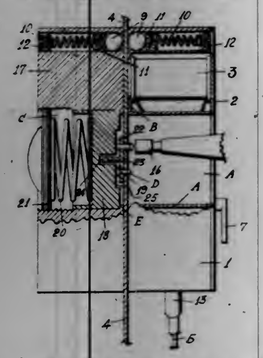
1. In an earth moving machine, a main bowl structure comprising spaced side walls and a forward earth cutting blade extending between the side walls, an expeller member forming a bottom wall for the main bowl structure, means forming a pivotal connection between the forward end of the expeller and the main bowl structure at a point adjacent to but rearwardly of the ground cutting blade, whereby the expeller

can be swung upwardly and forwardly from a normal load carrying position to a full discharge position beyond dead center, a pair of tension springs, and means serving to anchor one end of each spring to a point on the side of the bowl structure and the other end to a point on the expeller adjacent the center of the same, whereby said springs are tensioned when the expeller member is swung upwardly and forwardly.



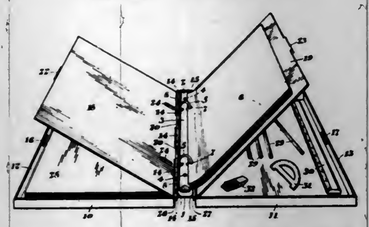
3. In an earth mover, a main yoke-like frame provided with rearwardly extending side arms, wheels serving to support the forward end of the main frame, a main bowl structure provided with spaced side walls, rear wheels serving to support the rear end of the main bowl structure, means forming pivotal connections between the rear ends of the side arms and the side walls of the main bowl structure, a rigid secondary frame carried by the main bowl structure, the secondary frame including structural members extending upwardly in vertical planes from the forward ends of the side walls, and guide rollers mounted upon the side arms and engaging the outer faces of said structural members, whereby said structural members and the entire bowl structure are held in alignment with respect to the main frame.

2,318,191
RIVETING MECHANISM
Sam Bloomfield, Wichita, Kans.
Application February 2, 1942, Serial No. 429,253
4 Claims. (Cl. 78—46)



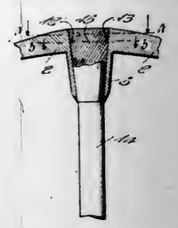
1. In a riveting mechanism, a dolly block and an electric magnetized structure to coact as means to secure interlapping aluminum sheets to snug engagement, said dolly block comprising a bucking head and means to cushion the same in the body of the dolly block, the magnetized structure being hollow and having a bottom and head oppositely disposed to enclose the hollow, said bottom and head having an opening centrally passing therethrough to register with the cushioned bucking head whereby rivets may be inserted through the said interlapping portions of the sheets and set by a pneumatic riveting tool operating through said opening, and means for the electric magnetized structure to vary the power of magnetic attraction for the purpose specified.

2,318,192
COMBINATION LOOSE LEAF NOTEBOOK, PAPER CONTAINER, AND ACCESSORY KIT
Jacob Boelema, Jr., Grand Rapids, Mich.
Application March 20, 1942, Serial No. 435,458
7 Claims. (Cl. 281—31)



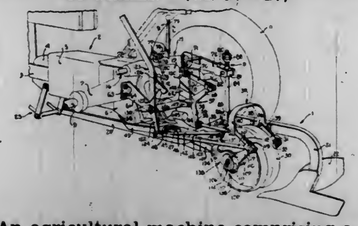
2. In a structure of the class described, a binder back having a binding device mounted thereon comprising a plurality of binding rings adapted to hold loose leaf sheets, a pair of shallow box-shaped binder covers hingedly connected to said binder back at opposite sides thereof, and a pair of box lids hingedly connected to the binder back at opposite sides thereof and to the adjacent binder covers respectively, said box lids each being provided with a plurality of voids in registry with the rings of the binding device so that when the binder is open and the binder covers lie flat, the box lids may be rotated more than ninety degrees and past the binding rings.

2,318,193
PICK
Martin Branham, Pound, Va.
Application October 3, 1941, Serial No. 413,552
1 Claim. (Cl. 306—32)



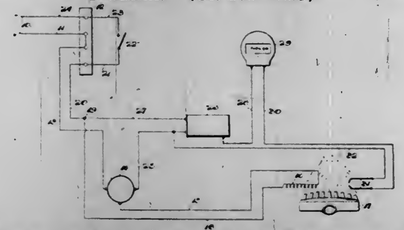
A tool of the class described comprising a handle having an enlarged downwardly tapered upper portion, a head having a correspondingly tapered handle receiving socket and provided with an integral downwardly tapered depending skirt entirely surrounding the adjacent enlarged portion of the handle beneath said head, the opposite side walls of the socket being provided with pairs of inwardly extending integral prongs and the opposite end walls thereof with prongs arranged at substantially right angles to the pairs of prongs and disposed in a plane below the plane of said pairs of prongs, said prongs engaging the enlarged portion of the handle for locking the head on the handle, the enlarged portion of the handle cooperating with the tapered wall of the socket for providing an additional means for preventing outward displacement of the head from the handle.

2,318,194
AUTOMATIC DEPTH CONTROLLING MECHANISM
Theophilus Brown, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 20, 1939, Serial No. 300,371
39 Claims. (Cl. 97—47)



1. An agricultural machine comprising a tractor, a ground working tool movable relative thereto, ground engaging means separate from the tractor and movable along the ground surface with the tool for supporting said tool at various depths of operation, and means responsive to a change in the position of said tool relative to the ground and including a part on the tractor for shifting said ground engaging means relative to the tool for the purpose of keeping the latter in operation at a substantially constant depth.

2,318,195
IGNITION SYSTEM
Paul E. Cate, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a corporation of Delaware
Application November 1, 1939, Serial No. 302,409
1 Claim. (Cl. 175—115)

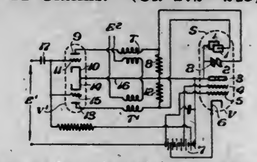


In an ignition system for a gas burner, gas ignition means located in position to ignite gas flow from said burner, a source of electricity, a relay for connecting said gas ignition means with said source of current to control the flow of current through said gas ignition means, and means for blocking the flow of current through said relay to effect the opening of the circuit through said gas ignition means when said burner is ignited including a resistance coil always connected in series with the coil of said relay, said resistance coil being subjected directly to the heat of the burner flame when the gas is ignited and responsive only to the presence or absence of the burner flame, said resistance coil determining the current flow to said relay to determine the operation of said relay in controlling the flow of current to said gas ignition means, said resistance having a high temperature coefficient of resistivity to substantially block the flow of current through said relay, to open the circuit through said gas ignition means and thereby discontinue operation of the same, when said resistance is heated by the existence of a gas flame at said burner, and said resistance coil reestablishing the flow of current through said relay and effecting the reactuation of said gas ignition means automatically when said resistance coil is cooled upon extinguishment of the burner flame.

2,318,196
TREATMENT OF HYDROCARBONS
Joseph A. Chenicek, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 28, 1941, Serial No. 404,388
15 Claims. (Cl. 44—63)

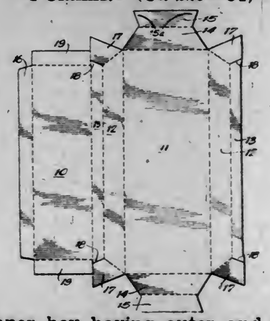
1. A method for stabilizing hydrocarbon distillates normally tending to form gum which comprises adding thereto a gum inhibitor and a small but sufficient amount of an aminopyridine to increase the potency of said inhibitor.

2,318,197
VISUAL INDICATOR
William Russell Clark, Abington, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 5, 1942, Serial No. 441,823
11 Claims. (Cl. 172—245)



1. A system for visually indicating the phase relation between two alternating voltages of the same frequency and/or the magnitude of one of them which comprises a cathode-ray tube having at least one means for deflecting the cathode-ray, a rectifier system including a controlled rectifier, means for impressing said voltages upon the grid and anode circuits respectively of said rectifier system, and means for energizing said deflection means in accordance with the resulting unidirectional current in the anode circuit of said rectifier system.

2,318,198
ANGULAR-WALLED CARTON
John D. Clarke, Chicago, Ill., assignor to Chicago Carton Company, Chicago, Ill., a corporation of Delaware
Application June 26, 1939, Serial No. 281,144
4 Claims. (Cl. 229—34)



1. A paper box having outer and inner bottom, side and end walls, the outermost side walls being inclined upwardly and inwardly from the periphery of the outer bottom wall, the inner side

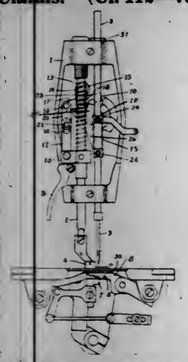
walls extending downwardly from the upper edges of said outer walls and being connected to the inner bottom wall, said outer side walls having end flaps folded inwardly and disposed in planes extending upwardly and inwardly from approximately the end edges of said outer bottom wall, said outer and inner end walls being folded around said inwardly folded flaps so as to cause said outer end walls to assume an upwardly and inwardly inclined position, and the inner bottom member having end flaps extending upwardly adjacent said end walls.

2,318,199
UNDERGARMENT FOR HORSEBACK RIDING
Roy W. Clements, Grand Rapids, Mich., assignor to Globe Knitting Works, Grand Rapids, Mich., a corporation of Michigan
Application February 3, 1941, Serial No. 377,219
2 Claims. (Cl. 2—224)



1. An undergarment comprising a body portion and leg portions, a gusset inserted in the inner sides of said leg portions and extending from the crotch to a point appreciably below the knee, said gusset being seamless and unbroken at said inner leg portions, and comprising two parts seam joined from front to rear at their adjacent upper side edges.

2,318,200
AUTOMATIC CUTOFF FOR SEWING MACHINES
Joseph Cobble and Albert Cobble, Chattanooga, Tenn., assignors, by direct and mesne assignments, to Gerhardt H. Rauschenberg, Dalton, Ga.
Application April 11, 1940, Serial No. 329,114
15 Claims. (Cl. 112—79)

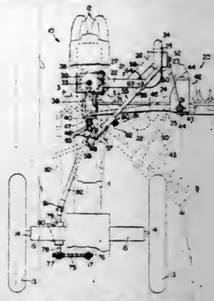


1. A method of clipping the normally unclipped loops held by a tufting machine looper hook comprising simultaneously disconnecting the needle from the needle drive shaft and raising the presser foot, maintaining the needle in a raised position, continuing the operation of the feed dogs to carry the unclipped loops along the looper hook, continuing the operation of the cutter blade until all loops are clipped.

2,318,201
MOTHPROOFING COMPOSITION
Wallace Colman and Herbert L. J. Haller, Washington, D. C., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America and to his successors in office
No Drawing. Application December 2, 1941, Serial No. 421,333
11 Claims. (Cl. 167—37)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A moth-proofing agent comprising isonitrosoacetanilide.

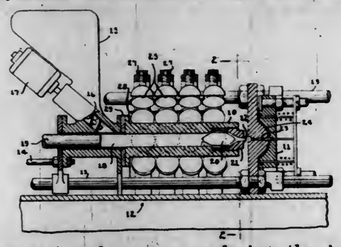
2,318,202
TRACTOR MOWER
Nolan D. Colvin and Carl J. Frederiksen, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 430,908
14 Claims. (Cl. 56—25)



1. In combination with a tractor having a body mounted on front and rear wheels, a mower comprising a supporting member pivotally mounted on said body intermediate said front and rear wheels for swinging movement relative thereto and having a forwardly extending portion, a ground wheel journaled near the outer end of said portion for supporting the latter, a cutter bar having an arm swingably connected to said member for vertical swinging movement and a draft link connected with said cutter bar and extending forwardly to said forwardly extending portion of the supporting member, and latch means securing said supporting member and cutter bar in normal operating position, said latch means being releasable when the cutter bar encounters an obstruction during operation, permitting said supporting member and cutter bar to swing rearwardly.

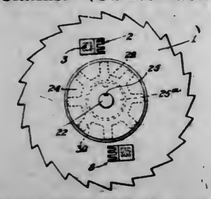
2,318,203
PLASTIC INJECTION MACHINE
Melvin A. Crosby, Dayton, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del., a corporation of Delaware
Application July 19, 1939, Serial No. 285,421
4 Claims. (Cl. 18—30)

2. An apparatus for injection molding thermoplastic and thermosetting materials having a cylinder into which the materials are fed by a feeding mechanism for heating within the cylinder until the materials are softened sufficiently to permit ejection thereof from the cylinder by means of a plunger which reciprocates within the cylinder characterized by; infra-red ray



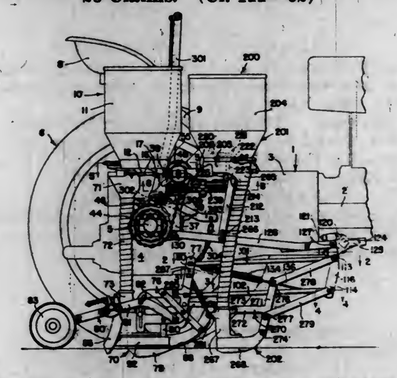
transparent wall means enclosing the injection cylinder and spaced therefrom to provide a closed chamber, a fluid in said chamber, and infra-red radiating lamps positioned circumferentially and longitudinally about said wall means.

2,318,204
ESCAPEMENT TYPE SWITCH
Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 5, 1942, Serial No. 429,655
15 Claims. (Cl. 179—27.51)



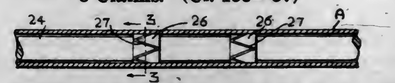
1. In an escapement switch, a ratchet wheel, wipers projecting at least from one face of said wheel, a bank of contacts cooperating with said wipers, and a guide engaging the ratchet wheel near the periphery thereof.

2,318,205
PLANTING AND FERTILIZING MEANS
Orville F. Dremman, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 29, 1939, Serial No. 311,586
28 Claims. (Cl. 111—62)



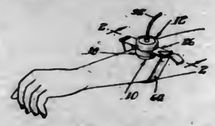
1. An agricultural implement comprising a frame, planting mechanism including a furrow opener movably connected with said frame, a fertilizer attachment including a fertilizer furrow opener disposed adjacent said first furrow opener, means connecting said fertilizer furrow opener with said frame for movement relative to said first furrow opener, and means acting between said furrow openers for opposing movement of one relative to the other, whereby the position of one furrow opener serves to control the position of the other.

2,318,206
APPARATUS FOR TREATING LIQUIDS FLOWING THROUGH HEATED TUBES
Gustav W. Eisenlohr, Wyoming, Ohio, assignor to The M. Werk Company, St. Bernard, Ohio, a corporation of Ohio
Application June 17, 1940, Serial No. 341,036
8 Claims. (Cl. 138—37)



1. Apparatus adapted to increase the efficiency of heat transfer to liquid flowing through a heated tube and to provide turbulence zones in the flowing liquid, said apparatus comprising in combination a tube for receiving and transferring heat to liquid flowing therein, a choke rod which is positioned within the tube and which is of slightly less diameter than the inside diameter of the tube to provide an annular space which restricts liquid flow to a thin film between the tube and rod, a pair of spaced cylindrical members on said rod presenting surfaces closely fitting the inner wall of the tube, said members being provided with passages adjacent their periphery through which liquid can flow in separate thin streams from the thin annular space at one side of said pair of members into the thin annular space forming a turbulence zone between the members of said pairs, and from said last mentioned space to the thin annular space at the other side of said members.

2,318,207
ELECTRODE
Francis C. Ellis, Chicago, Ill.
Application April 7, 1941, Serial No. 387,169
6 Claims. (Cl. 128—404)



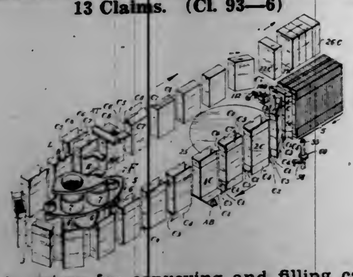
5. An electrode assembly of the class described comprising a housing, contact electrode means shiftable longitudinally of said housing in a predetermined path and presenting a contact surface outwardly of one extremity of the housing, said contact electrode means having an extension projecting longitudinally through said housing, a retaining means yieldably engaging said extension, said housing having a recess adapted to receive said retaining means, yieldable means acting on said contact electrode to urge said electrode outwardly of its extremity of the housing, said contact electrode means and extension being yieldably movable against said tension to a position where the retaining means is spaced from its recess and in a position adapted to be manually engaged and released from said extension.

2,318,208

CARTON FEEDING AND FILLING SYSTEM

George B. First and Hans Grotewold, Philadelphia, Pa., assignors to Stokes and Smith Company, Summerdale, Pa., a corporation of Pennsylvania

Application November 16, 1939, Serial No. 304,678
13 Claims. (Cl. 93—6)



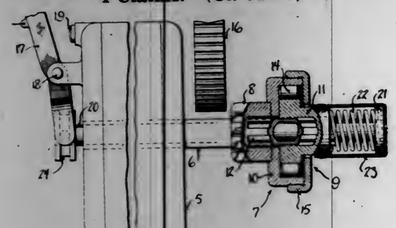
1. A system for conveying and filling cartons comprising means for removing flattened cartons from a stack thereof, an endless conveyor cooperating with said means to open the cartons, means for filling the opened cartons during their transport by said conveyor, and means responsive to the amount of filling in an opened carton for interrupting operation of said carton-removing means and ineffective to preclude continued operation of said conveyor.

2,318,209

MANUALLY ENGAGED ENGINE STARTER

John W. Fitz Gerald, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware

Application June 25, 1941, Serial No. 399,579
4 Claims. (Cl. 74—6)



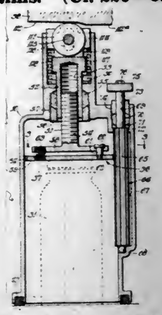
1. In an engine starter of the character described: a hollow drive shaft; a pinion loosely mounted thereon; an overrunning clutch comprising complementary members, one of which is connected to the pinion; a splined driving connection between the shaft and the other clutch element; a rod slidable within the hollow drive shaft and protruding from the end thereof adjacent to the clutch and pinion; an abutment on the exposed end portion of the rod; a compression spring confined between said abutment and the adjacent end of the second designated clutch element so that a pull on the rod yieldingly imparts a push on the assembled clutch and pinion to move the pinion toward its operative driving position with a yielding force to compensate for interruptions with the advance of the pinion; and a shell carried by said second designated clutch element and enclosing the protruding end of the rod and said spring and engageable with the abutment on the rod to limit expansion of the spring and enable the application of endwise force on the clutch and pinion in the opposite direction by a push on said rod.

2,318,210

JAR SEALING DEVICE OR THE LIKE

Joseph R. Fleisch, Oak Park, Ill., assignor to The Aridor Company, Chicago, Ill., a corporation of Illinois

Application March 13, 1942, Serial No. 434,473
5 Claims. (Cl. 226—82)



5. In a jar sealing device or the like embodying a bell and mechanism including a turntable for raising and lowering the bell, the combination with a base for the turntable, of an overhead track carried by the base, a plunger carried by the bell, said plunger having a part within the bell adapted to engage a container to be sealed therewithin and a part extending above the bell adapted to engage the track to depress the plunger, and means carried by the bell including a manually operable member on the exterior of the bell for adjusting the overall length of the plunger to vary the normal height of the plunger within the bell while permitting vertical movement thereof during said adjustment.

2,318,211

STABILIZATION OF STYRENE

Stanley George Foord, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

No Drawing. Application November 14, 1940, Serial No. 365,656. In Great Britain December 24, 1937
3 Claims. (Cl. 260—669)

1. A process for treating styrene which comprises preserving said styrene from polymerization for storage purposes by adding to the styrene an amount of hexamine, said amount being more than will dissolve in the styrene, and mechanically removing when it is desired to use said styrene in polymerized form undissolved hexamine prior to polymerization of the styrene.

2,318,212

STABILIZATION OF STYRENE

Stanley George Foord, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

No Drawing. Original application December 14, 1937, Serial No. 204,975. Divided and this application November 14, 1940, Serial No. 365,657. In Great Britain December 24, 1937
5 Claims. (Cl. 260—669)

1. A process of inhibiting styrene against polymerization which comprises adding hydroxylamine hydrochloride to the styrene.

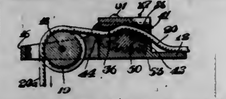
2,318,213

ROPE SNUBBER

Joseph P. Fox, St. Cloud, Minn.

Application May 22, 1942, Serial No. 444,127
1 Claim. (Cl. 24—136)

A rope snubber comprising a housing including a top and a base plate, said base plate having a forward extension, the forward extension being in the form of a loop, a pulley rotatably mounted in the loop for supporting a rope, said housing being open at its opposite ends to receive said rope therethrough, the base plate within the housing having an inclined portion provided with transverse teeth, a roller in the housing having longitudinal teeth meshing with the transverse



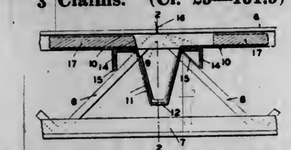
teeth, the inner wall of the top of the housing having a cam cooperating with the upper end of the inclined portion to provide a restricted passage for the rope adjacent the forward end of the base plate, said roller adapted to be drawn upwardly over the inclined portion when tension is exerted on that portion of the rope which is supported by the pulley so that the rope will be wedged between the toothed roller and the cam.

2,318,214

FORM FOR CASTING CONCRETE FLOOR BEAMS

Bengt F. Friberg, St. Louis, Mo., assignor to Laclede Steel Company, St. Louis, Mo., a corporation of Missouri

Application July 3, 1939, Serial No. 282,619
3 Claims. (Cl. 25—131.5)



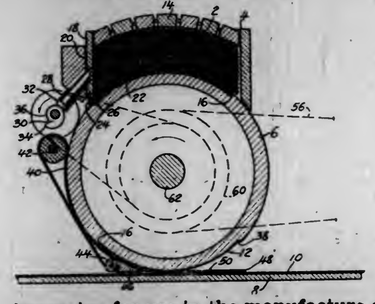
1. Forming means for concrete beams in a steel truss and concrete floor structure, which means comprises a bridging form composed of a plurality of units extending between the trusses, each unit being formed of telescoping trough-shaped members and having beveled ends, the beveled ends of adjacent units overlapping to form a continuous trough and also to provide lateral truss passages, and means for supporting the bridging form in transverse relation to the floor trusses.

2,318,215

METHOD AND MEANS FOR PRODUCING INLAID LINOLEUM

Fred W. Gans, Trenton, N. J., assignor to Sloane Blabon Trenton, N. J., a corporation of New Jersey

Application March 20, 1941, Serial No. 384,241
19 Claims. (Cl. 154—22)



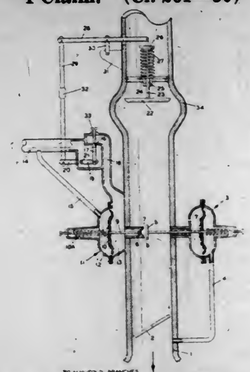
1. Apparatus for use in the manufacture of inlaid linoleum products, comprising a hopper for receiving a stack of design elements, a device movably mounted beneath said hopper in position to engage the lowermost element in the stack, means for positioning elements with respect to said device and serving to remove the lowermost element from the stack on movement of the device, means for moving a web of backing material beneath said device in position to receive elements therefrom, and variable means for regulating the speed of movement of said device with respect to the speed of movement of said web of backing material to cause said elements to be deposited on said backing material in alternatively spaced locations longitudinally thereof.

2,318,216

VARIABLE FUEL ORIFICE CARBURETOR

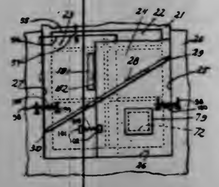
Owen L. Garretson, Detroit, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 21, 1942, Serial No. 439,872
1 Claim. (Cl. 261—50)



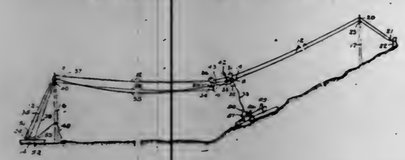
A charge forming device for internal combustion engines having a source of fuel under superatmospheric vapor pressure comprising an air intake conduit, a fuel passage connecting the air intake conduit with the source of fuel, a primary variable fuel valve controlling the flow rate of fuel in said passage, a secondary variable fuel valve in said fuel passage downstream of the primary fuel valve and controlling the discharge of fuel into the intake conduit, a pressure responsive valve in said intake conduit operably connected with the primary fuel valve, a spring normally urging said pressure responsive valve closed, said spring being under a sufficient degree of compression to maintain a substantially constant pressure differential across said valve irrespective of the rate of airflow through said air intake conduit, so that movement of the pressure responsive valve produces a corresponding movement of the primary fuel valve proportional to the rate of air-flow through said air intake conduit, a pressure responsive diaphragm operably connected with the secondary fuel valve communicating on one side with the fuel passage upstream of the primary fuel valve and on the opposite side with the fuel passage downstream of said primary fuel valve and spring means opposing the pressure exerted on said last diaphragm by fuel upstream of the primary fuel valve, to maintain a substantially constant pressure differential across said primary fuel valve, so that movement of said pressure responsive valve in response to air-flow produces a proportional flow of fuel through said passage by actuation of the primary fuel valve.

2,318,217
HEAT-SAVING AND/OR BLACK-OUT WINDOW SHIELD
Isaac Goldmerstein, New York, N. Y., assignor of thirty-five per cent to George A. Rubissow, New York, N. Y.
Application February 22, 1943, Serial No. 476,694
20 Claims. (Cl. 160—354)



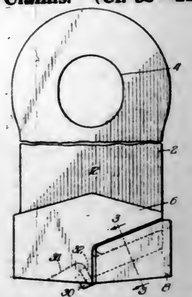
1. In combination with a window having a frame, a heat-saving shield comprising two overlapping shield-parts, the overlapping one and the overlapped one, at least one of said shield-parts being provided with at least one fold preferably parallel to the longitudinal axis of said shield, at least one stopper being provided on one of said shield-parts to contact the edge of the other of said shield-parts, at least one fastening bar with fastening means provided to attach the said shield-parts to said frame.

2,318,218
LOGGING APPARATUS
Philip Grabinski, South Prairie, Wash.
Application July 21, 1942, Serial No. 451,809
4 Claims. (Cl. 212—90)



1. In apparatus of the class described, sheave means; a driven receding line drum; carriage means; a receding line operative in spaced relation above the ground and connected at one end portion to said receding line drum, passing through said sheave means, and connected at its other end portion to said carriage means; a driven skidding line drum; a skidding line operative in spaced relation above the ground and connected at one end portion to said skidding line drum; first sheave means on said carriage means; a driven slack pulling drum; a slack pulling line operative in spaced relation above the ground and connected at one end portion to said slack pulling drum, passing through said first sheave means, and connected at its other end portion to said skidding line; second sheave means carried by said carriage means and mounted for traveling movement on said receding line, whereby said carriage means is supported by and for traveling movement on said receding line by said second sheave means and is also supported jointly by said receding and skidding lines connected thereto; third sheave means carried by said carriage means; and a tong line passing through said third sheave means and connected to the other end portion of said skidding line, whereby said slack pulling line will provide slack in said tong line.

2,318,219
RENEWABLE TIP PULVERIZER HAMMER
Leonard T. Harris, Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application August 7, 1940, Serial No. 351,740
9 Claims. (Cl. 83—11)



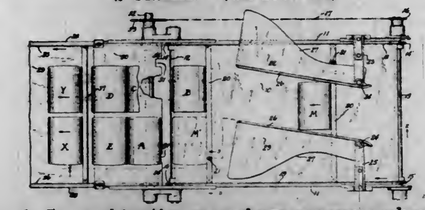
1. A hammer for a centrifugal device, comprising an arm member having means adjacent one end thereof for connecting the same to operating mechanism and having at its other end a tongue laterally disposed with respect to the longitudinal axis of said arm, a renewable tip having a facing wall and connected side and end walls to provide open faces in opposed relation to said facing and end walls forming a member of box-like construction embracing said tongue with its end wall in abutting relation to the end of said tongue and having means providing a dovetailed interlock therewith, one of said members of said hammer having a shoulder, and the other of the members of said hammer having a lug normally disengaged from said shoulder during assembly but bendable into engagement therewith to prevent displacement of said tip with respect to said arm.

2,318,220
FLOATING OIL FILTER
Willis E. Haselwood, Elkhart, Ind., assignor to Charles E. Taylor and Harry E. Lerner, both of Elkhart, Ind., copartners, doing business as Taylor Sales Engineering Co.
Application October 2, 1940, Serial No. 359,306
8 Claims. (Cl. 210—97)



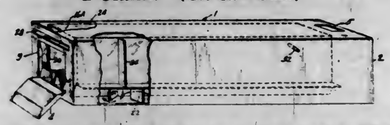
1. A joint construction for a floating oil filter adapted for connection with an oil pump, comprising a tube adapted for connection with said pump and bent to provide a normally substantially horizontal straight end portion of thin wall section, a sheet metal abutment member secured to said tube and including a projection of substantially U-section, a second tube fitting snugly and rotatably in the end portion of said first tube and having an annular enlargement against which the end of said first tube bears, and a member fixedly carried by said second tube and having spaced projections disposed on opposite sides of said abutment and spaced apart a distance greater than the width of said abutment, said projections being engageable with opposed walls of said abutment member.

2,318,221
FRACTIONAL WRAPPED LOAF ASSEMBLING AND ALIGNING DEVICE
William A. Hayssen and David R. Horwitz, Sheboygan, Wis., assignors to Hayssen Manufacturing Company, Sheboygan, Wis., a copartnership consisting of William Hayssen, Jane P. Hayssen, and Marie Hayssen Perry
Application March 4, 1939, Serial No. 259,716
2 Claims. (Cl. 198—31)



1. In combination, a package conveyor whereon fractional packages are originally advanced in rectilineal order, said conveyor including spaced, movable flights, a pair of deflector members associated with a portion of the conveyor for shifting the successive advancing packages into staggered relationship on other portions of the conveyor, said deflectors being pivotally mounted relative to the conveyor and having a package receiving space therebetween in the line of travel of the rectilineally arranged packages, and means carried by flights of the conveyor for alternately swinging said deflectors upon the entrance therebetween of each successive package, first toward one side of the conveyor and then toward the other side of the conveyor.

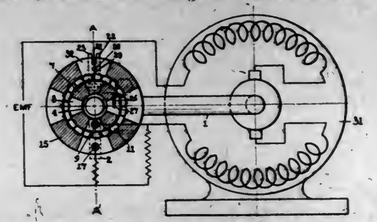
2,318,222
REFRIGERATION APPARATUS
Glenn D. Heisler, Portland, Oreg., assignor to Carbonic Control Corporation, Portland, Oreg.
Application May 6, 1941, Serial No. 392,152
1 Claim. (Cl. 62—91.5)



Portable refrigeration apparatus comprising, a metallic dry-ice chamber the bottom of which is corrugated and the remaining surfaces of which are planar to provide realtively greater and lesser heat absorbing capacities respectively, a casing and partitions between which and the dry-ice chamber are formed a series of sequentially connected ducts adjacent the dry-ice chamber terminating in an inlet orifice to admit air from the refrigerated space to initial contact with the said surfaces other than the bottom of the dry-ice chamber at one end and in an outlet orifice adjacent the bottom of the dry-ice chamber at the other end, a duct mounted to communicate with said outlet orifice extending upwardly within the refrigerated space, power blower means to impel an air current through the ducts from inlet to outlet, and temperature sensitive control means within the refrigerated space to govern the operation of the blower means.

2,318,223
CIRCUIT CONTROL DEVICE
William Hotine, Westbury, N. Y.
Application November 14, 1939, Serial No. 304,315
24 Claims. (Cl. 171—222)

14. An electric control comprising a first commutator, an inner formed plate of conducting material on an end face thereof having an unbroken zone adjacent the commutator axis and equal spaced projections at the portion remote from said axis, each projection and each interstice subtending the same central angle, a continuous band of insulating material about the outer periphery of said inner plate, an outer formed plate on conducting material on said end face having integral spaced portions meshing with the interstices of the inner plate insulated therefrom by said continuous band and having an unbroken zone remote from said axis, a spatially fixed first brush continuously engaging successive projections of the inner and outer plates alternately, a spatially fixed second brush continuously engaging the unbroken zone of the inner plate, a spatially fixed third brush continuously engaging the unbroken zone of the outer plate, an annular ring rotatably supported on said first commutator and having a flywheel effect, a second commutator disposed on an end face of said ring and constituted of an inner and an outer conductive plate insulated from each other and having meshing projections equal in number to and subtending the same central angle

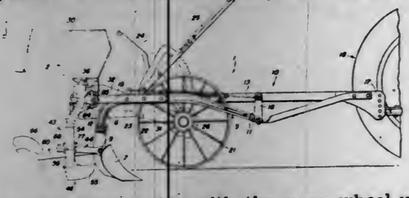


as those on the first commutator plates and having the same unbroken zones respectively, a fourth spatially fixed brush continuously engaging successive projections on the inner and outer plates of the second commutator alternately, a fifth spatially fixed brush continuously engaging the unbroken zone of the inner plate of the second commutator, a sixth spatially fixed brush continuously engaging the unbroken zone of the outer plate of the second commutator, a conductive first connector between said third and fifth brushes, a second electrical connector connecting said second and sixth brushes, a pair of series connected resistances in shunt of said second connector, a tap connecting the junction point of said resistances to the first connector, an electric circuit connected to said first and fourth brushes, a motor for driving said first commutator, a centrifugal force governor on said first commutator, an arm on said first commutator actuatable by said governor and having a forked non-pivoted end, a projection on said annular ring cooperating with the prongs of said forked end, and a spring connecting said annular ring projection and governor at the pivoted region thereof.

2,318,224
LISTER
William A. Hyland, Horicon, Wis., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application April 8, 1940, Serial No. 328,470
19 Claims. (Cl. 111—83)

1. A planting implement comprising a furrow opener unit, a press wheel unit, means connecting said units so that the furrow opener unit may move upwardly but is prevented from moving downwardly relative to the press wheel unit

whereby the depth of operation of the furrow opener unit is gauged by said press wheel unit,



and means connected with the press wheel unit for raising both of said units.

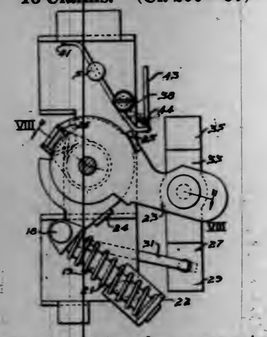
2,318,225
PRODUCTION OF ISOBUTANE
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 30, 1936, Serial No. 103,383. Divided and this application March 16, 1942, Serial No. 434,903
5 Claims. (Cl. 260—683.5)

1. A process for producing isobutane which comprises subjecting normal butane to the action of an iron halide under conditions and in the presence of an amount of hydrogen halide such that isomerization of normal butane constitute the principal reaction of the process.

2,318,226
PRODUCTION OF ISOBUTANE
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Original application September 30, 1936, Serial No. 103,383. Divided and this application March 16, 1942, Serial No. 434,904
3 Claims. (Cl. 260—683.5)

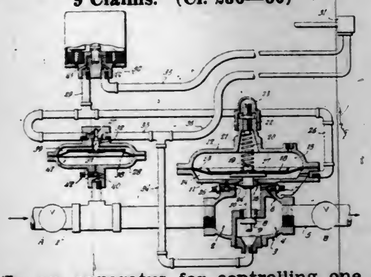
1. A process for producing iso-butane which comprises subjecting normal butane to the action of boron fluoride in the presence of metallic nickel under conditions and in the presence of an amount of hydrogen halide such that isomerization of normal butane constitutes the principal reaction of the process.

2,318,227
CIRCUIT BREAKER
John G. Jackson, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application March 13, 1941, Serial No. 383,068
18 Claims. (Cl. 200—67)



1. Electric circuit breaker apparatus comprising an outer enclosing box, an automatic electric circuit breaker within said box including an enclosure, relatively movable contacts and manual and automatic means for actuating said contacts within the enclosure, and an operating handle projecting through the enclosure and disposed within the box, a manual operating handle at the exterior of the box, overcenter spring operating mechanism for effecting movement of the interior operating handle in response to movement of said exterior manual operating handle, and means for slowing up the speed with which the initial movement of the interior operating handle is effected by said overcenter spring operating mechanism over the speed with which the interior operating handle would normally be moved by said operating mechanism.

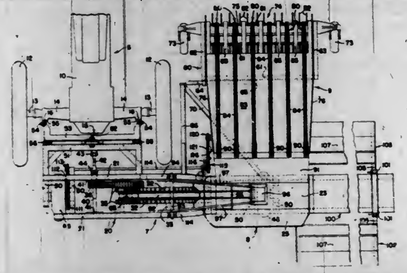
2,318,228
CONTROL MEANS FOR HEATING DEVICES
Edwin A. Jones, Shorewood, Wis.
Application May 25, 1940, Serial No. 337,133
9 Claims. (Cl. 236—80)



1. In an apparatus for controlling one fluid ingredient of a combustible mixture, a fuel line, a main valve in the line, a modulating regulator having a valve for controlling said fluid and having motor means including a pressure chamber provided with a movable wall for operating said valve, said modulating regulator having an inlet and an outlet, time delay means having an open and a closed position for respectively establishing communication between the pressure chamber and the outlet side of said modulating regulator and for interrupting said communication, said time delay means being biased towards open position and after a predetermined interval of time moving to closed position upon the establishing of fluid flow through said modulating regulator, said time delay means having a movable wall one side of which is subjected to pressure from the inlet side of said modulating regulator and the other side of which is subjected to pressure from the outlet side of said modulating regulator, and constricting means for constricting the free flow of fluid for actuating said time delay means to produce the time delay, said time delay means being set in operation upon opening of the main valve, and condition responsive means for varying the relative pressure on opposite sides of said movable wall to control said modulating regulator.

2,318,229
WINDROW PICKUP PRESS
Frank D. Jones, Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a corporation of Iowa
Application August 23, 1939, Serial No. 291,532
9 Claims. (Cl. 100—25)

5. In combination with a tractor, an implement frame mounted on the rear of the tractor and extending laterally to one side thereof, a crop receiving chamber carried on said laterally extending portion of the frame, a pick-up device extending forwardly from said chamber alongside the tractor, the front end of said pick-up device being positioned ahead of the rear wheels



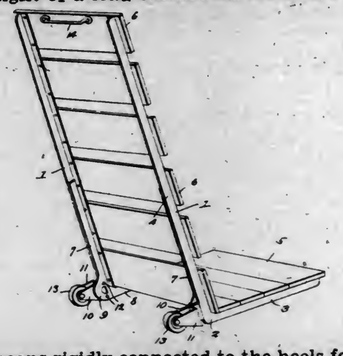
of the tractor, and crop treating mechanism mounted on said frame directly behind said tractor transverse to the direction of forward travel, said mechanism being operative to treat the crop collected in said receiving chamber and to move said crop laterally out of the chamber.

2,318,230
ELECTRIC PLUG
Howard B. Jones, Evanston, Ill.
Application May 2, 1940, Serial No. 332,862
4 Claims. (Cl. 173—361)

3. In combination, a dielectric base and a plurality of metallic plug elements readily removably mounted therein, each held in place by a screw entering the base from a side edge of the base, and a hood overlying the assembly of base and plugs and removably connected to the base by holding means engaging the said side edges of the base, said hood overlying said plug-holding screws, said hood being composed of a body portion having a permanent end wall at one end and at its other end a sleeve for the reception of wires adapted to be connected to said plug elements, said hood with its fixed end wall being removable as a unit vertically from the base.

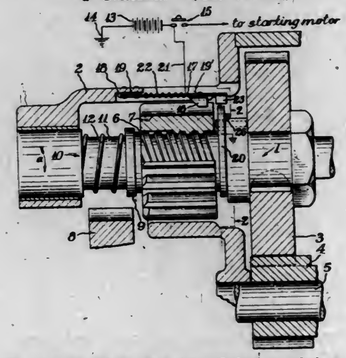
2,318,231
REMOVABLE BODY FOR HAND TRUCKS
James R. Katzman, New York, N. Y.
Application September 1, 1942, Serial No. 456,915
2 Claims. (Cl. 214—65)

1. A removable body for use in transferring a stacked load of material to and from a hand truck including bars having bottom portions positioned normally to rest on a supporting surface and upwardly extended portions, the two portions cooperating to provide an obtuse angle, connections between the two bars constituting respectively a platform portion and an upwardly extending back portion, heels extending from and rigidly connected to the angle portions of the bars and proportioned to hold the body against accidental tilting in one direction under the weight of a load stacked on the body rollers,



and means rigidly connected to the heels for supporting the rollers back of the heels and wholly above the plane occupied by said bottom portions.

2,318,232
ENGINE STARTER GEARING
Daniel P. Kearney, Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 3, 1942, Serial No. 433,109
4 Claims. (Cl. 74—7)

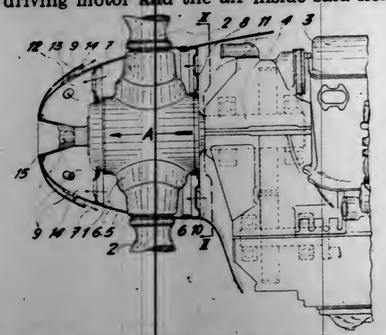


1. In an engine starter drive a drive shaft, a pinion having a threaded connection therewith, a detent normally engaging the pinion to resist rotation thereof, thermostatic means normally holding the detent in engagement with the pinion and means for heating the thermostatic means to withdraw the detent, and means responsive to rotation of the drive shaft above a predetermined speed for causing energization of the heating means.

2,318,233
AIRCRAFT PROPELLER
Curt Keller, Zurich, Switzerland, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland, a corporation of Switzerland
Application February 5, 1941, Serial No. 377,550
In Switzerland February 17, 1940
6 Claims. (Cl. 170—160)

1. In an aircraft propeller in combination, a hub carrying movably mounted blades, a driving motor operatively connected to said hub, a hood surrounding and rotating with the hub and enclosing together with the latter a hollow space,

openings in the hood at points forward of the hub connecting said hollow space to the atmosphere, and means on said hood rotating therewith adapted to produce during flight a difference in pressure between the air surrounding the driving motor and the air inside said hollow



space in such a sense that heated air is automatically forced by said means from the space surrounding the driving motor substantially in an axial direction through said hollow space towards said hood openings at points forward of the hub.

2,318,234
MARKING DEVICE FOR BAGS
Herman Kluger, White Plains, N. Y., assignor to Fulford Manufacturing Company, a corporation of Rhode Island
Application April 11, 1941, Serial No. 388,042
6 Claims. (Cl. 40—143)



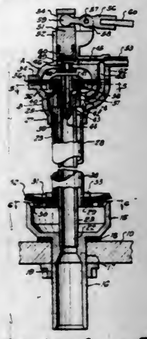
1. In a marking device, a base adapted for mounting as an adjunct to a bag and provided with notches in its edge, an intermediate member permanently secured to said base, a stencil plate placed over said member, a cut-out in said plate through which the member is visible, bendable fingers on said plate bent back about the edge of said member and into said notches whereby the stencil plate is secured to said member and said base.

2,318,235
NEEDLE FOR MAKING MATTED FABRICS
Ella M. Lapham, Minneapolis, Minn.
Application August 18, 1941, Serial No. 407,320
1 Claim. (Cl. 112—80)



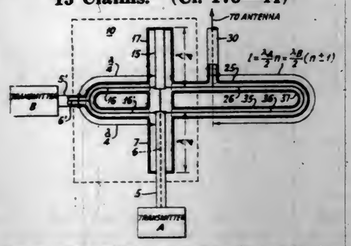
The combination with a needle having a curved portion terminating in a pointed end and an eye in said curved portion, said needle having an external longitudinal groove leading to said eye on the concave side of the curved portion of the needle, in combination with a stop coil slidable on said needle, one end of said coil being inwardly bent into said groove and the other end thereof having a guide loop overlying said groove and held in alignment therewith by the inturned end of said stop coil, the latter being slidably adjusted on the body of said needle.

2,318,236
VALVE
Arthur C. Layton, Tyler, Tex.
Application August 11, 1939, Serial No. 289,521
4 Claims. (Cl. 137—104)



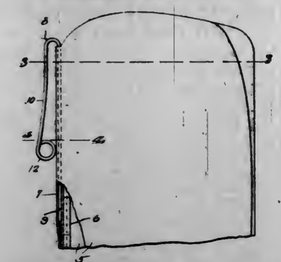
1. A valve mechanism for a flush tank including, an elongate liquid inlet conductor extending into the tank, a valve body mounted on the upper end of the conductor and communicating therewith, an enlarged conduit surrounding the conductor and having its upper end communicating with the interior of the valve body whereby the liquid may flow from the conductor to the conduit, a valve element movable within the body for controlling the flow from the conductor to the conduit, a receiving housing at the lower end of the conduit and having communication with the interior of the tank, and a check valve for permitting flow from the housing to the tank and for preventing backflow from the tank to the housing.

2,318,237
ANTENNA FEED SYSTEM
Nils E. Lindenblad, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 8, 1940, Serial No. 339,468
15 Claims. (Cl. 178—44)



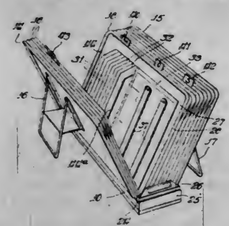
14. In combination, a pair of conductors coupled at one end to one transducer means operative at one frequency in a push-pull relationship and to another transducer means operative at a different frequency in a push-push relationship, said conductors having a differential length which is equal to an even multiple of a half wavelength of said one frequency and an odd and adjacent multiple of a half wavelength of said different frequency, and means for connecting said conductors together at their other ends and to a third transducer means.

2,318,238
RETAINING CLIP FOR SPECTACLE CASES
John R. Linville, Drumright, Okla.
Application October 11, 1941, Serial No. 414,673
1 Claim. (Cl. 24—3)



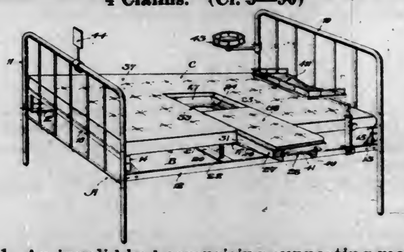
The combination with the hinged sections of a case, and a cover secured to the case, the cover being spaced from the case adjacent to the hinge of the case, of a clip embodying a length of wide spring metal material bent upon itself providing an outer leg member and an inner leg member, the inner leg member being substantially long and terminating at a point an appreciable distance beyond the free end of the outer leg member, and adapted to extend between the cover and the case at a point adjacent to the hinge connecting the sections of the case, said leg members adapted to grip the cover, securing the clip to the cover, and said cover adapted to be stretched over the inner leg member of the clip, holding the clip in position when the sections of the case are moved to their closed positions.

2,318,239
VISIBLE RECORD
Alfred M. Martin, Park Ridge, Ill.
Application June 14, 1941, Serial No. 398,003
5 Claims. (Cl. 129—16)



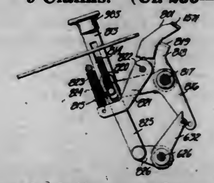
1. That improvement in the art of visible records which comprises a holder, a pair of covers carried by the holder, rails extending between the covers, a series of overlapping record leaves engaged with the rails, one of the leaves being a final leaf in the series, and a detent member of less area than the covers upstandingly carried by a rail to normally rest by the action of gravity against said final leaf but swingable away therefrom on the rail for removal or replacement of said final leaf therein.

2,318,240
HOSPITAL OR INVALID BED
George N. Mas, Washington, D. C., assignor of one-half to Charles B. Lewis, Washington, D. C.
Application November 7, 1941, Serial No. 418,270
4 Claims. (Cl. 5—90)



1. An invalid bed comprising supporting means for a mattress composed of a main section having therein a recess opening through a side thereof and a filler section for said recess, said supporting means having a toilet opening therein with which the inner end portion of the recess in the main mattress section is to be alined, a holder for the mattress filler section mounted on the upper side of said mattress supporting means for horizontal sliding movement transversely of the bed between an inner position in which it covers said toilet opening and disposes the mattress filler section in filling relationship to the recess in the main mattress section and an outer position in which it uncovers said toilet opening and disposes the inner end of said mattress filler section outwardly with respect to the inner end of the recess in the main mattress section to provide in the mattress an opening alined with said toilet opening, a holder for a toilet receptacle mounted on the under side of said mattress supporting means for horizontal sliding movement transversely of the bed between an inner position in which a toilet receptacle held therein is disposed beneath said toilet opening and an outer position in which it is disposed adjacent to a side of the bed for convenient removal therefrom and replacement therein of a toilet receptacle, and a connection between said filler section holder and said toilet receptacle holder whereby said toilet receptacle holder is slid to its outer position in response to sliding of said filler section holder to its inner position and is slid to its inner position in response to sliding of said filler section holder to its outer position.

2,318,241
CALCULATING MACHINE
Walter E. Mathi, Oakland, Calif., assignor to Marchant Calculating Machine Company, a corporation of California
Application September 12, 1941, Serial No. 410,558
9 Claims. (Cl. 235—62)



1. In a calculating machine having numeral wheels, settable actuating mechanism, and means for effecting operation of said numeral wheels by said actuating mechanism; the combination with a plurality of devices adapted to be set to maintain said means in operation, means for holding

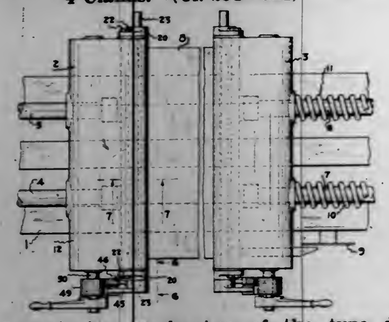
said devices in set position, and a depressible key; of means responsive to said key upon depression thereof to a predetermined depth for releasing one of said devices, means controlled by said numeral wheels for automatically releasing another of said devices, and means responsive to said key upon depression thereof beyond said predetermined depth for releasing said other device.

2,318,242

GRIPPING MECHANISM

Elwin A. Matteson and Donald V. Strock, Youngstown, Ohio, assignors to The Aetna Standard Engineering Company, Youngstown, Ohio, a corporation of Ohio

Application November 13, 1941, Serial No. 419,008
4 Claims. (Cl. 294—114)



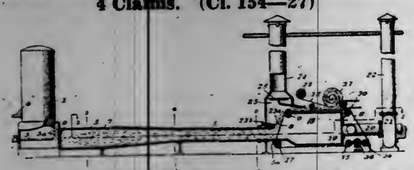
4. In gripping mechanism of the type described, a frame member having an elongated opening extending along one side thereof, a groove of arcuate transverse cross section disposed at one edge of said opening, a second groove of arcuate cross section disposed on the other edge of said opening opposite to said first named groove, jaw members supported in each of said grooves, said jaw members each having an arcuate bearing portion adapted to engage the arcuate groove in which the jaw member is supported and shaft portions projecting from each of said bearing portions, gripper bars rotatably supported by said jaw members and having generally planar work engaging portions, means on said frame member for pivotally supporting said shaft portions of said jaw members, and means for swinging said jaw members on said supporting means toward and away from each other whereby sheet material may be gripped between the work engaging portions of said rotatable gripper bars and released therefrom.

2,318,243

APPARATUS FOR FIBERIZING FUSIBLE INORGANIC SUBSTANCES AND FORMING THE FIBERS INTO BATS

Benjamin C. McClure, Chicago, Ill., assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application August 21, 1939, Serial No. 291,236
4 Claims. (Cl. 154—27)



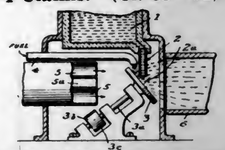
1. Apparatus for fusing and fiberizing inorganic material and recovering the fibers as felt, said apparatus comprising a suitably mounted reticulated felting wall, means for delivering a stream of molten material, means delivering an auxiliary heating medium to and maintaining a hot environment around the path of the issued molten material and blasting means having connections through which it receives and delivers a propelled beam of vehicular gaseous material; said blasting means delivering said beam against the portion of the molten material that is within the hot environment and being directed toward the felting wall.

2,318,244

FIBERIZING MINERAL SUBSTANCES BY CENTRIFUGE AND BLAST

Benjamin C. McClure, Chicago, Ill., assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application August 21, 1939, Serial No. 291,237
4 Claims. (Cl. 83—91)



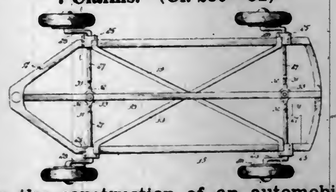
1. In the art of fiberizing fusible inorganic substances, the improvement which comprises feeding a stream of the substance in molten state upon the surface and at an angle to the axis of rotation of a centrifuging element rotating at such a speed as to radially disperse and fiberize the substance and release it at the periphery of said surface; and thereupon, continually, while the substance is still fluid, subjecting it to suspension within and distending action of a vehicular blast in enveloping relation to said element from the rear thereof and at an angle to the axis of rotation thereof and which vehicular blast is of such velocity as to cause said substance to receive a second fiberization, separate and apart from the centrifuge fiberization.

2,318,245

DRIVING AND STEERING MECHANISM FOR AUTOMOBILES

Edwin J. McFarland, Vulcan, Alberta, Canada

Application September 24, 1940, Serial No. 358,153
7 Claims. (Cl. 280—91)



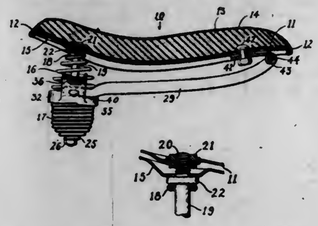
1. In the construction of an automobile, the combination with the chassis having side bars, of separate axles for supporting the chassis from the ground wheels, said axles being connected by universal joints to the side bars of the chassis and each having a rearwardly extending crank arm at its outer end on which the wheel is journaled for swinging movement of the crank arm, and a torsion spring encircling the body portion of the axle and connected at its ends to the axle and chassis for yieldingly supporting the chassis from the ground wheels; together with means connected to the inner ends of the axles for shifting movement thereof in steering the automobile.

2,318,246

CYCLE SADDLE

Frederick Mesinger, Mount Vernon, N. Y.

Application December 12, 1938, Serial No. 245,087
4 Claims. (Cl. 155—5.22)



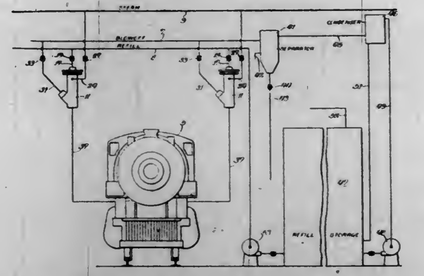
4. A bicycle saddle comprising a seat portion having a sheet metal base, a top covering of flexible sheet material having its edge portions extending around the peripheral edges of said base and against the under side thereof, a bottom plate secured against the bottom of said base for clamping the edge portions of said top covering against the base, a pair of internally threaded nuts secured at laterally spaced points of the rear portion of said base, two pillars extending downwardly from said base, said pillars each having threaded upper ends passing through openings in said bottom plate and engaging said nuts and said pillars each having an integral collar bearing against said bottom plate for securing said bottom plate against said base, a spring supporting frame, and helical springs surrounding said pillars, said springs being secured between said frame and the respective pillars.

2,318,247

METHOD OF TREATING STEAM BOILERS

Frank W. Miller, Chicago, Ill., assignor to Franclare Company, Chicago, Ill., a corporation of Illinois

Application July 3, 1941, Serial No. 400,932
2 Claims. (Cl. 122—396)



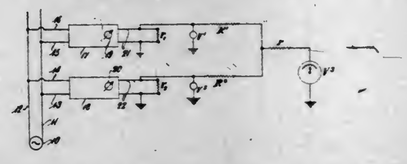
1. The method of treating boilers which comprises delivering water to an empty boiler until a water level slightly above the level of the blow-off cocks has been established, discontinuing said water delivery, delivering steam only into the boiler below said established water level until a substantial steam pressure has been attained in the boiler, thereby uniformly heating and expanding the boiler, and then refilling the boiler to the desired water level by delivering superheated water thereto at a temperature and pressure greater than the temperature and pressure existent in the boiler to thereby produce a self-propulsive steam pressure in the boiler simultaneously with the attainment of the desired water level.

2,318,248

PHASE METER

John P. Minton, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application February 21, 1940, Serial No. 320,131
2 Claims. (Cl. 172—245)



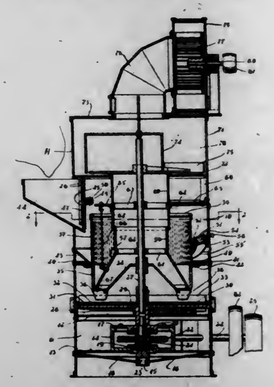
1. A method for directly and visibly comparing the phase characteristics of two amplifiers that comprises the steps of separately amplifying voltages from a common source, separately equalizing the amplitude of the separately amplified voltages, algebraically and electrically adding the separately amplified voltages, amplifying the algebraic sum of the two separately amplified voltages, and indicating directly their relative phase angle.

2,318,249

GRAIN SEPARATOR

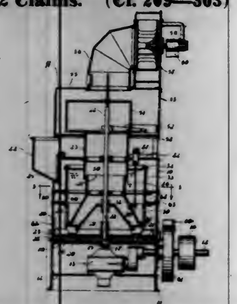
Haakon Mjolsness, deceased, late of Minneapolis, Minn., by Olga A. Mjolsness, administratrix, Minneapolis, Minn., assignor to Haaky Manufacturing Company, St. Paul, Minn., a corporation of Minnesota

Original application July 17, 1936, Serial No. 91,146. Divided and this application August 12, 1940, Serial No. 352,244
2 Claims. (Cl. 209—12)



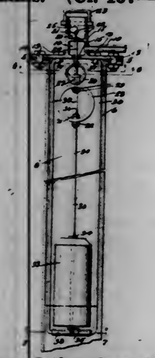
2. A grain separator comprising a perforated rotary vertical cylinder, a casing surrounding said cylinder, means for feeding grain between said casing and said cylinder, inclined brush means yieldingly contacting the outer surface of said cylinder and being inclined in the direction of rotation of said cylinder, said cylinder perforations permitting smaller grains to pass through the cylinder, an outlet chute for the small grains, said brush means adapted to guide material incapable of passing through said screen upwardly out through an outlet chute upon the rotation of said cylinder, and said cylinder rotation carrying larger grains incapable of passing through said cylinder past said inclined means out through a separate outlet chute.

2,318,250
GRAIN SEPARATOR
Haakon Mjolsness, deceased, late of Minneapolis, Minn., by Olga A. Mjolsness, executrix, Minneapolis, Minn.
Application March 1, 1941, Serial No. 381,322
2 Claims. (Cl. 209—303)



1. A screen for a grain separator including a cylindrical perforated body portion, the perforations of which are formed in rows, an imperforated portion forming a closed band-like portion separating the upper rows of perforations from the lower rows of perforations, all of the rows of perforations below said imperforated band portion in said screen and some of the rows above said imperforated band portion of said screen being plain holes formed through the body of said screen, and all of the rest of the holes in the upper portion of said screen being formed with cup-shaped indentations partially extending around each of the holes, thereby providing a grain separating screen, the upper portion of which is formed with holes having projections on one side which act to draw or rake the grain in the direction of rotation of said screen in the grain separator while the plain holes above the imperforated band portion and below the same are smooth on the outer surface of the screen to decrease frictional contact of the screen with the grain pressing against the same.

2,318,251
AIR EXHAUSTING APPARATUS FOR PUMPING SYSTEMS
Thomas F. Moore, Morris Plains, N. J.
Application December 26, 1940, Serial No. 371,739
7 Claims. (Cl. 137—104)



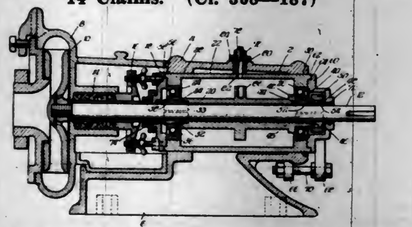
1. In apparatus of the class described, an upright float chamber, float valve means disposed in said chamber and operable by the change of liquid level therein for establishing and interrupting the suction effect of a suction device, said float valve means including a resilient valve member of annular form arranged with its axis substantially horizontal, a valve seat disposed at the upper end of the float chamber and overlying the resilient valve member aforesaid for engagement with the upper side of the resilient valve member, a float connected to the diametrically opposite lower side of the valve member aforesaid to cause movement of the resilient valve member towards and away from the valve seat responsive to changes in the liquid level in the float chamber, said float serving to progressively collapse the annular valve member on engagement of said annular valve member with the valve seat and continued rise of the float in the float chamber, and pressure controlling means responsive to the float valve means for relieving the float valve means from excessive vacuum influence of the suction device to assure operation of the float valve means in reestablishing the suction effect of the suction device on closing of the float valve means with respect to the valve seat.

2,318,252
LAUNDRY MACHINE
Wayne E. Myers, Benton Harbor, Mich., assignor to St. Joe Machines, Inc., St. Joseph, Mich., a corporation of Michigan
Application July 27, 1940, Serial No. 348,057
10 Claims. (Cl. 38—2)



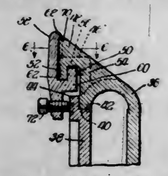
1. In a laundry machine, an ironer, said ironer having article conveying means, and a folder, said folder having a folding mechanism, and article conveying means driven at a speed higher than the speed of the article conveying means of the ironer for conveying articles received from the ironer to the folding mechanism.

2,318,253
BEARING STRUCTURE
Perry I. Nagle, Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application March 24, 1941, Serial No. 384,806
14 Claims. (Cl. 308—187)



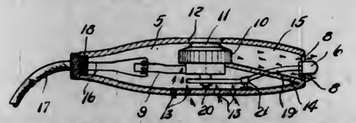
1. In a fluid impelling device, the combination of a stationary bearing housing, an impeller shaft extending into said housing, a readily replaceable bearing cartridge of unitary assembly mounted within said housing in embracing relation to said shaft, said cartridge comprising concentrically arranged sleeves and spaced antifriction bearings therebetween, adjustable wedge means for fixing the inner of said sleeves with respect to said shaft, and means including a closure for one end of said cartridge for positioning the same with respect to said housing.

2,318,254
FLUID IMPELLER HOUSING ASSEMBLY
Perry I. Nagle, Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application March 24, 1941, Serial No. 384,807
3 Claims. (Cl. 220—55)



1. In combination, an housing assembly having a side opening, a side plate assembly for said opening, said housing assembly having a plurality of bracket members extending therefrom each provided with an overhanging locking flange providing a groove having its side walls substantially parallel and disposed in planes substantially parallel to the plane of said opening, a clamping member for each of said bracket members, said clamping member comprising an outer plate portion adapted to overlie the said bracket and side plate assembly and provided with an intermediate locking flange spaced from but in substantially parallel relation to said plate portion to provide an intermediate groove the side walls of which are substantially parallel, the locking flange of each of said clamping and bracket members fitting into the groove of the other member, and an adjustable pressure applying member carried by said clamping member and engageable with said side plate assembly for securing the same to said housing.

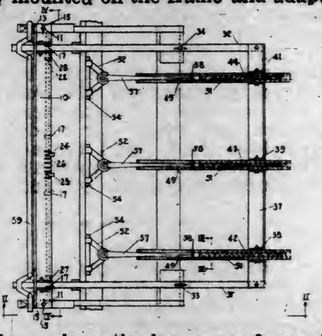
2,318,255
ELECTRIC SHAVER
Leonard E. Nichols, Detroit, Mich.
Application December 20, 1941, Serial No. 423,725
2 Claims. (Cl. 30—34)



1. In an electric dry shaver, the combination with a hollow shell, a motor mounted in the shell intermediate the length thereof, a fan connected thereto and provided with a starting wheel, an opening in the shell in alignment with said wheel, perforations in the shell adjacent the motor, a cutter head at the front end of the shell, elongated openings in the front end wall of the shell adjacent the opposite edges of the head, a partition wall in the shell leading from the fan to the front end of the shell and forming a tapered air discharge duct in communication with the head and the elongated openings and separating the intake of the fan from the discharge duct, and a head operating mechanism connected to and driven by said motor.

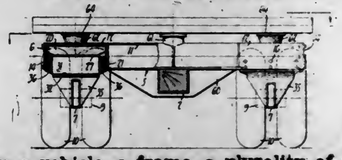
2,318,256
LOOM GAUGE
Thomas J. Oliver, Birmingham, Ala.
Application December 5, 1942, Serial No. 468,004
5 Claims. (Cl. 33—181)

1. A gauge for trueing up the lay and reeds of a loom comprising a rectangular frame, means to attach the frame to the loom, means to center the frame with respect to the loom, feeler means yieldingly mounted on the frame and adapted to



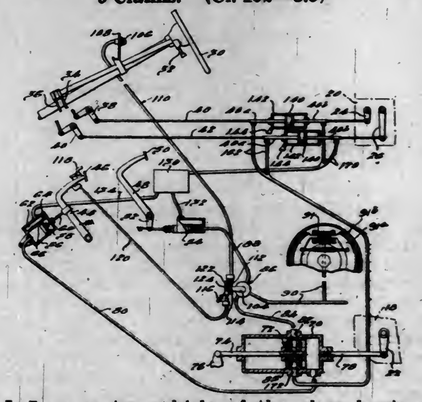
engage the reeds as the lay moves forward, and indicator means associated with the feeler means to show the amount of movement of the feeler with respect to the lay as the lay moves forward.

2,318,257
RESILIENT WHEEL MOUNTING
Theodore A. Peterman, Tacoma, Wash.
Application May 3, 1941, Serial No. 391,668
8 Claims. (Cl. 280—124)



1. In a vehicle, a frame, a plurality of wheels tandem-mounted on walking beams, and a resilient suspension unit joining each of said beams to said frame comprising a housing, a resilient load-supporting member disposed therein, and a second resilient member disposed therein arranged to absorb horizontal thrusts and to cushion torsional movements of said beam relative to said frame.

2,318,258
CONTROL MECHANISM FOR MOTOR VEHICLES
Gilbert E. Porter, Mount Clemens, Mich.
Application July 16, 1940, Serial No. 345,801
9 Claims. (Cl. 192—3.5)



5. In a motor vehicle of the class having a

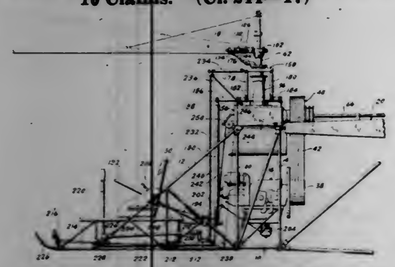
clutch operable between engaged and disengaged positions and a selectively shiftable transmission mechanism, the combination with said clutch and transmission mechanism of a control pedal, liquid displacing means operable by movement of said control pedal, a hydraulic actuating unit for disengaging said clutch, a connection between said liquid displacing means and said hydraulic actuating unit, hydraulic actuating means for said transmission, and means for conducting fluid displaced from said liquid displacing means through the first mentioned hydraulic actuating unit to the last mentioned hydraulic actuating unit.

2,318,259

DIRECT-LIFT AIRCRAFT

Igor I. Sikorsky, Trumbull, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application April 6, 1940, Serial No. 328,225
10 Claims. (Cl. 244—17)



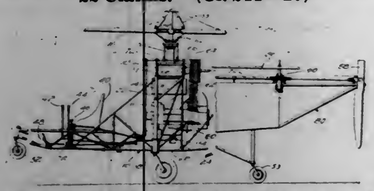
1. In an aircraft having a direct lift rotor and an engine for driving said rotor, manually actuatable means permanently connected with said rotor for varying the pitch of said rotor, and means positively and permanently connected with said manually actuatable means and with said motor for simultaneously and positively varying the rotor pitch and the power output of said engine upon each movement of said manually actuatable means.

2,318,260

HELICOPTER AND CONTROLS THEREFOR

Igor I. Sikorsky, Trumbull, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application April 9, 1940, Serial No. 328,621
22 Claims. (Cl. 244—17)



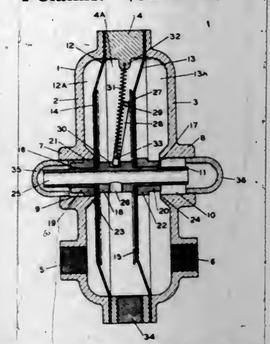
1. In a direct lift type aircraft having an engine driven main sustaining rotor so disposed that its axis passes adjacent to the combined center of gravity of said aircraft, a pair of auxiliary sustaining rotors spaced from said main rotor on the opposite side of said center of gravity and symmetrically located relative to the longitudinal center line of said aircraft, a third auxiliary rotor having a plane of rotation intersecting the planes of rotation of said sustaining rotors, and independently operable means for controlling the thrust effect of said main rotor, said pair of auxiliary sustaining rotors, and said third auxiliary rotor and mechanism operatively connected with and movable by said main rotor controlling means for varying the power output of said engine as said main rotor controlling means is moved to change the thrust effect of said main sustaining rotor.

2,318,261

LOW PRESSURE AUTOMATIC CHANGE-OVER DEVICE

Theodore A. St. Clair, Pontiac, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 17, 1941, Serial No. 415,459
4 Claims. (Cl. 62—1)



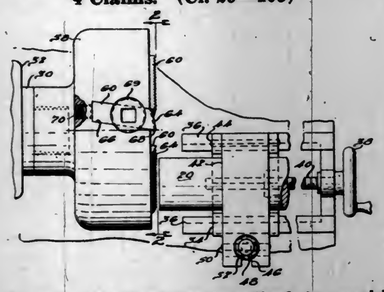
1. A system for dispensing liquefied gas comprising two containers for the gas and a valve housing, a service line for connecting the housing with gas consuming appliances, a gas withdrawal conduit connecting each container with the valve housing, a valve controlling each withdrawal conduit, a valve actuating member connecting said valves, gas pressure responsive means connected with the valve actuating member and exposed to the gas pressure on the inlet side of the said valves.

2,318,262

APPARATUS FOR MACHINING SERRATIONS IN METALLIC BODIES

Frank M. Smith, Dearborn, Mich., assignor to Century Motors Corporation, Dearborn, Mich., a corporation of Michigan

Application November 12, 1941, Serial No. 418,693
4 Claims. (Cl. 29—105)



1. In a tool of the type described, in combination, a rotatable supporting head having an axial end face, said head being provided with a plurality of slots of rectangular cross-sectional configuration therein extending in a general axial direction away from said end face and inclined

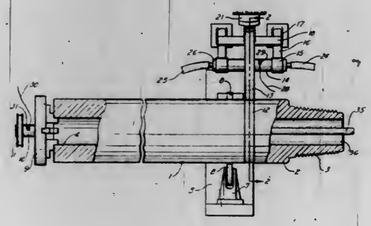
therefrom in a direction opposite to the normal direction of rotation of said head, a cutter blade removably received in each of said slots and having one end thereof projecting axially beyond said axial end face, the outer ends of said cutter blades being serrated and that face of each said cutter blades at the projecting end thereof more advanced in the normal direction of rotation of said head being provided with a surface intersecting said serrated outer end thereof on a line substantially radial with respect to the axis of rotation of said head, all of said cutter blades projecting beyond said end face an equal amount and each serration on one of said blades being aligned circumferentially of the axis of rotation of said head with corresponding serrations on the remaining of said blades.

2,318,263

METHOD OF SECURING HARD FACING MATERIAL TO TUBULAR MEMBERS

Frederick C. Smith, Jr., Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware

Application November 8, 1941, Serial No. 418,319
1 Claim. (Cl. 219—10)



A method of hard facing a steel tool joint member for use in well drilling, said member having a cylindrical outer surface adapted to contact with the wall of the well, comprising forming a groove in said member circumferentially about the same, mounting an electrically conducting pressure wheel to fit resiliently into said groove, feeding granulated hard metal of comparatively high melting point relative to said steel into said groove, rotating said member and said wheel to force said hard metal into said groove and simultaneously passing an electric current from said wheel to said member thereby instantaneously heating the steel in the bottom and side walls of said groove at the point of contact of said wheel and member to melt only the surface of said groove and attach said hard unmelted particles in position, and simultaneously cooling the interior of said member, whereby a band of wear resting metal is firmly embedded in said groove.

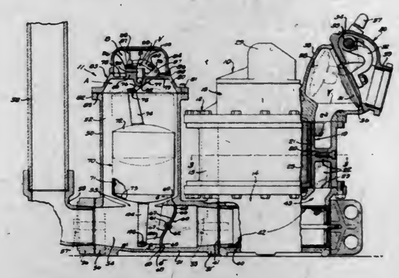
2,318,264

AIR ELIMINATOR FOR FLUID FLOW MECHANISMS

Reuben Stanley Smith, Altadena, Calif., assignor to Smith Meter Company, Los Angeles, Calif., a corporation of California

Original application November 26, 1937, Serial No. 176,573. Divided and this application June 17, 1940, Serial No. 341,075
2 Claims. (Cl. 137—69)

1. An air eliminator embodying a horizontal passageway having an opening in communication with a float chamber thereabove, a float in said chamber, there being an air chamber immediately above and in communication with the float chamber, an exhaust line leading from the air chamber, and a slide valve connected to and operated by said float and movable by float reciprocation to open and close said exhaust line, said slide valve embodying a block having a ver-



tical passageway opening to the top surface thereof, a closure bodily slidable over the top of the block to and from positions closing said opening, a spring-actuated arm holding the closure in facial engagement with said top surface throughout its sliding stroke; and said slide valve connection including a bell crank operatively connected to said float and said arm.

2,318,265

NUT PROCESS

Arthur F. Stagmeier, Upper Montclair, N. J., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 7, 1940, Serial No. 317,775
10 Claims. (Cl. 146—219)

9. A method of treating whole nuts having adherent kernels to render them free-shelling which comprises introducing free water between the shells and kernels and then subjecting said nuts to external heat to convert at least part of said free water into steam.

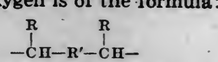
2,318,266

DYESTUFFS OF THE DIBENZANTHRONE SERIES

Otto Stallmann, Bridgeton, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

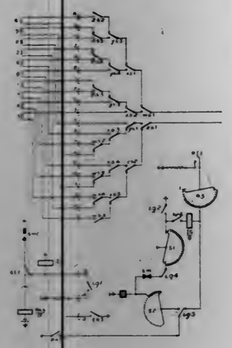
No Drawing. Application January 20, 1939, Serial No. 251,961
8 Claims. (Cl. 260—338)

1. Alkyl ethers of Bz-2:Bz-2'-dihydroxydibenzanthrone which dye cotton from blue alkaline hydrosulfite vats in bluish-green to yellowish green shades, in which the alkyl radical on each hydroxy-oxygen is of the formula:



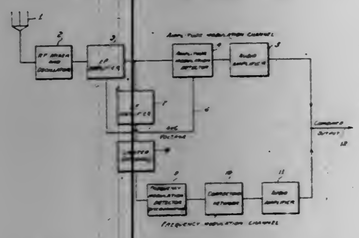
which alkyl radical contains not more than 10 carbon atoms, and in which both R's stand for a substituent of the class consisting of H and $-CH_3$, and R' for an alkyl radical, and in which both carbon atoms are attached to hydroxy-oxygen of dihydroxydibenzanthrone, said ethers being identical with those prepared by alkylating Bz2 - Bz2' - dihydroxy - dibenzanthrone with polymethylene halides in which the reactive halogen atoms are on non-adjacent carbon atoms.

2,318,267
TELEPHONE LINE IDENTIFICATION
Reginald Taylor and George Thomas Baker, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware
Application December 16, 1940, Serial No. 370,362
In Great Britain January 4, 1940
7 Claims. (Cl. 179—27)



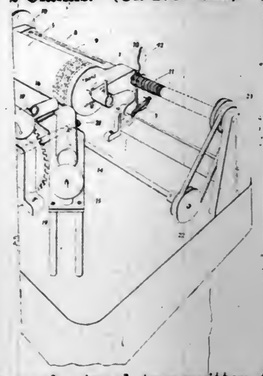
1. In a telephone or like system, a line over which two trains of impulses are transmitted concurrently, a plurality of devices, a switch operated by one of said trains of impulses to connect up each of said devices in turn, means responsive to each impulse of said other train for operating the one of said devices which is connected up by said switch at the time that impulse is received, means effective after said switch has connected up all of said devices for determining which of said devices are operated, and means controlled by said devices for making audible announcements of different digits depending upon the devices operated.

2,318,268
DIVERSITY RECEIVING SYSTEM
Frederick E. Terman, Stanford University, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 10, 1942, Serial No. 430,203
8 Claims. (Cl. 250—20)



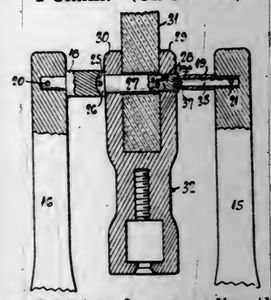
1. In a diversity radio receiving system, an antenna for receiving waves originally amplitude modulated with a given desired signal, an amplitude modulation detector, a frequency modulation detector, connections from said detectors to said antenna, and means for combining portions of said desired signal from the outputs of the two detectors.

2,318,269
APPARATUS FOR TEACHING TELEGRAPHY
Alfred Edward Thompson and Reginald Dennis Salmon, Croydon, England, assignors to Creed and Company Limited, Croydon, England
Application June 13, 1941, Serial No. 397,931
In Great Britain November 22, 1940
2 Claims. (Cl. 178—115)



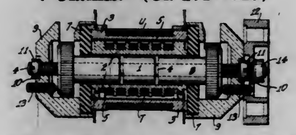
1. A telegraph signal transmitter for teaching telegraphy comprising a cylinder having representations of telegraph signals spirally arranged on its circumference, a carriage for supporting said cylinder in operative position, means for rotating said cylinder, scanning means for scanning said representations to produce signal indications, a threaded spindle mounted for rotation with said cylinder, manually operable means mounted on said carriage for engaging said threaded spindle to advance said carriage upon engagement, and stop means for cooperating with said manually operable means in disengaged position to prevent endwise movement of said carriage.

2,318,270
OPTOMETRIST TOOL
William M. Wagoner, Newton, N. C.
Application November 8, 1941, Serial No. 418,349
1 Claim. (Cl. 81—3.6)



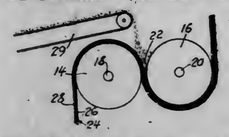
An optometrist tool for expanding the threaded end of a screw threaded bolt into the threads in a bore in a spectacle frame in which a forked portion of the frame fits over an edge of a lens with one portion of the fork having a smooth hole therethrough and the other portion of the fork having a threaded hole therethrough for threadably receiving the threaded end of the bolt, said tool comprising a pair of relatively movable jaws, a socket carried by one of the jaws for engaging the head of the bolt, a mandrel carried by the other jaw for engaging the threaded end of the bolt, said mandrel having a cylindrical bore therein, the wall of the bore extending in a straight line and intersecting an inclined outer periphery of the mandrel to provide a beveled cutting edge at the outer end of the mandrel, whereby when the jaws are moved towards each other the inclined outer periphery of the mandrel will spread the threaded end of the bolt outwardly against the threads in the threaded portion of the spectacle frame and will expand the end of the bolt, to a greater diameter than the threaded hole in the frame.

2,318,271
ANTENNA TRANSFORMER
Walter Weiche, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application October 10, 1941, Serial No. 414,456
In Germany July 15, 1940
7 Claims. (Cl. 171—119)



1. A transformer including a primary coil and a secondary coil coaxial with each other, a separate carrier for each said coil, one of said coils and the carrier thereof surrounding the other of said coils and the carrier thereof, and two cores of high frequency magnetic material displaceable along the axis of said coils and disposed in symmetrical relation with each said coil.

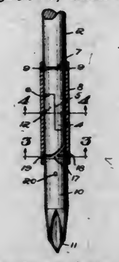
2,318,272
METHOD OF PRODUCING LINOLEUM PRODUCTS
William C. Weigle, Philadelphia, and James W. Kemmler, Elkins Park, Pa., assignors to Sloane-Blabon, Trenton, N. J., a corporation of New Jersey
Application August 22, 1941, Serial No. 407,928
14 Claims. (Cl. 154—25)



2. The method of producing linoleum floor coverings and the like embodying a substantially inelastic sheet of impregnated felt which comprises the step of cushioning said sheet of felt while calendering a linoleum composition onto one face thereof.

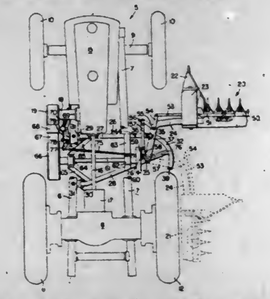
2,318,273
DETACHABLE BIT TOOL
Adolph Werme, Worcester, Mass., assignor to Reed & Prince Manufacturing Company, Worcester, Mass., a corporation of Massachusetts
Application May 28, 1942, Serial No. 444,803
6 Claims. (Cl. 279—81)

1. An article of the character described comprising a shank, a sleeve rotatably mounted about the shank and projecting beyond its extremity to provide a receptacle, a bit element mounted in the receptacle, means for engaging the bit element in fixed relation with respect to the shank, said bit element having an annular groove formed therearound and a helical groove connecting with the annular groove, locking means on the inner periphery of the sleeve and normally engaged in the said annular groove, said locking means in



one position of the sleeve being adapted to pass from the annular groove into the helical groove to permit removal of the bit element from the shank.

2,318,274
TRACTOR MOWER
Paul H. Westerlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 17, 1942, Serial No. 455,143
11 Claims. (Cl. 56—25)

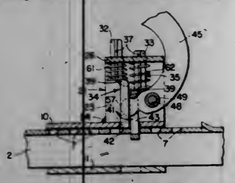


1. In combination with a vehicle having a supporting wheel, a mower disposed across the path of and ahead of said supporting wheel and including a laterally extending cutter bar, means for supporting said mower from said vehicle including a vertical pivot disposed inwardly of said supporting wheel and spaced to the rear of said cutter bar a distance substantially equal to the distance from said pivot laterally to the outer side of said wheel, whereby the cutter bar may be swung rearwardly from a laterally extending operating position to an inoperative trailing position approximately parallel to said supporting wheel.

2,318,275
DISK HARROW
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application April 25, 1941, Serial No. 390,319
11 Claims. (Cl. 55—81)

1. In a disk harrow or the like having a recessed drawbar, a latch box comprising a pair of upper and lower plates spaced to receive said drawbar therebetween and the upper plate having a pair of laterally spaced apart upstanding sections fixed thereto and an opening between said sections, a pair of detent plungers mounted for vertical movement between said sections with both disposed in the opening in the upper plate,

the recesses in said drawbar being spaced so that only one of the detent plungers may engage in a recess at any one time, and a trip lever pivoted



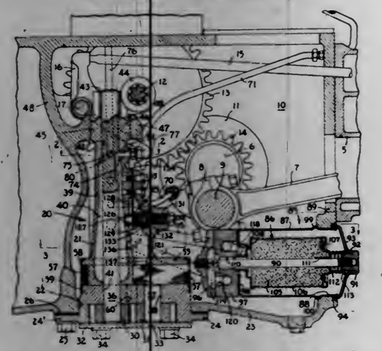
on said sections and engageable with both of said detent plungers for disengaging either from said drawbar.

2,318,276

ENGINE LUBRICATING SYSTEM

Wayne H. Worthington, Waterloo, Iowa, assignor to John Deere Tractor Company, Waterloo, Iowa, a corporation of Iowa

Application November 10, 1939, Serial No. 303,820
6 Claims. (Cl. 184—6)



1. In an engine lubricating system, an oil supply reservoir, an oil pump having a discharge passage, an oil inlet chamber mounted near the bottom of said reservoir, said pump having an intake passage in communication with said chamber and the latter having an opening to receive oil from said reservoir, a screen in said opening to exclude foreign particles from said chamber, an oil filter unit, duct means between said filter unit and said pump discharge passage for conducting oil under pressure to said unit, duct means between said filter unit and said chamber to conduct filtered oil directly thereto, and an excess pressure relief valve connected to said pump discharge passage, said valve being connected directly with said inlet chamber whereby oil discharged from said relief valve is recirculated directly through said pump to reduce the amount of oil drawn through said screen from said supply reservoir.

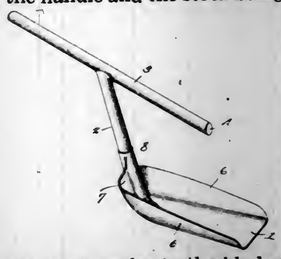
2,318,277

SHOVEL

Arthur Ellwood Yensen, Lowell, Nebr.

Application February 3, 1942, Serial No. 429,424
1 Claim. (Cl. 294—49)

A shovel comprising a blade, a stock having a backward slant and having its lower end secured to the rear end of the blade, and an elongated handle secured at a place midway between its ends to the upper end of the stock, the part of the handle which is ahead of the stock being shorter than the blade and forming an acute angle with the stock, the handle and the stock being disposed



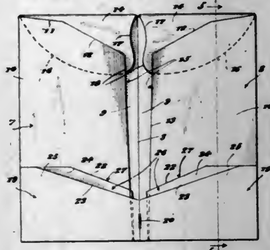
in a plane at right angles to the blade and passing through the median line of the blade.

2,318,278

ENVELOPE

George T. Arnold, Auburn, N. Y., assignor of fifty per cent to Charles N. Wonacott, New York, N. Y.

Application June 19, 1942, Serial No. 447,704
6 Claims. (Cl. 229—72)



1. An envelope comprising companion main sections integrally united along their inner side edges and foldable from open position to closed position, each section having an outer main wall and an inner auxiliary wall and defining a main pocket open at its upper end and along its inner side edge and closed along its outer side edge, lower portions of said sections being folded upwardly and forming auxiliary sections having inner and outer walls defining auxiliary pockets open at their upper ends and along their inner side edges and closed along their outer side edges, and the inner walls of the auxiliary sections cooperating with inner walls of the main sections to form intermediate pockets closed at their lower ends open at their upper ends and along their side edges.

2,318,279

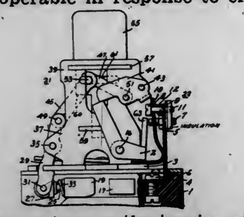
COMPENSATING ARRANGEMENT FOR THERMAL RELAYS

Karl Aschwanden, Berlin-Wittenau, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 27, 1940, Serial No. 367,364
In Germany October 10, 1939
14 Claims. (Cl. 200—116)

6. A trip device for a circuit breaker comprising a current responsive bimetal element, a member supported on the free end of said bimetal element, a pair of bimetal elements disposed adjacent the ends of said member, means connecting each end of the member to the pair of bimetal elements for giving all of the bimetal elements an initial tension, and means for adjusting

said connecting means to vary the initial tension of said bimetal elements, said pair of bimetal elements being operable in response to changes in



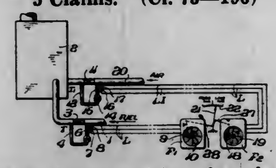
room temperature to vary the tension of the current responsive bimetal element to compensate the thermally responsive bimetal element for the influence of ambient temperatures.

2,318,280

METERING SYSTEM

William C. Bennett, West Chester, and William Melas, Philadelphia, Pa., assignors to Cochrane Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application April 28, 1942, Serial No. 440,776
5 Claims. (Cl. 73—196)



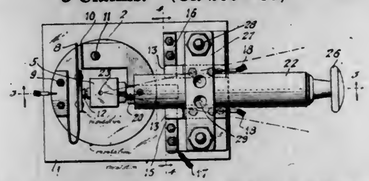
1. A system for supervision of combustion comprising a member movable in response to changes in magnitude of the rate of supply of one of the components of a combustible mixture, a member movable in response to changes in magnitude of the rate of flow of a fluid determinative, jointly with aforesaid rate of supply of a component of a combustible mixture, of the efficiency of combustion of said mixture, an element, means for controlling said element by said members for movement of said element to positions each determined by the relative positions of said members, and means providing that a single position of said element corresponds with optimum combustion at different required rates comprising deformable cam structure movable with one of said members, and biasing means co-operating with said deformable cam to provide that for successive equal changes of rate of supply of one of said components, the corresponding responsive member is moved to predetermined unequal extents.

2,318,281

VEHICLE SIGNAL AND SWITCH MECHANISM

George H. Bird, Brooklyn, N. Y.

Application May 14, 1940, Serial No. 335,057
3 Claims. (Cl. 200—34)



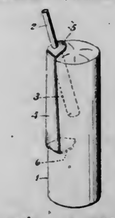
1. A switch comprising a base, a pair of contact elements mounted on said base in spaced relation, a member rotatably mounted on said base and carrying a contactor to engage and disengage said contact elements selectively upon rotation of said member in opposite directions, a pair of switch contacts mounted on said member one normally influenced toward contact with the other, a pair of relatively reciprocable parts, one fixedly mounted on said rotatable member, and means on said member cooperating with the other of said relatively reciprocable parts and the first-mentioned switch contact for causing contact and disengagement of said first-mentioned switch contact with and from the other switch contact upon relative movement of said relatively reciprocable parts in opposite directions respectively, the second-mentioned of said relatively reciprocable parts constituting a handle for rotating said member and for relatively moving said parts.

2,318,282

FUSE ANCHOR

John Alfred Björkman, Johannesburg, Transvaal, South Africa, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application June 7, 1939, Serial No. 277,783
In South Africa June 7, 1938
1 Claim. (Cl. 102—28)



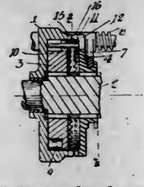
A clip for securing a capped fuse length to a primer cartridge which comprises a portion of said clip disposed adjacent to the periphery of the cartridge and provided with a bore directed inwardly at an angle to the axis of the cartridge, to hold the capped fuse length in such manner that the cap extends from a locus near the periphery of the cartridge and to a point approximately at the center of said cartridge, a second portion of the same piece of material as said first portion bent at an angle to said first portion and adapted to lie along the wall of the cartridge and in contact therewith, and a third portion of the same piece of material bent inwardly at an angle to said second portion and adapted to be pressed into the shell wall of the cartridge for securing purposes, all of said portions constituting a single piece of metal.

2,318,283

SELF-LOCKING FREEWHEEL CLUTCH

Gibbs Blackstock, Toronto, Ontario, Canada

Application February 10, 1941, Serial No. 378,268
7 Claims. (Cl. 192—44)



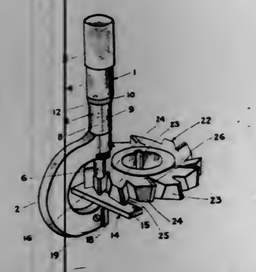
1. A clutch of free wheel and lock type comprising a first main part forming part of a free-

wheel, a second main part, a member having small angular free displacement between a first and second position on the second main part, elements between such angularly displaceable member and the first main part adapted to transmit torque therebetween in one direction only and in doing so to turn the displaceable member from the first to the second position, a member on the second main part engageable with the first main part to transmit torque when engaged in the opposite direction, means for preventing such engagement when the displaceable member is in its first position and to allow of such engagement when the displaceable member is in its second position and resilient means for effecting such engagement when allowed by the position of the displaceable member.

2,318,284
DRILLING MUD
Robert B. Booth, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 27, 1941, Serial No. 385,470
6 Claims. (Cl. 252—8.5)

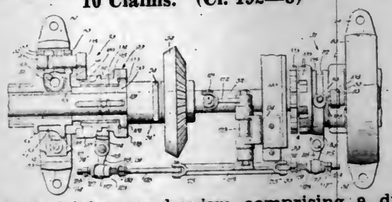
1. A drilling mud for use in drilling oil and gas wells which comprises clay and nigrosine in amounts effective to control the viscosity of the mud.

2,318,285
ATTACHMENT FOR MICROMETER CALIPERS
John J. Brady, Providence, R. I.
Application March 7, 1942, Serial No. 433,719
2 Claims. (Cl. 33—167)



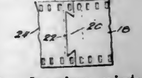
1. An attachment for micrometer calipers adapted for use in measuring any one of plural unidirectional surfaces of a member with reference to a plane determined by a series of oppositely directed surfaces which comprises, a substantially rigid anvil member provided with a plane contact face of substantial extent for engaging two or more of the series of oppositely directed surfaces simultaneously and serving to support the member in a plane substantially coincident with the plane of the series of oppositely directed surfaces, and means comprising a split sleeve having oppositely positioned straight edges engageable with opposite sides of the frame portion of the micrometer calipers for securing said anvil member thereto in such a manner as to maintain the plane contact face portion of the anvil member substantially perpendicular to the longitudinal axis of the micrometer spindle while engaged at two or more points by oppositely directed contact surfaces of the member to be measured.

2,318,286
TRACTION BRAKE
Harold E. Brey, Wauwatosa, and Hilbert E. Swanson, Milwaukee, Wis.
Application May 29, 1941, Serial No. 395,704
10 Claims. (Cl. 192—8)



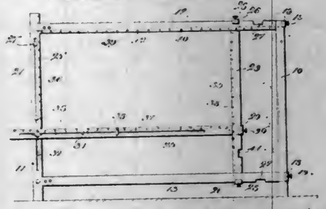
10. A driving mechanism comprising a drive shaft, an element adapted to be alternatively held stationary or driven by said shaft, a clutch including a driving member on said shaft and a driven member, lost motion connecting means connecting said driven member and said element, the parts constituting said connecting means having two extreme relative positions wherein driving occurs and an intermediate position wherein no driving occurs, a brake mechanism for holding said element stationary, a brake operator having two extreme positions wherein said brake is disengaged and an intermediate position wherein the brake is engaged, and spring means normally maintaining said brake engaged and with said operator and said parts in said intermediate position.

2,318,287
FILM SPLICING
Arthur F. Brolin, Baltimore, Md.
Application October 19, 1939, Serial No. 300,249
2 Claims. (Cl. 88—19.5)



1. A spliced film having pictures thereon, the joined ends of the films being in close abutting relation to each other and a transparent resilient connecting patch of Cellophane having a coating of a dry adhesive which seals without water and on mere application of pressure, said patch extending from one film to the other and applied to said films with said adhesive coating in contact with said films.

2,318,288
CURTAIN STRETCHER
Alvin Q. Bulger, Belle Vernon, Pa.
Application February 25, 1942, Serial No. 432,365
3 Claims. (Cl. 45—24)



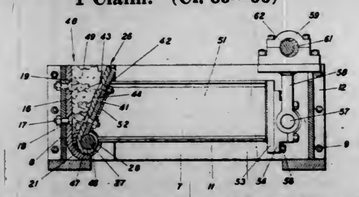
1. A curtain stretcher comprising a rectangular outer frame, a horizontal longitudinally slotted adjusting member, a vertical adjusting member, brackets slidably connecting the vertical member flush with the outer frame, a bracket slidably connecting the horizontal member flush with the vertical member, an adjusting bolt adjustably engaged in a slot in the vertical member of the outer frame through the slot in the horizontal member and slidably mounting the horizontal member on the outer frame, a second vertical slotted adjusting member adjustably mounted on the outer frame flush with the horizontal member, bolts slidably securing the second vertical member flush with the outer frame, and pins on the flush faces of the horizontal and vertical adjusting members and a portion of the outer frame to permit a curtain to be secured for stretching the full length of each side and at all corners.

2,318,289
MATCH BOOK
William W. Carter, Kansas City, Mo.
Application September 8, 1941, Serial No. 409,966
7 Claims. (Cl. 206—29)



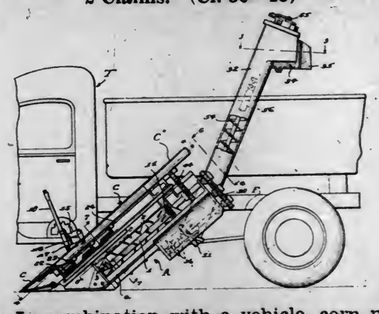
1. A match book of the character described comprising an open end tubular body; a slotted flange within the body extending from end to end thereof; and a series of U-shaped matches, having heads on the ends thereof said matches being threaded through said slotted flange.

2,318,290
COMBINATION CRUSHER AND GRINDER
Vernie E. Clarke, Los Angeles, Calif., assignor to Christine Association, Inc., a corporation of California
Application May 27, 1940, Serial No. 337,485
1 Claim. (Cl. 83—53)



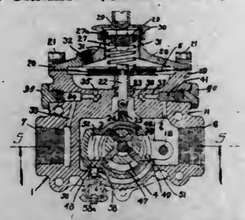
In a combination crusher and grinder, a frame comprising a pair of spaced parallel longitudinal members having aligned openings therein, a transverse shaft extending with clearance through both of said openings, a plane surface bracket rigid with each of said frame members on the outer face thereof adjacent the associated opening, a bearing mounted on each of said brackets and supporting said shaft, adjusting means interposed between said bearings and brackets for shifting said shaft laterally thereof, a movable jaw mounted on said shaft between said longitudinal frame members and comprising an arcuate portion disposed substantially coaxially with said shaft and a portion extending tangentially from said arcuate portion, a fixed jaw mounted between said frame members and comprising an arcuate portion disposed adjacent and substantially concentrically with respect to said arcuate portion of said movable jaw and a portion extending tangentially therefrom, the tangential portions of said jaws being disposed in divergent relation to provide a mouth tapering to the space between said arcuate portions and means for rocking the shaft, the plane of the surface of each of said brackets on which the associated bearing is supported being substantially perpendicular to the plane bisecting said arcuate portion of said jaws, and said adjusting means being of uniform thickness plate.

2,318,291
CORN PICKER
Harry C. Christiance, East Moline, Ill., assignor of one-half to Jerome Vogler, East Moline, Ill.
Application July 13, 1940, Serial No. 345,387
2 Claims. (Cl. 56—18)



1. In combination with a vehicle, corn picker mechanism, including a frame sloping downwardly and forwardly, means including a drive shaft for pivotally supporting an intermediate part of the frame from a side portion of the vehicle, manually operated means, actuated from the vehicle, for raising and lowering the front end of the frame, means for driving the shaft from the power plant of the vehicle, snapper rolls in the picker mechanism, husking rolls in said mechanism, an elevator for receiving the ears of corn from the husking rolls and conveying them into the body of the vehicle and means for operating the parts of the picker mechanism and the elevator from the said shaft.

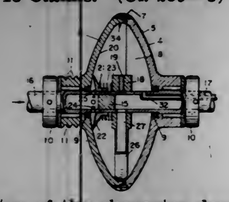
2,318,292
FLUID PUMP
Milton E. Chandler, New Britain, Conn., assignor to Chandler-Evans Corporation, a corporation of Delaware
Application August 21, 1941, Serial No. 407,798
6 Claims. (Cl. 103—120)



1. In a fluid pump, a pump housing having a chamber therein, a rotor in said chamber, a liner of greater diameter than and surrounding said rotor and spaced from the side walls of said chamber, said rotor having slots therein and vanes sliding in said slots and engaging the inner pe-

riphery of said liner, means for adjusting said liner relative to said rotor from the exterior of said chamber, and inlet and outlet passages in said housing having fluid communication with opposite sides of said rotor, one of said passages communicating with the interior of said liner at one side of said rotor and also communicating with the space between said liner and the walls of said chamber around the periphery of said liner, and the other passage communicating with the interior of said liner through oppositely disposed passages formed in said pump housing and in said liner at opposite ends of said liner.

2,318,293
MATERIAL TREATING PROCESS AND APPARATUS
Mead Cornell, Cleveland, Ohio, assignor to The Cornell Machine Company, Cleveland, Ohio, a corporation of Ohio
Application December 26, 1940, Serial No. 371,842
13 Claims. (Cl. 259—3)



1. Apparatus of the character described comprising, in combination, a rotating member having an annular material working surface, and means for feeding a fluid body onto said surface as a film for a centrifugal attenuating action, said member having a confining part radially outwardly of said working surface constructed to provide a confined space for receiving the attenuated fluid body projected from said surface and for holding such body in said space by centrifugal force.

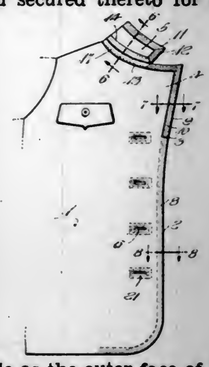
2,318,294
METHOD OF AND APPARATUS FOR TRIMMING EXCAVATIONS
John M. Crom, Jackson Heights, N. Y.
Application July 3, 1940, Serial No. 343,817
5 Claims. (Cl. 37—80)



1. An apparatus for trimming an excavation to a desired grade, comprising a pair of rails mounted in spaced and substantially parallel relation on the excavation and at a predetermined elevation above the desired grade, a bar, and a knife-like trimming tool suspended from an intermediate portion of the bar, the bar being of a length to rest on either rail when the combined tool and bar are moved as a unit to a position locating the knife at the other rail.

2,318,295
JACKET CONSTRUCTION
Melville Davidow, New York, N. Y.
Application November 7, 1942, Serial No. 464,875
3 Claims. (Cl. 2—93)

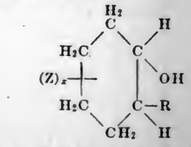
1. A jacket construction comprising front, revers and collar portions, the free edge portion of the front being folded back and secured to the underneath face of the front portion, the free edge portions of the revers and collar being folded back and secured thereto for disposition on



the same side as the outer face of the front portion, said folded over portions of the revers and collar being disposed underneath and concealed from view when said revers and collar portions are turned down in the normal use of the jacket.

2,318,296
ANTISTATIC AGENT AND ITS APPLICATION
Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 23, 1940, Serial No. 371,402
12 Claims. (Cl. 8—142.5)

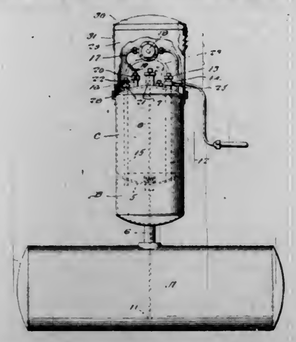
1. The method of eliminating the tendency of yarns, filaments or fibers to accumulate charges of static electricity, which comprises applying thereto prior to any textile operation thereon a composition containing as its essential anti-static component an ester of an alcohol selected from the group consisting of the phosphato, phosphito and sulfato esters of alcohols, said alcohols having the general formula:



wherein R is an organic radical selected from the group consisting of methyl, ethyl, butyl, amyl, hexyl, cyclohexyl, allyl, octyl, lauryl, cetyl, oleyl, hydroxy ethyl, naphthenyl, tetrahydrofurfuryl, decahydronaphthol, triethylene glycol, and monoethyl ether of diethylene glycol, and x is 0 or an integer not over 3, and Z is a mono-valent substituent selected from the group consisting of alkyl, hydroxyl, and aryl.

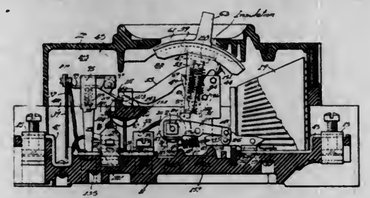
2,318,297
GAS GENERATING APPARATUS
John T. Dockery, Jackson, Miss., assignor of one-third to J. P. Dockery, Jackson, Miss., and one-third to Ernest L. Shelton, Jackson, Miss.
Application February 1, 1940, Serial No. 316,836
13 Claims. (Cl. 62—1)

2. A gas generating and distributing apparatus comprising a main liquefied gas tank adapted to be buried underground, a common filler and gas discharge pipe rising from said tank, a stripper tank connected to and supported by said pipe



and a partition in said stripper tank separating the same into a plurality of superposed communicating gas collecting chambers.

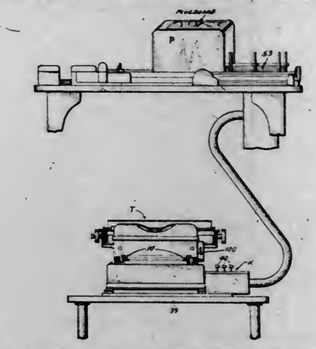
2,318,298
CIRCUIT BREAKER
Hiller D. Dorfman, Forest Hills, and Gerald J. Freese, East McKeesport, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 24, 1941, Serial No. 399,456
12 Claims. (Cl. 200—67)



1. In a circuit breaker, the combination of relatively movable contacts including a stationary contact and a movable contact, a switch arm movable to open and close the contacts, actuating means for moving said switch arm, a contact arm pivotally mounted on the switch arm, said movable contact being mounted on said contact arm, means cooperating with said contact arm to form a toggle disposed for movement with the switch arm, and means engageable by said toggle when the switch arm is moved to open the contacts to cause said toggle to move the contact arm about its pivot in an opening direction.

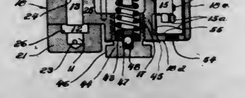
2,318,299
INTERCONTROLLED TYPEWRITER-PUNCHING MACHINE
Charles R. Doty, Yonkers, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 23, 1941, Serial No. 424,178
46 Claims. (Cl. 164—113)

1. In a recording arrangement of the class described, the combination of a typewriter which includes a carriage and digit typing instrumentalities for one form of recording, a punching machine including a carriage and digit punch selectors for another form of recording, means comprising an auxiliary keyboard apart from the keyboard of either the typewriter or punching machine to effect concomitant operation of said digit typing instrumentalities and said punch selectors, and means comprising selective connections set up prior to recording to separate typewriter and punching machine controlling instrumentalities to prevent the operation of the digit typing instrumentalities or the punch se-



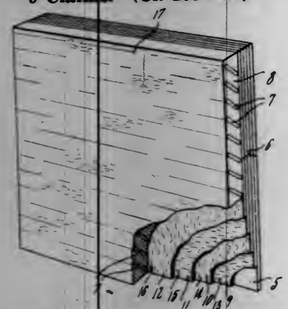
lectors and so arranged that under control of both of said carriages said separate controlling instrumentalities may be automatically effective or ineffective by said connections whereby at the will of the operator either form of recording may ensue while the other form of recording is prevented, or both forms of recording may ensue concurrently.

2,318,300
MECHANISM FOR OPERATING SWITCHES
Stanley H. Durbin, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application December 26, 1941, Serial No. 424,391
10 Claims. (Cl. 200—83)



1. An operating mechanism for a switch having a short-stroke reciprocable operating member, said mechanism comprising a mounting structure adapted to carry the several operating parts of the mechanism; a lever having a first portion adapted to receive a force for turning the lever about its fulcrum and a second portion adapted to engage and operate said operating member when the lever is turned; a hydraulic chamber adapted for connection to a hydraulic system; a substantially flat flexible member of oil-resistant material partially defining said chamber and being adapted to flex in response to pressure therein; means adapted to coact with said flexible member and said first portion of the lever to communicate movement of the former to the latter; and a spring coacting with said lever and said motion-transmitting member to oppose such flexing of the said flexible member, the said flexible member being firmly gripped over substantial marginal areas about substantially the entire periphery thereof, between opposed gripping surfaces of the said mounting structure.

2,318,301
BULLET RESISTING ARMOR
Ernst Eger, Grosse Pointe Park, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application March 15, 1939, Serial No. 261,881
9 Claims. (Cl. 109—81)



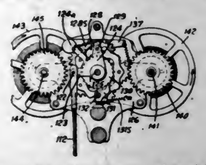
9. A bullet resisting armor comprising a plurality of unconnected metal strips positioned in spaced and substantially parallel relation, a vulcanized rubber composition bonded to and forming a yieldable embedment for the strips, the faces of said strips forming an angle of approximately 45 degrees with the normally exposed face of the assembled armor, said strips being spaced in a manner to provide bullet resisting overlapping of one strip relative to its adjacent strip, fibers interspersed in the rubber composition to the extent of at least 20 percent of the weight of the rubber composition, the length of the greater portion of said fibers lying in a direction substantially parallel with the length of the strips, a layer of rubber composition secured directly to the back of said embedment for forming a cushion for said strips, and a metal plate bonded to the back of the layer of rubber.

2,318,302
PROCESS OF AND COMPOSITION FOR WATERPROOFING PERMEABLE MATERIAL
Constantine F. Fabian, Brookfield, and James B. Lee, Danbury, Conn., assignors to Lee Bros. Hats, Inc., Danbury, Conn., a corporation of Connecticut
No Drawing. Application October 11, 1939, Serial No. 298,978
14 Claims. (Cl. 106—268)

1. The method of preparing a waterproofing composition, which consists in forming a gel from a hydrocarbon vehicle and an aluminum salt of a fatty acid of high molecular weight of the group consisting of oleic acid, stearic acid, and palmitic acid, dispersing such gel in a peptizing agent consisting of ether from the group consisting of ethyl ether, dipropyl ether, and diisopropyl ether, and mixing such dispersed gel with a volatile fluid hydrocarbon vehicle.

2,318,303
TELEGRAPH PRINTER
Clyde J. Fitch, Endwell, and Kurt R. Schneider, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 24, 1940, Serial No. 354,035. Divided and this application November 18, 1941, Serial No. 419,573
1 Claim. (Cl. 178—29)

In a printing telegraph receiver, a typewheel, a ribbon, ribbon feeding mechanism for feeding said ribbon past said typewheel comprising a pawl, a ratchet wheel controlled by said pawl, a gear rotated by said ratchet wheel, a star wheel, a plurality of pinions attached to and supported by said star wheel and meshing with said gear for rotation thereby, a pair of spools, a gear for

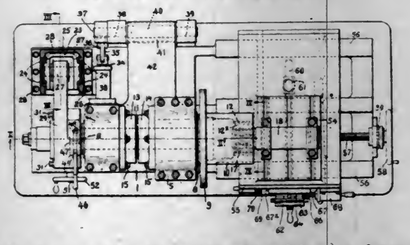


each spool, means biasing one of said pinions on said star wheel into engagement with one of said spool gears, and means controlled by stress on said ribbon for rotating said star wheel to disconnect said engaged gear and to connect one of said star wheel supported pinions with the other spool gear.

2,318,304
OITICICA OIL PRODUCT
Henry A. Gardner, Jr., Bethesda, Md.
No Drawing. Application December 5, 1941, Serial No. 421,846
13 Claims. (Cl. 260—19)

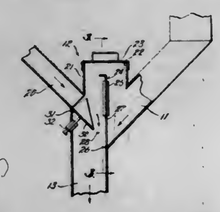
1. Process of improving the varnish-making properties of oiticica oil, which comprises reacting the same with dehydroxylated castor oil at a temperature of from about 250° to about 280° C., in the presence of an acid sulphate activating agent.

2,318,305
CIRCULAR SHAPING MACHINE
William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application December 19, 1941, Serial No. 423,600
18 Claims. (Cl. 10—154)



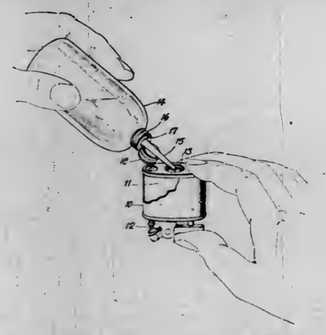
18. In a step threading machine, a base, a headstock pivotally mounted on said base for lateral swinging movement thereon, a work spindle journaled in said headstock for both rotary and axial movement therein, nut and screw means in said headstock associated with said work spindle for effecting said axial movement of said work spindle when rotated in said headstock, means for oscillating said work spindle through an arcuate path of feed and rapid return movement, means for indexing said work spindle relative to said oscillating means, power means on said frame for actuating said oscillating means, power means on said base for bodily oscillating said work spindle on its pivotal mounting, means for presenting a cutting tool in cutting position relative to a work piece mounted on said work spindle, and means on said tool holder for intermittently feeding said cutting tool toward the work piece on said work spindle in timed relationship to the oscillating motion of the work spindle and the oscillating motion of said headstock.

2,318,306
FEED SYSTEM FOR GRINDING MILLS
Wilson C. Hanna, Harry E. Kaiser, and Arthur Harvey, Colton, Calif., assignors to California Portland Cement Company, Los Angeles, Calif., a corporation of California
Application November 25, 1941, Serial No. 420,384
15 Claims. (Cl. 83—44)



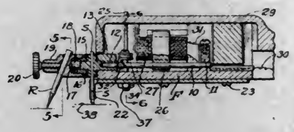
1. In the operation of a grinding mill to which a stream of solid material flows for grinding and from which the ground material is taken for separation into relatively fine and coarse particles; the method that includes projecting a stream of the separated coarse particles in varying quantities against said stream of solid material in a direction and at a velocity such that the kinetic energy of said particles variably restrains the flow of said solid material to the mill, thereby causing the rate at which said material is fed to the mill to decrease as the quantity of separated coarse particles being projected against said stream of material increases, and to increase as said quantity of the separated coarse particles decreases.

2,318,307
LIGHTER AND FUEL FILLING FOR SAME
Alexander Harris, Scobeyville, N. J., assignor to Art Metal Works, Inc., a corporation of New Jersey
Application August 4, 1942, Serial No. 453,492
3 Claims. (Cl. 67—7.1)



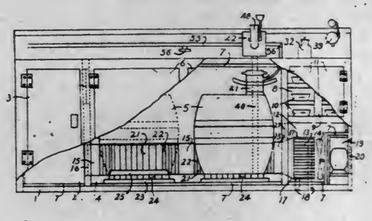
1. In combination with a cigar or cigarette lighter having a fuel receptacle filled with absorbent and a wick of normally substantially colorless fibrous material protruding therefrom, a body of fuel incorporating a distinctively colored ingredient, said fuel substantially saturating said absorbent and wick, thereby lending a distinctive color to said wick for revealing that the lighter has been filled with such fuel.

2,318,308
STYLUS HEAD FOR RECORDING AND REPRODUCING SOUND RECORDS
Edward Robert Harris, Los Angeles, Calif., assignor to Isabelle Russell Harris, Los Angeles, Calif.
Application January 15, 1941, Serial No. 374,536
3 Claims. (Cl. 179—100.41)



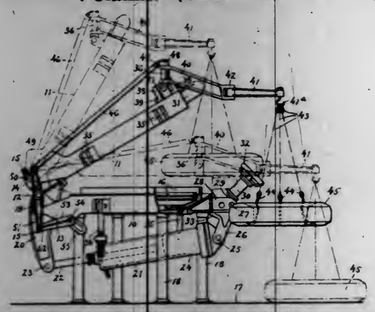
1. In a mechanism of the class described, a stylus head, a stylus carrying shaft suitably mounted in said head, and an armature mounted on said stylus carrying shaft, an electrical exciting coil in association with said armature for exciting and being excited by the vibrations of the said armature on said stylus shaft, a stylus carrying block fixed on said stylus shaft, a fixed stylus point fixed into the said block, a cylindrical block mounted on the said stylus carrying block and rotatable thereon and held in place by frictional contact, a stylus point mounted in this cylindrical block and adapted to be rotated with the said cylindrical block, this rotatable stylus point longer in length than the said fixed stylus point, a flat record carrying body located beneath the said stylus head and adapted to be contacted alternately by the said fixed stylus and the said rotatable stylus carried in its block, the latter stylus being longer than the said fixed stylus as aforementioned to prevent the contact simultaneously of both stylus points with the record, the said rotatable stylus being rotated out of contact with the said record when the fixed stylus is to contact the record body.

2,318,309
DEVICE FOR REFRIGERATING BEVERAGES
Alan L. Hann, Newark, N. J.
Application February 10, 1939, Serial No. 255,711
2 Claims. (Cl. 62—141)



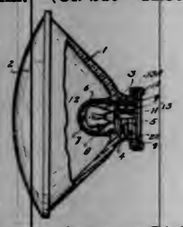
1. A device for conditioning a beverage in its transportation container including an insulated cabinet, a door in the cabinet, a beverage transportation container positioned within the cabinet, refrigerating means, means for projecting gaseous matter in heat exchange relation with the refrigerating means and then the transportation container, supporting means for the transportation container so designed and constructed as to allow a portion of the projected gaseous matter to pass beneath the transportation container, said supporting means further including a container for a liquid adapted to retain it in heat exchange relation with the transportation container.

2,318,310
VULCANIZER HOIST
James C. Heintz, Lakewood, Ohio
Application October 31, 1939, Serial No. 302,220
7 Claims. (Cl. 18—18)



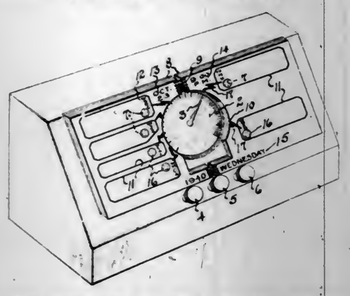
4. A full-circle tire-tread vulcanizer comprising lower and upper press heads of which the upper head is pivoted on the rear of the lower head for swinging movement in a vertical plane, a tread-mold member on the lower head, a pivot post hingedly mounted near the front of the upper head, parallelogram linkage controlling said post for maintaining it upright during swinging movements of the upper head, and a foldable articulated hoist arm having an inner member mounted to swing horizontally on said post and, pivoted near the end of said inner member opposite to the end where it is mounted, an outer member provided with a grapple for engaging a tire by passing through the tire within the beads thereof and raising the work and depositing it in said mold member, and for unloading the finished work.

2,318,311
HEADLIGHT
Lewis E. Hicks, Milwaukee, Oreg., assignor of eight per cent to Axel W. Swanson, eight per cent to Gordon Fogg, eight per cent to John W. Lehman, eight per cent to Alexander T. Poole, and eight per cent to Richard H. Lane, all of Portland, Oreg., and eight per cent to Preston O. Jones and Clara M. Jones, jointly, both of Milwaukee, Oreg.
Application April 26, 1941, Serial No. 390,565
1 Claim. (Cl. 240—41.35)



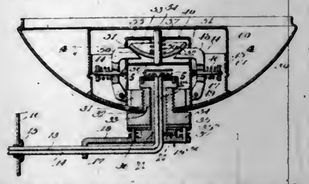
A headlight comprising a reflector and lens united into a single unit and hermetically sealed together to retain a vacuum, the reflector providing a rearwardly extending boss portion having a cylindrical passage open at its rear end, a hollow lamp-receiving projection formed integral with the reflector and extending inwardly therefrom as a continuation of said boss passage, a lamp socket receiving bushing secured in said boss passage and having a laterally extending attaching flange at its outer end disposed against the end of said boss and extending beyond the sides thereof, a lamp socket diametrically smaller than the interior of said bushing and having a laterally extending bushing-engaging guide flange at its forward end, a plate secured to the rear end of said socket and adapted to be attached to a support, means detachably securing said plate to said bushing flange, said plate having an annular socket-centering shoulder engageable in the outer end of said bushing, and the socket flange and socket plate having vent openings opening into the space between the socket and wall of the bushing opening.

2,318,312
RADIO PROGRAM SELECTING APPARATUS
Charles Horton, Ridgefield Park, N. J.
Application December 13, 1940, Serial No. 370,021
6 Claims. (Cl. 250—40)



6. The combination with a mechanism of the type described having a multi-manual selector for adjusting the mechanism to any one of a desired number of settings, of a prepared readily replaceable setting indicating chart juxtaopposed to said selector so that designated portions of said chart are superimposed upon the related manuals of said selector, whereby setting selection is facilitated.

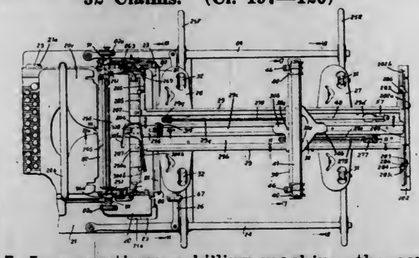
2,318,313
SPEED INDICATING DEVICE
Zachariah E. House, Cass Lake, Minn.
Application October 15, 1941, Serial No. 415,131
5 Claims. (Cl. 177—311.5)



1. In a speed indicating operating device for vehicles comprising a hub cap, a housing secured to the inner face of the cap, a pair of oppositely disposed weighted arms pivoted at one end on the outer walls of the housing and having the other ends thereof projecting into the housing, a curved member slidable in the housing, a spring urging the curved member into engagement with the free ends of the weighted arms, a switch adapted to be moved to closed position by the curved member when the arms are moved outwardly of the casing by centrifugal force, a hollow axle projecting through the center of the cap and carrying the switch at the inner end thereof, and wires extending between the switch and indicator, said wires passing through the hollow

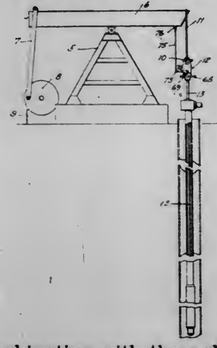
axle, and means connected with the axle and means for aiding in maintaining the axle stationary when the hub is revolving.

2,318,314
TYPEWRITING MACHINE
Carlton T. Jackson, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 16, 1939, Serial No. 295,222
32 Claims. (Cl. 197—126)



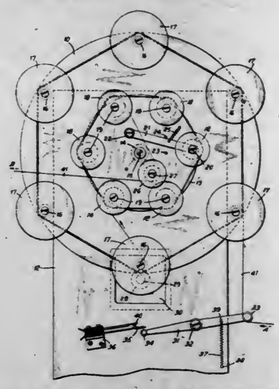
7. In a continuous billing machine, the combination of a platen, a movable carbon sheet anchoring device, a paper table, means to mount the paper table for movement away from the platen, and means coupled to the mounting means for the paper table for actuating the carbon sheet anchoring device by the movement of the paper table.

2,318,315
POLISH ROD ROTATOR
Robert C. Johnston, Tyler, Tex.
Original application February 6, 1940, Serial No. 317,548. Divided and this application December 12, 1941, Serial No. 422,731
3 Claims. (Cl. 255—14)



1. In combination with the walking beam of a pump jack and the rod reins thereof, a polish rod hanger pivotally supported upon said reins and through which a polish rod extends, a housing for said hanger, a slip unit within said housing through which the polish rod extends and by which it is gripped, a seat structure within the hanger capable of oscillating at right angles to the plane of the pivotal axis of the hanger and upon which seat structure the slip unit rests, a ratchet plate secured to the polish rod at a point beneath the hanger and disposed in a plane at right angles to that of the polish rod, a ratchet structure carried by the hanger and engaging the ratchet plate, and operative means between the walking beam and the ratchet structure, whereby as the polish rod moves downwardly on its downstroke the ratchet structure will engage the ratchet plate and rotate the polish rod a predetermined degree of rotation.

2,318,316
STORAGE MECHANISM
Lovell Lawrence, Jr., Jackson Heights, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 19, 1941, Serial No. 398,711
11 Claims. (Cl. 242—54)



1. A mechanism, intermediate of a feeding device and a receiving device in asynchronism, for storing a length of a continuous tape passing from one to the other of the said devices, comprising a support, a first disk journaled upon said support, a second disk attached to the said support, coaxial and parallel with and spaced from the said first disk, the said second disk being nonrotatable and of smaller diameter than the first, a plurality of spaced rotatable spools mounted adjacent the peripheries on the respective faces of each of the said disks, the said spools having their corresponding flanges substantially in the same planes, means for rotating the said first disk, the said tape from the said feeding device being wound about the cores of the said spools passing from the first to the second of said disks to the receiving device in such a manner that upon rotation of the said first disk in one direction the said tape becomes stored, and means in contact with and governed by a reduction of the tension in the said tape at a point where it enters the said mechanism from the said feeding device for controlling the said rotating means to cause said first disk to rotate in the said direction.

2,318,317
SUCTION NOZZLE
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application November 28, 1939, Serial No. 306,448
9 Claims. (Cl. 285—97.3)

1. In a suction nozzle, a base having an opening, a first socket member secured to said base, a second socket member secured to said base in spaced relation to said first socket member, a hood secured to said base communicating with said opening and with the interior of said first socket member, an elbow journalled in said socket members, and means for locking said elbow to said socket members comprising a spring fric-

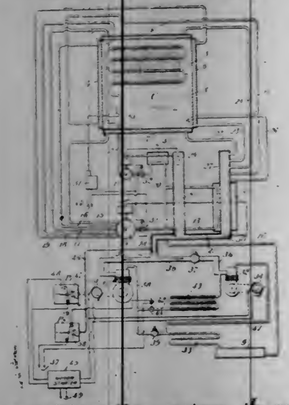
tionally engaging said elbow and fixed with respect to said base adapted to restrain relative rotation therebetween.



2,318,318
REFRIGERATION

Erwin Lodwig, Franklin Square, N. Y., assignor to Mobile Refrigeration, Inc., New York, N. Y., a corporation of New York

Application May 25, 1942, Serial No. 444,229
12 Claims. (Cl. 62—115)



1. In a refrigerating system, in combination with a refrigerant evaporator, a refrigerant condenser and means for conducting condensed refrigerant from said condenser to said evaporator, at least two compressors connected in parallel between said evaporator and said condenser, and means responsive to a predetermined increase in the difference in pressure between the refrigerant in said evaporator and the refrigerant in said condenser for connecting said compressors in series between said evaporator and said condenser.

2,318,319
EMBALMING FLUID

Louis McDonald, Yonkers, N. Y., assignor to The Dodge Chemical Company, Boston, Mass., a corporation of Massachusetts

No Drawing. Application July 1, 1938, Serial No. 216,961
17 Claims. (Cl. 27—21)

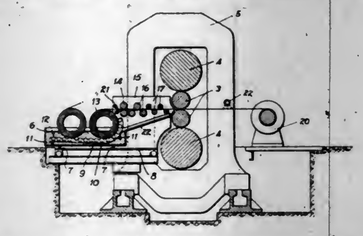
1. An embalming fluid which is characterized by, comprising an aqueous solution of an alkyl formate and which is capable of subsequently reacting to form or liberate the reactive formyl radical when in contact with the tissues and fluids of the body.

2,318,320
METHOD OF TREATING STRIP MATERIAL

Benjamin C. McFadden, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 8, 1939, Serial No. 283,385
3 Claims. (Cl. 242—1)

3. The method of treating a coil of sheet metal to protect the surfaces thereof against scratching by relative movement between adjacent convolutions in the body of the coil during unwinding, which comprises bringing the coil into an intermediate position preliminary to moving it into unwinding position, inundating the coil with a liquid lubricant for a period sufficient to permit

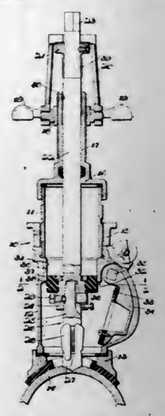


the lubricant to infiltrate into the coil and completely coat said surfaces, then moving the lubricated coil into unwinding position, rotatably supporting the coil in said unwinding position on a rotatable surface for free rotary movement, and unwinding the coil while said surfaces are coated with the lubricant.

2,318,321
DRILLING APPARATUS

Frank H. Mueller and Walter J. Bowan, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois

Original application July 17, 1940, Serial No. 346,052. Divided and this application December 12, 1941, Serial No. 422,768
7 Claims. (Cl. 77—38)



1. In a drilling machine, a barrel adapted to be disposed in substantially radial relation to a main to be drilled, closure means for the outer end of said barrel, a boring bar rotatable and reciprocable in a bore provided in said closure means and arranged to carry a drill at its inner end, said barrel having spaced below its outer end an internal constriction providing a cylindrical guide surface of sufficient diameter to pass the drill and the inner end of the bar, and centering means on said bar adjacent the lower end of the latter cooperative with said guide surface, the arrangement being such that said centering means enters said constriction just before a drill carried by said bar engages the main as the bar is moved inwardly.

2,318,322
METHOD FOR PRODUCING LACQUER OR VARNISH RESIST

Charles Edmund Meulendyke, Rochester, N. Y.

No Drawing. Application August 7, 1940, Serial No. 351,783
6 Claims. (Cl. 41—43)

1. The method of producing resinous reliefs or resinous resists by cutting into or through a suitably supported resinous layer supporting suitable local resists with an alcoholic solution made strongly alkaline and including an ingredient to increase the viscosity of such solution and to restrain the solvent action of the alcohol, such ingredient being present in such proportion that the solvent mixture without presence of the alkali has no appreciable solvent action on the resinous layer but serves rather as vehicle to bring the alkali into contact with the resin, thus avoiding troublesome colloid phenomena substantially as herein described.

2,318,323
MANUFACTURE OF HALOGENATED HYDROCARBONS

Martin Mueller-Cunradi, Ludwigshafen-on-the-Rhine, Adolf Cantzler and Hans Krekeler, Mannheim, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

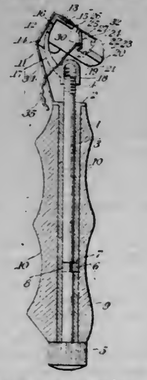
No Drawing. Application December 8, 1939, Serial No. 308,175. In Germany October 1, 1938
4 Claims. (Cl. 260—660)

1. A process for producing chlorinated hydrocarbons without substantial formation of any chlorine substitution by-products by treating an aliphatic hydrocarbon containing from 4 to 5 carbon atoms and at least one olefinic linkage with chlorine, which comprises introducing chlorine and an excess of the aliphatic hydrocarbon into the liquid chlorinated hydrocarbon formed as a result of the chlorination, the reaction mixture being circulated through the reaction vessel so that a multiple of the amount of liquid present in the reaction vessel is circulated per hour, the temperature of the reaction being controlled not to exceed 50° C. and the reaction mixture being maintained in the liquid phase throughout the treatment.

2,318,324
SAFETY RAZOR

Everett B. Nelson, Lincoln, Nebr., assignor to Guardsman Safety Razor, Inc., Lincoln, Nebr.

Application February 16, 1942, Serial No. 431,181
8 Claims. (Cl. 30—51)

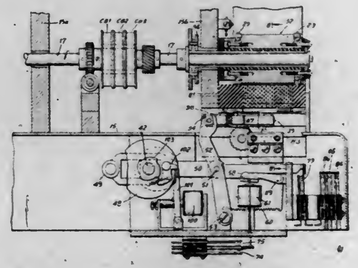


1. A safety razor comprising a handle, a head including a stationary jaw, a movable jaw, a flexible blade of a width greater than that of the jaws to be clamped between the same to provide a free forward portion of the blade, vertical teeth carried by the movable jaw in advance of the cutting edge of the blade, said cutting edge being arranged below the top of the teeth, means mounted in the handle and connected to the movable jaw for actuating the latter into and out of clamping engagement with the blade, and independent means for flexing the free portion of the blade intermediate the clamping means and the cutting edge to adjust the position of said cutting edge relative to the top of the teeth.

2,318,325
LETTER WRITING MACHINE

Frederick W. Nichol, New York, and Louis H. Fronefield, Conklin, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application August 29, 1940, Serial No. 354,632
6 Claims. (Cl. 197—20)



6. In a machine of the class described controlled by records perforated at selected index point positions in their different columns, character manifesting means including a set of electromagnetically operated selecting devices, there being one of said selecting devices for each of the index positions of any one column of the record, analyzing means comprising, for each column of the record, a set of stationary independent contact elements on one side of the record opposite the respective index point positions and a traveling contact element adapted to move in contact with the opposite side of the record along the set of stationary contact elements, so as to make contact with any of the latter when a perforation in the record sheet is encountered, shiftable connecting means adapted to connect the stationary contact elements pertaining to the analyzing means of any column of the record individually to the related selecting devices, and means to shift said connecting means from one set of said stationary contacts to another.

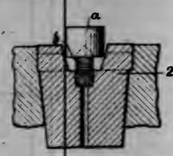
2,318,326
ROCK DRILL

Leonard Padley and George Alfred Morgan, Sheffield, England

Application March 6, 1941, Serial No. 381,978
In Great Britain March 8, 1940
5 Claims. (Cl. 76—108)

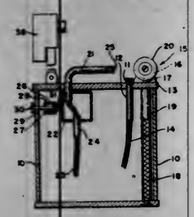
1. The method of manufacturing a two-piece drill bit which comprises forging a heated solid metal slug to drill bit formation in contact with a cold preformed metal stud thereby to cause one end of said stud to pierce and embed itself

in the slug simultaneously with the formation of a front cutting end and a rear exposed drill-



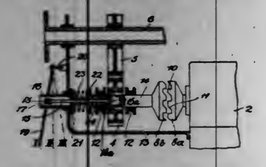
rod-abutment face on said slug, the other end of the stud projecting axially from said face.

2,318,327
JET LIGHTER
Francis Leslie Phillips, Beechurst, Long Island, N. Y., assignor to Beattie Products, Inc., New York, N. Y., a corporation of New York
Application August 1, 1941, Serial No. 404,959
3 Claims. (Cl. 67—7.1)



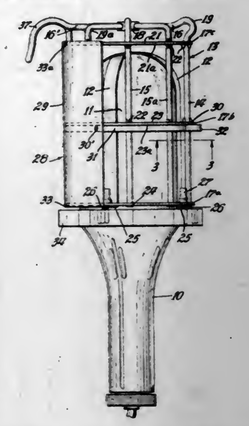
2. A lighter comprising a container having a fuel storage compartment and a pressure compartment, a wick burner in communication with the fuel compartment, a jet burner in communication with the pressure compartment and extending toward the wick burner, the jet burner having a hollow member communicating with the pressure compartment and terminating at a nozzle to define a pressure chamber, means for supplying fuel from the fuel compartment to the pressure compartment, a sparking device adjacent the wick burner, and means for producing instantaneous pressure within the pressure compartment and an instantaneous flow of fuel vapor into the jet burner and through the nozzle.

2,318,328
MULTIPLE MOTOR DRIVING MECHANISM, PARTICULARLY FOR AIR PROPELLER SHAFTS
Fritz Nallinger, Stuttgart, Germany; vested in the Alien Property Custodian
Application November 4, 1939, Serial No. 302,868
In Germany October 18, 1938
3 Claims. (Cl. 192—47)



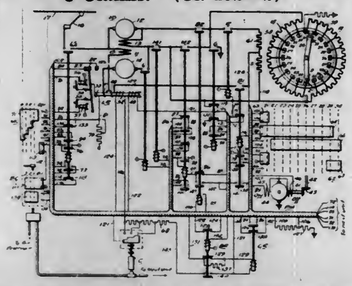
1. In a driving aggregate, the combination of a driving member, a driven member, a clutch coupling to connect the two members and including a clutch portion connected with the driving member and a clutch portion connected with the driven member, one of said clutch portions being adjustable, means on said clutch portions tending to separate the same when the torque transmitted from the driving member to the driven member becomes negative, an adjustable control sleeve, two concentric springs disposed between said control sleeve and said adjustable clutch portion in such a manner that, upon movement of the control sleeve away from the adjustable clutch portion, one of said springs is put out of action, while upon displacement of the control sleeve towards the adjustable clutch portion both springs operate to resiliently resist separation of said clutch portions from each other, abutments provided on said adjustable clutch portion and control sleeve, respectively, and a shiftable coupling rod extending through said springs, said rod carrying abutments for cooperation with said abutments on the adjustable clutch portion and control sleeve, respectively, in such a manner that the coupling is positively disconnected when the sleeve is moved away from the adjustable clutch portion beyond the position in which one of said springs is put out of action.

2,318,329
LAMP GUARD AND REFLECTOR UNIT
Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana
Application December 4, 1941, Serial No. 421,658
4 Claims. (Cl. 240—54)



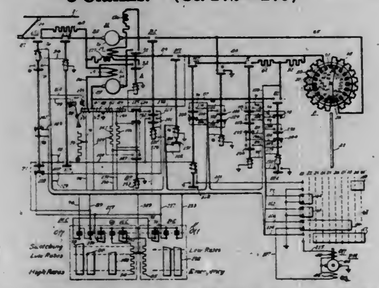
2. A combination guard and reflector unit for a portable lamp device including a plurality of longitudinally extending members converging to a common center at one end and adapted for mounting at the other end on the portable lamp device, said members serving collectively as a lamp guard and having an inner side and an outer side, an annularly extending ring rigidly secured to said members intermediate said one and said other ends and positioned in a plane at right angles to said longitudinally extending members, and reflector means including an arcuate reflector plate mounted on said lamp guard on one of said sides thereof and manually adjustable annularly on said side, said reflector means being deformable for removal from or insertion on said lamp guard, and said reflector means having an arcuate portion intermediate its ends for mating engagement with said annularly extending ring to guide the reflector means upon annular adjustment thereof and to limit its movement longitudinally of said guard unit when in a normal non-deformed condition.

2,318,330
MOTOR CONTROL AND BRAKE SYSTEM
George R. Purifoy, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 19, 1942, Serial No. 435,378
8 Claims. (Cl. 192—2)



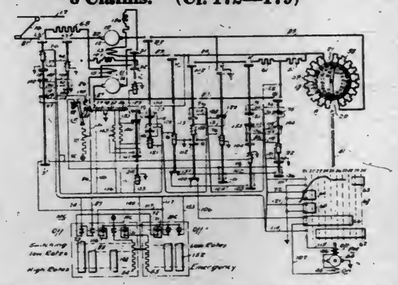
1. In a motor control system, in combination, a motor for propelling a vehicle having an air-brake system, a power conductor, switching means for connecting the motor to the power conductor to accelerate the vehicle, additional switching means for establishing dynamic braking connections for the motor to decelerate the vehicle, relay means responsive to the motor current for controlling the rates of acceleration and deceleration of the vehicle, and means responsive to the pressure in the air-brake system for controlling the operation of said relay means.

2,318,331
MOTOR CONTROL SYSTEM
George R. Purifoy, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 13, 1942, Serial No. 442,763
8 Claims. (Cl. 172—179)



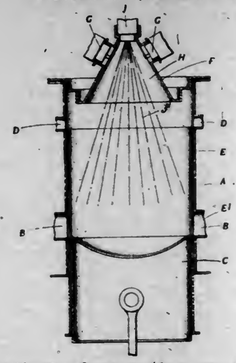
8. In a motor control system, in combination, a motor for propelling a vehicle, a power conductor, switching means for connecting the motor to the power conductor and for establishing dynamic braking connections for the motor, a master controller for controlling said switching means, a variable resistance accelerator for controlling the motor current during acceleration and dynamic braking of the vehicle, means for driving the accelerator, additional switching means for shunting the accelerator from the motor circuit, interlocking means on the switching means cooperating with the master controller for controlling the operation of said additional switching means, and interlocking means on the additional switching means cooperating with the interlocking means on the switching means for controlling the operation of said driving means to return the accelerator to a predetermined position and prevent its advancement from said position while the vehicle is standing still.

2,318,332
MOTOR CONTROL SYSTEM
George R. Purifoy, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 13, 1942, Serial No. 442,764
8 Claims. (Cl. 172—179)



8. In a motor control system, in combination, a motor for propelling a vehicle, a power conductor, switching means for connecting the motor to the power conductor, a master controller for controlling the operation of said switching means, a variable resistance accelerator for controlling the motor current during acceleration of the vehicle, means for driving the accelerator, a fixed resistance, additional switching means for connecting the fixed resistance in the motor circuit, relay means responsive to the motor current for controlling the operation of the driving means, means on the master controller for controlling the operation of said additional switching means, and interlocking means actuated by said additional switching means for controlling said driving means to stop and hold the accelerator in any desired position independently of said relay means.

2,318,333
INTERNAL COMBUSTION ENGINE OPERATING ON THE TWO-STROKE CYCLE WITH LIQUID FUEL INJECTION
Harry Ralph Ricardo, London, England
Application January 17, 1940, Serial No. 314,323
In Great Britain January 17, 1939
4 Claims. (Cl. 123—32)



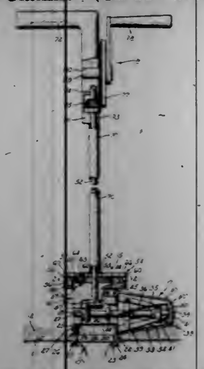
4. A method of operating on the two-stroke

cycle a sleeve valve internal combustion engine, comprising the steps of admitting scavenge air into the engine cylinder adjacent the outer end thereof in such manner as to establish no substantial rotation of the air within the cylinder, discharging exhaust gases from the cylinder adjacent the inner end thereof, injecting fuel directly into the cylinder and axially thereof from the inner end during the latter part of the scavenging period, so as to form an axially directed hollow cone of spray, to cause the fuel to meet and mingle with the incoming air, spark-igniting the fuel, and varying the instant of initiation of fuel injection in accordance with variation in engine load without substantial variation in the instant of termination of injection.

2,318,334
DEVICE FOR TRIMMING LAWNS

William J. Rowan, Los Angeles, Calif.

Application November 13, 1940, Serial No. 365,432
20 Claims. (Cl. 56—249)



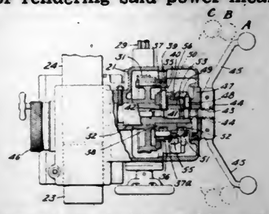
1. In a device for mowing grass in an annular zone, the combination of: an upright member providing a longitudinal axis; a body providing a ground-engageable centering means; means for connecting said body to the lower end of said upright member to dispose said centering means substantially coaxial with respect to said longitudinal axis; a stationary blade; means for mounting said stationary blade to extend sidewise from said body at an acute angle with respect to said longitudinal axis; a rotary blade means; means for mounting said rotary blade means to turn about an axis above said stationary blade in shearing relationship therewith; and means for rotating said rotary blade means relative to said stationary blade.

2,318,335
SPINDLE CONTROL FOR DRILLING AND TAPPING MACHINES

Lawrence L. Schauer, Wyoming, and John H. McKewen, Cincinnati, Ohio, assignors to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a corporation of Ohio

Application February 8, 1936, Serial No. 63,003
14 Claims. (Cl. 10—136)

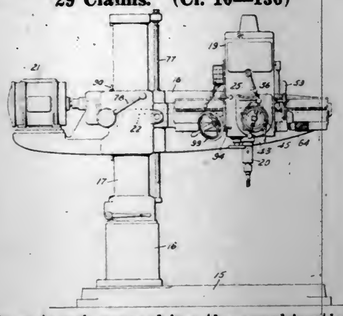
1. A spindle speed and feed control for a machine tool combining, a rotatable and translatable spindle; power means electively available for rotating said spindle selectively in reverse directions; a power feed clutch between said power means and said spindle; a rotatable feed pinion shaft and connections between said shaft and said spindle for translating same; a manually operable lever mounted upon said shaft; a lost motion connection between said lever and said shaft including a member normally movable axially of the shaft upon actuation of said lever angularly; means actuated by the axial movement of said member for rendering said power means operative; and means actuated by said lever for rendering said power feed clutch effective to establish a feed drive between said power means and said spindle.



2,318,336
TAPPING MACHINE

Lawrence Lee Schauer, Wyoming, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a corporation of Ohio

Original application December 13, 1935, Serial No. 54,206. Divided and this application December 30, 1936, Serial No. 118,245
29 Claims. (Cl. 10—136)



1. In a tapping machine the combination of a support; an arm mounted for translation on said support; a tap spindle carried by the arm; a reversible electric motor; means for translating said arm on said support; continuously operative power transmitting connections between said motor and said spindle; connections between said motor and said arm translating means electively operable to effect translation of the arm on said support; control means for said motor including a first set of forward and reverse control switches adapted when selectively actuated to effect forward or reverse rotation of said spindle, a second set of forward and reverse control switches adapted when selectively actuated to effect translation of said arm in either direction on said support; and means operative when one of the switches of said second mentioned set of switches is actuated to an effective position to render the actuation of the switches of the other of said sets ineffective to control the rotary motions of said tap spindle.

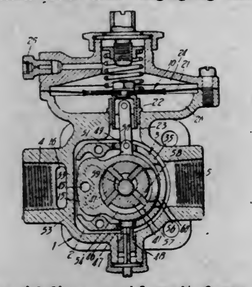
2,318,337
FLUID PUMP

Arthur G. Schlosser, Detroit, Mich., assignor, by mesne assignments, to Chandler-Evans Corporation, Meriden, Conn., a corporation of Delaware

Application October 14, 1939, Serial No. 299,567
17 Claims. (Cl. 103—120)

1. A pumping unit for fuel pumps comprising

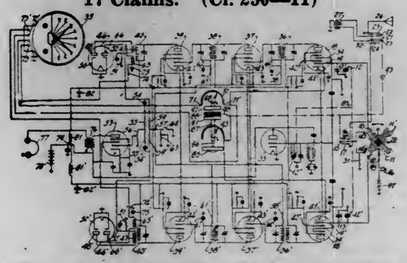
end plates having bearings, spacing means between and connected to said plates and forming a unitary frame, a liner pivoted in said end plates and housed in said frame, and a rotor journaled in the bearings of said end plates and rotatable within said liner having slots therein and vanes sliding in said slots and engaging the inner periphery of said liner, said unit frame and liner having inlet and outlet passage means communicating with said rotor through said liner and having one of said passage means formed in and extending through said end plates and formed in and extending through the ends of said liner adjacent the liner pivot.



2,318,338
RADIO DIRECTION FINDER

Emil J. Simon, New York, and Edward J. Hefele, Amityville, N. Y., assignors to Radio Navigational Instrument Corporation, New York, N. Y., a corporation of New York

Application June 2, 1938, Serial No. 211,338
17 Claims. (Cl. 250—11)



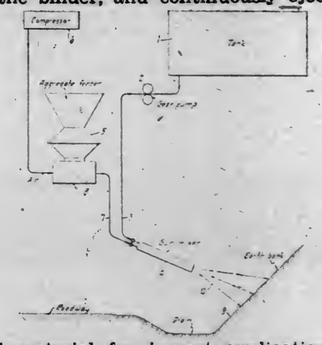
5. In a radio direction finder comprising a pair of orthogonal concentric, electrostatically shielded loops, separate receiving and amplifying channels having equal overall sensitivities and connected to said loops, a common bearing indicator connected to the outputs of said channels, a non-directional antenna, and unitary control means for temporarily connecting said loops in series and simultaneously connecting said non-directional antenna to the midpoint of said serially connected loops.

2,318,339
MIXING AND SURFACING METHOD

Allen L. Stone, Los Angeles, Calif., assignor to Pneumastic Co., Inc., Los Angeles, Calif., a corporation of Nevada

Application March 25, 1940, Serial No. 325,753
5 Claims. (Cl. 94—23)

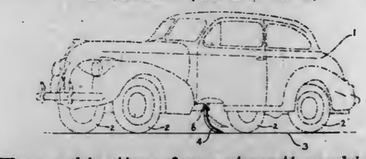
2. The method of mixing and applying an erosion-resistant coating to roadway surfaces which comprises continuously supplying measured amounts of a natural soil aggregate and a binder to a confined air stream to effect a substantially complete coating of the particles of aggregate with the binder, and continuously ejecting the mixed material for impact application to the roadway surface to be coated.



2,318,340
STATIC ELIMINATOR FOR VEHICLES

Sheldon P. Thacher, Grosse Pointe, and Glenn G. Havens, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application April 2, 1940, Serial No. 327,452
1 Claim. (Cl. 175—264)

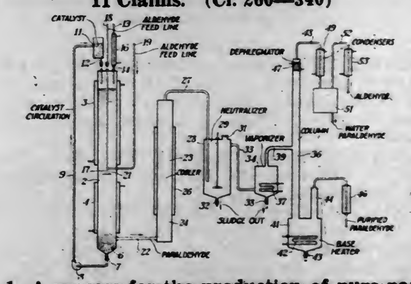


The combination of an automotive vehicle having rubber tires acting as electrical resistors between the vehicle body and the road and of a strip of flexible, rubberized material rigidly attached to the vehicle body, forming an electrical circuit therewith and being of a length and width sufficient to engage the road surface when the vehicle is at rest and of sufficient flexibility to be removed from road contact when the vehicle is operating at normal speeds.

2,318,341
PROCESS FOR THE POLYMERIZATION OF ALIPHATIC ALDEHYDES

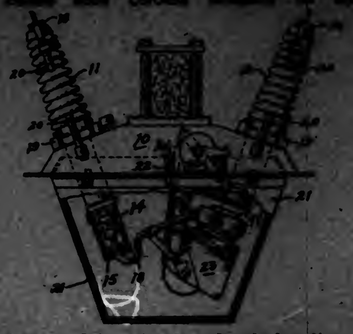
Benjamin Thompson, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 22, 1937, Serial No. 155,064
11 Claims. (Cl. 260—340)



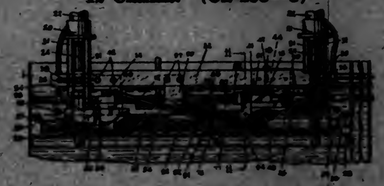
1. A process for the production of pure paraldehyde which comprises subjecting a mixture containing paraldehyde, acetaldehyde and an

[illegible] position, separate means for [illegible] and operating mechanisms in each of said [illegible] of breaks, means for retaining each of said [illegible] closing when predetermined conditions of operation, whereby said operating mechanisms and circuit breaker in operable



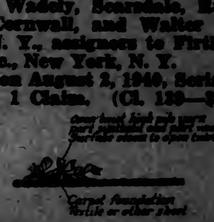
through a predetermined cycle of circuit opening and reclosing operations, and a single timing means operatively connected to each of said retaining means adapted to delay the release of said operating mechanism by either of said retaining means after the occurrence of said predetermined conditions.

2,318,244
VEHICLE STABILIZER-FORMING APPARATUS
Bertis H. Urschel, Bowling Green, Ohio
Application October 16, 1940, Serial No. 361,443
12 Claims. (Cl. 153—3)



1. In an apparatus for shaping elongated metal articles; a pair of movable anvils for supporting end parts of each article; a pair of pressure devices supported on the anvils; a pair of bars operated by the pressure devices; a pair of clamping elements movable along the bars for clamping the end parts of the article to the anvils; a shaping member located intermediate the anvils for shaping the article and moving the anvils and the said elements; and means for operating the shaping member.

2,318,245
PILE CARPET OR RUG
Harold E. Wadely, Scarsdale, Russell R. Matthews, Cornwall, and Walter A. Rice, Newburgh, N. Y., assignors to Firth Carpet Company, Inc., New York, N. Y.
Application August 2, 1940, Serial No. 349,810
1 Claim. (Cl. 139—391)



A pile surface carpet structure comprising a woven foundation, pile ends composed of a plu-

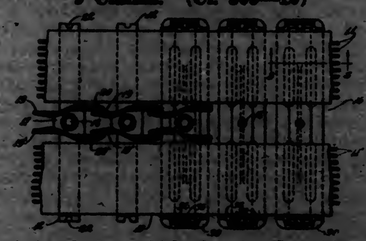
rality of different kinds of fibers forming interlocked tufts, each having fibers which are relatively fast colored to ordinary fast colorizing agents while the remaining fibers appear relatively to contain the normal pile ends in solid pattern-wise areas of lesser pile depth and with the remainder in a regular pattern having relatively more areas of greater pile depth than the said pile ends, the pile ends being of a length and flexibility to fall in diversity over the pile-less areas whereby the fiber coloring qualities of the ends of the pile tufts create combinations with the scattering by reflection an illusion of greater pile depth and partial concealment than is attainable in a structure having more numerous pile ends per unit of area for an equivalent repeat pattern.

2,318,246
ROTARY PUMP
Richard E. B. Wakefield, Aldan, Pa., assignor to The Selas Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 1, 1941, Serial No. 381,353
2 Claims. (Cl. 103—137)



1. A small, high speed pump of the rotary impeller type comprising a housing formed with a cylindrical pump chamber and with an inlet to, and an outlet from said chamber and an impeller comprising a cylindrical body smaller in diameter than said chamber and mounted to rotate in said chamber about an axis laterally displaced from the pump chamber axis so that said body is in contact with the peripheral wall of the pump chamber at one side of the axis of the latter, said impeller body being formed with a diametral slot, piston blades mounted in the opposite end portions of said slot and each in the form of a bundle of laminae extending longitudinally of the slot with their side surfaces parallel to the impeller axis and each longitudinally movable independently of the others and a body of rubber-like material interposed within said slot between the adjacent ends of the laminae forming said piston blades and compressed by the latter.

2,318,247
TRACK AND DETACHABLE GROUSER THEREFOR
Robert Mayne, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 1, 1941, Serial No. 381,327
9 Claims. (Cl. 305—10)



1. A track for self-laying track vehicles, said

2,318,248
GUN MOUNT
George Webb, Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application April 11, 1941, Serial No. 387,561
4 Claims. (Cl. 89—37)



1. A machine gun mount comprising in combination, a support, a plurality of gun mounting cradles pivotally carried by said support for vertical angular movement, a separate locking means for each of the cradles operable to hold each of the cradles in adjusted vertical angular positions or to permit free vertical angular movement thereof, and a single member for simultaneously operating all the said locking means.

2,318,249
EROSION CHECK DAM
Bryce R. Wiley, Des Moines, Iowa
Application December 2, 1940, Serial No. 368,182
1 Claim. (Cl. 61—35)

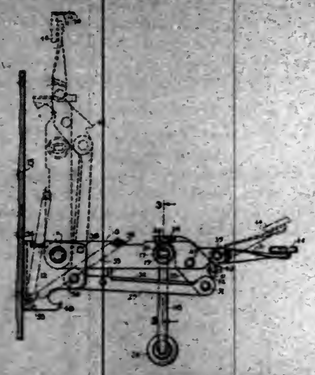


An erosion check dam, comprising a body portion formed of corrugated sheet metal with the corrugations running horizontally, the corrugation at the top of the sheet being flattened and projected rearwardly beyond the rear side of the body portion to form a spillway, the said top portion of the body portion being strengthened and reinforced at each side by a wing member of substantially triangular shape and having at its lower portion a flange fitted to the top surface of said upper edge portion and fixed thereto to also serve as wing members.

2,318,250
CAN OPENER
Myron J. Zimmer, Chicago, and Robert B. Paynes, Oak Park, Ill., assignors to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois
Application January 26, 1939, Serial No. 252,048
23 Claims. (Cl. 30—8)

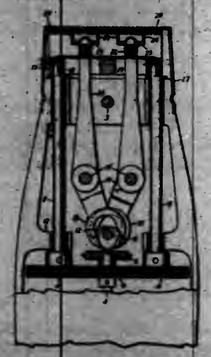
1. A can opener including a support adapted to be attached to a wall, an arm pivotally attached at one end to the support for vertical swinging movement thereon, a traction wheel and cutter carried by the free end of said arm and adjustable

toward and away from each other, and means to cause the traction wheel and cutter to approach



each other and vice versa upon downward swinging of the arm from a vertical position.

2,318,351
SHAVER
Adalbert Alexay, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 16, 1942, Serial No. 469,206
4 Claims. (Cl. 30—43)

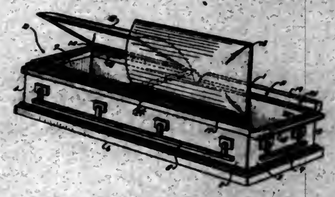


1. In a shaver, spaced skin-gripping members, a cutting head between said members having an outer skin-engaging surface and an inner shearing surface, hair-receiving openings in said head, means for effecting a slow speed relative movebers whereby the hair-receiving openings scan ment between the head and the gripping memthe skin surface between the gripping members, and a high speed cutter cooperating with the inner surface of the head to shear hair projecting through said openings.

2,318,352
LIGHT-SENSITIVE DIAZOTYPE LAYERS AND METHOD OF MAKING SAME
Rodof Jan Hendrik Alink, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
No Drawing. Application May 1, 1940, Serial No. 332,846. In Germany April 11, 1939
7 Claims. (Cl. 95—7)

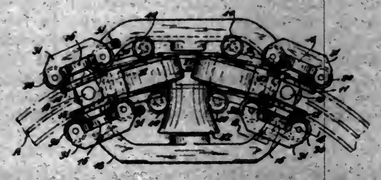
1. In the manufacture of light-sensitive diazotype material, the steps of applying to the surface of a support a suspension of a diazonium compound in a solution of a water-insoluble binder in a volatile organic liquid in which the diazonium compound is insoluble, and volatilising the organic liquid.

2,318,353
CASKET
Harry A. Allshouse, Kansas City, Mo., and Albert D. Button and Russell W. Frazier, Wichita, Kans., assignors to The Wichita Casket Company, Wichita, Kans., a corporation of Kansas
Application September 3, 1940, Serial No. 355,110
6 Claims. (Cl. 35—49)



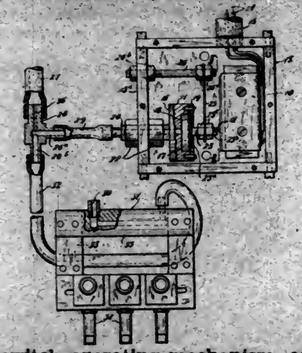
1. In a device of the character described, a burial casket shell, separate lids arranged substantially in end to end relation respectively hingedly mounted on opposite sides of the shell to cover an open end of the shell said lids opening in opposite directions, means in said shell dividing said shell into separate compartments and said compartments each having different decorative means to provide a different appearance thereto.

2,318,354
MONORAIL TRACTOR
Alphonse F. Anjeskey, Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Application December 11, 1941, Serial No. 422,529
9 Claims. (Cl. 105—153)



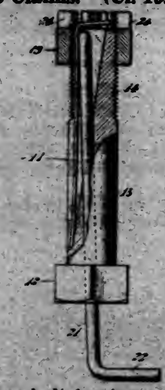
1. An overhead monorail underslung tractor comprising a frame, supporting wheels connected to said frame and adapted to engage and travel along the upper sides of opposite flanges of an inverted T-shaped overhead monorail, a drive wheel rotatably supported by said frame, said drive wheel having a peripheral surface arcuate in transverse cross-section, a traction wheel having a tread portion adapted to engage the underside of the rail and the arcuate surface of said drive wheel, means for pivotally supporting said traction wheel for rotation about an axis offset from and angularly disposed with respect to its axis of rotation, means for driving said drive wheel, and means for continuously maintaining the center of the tread portion of said traction wheel substantially in line with the center line of the underside of the rail at the point of contact therewith.

2,318,355
SWITCH OPERATING MEANS
Robert M. Bailey, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application June 17, 1941, Serial No. 398,427
4 Claims. (Cl. 200—83)



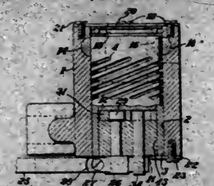
1. In switch operating mechanism, an expansible chamber device having a member adapted to be moved in response to the building up of super-atmospheric pressure in the device, a manually portable device having thereon an air escape opening normally communicating with atmosphere but adapted to be manually closed, an air line for supplying air at super-atmospheric pressure, said line having a restriction therein and having connections leading from the restriction to said expansible chamber device and to said air escape opening, and an electric switch arranged to be actuated by movement of said member.

2,318,356
SPRING LOCKING SCREW BOLT
Oscar Ball, Hewlett, N. Y.
Application June 5, 1942, Serial No. 445,928
5 Claims. (Cl. 151—8)



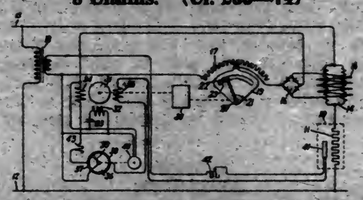
1. In a screw bolt having a longitudinally extending groove therein, said groove being at an oblique angle to the axis of said bolt, a longitudinally extending spring member located in said groove with one end permanently affixed to said bolt and having at the opposite end thereof an anterior extension of approximately the length of the diameter of the shank of said bolt, said extension being bent laterally to the anterior end of said groove to form a self-locating releasably locking portion normally extending laterally beyond the periphery of said bolt, an auxiliary operating channel formed of an auxiliary grooved bore extending longitudinally of said bolt and at an inclined plane into said groove to intersect the same, said auxiliary channel beginning at the head end of said bolt, a releasing member adapted to be inserted in said auxiliary channel to engage said spring member and flex the same to move the locking portion thereof into an extension of the periphery of said bolt to thereby permit a nut to be threaded on or removed from said bolt.

2,318,357
CLUTCH
Rudolph Becker, North Plainfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 17, 1941, Serial No. 374,831
7 Claims. (Cl. 192—45.1)



1. In a clutch mechanism having a rotary member with an internal bore, intermittently rotated cylindrical dogs located in tandem relation along the longitudinal axis of and within said bore and having peripheries adapted to be shifted into engagement with the surface of said central bore, means connecting said dogs together eccentrically of their common axis of rotation and permitting relative movement between said dogs, and means to effect relative movement between said dogs about their common connecting means to thereby cause them to frictionally grip the internal bore of said rotary member and thereby drive the same.

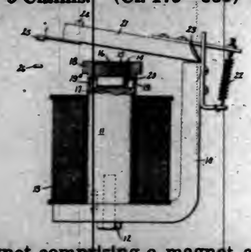
2,318,358
CONDITION CONTROL SYSTEM
Alexander W. Bedford, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 16, 1942, Serial No. 431,084
8 Claims. (Cl. 236—74)



6. In a system for controlling the temperature of an enclosure, heating means for supplying heat to said enclosure, control means for changing the output of said heating means in a continuous manner, a reversible electric motor for driving said control means, reversing means for selectably connecting said electric motor to a source of electric current supply for rotation in opposite directions, timing means arranged periodically to operate said reversing means thereby periodically to connect said motor for rotation in opposite directions for predetermined fixed time intervals, said motor normally oscillating said control member about a fixed mean position while said enclosure remains at a predetermined normal temperature, and temperature sensitive means responsive to the tempera-

ture of said enclosure for controlling the speed of said reversible motor in one direction thereby to unbalance the oscillations of said control member in response to any deviation of said temperature from said predetermined normal and to cause the mean position of said control member to progress in a direction determined by the direction of said deviation and at a rate proportional to the magnitude of said deviation.

2,318,359
ELECTROMAGNET
Guy Bellows, Jr., Erie, Pa., assignor to General Electric Company, a corporation of New York
Application July 30, 1941, Serial No. 404,655
5 Claims. (Cl. 175—336)



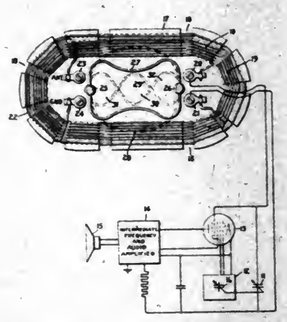
1. A magnet comprising a magnet core including a leg made of magnetic material, a substantially central recess in one end of said leg leaving a wall integral with said leg, the outer end of said wall forming a pole face, a plug made of magnetic material in said recess, means adjustably securing an outer end portion of said plug to an outer end portion of said wall in good electromagnetic flux conducting relation therewith and for movement of said plug in said recess to vary the air gap between the inner end of said plug and the bottom of said recess, said plug having an inner end portion of smaller diameter than said recess to provide a peripheral flux insulating air gap between said portion and said wall, and the outer end of said plug terminating inside of the plane of said pole face so as to be in magnetic flux insulating spaced relation with the plane of said pole face whereby substantially all of the magnetic flux passing through said leg is caused to pass through the outer end of said wall to said pole face, said plug and said air gap forming a magnetic flux path from the outer end of said wall to said leg in parallel with the magnetic flux path directly through said wall to said leg and the combined magnetic reluctances of said paths being adjustable by adjusting said plug in said recess thereby to adjust the length of said air gap.

2,318,360
ABRASIVE
Raymond C. Benner and Henry N. Baumann, Jr., Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application May 5, 1941, Serial No. 391,954
6 Claims. (Cl. 51—309)



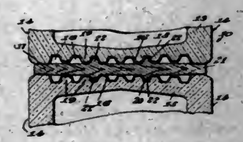
1. As a new article of manufacture, an abrasive or wear-resistant material consisting essentially of alumina having intergranularly dispersed therein a minor amount of monazite.

2,318,361
LOOP ASSEMBLY
Alfred F. Bischoff, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application September 13, 1940, Serial No. 356,681
7 Claims. (Cl. 250—16)



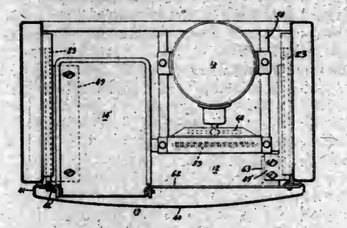
1. In combination, a loop antenna comprising a coil, and a closed circuited turn in the form of a relatively inelastic conductor positioned in inductive relation with said coil, said conductor having sufficient flexibility that it may be readily manipulated by the fingers of the operator into different shapes thereby to vary the inductance of said coil and having sufficient retentivity and low resilience substantially to retain any shape into which it is manipulated, one of said shapes being that of a single loop to make the inductance of said antenna a minimum and another of said shapes being that of a plurality of loops to make the inductance of said antenna a maximum.

2,318,362
WALL CONSTRUCTION
Durwood L. Boeglen, Washington, D. C., and Edward P. Lockart, Toledo, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application July 30, 1942, Serial No. 452,840
5 Claims. (Cl. 72—42)



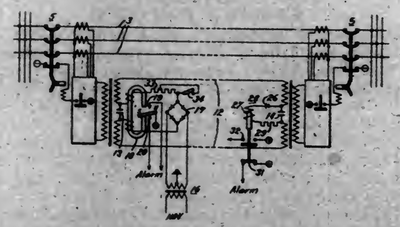
1. Wall construction comprising horizontal and vertical rows of rectangular blocks, each block formed with at least one continuous peripheral groove in its mortar bearing surface, a gritty material dispersed over and bonded to said surface, soft wood separator strips having the gritty material embedded therein under pressure and provided with a rib fitting into said groove.

2,318,363
STORAGE DRAWER ASSEMBLY
Edwin H. Boddy, Erie, Pa., assignor to General Electric Company, a corporation of New York
Original application January 4, 1941, Serial No. 373,119. Divided and this application May 7, 1941, Serial No. 392,383
3 Claims. (Cl. 45—77)



1. In a drawer assembly, a panel element, a drawer element carried by said panel element, and slide suspension means for said elements comprising a pair of horizontally disposed, spaced-apart, parallel members, and a second pair of members constructed and arranged for slidable engagement with the first-mentioned members and for retention in operative association therewith during the sliding movement of said elements, one member of said second pair being adjustably secured to one of said elements and the other member of said second pair being secured to the other of said elements thereby permitting assembly in such a way that no binding occurs during the sliding movement of said elements.

2,318,364
PILOT-WIRE SUPERVISORY CIRCUITS
Myron A. Bostwick, Budd Lake, and Roy M. Smith, Livingston, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 10, 1940, Serial No. 356,136
10 Claims. (Cl. 177—311)



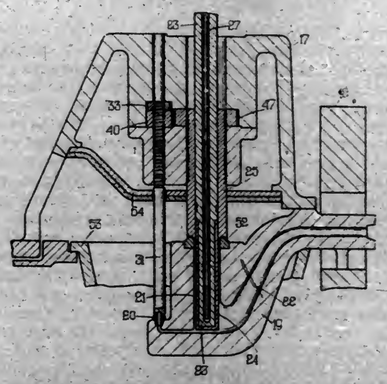
1. In combination, a protected alternating-current line-section, a pilot wire between the ends thereof, line-current-responsive means at each end of the pilot wire each deriving an alternating-current electrical quantity responsive to the line-current at its own end of the line-section, electrical-connection means for utilizing the pilot wire to totalize the derived electrical quantities from the respective ends, line-fault-responsive relaying-means for responding to the totalized quantities, means, including a direct-current source at a first end of the pilot wire, for circulating a direct current of a predetermined magnitude through said pilot wire, and means at the second end of the pilot wire for securing a selective action with respect to the circulating direct current according to the direction of said circulating direct current at said second end.

2,318,365
DENTAL AND MOUTH CLEANSING MEANS
Bigelow Boysen, Chicago, Ill.
Application March 11, 1940, Serial No. 323,364
5 Claims. (Cl. 15—227)



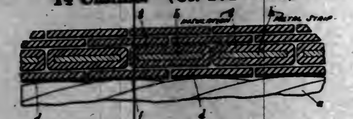
5. The combination with an elastic tubular member adapted to encase a human finger and having one end closed, the wall of said member being rolled radially in an axial direction to the closed end, of a retaining means comprising an annulus adapted to receive the rolled tubular member on its outer periphery and having radial end flanges to retain the rolled member, one of said flanges being disposed inside the rolled tubular member against the closed end portion thereof.

2,318,366
MACHINE FOR PRESSURE CASTING OF MATERIALS
Percy Reginald Bradley, Eccleston Park, Prescot, England
Application April 9, 1941, Serial No. 387,719
In Great Britain January 27, 1941
10 Claims. (Cl. 22—68)



1. A pressure casting feed device comprising a plunger, an open topped chamber of a greater diameter than is necessary for providing a sliding fit between it and the plunger and having two base ducts respectively for the inlet of molten material and the ejection thereof, means to feed molten material to said chamber, means to isolate the said material from its supply, means to seal the open top of the chamber, except to the plunger itself, leaving an air pocket between the plunger and the molten material, and power operated means for displacing the plunger towards but not in contact with the material to compress the air in the pocket between them and thus, on continuing the plunger displacement, to deliver molten material through the exit duct of said chamber for feeding to a mould.

2,318,367
INSULATED ELECTRIC CONDUCTOR
John Ellwood Brigg, Rickmansworth, England, assignor to Okonite Callender Cable Company Inc., Paterson, N. J., a corporation of New Jersey
Application July 18, 1939, Serial No. 285,151
In Great Britain July 19, 1938
14 Claims. (Cl. 174—108)
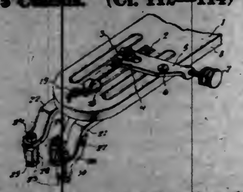


1. An electric cable comprising a conductor, a screen applied to said conductor, said screen being formed of a tape consisting of a metallic strip having insulating material in intimate contact with the entire outer surface of said metallic strip and extending around at least one edge thereof and covering at least a portion of the inner surface thereof, said tape being applied to said conductor so that no part of said metallic strip is exposed on the outer surface of said screen.

2,318,368
SPRAYING DEVICE FOR PAPER MACHINES
Arthur E. Broughton, Glens Falls, N. Y.
Application April 14, 1939, Serial No. 267,772
1 Claim. (Cl. 92—50)



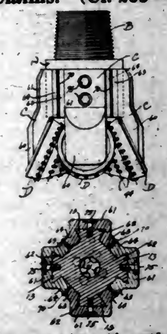
In a paper making machine, a rotary cylindrical screen having one closed end and one open end and through which watered pulp passes from the exterior of the screen to the interior thereof, a fixed water supply tube extending into said screen from the open end thereof, a tubular apertured spray head mounted for reciprocation within said screen on said water supply tube and having its ends packed relative to said tube, said tube having communication with said spray head between the packed ends thereof, means for reciprocating said spray head, stationary means for supplying water to said tube, and fixed means adjacent the open end of said screen for solely supporting said tube and said means for reciprocating said spray head.

2,318,369
BUTTON HOLDER
Jacob Brussell, New York, N. Y.
Application December 7, 1939, Serial No. 307,949
5 Claims. (Cl. 112—114)



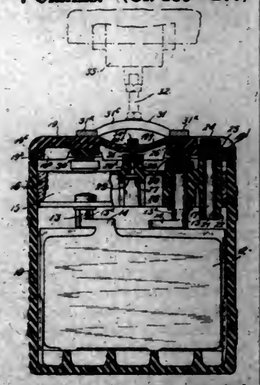
1. A button holder adapted to be attached to a sewing machine for cooperative association with the needle thereof comprising a base member, a plurality of fingers adjustably supported by said base member, a button contact member supported by each of said fingers for rotation about a vertical axis, and each of said contact members having at least one button receiving groove parallel to said axis.

2,318,370
OIL WELL DRILLING BIT
Woodrow M. Burch, Oklahoma City, Okla., assignor of three-fourths to M. Kasner, Oklahoma City, Okla.
Application December 6, 1940, Serial No. 368,921
3 Claims. (Cl. 255—71)



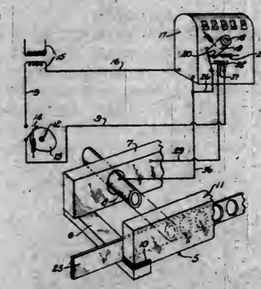
1. In a drill bit construction the combination of a bit head having the outer side walls thereof provided with a plurality of tongues, the side edges of each of which relatively converge in the general direction of the axis of the bit head, said tongues extending to the lower end of said bit head, a plurality of cutters, cutter supports having recesses removably fitting upon said tongues in dovetailed manner to prevent lateral disconnection of the cutter supports from their respective tongues, welds connecting in rigid relation the adjacent side edges of said cutter supports to hold them in an integral construction, and means to prevent endwise relative disconnection of the bit head and cutter supports.

2,318,371
STORAGE BATTERY
Julius Harold Bushman, Willoughby, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application January 29, 1941, Serial No. 376,500
7 Claims. (Cl. 136—170)



1. In a storage battery, a container having a cell compartment, a cell cover sealed in the compartment, a battery element in the compartment having one or more terminals extending through and sealed in the cell cover, said cell cover having a normally closed filling opening with an imperforate sleeve-like extension extending down from the lower side of the cover to substantially the normal electrolyte level and having also a normally open vent opening separate from the filling opening, an auxiliary cover secured to the top of the battery and serving as a protector for the cell cover and the parts carried thereby, said auxiliary cover having a pair of openings one affording access to the filling opening, and a valve having a yieldable open lower portion, said valve at all times resting on the cell cover and having an imperforate portion located above said vent opening and a stem extending through said other opening of the auxiliary cover and serving when actuated in one direction to close said vent opening whereby the vent opening may be closed while the cell is being filled and when released serving by spring action to open the vent opening.

2,318,372
COUNTER OPERATING MECHANISM AND CONTROL
Eugene Caldwell, Whitefish Bay, Wis., assignor to Wrought Washer Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application December 18, 1939, Serial No. 309,789
4 Claims. (Cl. 235—92)

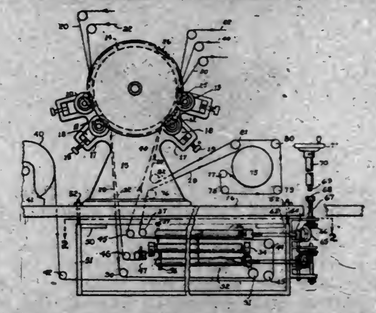


1. In combination, a source of electrical current, a main electrical circuit connected to said source, an auxiliary electrical circuit connected to said source, an electrically operated counter included in both circuits, a machine having a movable metallic tool the functions of which are to be counted, the machine also having a metallic work support, the work support and tool being electrically insulated from each other but forming parts of the main circuit, said work support being adapted to support metallic work and said tool being movable into and out of contact with said supported work, said main circuit being normally open but being automatically temporarily closed during certain portions of the cycle of operation of the machine when the tool contacts any part of the supported work, a temporary closing of the main circuit being effective to initially energize the counter, counter actuated means operative after the initial energization of said counter for closing said auxiliary circuit to establish proper electrical connection of the counter with the source of current through said auxiliary circuit, and means for thereafter opening the auxiliary circuit.

2,318,373
NONRESINOUS CONDENSATION PRODUCT
Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application November 22, 1940, Serial No. 366,754
6 Claims. (Cl. 252—64)

1. A range of neutral liquid condensation products having viscosities at 25° C. at least as high as about 260 seconds Saybolt Universal and being formed by the interaction of aromatic alcohol and a condensing agent at about 120 to 140° C., said products being chemically stable when heated in contact with air at 120° C.

2,318,374
TEXTILE PRINTING APPARATUS FOR PRINTING ONE OR BOTH SIDES OF FABRICS
John Henry Coogan, West Warwick, R. I., assignor to Cranston Print Works Company, Cranston, R. I., a corporation of Rhode Island
Application June 20, 1941, Serial No. 398,996
4 Claims. (Cl. 101—179)

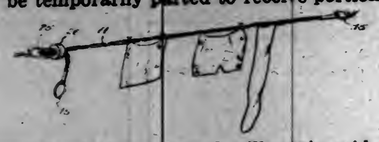


1. A textile printing apparatus comprising a plurality of printing couples arranged to print one side only of a fabric passing normally there through, a guide member arranged for receiving the unprinted side of the fabric in its travel from one couple at an intermediate printing stage, two skewed guides arranged at substantially 90° to each other to contact with said unprinted side another guide at 45° to each of the skewed guides and associated guide parts which receive the fabric from said member and reverse the same, means for guiding the reversed fabric to another printing couple for printing the unprinted face thereof, means including manually adjustable mechanism operable from a position adjacent to the printing machine for adjusting the angularity of each skew roll to change the direction of fabric travel as it enters the second printing zone and means for adjusting the distance of travel of the fabric from one printing couple to another, whereby the patterns on the opposite sides of the fabric may be registered.

2,318,375
CLOTHESLINE
Lloyd G. Copeman, Metamora, Mich.
Application June 6, 1940, Serial No. 339,063
9 Claims. (Cl. 211—119.13)

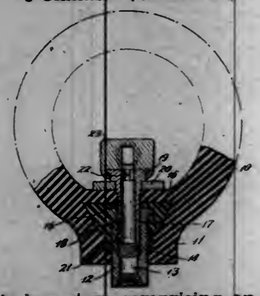
1. A clothesline comprising a braided cord, the individual strands of which are formed of a flexible, smooth elastic material, means on the ends of said cord for maintaining the same in braided condition and for permitting the cord to be stretched between two spaced points, the strands

of the cord being of such a nature that they may be temporarily parted to receive portions of



garments and when released, will retain said garments in suspended relation.

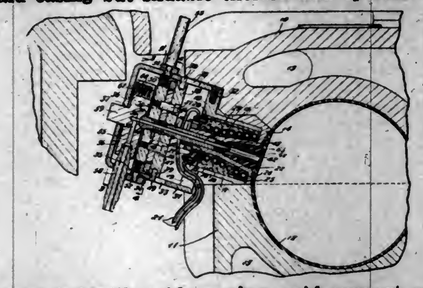
2,318,376
AIR BAG STEM
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 29, 1941, Serial No. 385,896
3 Claims. (Cl. 18—45)



3. An air bag stem comprising an outer portion adapted to be secured in the material of the air bag and provided with a bore therethrough having its inner end threaded, an inner stem portion externally threaded and screwing into the threaded part of the bore through the outer stem portion and extending beyond the inner end of the latter, means carried by the inner end of said inner stem portion adapted to cooperate with the outer stem portion when said inner portion is screwed into the latter to clamp the material of the air bag therebetween, said means including an enlarged head on the inner end of said inner stem portion, said head having at its inner end a radially extending flange, and a fitting mounted on the inner end of said head and provided with an inturned annular connecting flange embracing said radially extending flange.

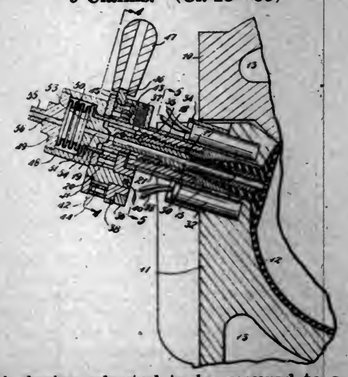
2,318,377
STEM CONNECTION FOR CURING MOLDS
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 4, 1941, Serial No. 386,915
15 Claims. (Cl. 18—38)

9. In combination with a curing mold for inner tubes or other inflatable rubber articles provided with rubber valve stems having threaded portions, a device for connecting the stems to a source of pressure fluid to enable the articles to be inflated in the mold and which device is capable also of curing and/or molding the rubber stems, said device comprising elements fixedly and detachably secured to a portion of said mold and provided with a valve stem cavity therein in communication with the main mold cavity, means associated with said elements for providing vulcanizing heat in close proximity to said stem cavity, a member slidably and rotatably supported by said elements and having an end portion extending into said stem cavity and threaded and shaped to engage the threaded portions of said valve stems and have sealing engagement therewith, said member being provided with a passage therein in communication with a source of supply of pressure fluid, a casing fixedly secured to said elements, a support non-rotatably mounted in said casing but slidable therein and operatively



associated with said member, said support and said member having cooperating means for rotating said member, and means carried by said casing and having rotative movement to actuate said cooperating means and for sliding movement to move said support and said member endwise, said last named means including a cam slot formed in said casing, and an operating handle extending through said slot.

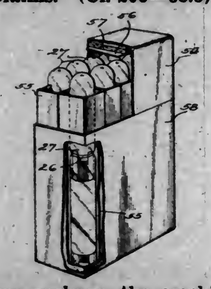
2,318,378
STEM CONNECTION FOR CURING MOLDS
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 17, 1942, Serial No. 435,018
9 Claims. (Cl. 18—38)



9. A device adapted to be secured to a curing mold for inner tubes or other inflatable rubber articles for connecting the valve stems of said articles to a source of pressure fluid and for positioning the stems during the curing of the articles in the mold and comprising tubular means provided with a threaded internal portion and with a valve stem cavity adapted when said device is secured to the mold to be in communication with the mold cavity, a stem connecting member having a bore therethrough and slidable and rotatable in said means and provided with a threaded member cooperating with said threaded internal portion, said stem connecting member being provided at its inner end within said valve stem cavity with a threaded portion adapted to screw

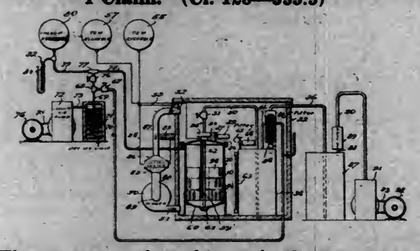
into a valve stem and with a portion adapted to have sealing engagement with the bore of said stem, and means for rotating said connecting member to cause said threaded portion thereof to screw into the valve stem and to cause said threaded member to move said connecting member endwise and including operating means having a limited rocking movement, and elements operatively connecting said operating means and said stem connecting member to transmit the rocking movement of said operating means to said connecting member in the form of accelerated rotation of the latter.

2,318,379
SUTURE PACKAGE
Walter S. Davis, San Bernardino, and Charles T. Davis, Los Angeles, Calif.
Application April 17, 1941, Serial No. 388,948
4 Claims. (Cl. 206—63.3)



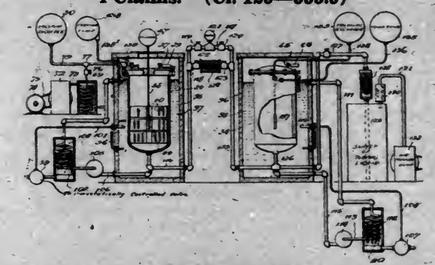
1. In a suture package, the combination of a lower box member having plane rectangular sides and end with a cover member of similar shape and a plurality of tubular members of the same material, said tubular members being open at each end, and a plurality of assembled tubular members being adapted to fit snugly within the box and cover, said tubular members projecting from said box to effect engagement with the inside of the cover, whereby the cover and box are retained in assembled relation by frictional engagement with the tubular members.

2,318,380
METHOD OF STERILIZING AND PACKAGING SUTURES AND THE LIKE
Walter S. Davis, San Bernardino, and Charles T. Davis, Los Angeles, Calif.
Application August 8, 1941, Serial No. 405,972
1 Claim. (Cl. 128—335.5)



The process of making sterilized packaged sutures which comprises winding a suture on a reel, placing the reeled suture into a glass tube open at one end, plugging that end with a plug of cotton, placing the glass tube in a vessel capable of being evacuated and evacuating air therefrom while subjecting the vessel to a temperature sufficient to thoroughly sterilize the entire contents of the vessel, cooling the vessel and its contents and restoring atmospheric pressure therein, introducing an aseptic liquid into the vessel until the tube therein is completely immersed and the level of said liquid is well above the cotton plug, partially exhausting air from the vessel to lower the pressure of the air in the tube, allowing air to enter the vessel to restore atmospheric pressure therein whereby to cause said liquid to filter through the cotton plug and partially fill the tube, removing the partially filled tube from the vessel, and then hermetically sealing the glass tube.

2,318,381
APPARATUS FOR TREATING AND PACKAGING SUTURES AND THE LIKE
Walter S. Davis, San Bernardino, and Charles T. Davis, Los Angeles, Calif.
Application August 8, 1941, Serial No. 405,973
4 Claims. (Cl. 128—335.5)

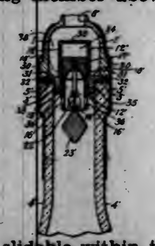


1. In an apparatus for sterilizing sutures or the like, the combination of a pair of bath receptacles for supporting a heating bath, each of said bath receptacles having a heating bath of liquid and conduits extending from said receptacle to a heating coil and back to said bath receptacle, a liquid pump in one of said conduits for circulating the bath liquid, heating means controlled responsive to the temperature of the bath liquid in the bath receptacle for heating the liquid in said coil, a suture sterilizing receptacle in one of said bath receptacles, and a tubing fluid sterilizing receptacle in the other of said bath receptacles, a connecting conduit joining said two sterilizing receptacles and having a control valve and means for applying a differential of pressure to said sterilizing receptacle whereby the tubing fluid may be caused to flow from the tubing receptacle into the suture sterilizing receptacle to a predetermined level and by further change of pressure caused to flow into the suture tubes through filters on the ends of said tubes.

2,318,382
CLOSURE FOR NONREFILLABLE CONTAINERS
Jose Soto del Llano, Habana, Cuba, assignor of one-fourth to Ricardo Moré Ferrer, Habana, Cuba
Application March 21, 1942, Serial No. 435,710
In Cuba June 21, 1941
2 Claims. (Cl. 215—23)

1. A closure for non-refillable containers, comprising an outer casing adapted to rest on the container mouth, a metal strap which inviolably secures the casing on the container mouth, a valve-carrying member closed at its top end and opened at its lower end and which is provided at its middle portion with an annular flange resting on the container mouth and fitting with the lower edge of the casing there providing an an-

nular space between the valve-carrying member and the casing, a sleeve threaded within the lower portion of the valve-carrying member and providing an annular space between the sleeve and the container neck, a series of side openings in the valve-carrying member above the flange, a



valve fitted and slidable within the valve-carrying member and adapted to seat on the upper edge of the sleeve, a series of side openings at the projecting portion of the sleeve, and a weight flexibly connected to the valve and adapted to laterally fall beyond the lower end of the sleeve.

2,318,383

SWITCH WIPER SPRING AND METHOD OF REPLACEMENT THEREOF

Percy B. Drake, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 28, 1941, Serial No. 400,340

9 Claims. (Cl. 179—27.51)



1. In a switching mechanism, a set of wipers including a wiper spring and a segment of a companion wiper spring mounted in cooperative relation with each other, said segment including a section of a shank of said companion spring, a second wiper spring removably affixed to said segment, said second spring comprising a contact making member, a shank, a plurality of projections on said shank for clinching the sectional shank of said segment, an arcuate member concentric with the wiper spring, and a furcated terminal at the extremity of said arcuate member for connection with said segment of the companion spring.

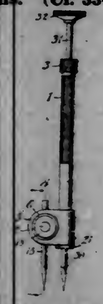
2,318,384

TOOLMAKER'S COMPASS

Jerome A. Fried, Ithaca, N. Y.

Application March 25, 1941, Serial No. 385,108

7 Claims. (Cl. 33—155)



1. In a compass, the combination of a hollow staff, a rotatable worm shaft within said staff, said worm shaft having a head above said staff by which it can be turned, a worm on the lower end of said worm shaft, an axially slidable needle shaft extending thru inside the staff, worm and worm shaft, said needle shaft having a head forming a finger rest, a worm wheel mounted on the lower portion of said staff and meshing with said worm, and a drawing point attached to said worm wheel, whereby the partial rotation of said worm wheel will swing the drawing point to set various amounts of compass radius.

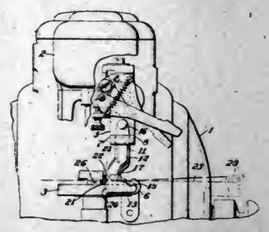
2,318,385

UNCURLING GUIDE FOR SEWING MACHINES

Hans Hacklander, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application March 22, 1941, Serial No. 384,635

4 Claims. (Cl. 112—20)



1. A fabric uncurling and guiding device for sewing machines comprising, a central shank terminating in a fabric-guiding plate, a gauge pin carried by and disposed transversely of said guiding plate for contacting and gauging the height of the edges of a fabric, said guiding plate being provided with an inclined shoulder portion located on the trailing edge thereof and having a portion of said inclined shoulder disposed below said gauge pin for raising an initially seamed portion of said fabric above the normal feeding level as defined by the lower edge of said gauge pin, and presser-members adapted to cooperate with said guiding plate in the uncurling and guiding of the fabric.

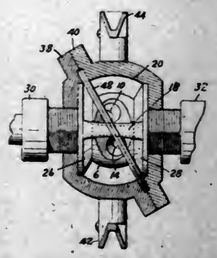
2,318,386

FLUID PUMP OR MOTOR

Thomas Norman Haines, Philadelphia, Pa., assignor of one-half to Karl Legner, Rydal, Pa.

Application February 23, 1940, Serial No. 320,324

2 Claims. (Cl. 103—121)



1. A fluid mechanism comprising a housing providing an annular space bounded by inner and outer concentric spherical surfaces and a pair of opposed coaxial conical surfaces, said conical and outer spherical surfaces being stationary relative to each other, a partition extending transversely of, and closing, said annular space, and secured to said inner spherical surface, the partition and inner surface being rotatable relatively to said other surfaces and the partition having surfaces bearing on said other surfaces in fluid tight fashion, a ring-shaped partition member tangent to both said conical surfaces dividing the space between said spherical surfaces, means for guiding said ring-shaped partition for rotation in its own plane relative to said outer spherical surface and said conical surfaces, said ring-shaped partition having a radially extending slot therein to pass said transversely extending partition, and the transversely extending partition having concave sides to fit in fluid-tight fashion the edges of the slot in said ring-shaped partition in all positions of the latter, the transversely extending partition and the plane of said ring-shaped partition being rotatable relatively to each other about the axis of said cones to form chambers of varying volumes bounded by portions of said spherical surfaces, said conical surfaces, and said partitions, and means providing inlet and outlet passages for fluid communicating with the chambers.

2,318,387

HEXYL-CHLORO-m-CRESOL ANTISEPTIC

Frank W. Hartman and Victor Schelling, Detroit, Mich., assignors to Henry Ford Hospital, Detroit, Mich., a corporation of Michigan

No Drawing. Application November 16, 1939, Serial No. 304,706

4 Claims. (Cl. 167—31)

1. An antiseptic composition comprising 4-n-hexyl-6-chloro-m-cresol.

2. An antiseptic composition comprising 4-n-hexyl-6-chloro-m-cresol and an amount of acid such as to provide a pH value between 2 and 3.

2,318,388

HEXYL-DICHLORO RESORCINOL ANTISEPTIC

Frank W. Hartman and Victor Schelling, Detroit, Mich., assignors to Henry Ford Hospital, Detroit, Mich., a corporation of Michigan

No Drawing. Application November 16, 1939, Serial No. 304,734

4 Claims. (Cl. 167—31)

1. An antiseptic composition comprising 4-6-dichloro-2-n-hexyl-resorcinol.

2. An antiseptic composition comprising 4-6-dichloro-2-n-hexyl-resorcinol and an amount of acid such as to provide a pH value between 2 and 3.

2,318,389

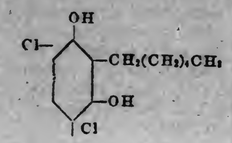
HEXYL1DICHLORO RESORCINOL ANTISEPTIC

Frank W. Hartman and Victor Schelling, Detroit, Mich., assignors to Henry Ford Hospital, Detroit, Mich., a corporation of Michigan

No Drawing. Original application November 16, 1939, Serial No. 304,734. Divided and this application September 6, 1941, Serial No. 409,901

1 Claim. (Cl. 260—623)

A new compound having the formula



2,318,390

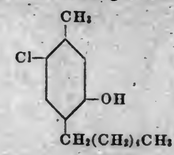
HEXYL-CHLORO-m-CRESOL ANTISEPTIC

Frank W. Hartman and Victor Schelling, Detroit, Mich., assignors to Henry Ford Hospital, Detroit, Mich., a corporation of Michigan

No Drawing. Original application November 16, 1939, Serial No. 304,706. Divided and this application September 6, 1941, Serial No. 409,902

1 Claim. (Cl. 260—623)

A new compound having the formula



2,318,391

PROCESS FOR PREPARING CAMPHENE

Clyde O. Henke, Wilmington, and Gastao Etzel, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 23, 1941, Serial No. 394,802

12 Claims. (Cl. 260—666)

1. The process of preparing camphene from pinene which comprises heating freshly distilled pinene with vermiculite in the presence of a member of the group consisting of dihydric and trihydric phenols of the benzene, naphthalene and diphenyl series.

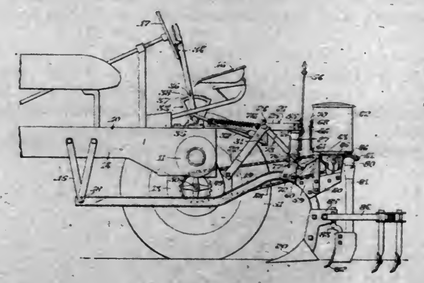
2,318,392

PLANTING ATTACHMENT

James L. Hipple, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

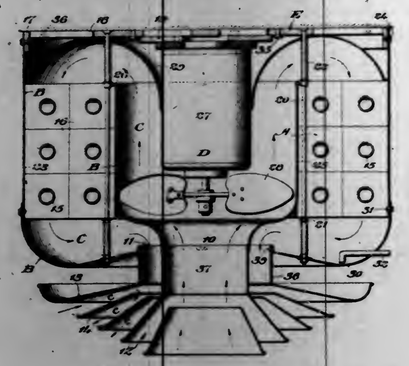
Application December 23, 1940, Serial No. 371,259

11 Claims. (Cl. 111—67)



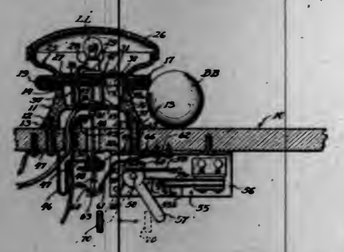
1. In combination, a tractor, planting means including a planter frame connected to the tractor for vertical movement, a seed hopper device attached to the planter frame for movement with respect thereto and having gearing adapted to be driven, drive gear operated by the tractor and carried by the planter frame for driving the gearing of the seed hopper device, and means connected between the tractor and the planter frame and thereby responsive to the vertical movement of the planter frame for bodily moving the hopper device so that its gearing is taken out of engagement with drive gear on the planter frame to effect thereby cessation of operation of the hopper device.

2,318,393
HEAT EXCHANGE APPARATUS
Friedrich Honerkamp, Vester F. Self, and Franz J. Kurth, New York, N. Y., assignors to Anemostat Corporation of America, a corporation of Delaware
Application February 29, 1940, Serial No. 321,556
8 Claims. (Cl. 62—129)



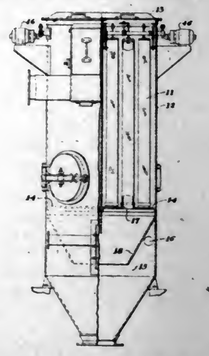
1. A heat exchange device comprising inner and outer annular wall means and a single thin intermediate annular wall and top wall means providing a passageway including inner and outer continuous annular portions communicating with each other at the top of the device and otherwise separated from each other throughout their lengths, said single thin intermediate wall terminating at the lower end of the device in a constricted neck defining one end of said passageway, a bottom wall extending inwardly from the lower end of said outer wall means and having a neck disposed in surrounding relationship to and spaced from said first mentioned neck to define the other end of said passageway, heat exchange means disposed in said passageway, and means for circulating air through said passageway and through said heat exchange means.

2,318,394
GAME APPARATUS
Donald E. Hooker, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Application August 22, 1941, Serial No. 407,848
6 Claims. (Cl. 200—52)



1. A device of the class described comprising a movable contact, a co-operating stationary contact, a trip switch, including trip mechanism coacting with said movable contact, and means adapted to be engaged and moved by a playing piece for moving said movable contact to effect circuit closing action thereof with said stationary contact and actuation of said trip switch.

2,318,395
CONVEYING APPARATUS
Philip R. Hornbrook, Allentown, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware
Application August 3, 1940, Serial No. 350,961
10 Claims. (Cl. 183—53)



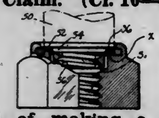
1. In an apparatus for separating finely entrained material from air or the like, including a plurality of filtering units connected at one end to a common source of the medium to be filtered and at the other end to a common exhaust manifold, each filtering unit having filter bags supported therein for shaking movement, the improvement in means for cleaning the filter members of each filtering unit comprising a valve to close the connection between the filtering unit and the exhaust manifold, means for actuating the valve including a solenoid and switch means for controlling the connection of the solenoid to its source of power, a second valve to open the filtering unit to atmosphere, means responsive to movement of the first named valve to closed position to open the second valve and cause a reversal of air through the filter bags, means for shaking the filter bags including a motor, switch means controlling the connection of the shaker motor to its source of power, and means mechanically connected to a portion of the actuating means for the first-named valve for causing the switch for the shaker motor to be closed when the solenoid is operated to close the first named valve.

2,318,396
CROSSARM REINFORCEMENT
Leon G. Hoyt, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 11, 1941, Serial No. 410,369
4 Claims. (Cl. 189—33)



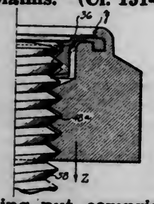
1. A brace for reinforcing cross-arms on telephone poles and the like comprising a pair of brackets secured adjacent the ends of the cross-arm on opposite sides of the pole, a yoke member secured to the pole on the side opposite the cross-arm by the same bolt which secures the cross-arm to the pole, a coupling member located in each end of the yoke, a pair of longitudinally extending tie rods adjustably secured to said coupling members and said brackets, and insulators secured along the vertical face of the cross-arm opposite to the brace.

2,318,397
MANUFACTURE OF SELF-LOCKING NUTS
Daniel C. Hungerford, Madison, N. J., assignor to Elastic Stop Nut Corporation, Union City, N. J., a corporation of New Jersey
Original application September 10, 1938, Serial No. 229,268. Divided and this application August 23, 1941, Serial No. 408,003
1 Claim. (Cl. 10—86)



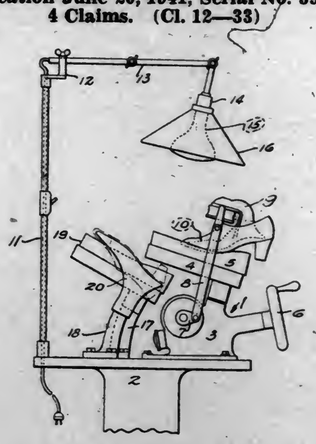
The method of making a self-locking nut which includes the steps of forming a metal nut body having a differential bore divided into three portions of successively greater diameters from the base to the top of the nut and with said portions separated by shoulders, forming an annular insert of elastic metal having a central portion relatively thick in axial direction having an axially extending bore therethrough and a relatively thin disc-like flexible diaphragm extending outwardly from said central portion, placing said insert in said nut body with the outer part only of the diaphragm supported by the shoulder between the two uppermost bore portions in the nut body, deforming the upper end wall of the nut body to provide a lip overlying the insert while maintaining the inner diameter of said lip greater than the inner diameter of the shoulder supporting said diaphragm, threading the portion of the bore in the base of the nut body and the bore portion of said insert to provide two coaxial thread sections and thereafter deforming the insert by forcing the central bore portion thereof axially toward the base portion of the nut body until the central bore portion of the insert strikes the shoulder between the threaded bore portion of the nut body and the adjacent bore portion.

2,318,398
SELF-LOCKING NUT
Daniel C. Hungerford, Madison, N. J., assignor to Elastic Stop Nut Corporation, Elizabeth, N. J., a corporation of New Jersey
Application September 10, 1938, Serial No. 229,268
12 Claims. (Cl. 151—21)



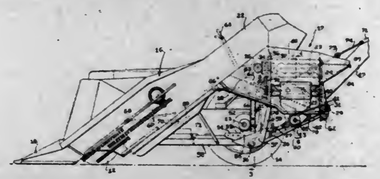
1. A self-locking nut comprising a nut body having a differential bore providing a circular socket in the upper portion of the nut body, an annular metal insert fixed against turning movement within the nut body and having a flexible diaphragm portion supported on its underside by the edge forming the upper perimeter of said socket and with another circular portion of the nut body engaging the upper side of the insert at a distance from the axis of the nut greater than the radius of said edge to retain the insert against axial displacement from the nut body, the portion of the bore in the base of the nut being threaded, the bore of said insert being threaded and coaxial with the thread section of the nut body and the threads of the two parts being in out-of-phase relation with respect to each other.

2,318,399
HEATED PRESS
Cullen L. Huntoon, St. Louis, Mo., assignor to Landis Machine Company, St. Louis, Mo., a corporation of Missouri
Application June 20, 1941, Serial No. 398,885
4 Claims. (Cl. 12—33)



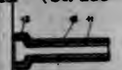
1. In an apparatus for cementing leather-like parts together, a stationary base, a pressure-receiving work support fixed thereon and having a work face, a stationary heater spaced from the work support, a pressure-applying member, a device movably mounting said member on said base so that said member may be shifted to one position between the work face and the heater and to another position providing an unobstructed space between the work face and the heater, and means mounted on said base for moving said device to thrust the pressure-applying member towards the work support to clamp work between them.

2,318,400
TRACTOR-MOUNTED PICKER SHELLER
Benjamin M. Hyman, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 10, 1941, Serial No. 382,552
6 Claims. (Cl. 56—18)



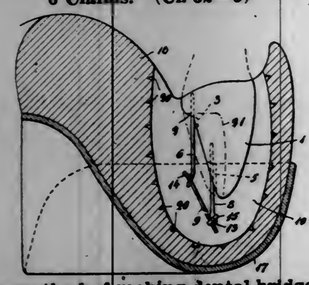
1. A tractor-mounted corn picker and sheller comprising in combination with a tractor having a rear axle, picking and elevating means mounted alongside the forward portion of the tractor at one side thereof, said elevating means extending upwardly above and rearwardly of the rear axle, a downwardly discharging horizontal shelling cylinder mounted longitudinally of the tractor in alinement with said elevator rearwardly of the rear axle, transverse conveying means extending laterally from beneath said sheller, and a shelled corn elevator extending upwardly from said conveying means.

2,318,401
CANALIZATION
Pierre Jacquier, Basel, France; vested in the Alien Property Custodian
Application January 21, 1939, Serial No. 252,235
In Germany January 26, 1938
2 Claims. (Cl. 138—64)



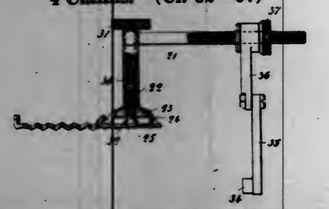
1. A conduit made of material possessing less mechanical resistance than metals; metal inserts fixed to the end portions of said conduit; and a non-adherent, thin metal coating upon the outer surface of said conduit in intimate contact with the material thereof and soldered to said inserts.

2,318,402
PREPARATION OF DENTAL BRIDGE PROTHESIS
Karl Axel Sam Karlström, Gavle, Sweden
Application July 31, 1941, Serial No. 404,904
In Sweden September 28, 1940
6 Claims. (Cl. 32—5)



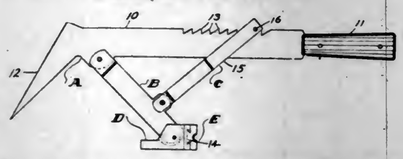
1. In a method of making dental bridge prothesis adapted to be secured to vital teeth by means of mutually parallel holding pins the procedure which consists in fixing the pins, prior to taking an impression, in correct mutual positions by uniting the pins at their projecting ends and casting an impression mass around the tooth and the pins thus united.

2,318,403
DEVICE FOR THE PARALLEL GUIDANCE OF DENTAL TOOLS
Karl Axel Sam Karlström, Gavle, Sweden
Application January 2, 1942, Serial No. 425,470
In Sweden February 7, 1941
4 Claims. (Cl. 32—67)



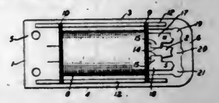
1. Device for the parallel guidance of dental tools, in which a guiding sleeve for the tool is carried by a support adapted to be fixed relatively to the teeth, and is swingably mounted around a pin running parallel to the axis of the guiding sleeve, characterized in that the pin extends substantially at right angles to the longitudinal direction of the teeth, and is adjustable in different radial planes relatively to an axis substantially parallel to the longitudinal direction of the teeth, and preferably also adjustable into different angular positions in each radial plane.

2,318,404
CARPENTER'S TOOL
Rayford Kellett, Leavenworth, Kans.
Application April 6, 1942, Serial No. 437,835
2 Claims. (Cl. 254—17)



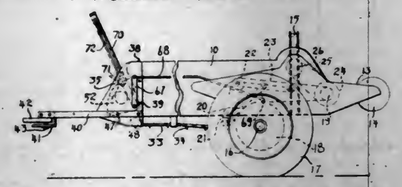
1. In a device of the class described, a lever, a handle mounted on one end of said lever, an angularly disposed prong formed integrally with the opposite end of said lever, a rack arranged along one edge of said lever interjacent the handle and the prong, a link pivotally secured at one end to said lever adjacent said prong, a floor engaging foot secured to the other end of said link and a pawl bar pivotally secured to said link adjacent said foot the opposite end of said pawl for being adapted to engage said rack.

2,318,405
RELAY
Walter J. Leveridge, Tuckahoe, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 18, 1941, Serial No. 398,538
9 Claims. (Cl. 200—87)



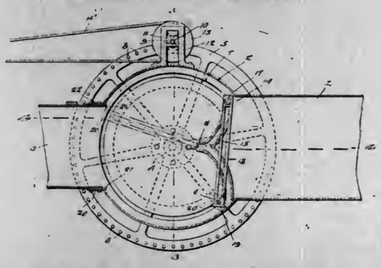
1. In a relay structure, a flat return pole-piece member having an opening therein to form two side arms united at their rear ends by a portion serving as a support and united at their front ends by a yoke, a coil supported between said side arms, a flat core extending through said coil and lying in the plane of said member, said core being shorter than the length of said opening and having arcuate notches in its edges adjacent to one end which, with corresponding arcuate notches in the inner edges of the side arms and yoke of said member, form circular air-gaps, and switch units having armatures positioned in said air-gaps.

2,318,406
MANURE SPREADER
Raymore D. MacDonald, Battle Creek, Mich., assignor to International Harvester Company, a corporation of New Jersey
Application June 21, 1941, Serial No. 399,144
7 Claims. (Cl. 275—3)



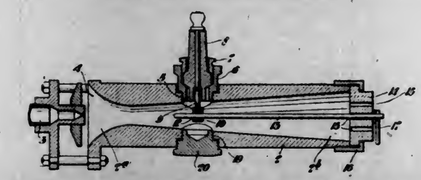
1. In a manure spreader having a body including laterally spaced, vertical side walls, a removable, unit front end construction comprising a pair of laterally spaced vertical side sheets adapted respectively to be secured to the body side walls, a transverse, substantially vertical front wall cross-connecting the side sheets, and operating mechanism for the spreader disposed between the side sheets and front wall of the unit and carried wholly thereby independently of the spreader body.

2,318,407
BALING PRESS
Ivan Z. Martin, Ephrata, Pa., assignor of one-half to Noah N. Burkholder, Ephrata, Pa..
Application December 8, 1941, Serial No. 422,144
9 Claims. (Cl. 100—25)



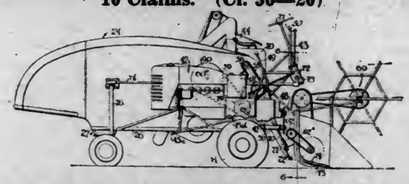
1. In a baling press the combination with a baling chamber, a feed chamber, and an intermediate chamber, of a compressing head movably mounted within the intermediate chamber, means coupled to one end portion of the head for moving said end portion along an arcuate path into position adjacent to either of two opposed walls of the baling chamber, and cooperating means in the intermediate chamber and on the head for guiding the other end of said head toward the other one of said opposed walls.

2,318,408
IGNITION DEVICE
Fred Miess, Gary, Ind.
Application May 29, 1940, Serial No. 337,953
4 Claims. (Cl. 175—115)



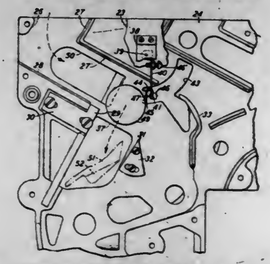
1. The combination with a tubular fuel burner of an electrode disposed therein and extending longitudinally thereof, said electrode terminating adjacent the discharge end of said tubular fuel burner, means for supporting the outer end of said electrode, a grounded electrode disposed adjacent the outer end of said first-named electrode and defining a spark gap therebetween, said spark gap being in the path of the main fuel stream, an electrical conductor extending through the side wall of said tubular fuel burner, and a supporting element slidably mounted on said first-named electrode, the inner end of said electrical conductor being adapted to coact with said supporting element as a set-screw for securing said first-named electrode against longitudinal displacement.

2,318,409
SELF-PROPELLED HARVESTER-THRESHER
Lee P. Millard and Stuart D. Pool, Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application October 13, 1941, Serial No. 414,732
10 Claims. (Cl. 56—20)



1. In a self-propelled harvester thresher, a transverse axle structure having laterally spaced wheels, a separator positioned intermediate the spaced wheels and extending rearwardly thereof, a transverse supporting structure carried by the axle structure and extending laterally toward each of the supporting wheels, means connecting the front of the separator to the supporting structure, a motor for driving the separator and propelling the harvester thresher carried by the supporting structure at one side of the separator, an operator's platform carried by the supporting structure at the other side of the separator and extending transversely across the front of the separator, a tailings elevator trough positioned at the rear of the separator and secured between the sides thereof, and a steerable wheel structure mounted on the trough.

2,318,410
COIN CHUTE
Percy E. Mills, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1940, Serial No. 363,236
5 Claims. (Cl. 194—103)



1. In a coin operated device, a downwardly inclined coin runway down which a deposited coin rolls on its edge until the lower end of the runway is reached, a substantially rigid pivoted member adjacent the lower end of said runway, cushioning means mounted for rotation with said member for transferring momentum to said member from a coin discharged from said runway, said cushioning means being normally positioned in the path of a standard coin and a lightweight slug discharged from said runway to receive directly the impact of the standard coin and lightweight slug discharged from said runway for rotating said member about its pivoting axis a greater amount when said means is engaged by a standard coin than when engaged by a lightweight slug, whereby the trajectory of the standard coin after impact is substantially different from the trajectory of a lightweight slug after impact and the velocity of a lightweight

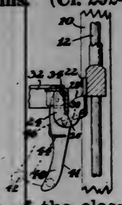
slug after impact is substantially independent of the resilience of the slug material, an acceptance channel for receiving a standard coin after impact with said cushioning means and a reject channel for receiving said lightweight slug after impact with said cushioning means.

2,318,411
CLAMP
Robert D. Moore, Kansas City, Mo.
Application April 21, 1941, Serial No. 389,569
11 Claims. (Cl. 24—117)



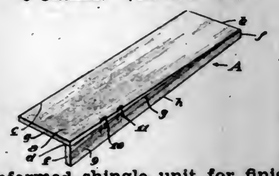
9. A clamp including, a body member having laterally spaced clamping portions, a resilient wedge having side edges cooperating with said clamping portions of the body member to clamp ends of a strand therebetween, means anchoring the smaller end of said wedge to the body member in spaced relation with said clamping portions with the larger end of the wedge extending from the body member to form a gripping portion, said wedge being contractive intermediate said clamping portions when a pulling force is applied to the gripping portion for opening spaces between edges of said wedge and the clamping portions of the body member to pass the ends of the strand freely therebetween and said wedge being returnable to its original shape for effecting clamping pressure upon said ends of the strand when the pulling force is released, and means on the body member for attaching free ends of the strand and cooperating with said clamping portions whereby slack in said ends simulates the loops of a bow-knot.

2,318,412
CATCH
Herbert W. Neunherz, Gardner, Mass.
Application July 9, 1941, Serial No. 401,598
9 Claims. (Cl. 292—120)



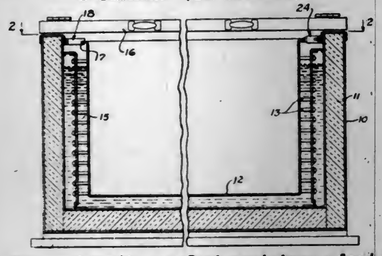
9. In an article of the class described, a pair of relatively movable members and means to releasably latch said members, said means comprising a rail or the like on one member and a pivoted treadle arm associated with said rail, a notch in said treadle arm providing a fixed supporting surface in the arm, a hook on the other member to receive said rail in its bight at any point along said rail, a shelf-like projection to be received in the treadle arm notch to be supported on said surface anywhere along an edge of said shelf, and a cam surface on said arm below the notch to pivot the arm away from said other member upon sliding engagement of said shelf-like projection with said cam surface in one relative direction of movement of the members.

2,318,413
GABLE TRIM SHINGLE UNIT
Herbert L. Owen, Los Angeles, Calif.
Application October 20, 1941, Serial No. 415,761
6 Claims. (Cl. 108—26)



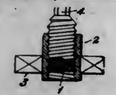
1. A preformed shingle unit for finishing the rakes of shingle roofs comprising a pair of shingles arranged edge to edge in perpendicular relation to each other with a longitudinal marginal portion of one of the shingles overlying the adjacent longitudinal edge of the other shingle and abutting the latter for at least a portion of the length thereof, and means fastening only the butt end portions of said shingles together, one of said shingles constituting a field shingle for application to and to constitute an exposed part of the field of a roof at the rake thereof, and the other of said shingles constituting an apron shingle for application to the end of a roof to depend from the rake thereof; the field shingle having its longitudinal free edge extending perpendicular to its butt edge and its other edge longitudinally inclined from the butt edge toward the free edge.

2,318,414
COOLER CONSTRUCTION
John S. Palmer, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 18, 1940, Serial No. 324,570
3 Claims. (Cl. 220—15)



1. In combination, a first container adapted to contain a refrigerant, a second container positioned within the first container and adapted to contain articles to be refrigerated, said second container having outwardly extending edges, a first bracket secured to the inside of the first container and having a notch receiving the edge of one side of the second container, and a second bracket comprising a first member having a notch in one end engaging the edge of the other side of the second container and also having a projection extending from one side, a second member secured to the inside of the first container, containing the first member, and having an elongated slot through which the projection of the first member extends, and a spring acting between the second member and the end of the first member opposite the end having the notch.

2,318,415
HIGH-FREQUENCY IRON CORE
Willi K. Patzschke, Klein-Machnow, near Berlin, and Otto Wohlfarth, Berlin-Schoneberg, Germany, assignors to General Electric Company, a corporation of New York
Application July 31, 1940, Serial No. 348,942
In Germany July 31, 1939
5 Claims. (Cl. 171—242)



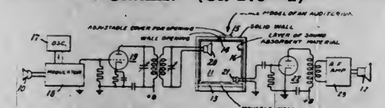
1. In a high frequency inductance device, a bushing, a coil wound around said bushing and a core whose outer surface is unconfined being threaded in said bushing so that axial movement allows the core to assume various positions of adjustment, said core being composed at least in part of powdered magnetic material mixed with an elastic binding material so as to provide the finished core with elastic properties, the diameter of said core being slightly larger than the inner diameter of said bushing to thereby provide for the core being held in any of its adjustable positions with sufficient friction against the inner wall of the bushing while at the same time permitting axial movement of the core.

2,318,416
KNEELING STOOL
Daniel N. Peirce, Rydal, Pa.; Gratia Peirce administratrix of said Daniel N. Peirce, deceased
Application January 24, 1941, Serial No. 375,725
6 Claims. (Cl. 155—166)



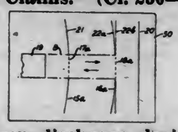
4. A kneeling stool comprising a frame member bent to form three sides of an open base frame and having end portions bent to extend upwardly from the base frame, with the terminal portions further bent generally horizontally to provide handles, and a kneeling pad mounted on said base frame.

2,318,417
ARTIFICIAL REVERBERATION SYSTEM
William D. Phelps, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 2, 1942, Serial No. 445,471
5 Claims. (Cl. 179—1)



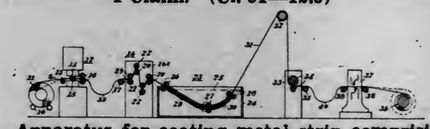
1. In an artificial reverberation system, a reverberation device including a non-gaseous mass, means to produce within said device a superaudible carrier sound wave modulated by an audio frequency sound wave, said device being of reduced dimensions relative to the dimensions of an equivalent reverberation device having desired reverberation characteristics when said audio frequency sound wave only is produced therein, and means to detect from said audio modulated carrier wave within said device said audio frequency sound wave having added thereto the reverberation produced in said modulated wave by said reverberation device.

2,318,418
ELECTRON DISCHARGE DEVICE
John R. Pierce, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 28, 1941, Serial No. 416,778
12 Claims. (Cl. 250—155)



3. An electron discharge device comprising a pair of aligned electrodes having parallel central portions one of which is apertured, means for projecting a parallel electron stream into the region between said central portions through the apertured portion and normal to said parallel portions, and means for directing the electrons in said stream along rectilinear paths within a boundary normal to said parallel portions, said directing means comprising outer portions of said electrodes having opposed surfaces corresponding to equipotential boundaries of a field satisfying Laplace's equation, for which the gradient normal to said boundary is zero and for which the potential along said boundary is equal to the solution of the space charge equation corresponding to parallel electron flow within said boundary.

2,318,419
APPARATUS FOR COATING METAL STRIP OR WIRE
Ernest B. Plott and John S. Stanier, Youngstown, Ohio, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio, a corporation of Ohio
Application October 31, 1940, Serial No. 363,650
1 Claim. (Cl. 91—12.5)
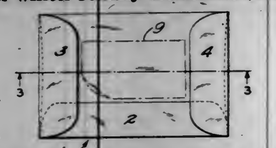


Apparatus for coating metal strip comprising spaced rolls and means for bending the strip progressively around said rolls in opposite directions, said rolls being small enough to cause fragmentation and at least partial detachment of the scale adhering to the strip, rotary wire brushes engaging the strip at points where it is convexly bent around said rolls and a coating bath adapted to be traversed progressively by the strip.

2,318,420
EXOTHERMIC DEVICE
Ferdinand Racen, University City, Mo., assignor to W. G. Shelton Company, St. Louis, Mo., a corporation of Missouri
Application September 11, 1942, Serial No. 457,941
7 Claims. (Cl. 132—36.2)

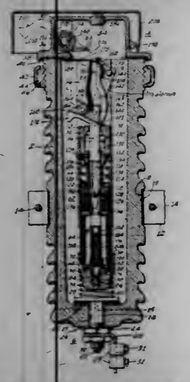
1. As a new article of manufacture, a container

and an exothermic substance therein, said container comprising a pocket-like member formed of material which readily transmits to said sub-



stance moisture applied to the exterior surface, one wall of the container being provided with a coating of substantially moistureproof adhesive fluid.

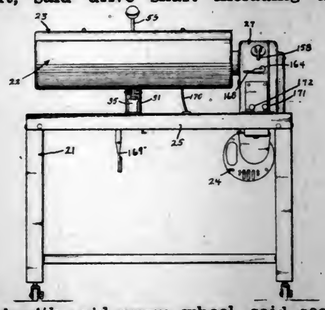
2,318,421
CIRCUIT INTERRUPTER
Herbert L. Rawlins, Wilkinsburg, and James M. Wallace, North Braddock, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 19, 1940, Serial No. 346,300
49 Claims. (Cl. 200—116)



7. In a circuit breaker, a movable contact rod, tubular means having a cylinder portion about said rod, piston means in said cylinder portion, said means being mounted for relative movement, pawl and ratchet means connecting said rod and one of said first two-mentioned means for movement with said rod when said rod moves in a direction to close the electrical circuit through said breaker, and stop means for said one means positioned beyond the path of movement of said one means with said rod on the first closing movement thereof in any series of closely successive reclosures, whereby to maintain said rod in open circuit position in response to a predetermined number of closely successive circuit closing operations thereof.

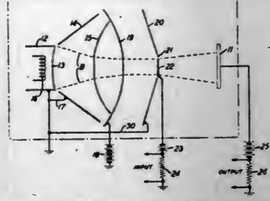
2,318,422
IRONER
Luther Ringer, Berrien Springs, Mich., assignor to Nineteen Hundred Corporation, St. Joseph, Mich., a corporation of New York
Application September 23, 1940, Serial No. 357,932
10 Claims. (Cl. 38—61)

2. In an ironing machine of the type having a rotatable roll, a heated shoe movable into ironing engagement therewith, and driving means rotating said roll; a two-speed transmission comprising a support, a drive shaft mounted on said support and driven by said driving means, a driven shaft mounted on said support and connected to drive said roll, a countershaft carried by said support, a set of of gears rotatably mounted on said driven shaft, a second set of gears integral with each other and rotatably and slidably mounted on said countershaft complementary to and meshed with said first set of gears, a worm wheel rotatably mounted on said countershaft, said drive shaft including a worm



meshed with said worm wheel, said second set of gears and said worm wheel having mating jaw clutch teeth on opposed faces and disengageable upon sliding movement of said second set of gears on said countershaft, and ball clutch means between each of said first gears and said driven shaft for connecting one of said first gears in driving relation therewith, and means for selectively actuating said ball clutch means.

2,318,423
ELECTRON DISCHARGE DEVICE
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 28, 1941, Serial No. 416,785
7 Claims. (Cl. 250—27)

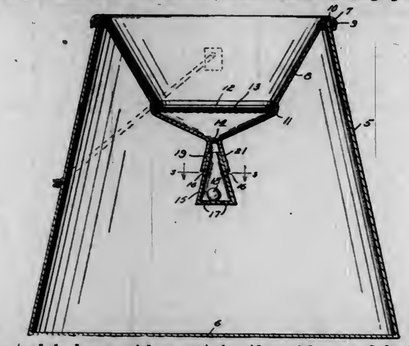


1. Electron discharge apparatus comprising a target electrode, an electron gun for projecting an electron stream toward said target electrode, a control electrode intermediate said electron gun and said target electrode, and means for directing the electrons in said stream along parallel paths throughout a region between said gun and said control electrode and extending to immediately adjacent said control electrode gun, said means including a pair of aligned electrodes one of which is mounted between said gun and said control electrode and the other of which extends outwardly from immediately adjacent said control electrode.

2,318,424
MILK PAIL
Erno John Sattler, Edna, Tex.
Application December 5, 1941, Serial No. 421,814
1 Claim. (Cl. 31—52)

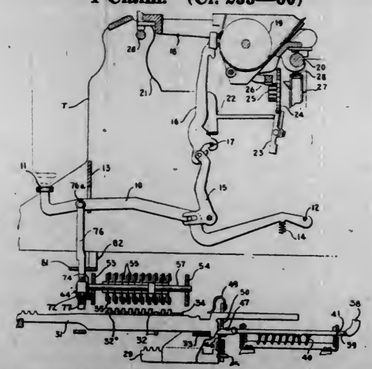
A milk pail having a funnel-shaped depending top terminating in a downwardly flaring spout,

an upwardly tapering flat bottomed shell fitting upwardly part way into said spout and detachably connected thereto, said shell being perfo-



rated below said spout in the sides and bottom thereof to discharge milk therefrom, and a ball in said shell of a size to close the shell between the top of the same and said perforations.

2,318,425
COMBINED TYPEWRITING AND COMPUTING MACHINE
Vincent F. Schneble, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application March 1, 1939, Serial No. 259,217
1 Claim. (Cl. 235—60)

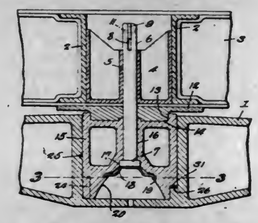


In a combined typewriting and computing machine having a typing member and a pin-setting rock shaft below said member; means operatively connecting said member and rock shaft in by-pass relation for the purpose described, said means comprising the combination of a rod pendent from said member and having protruding from one side thereof a cam-tooth, and a cam-tooth-operable elbow-arm comprising a sub-arm-forming block fixed to the rock shaft and recessed at its free end portion to form two opposite walls, a second, fore-arm-forming block elbow-pivoted to and fitted between the walls, the second block being recessed at its free end portion to form two opposite walls, a cam-tooth-engageable roller fitted between the walls of the second block, and a roller-journaling pin fitted between the latter walls, the journaling pin projecting from the outer side of the second block to abut stopwise an edge provided on at least one of the walls of the first block, the cam-tooth and elbow-arm being arranged for rocking and releasing the elbow-arm and rock shaft at a working stroke of the rod, means being provided for returning the released rock shaft and elbow-arm before return of the rod.

2,318,426
METHOD OF CANNING GREEN VEGETABLES
Walter L. Schroder, Hortonville, and Thomas A. Rogers, Stevens Point, Wis.
No Drawing. Application October 5, 1940, Serial No. 359,906
11 Claims. (Cl. 99—186)

1. The method of treating green vegetables for canning, which consists in subjecting the vegetables to a solution containing an alkaline reagent in which magnesium is the cation, and then subjecting the vegetables to a solution containing an alkaline reagent in which calcium is the cation.

2,318,427
BOLSTER
Harvey H. Shaffer, Berwick, Pa.
Application June 9, 1942, Serial No. 446,371
5 Claims. (Cl. 105—199)

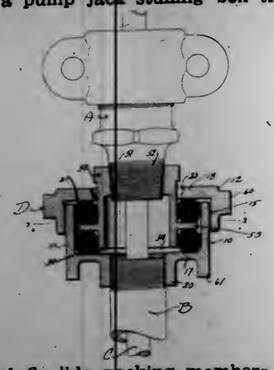


1. The combination with a bolster having a cylindrical recess and an annular shoulder in the recess, there being duplicate groups of parallel grooves extending downwardly from the shoulder, each group including a long groove and shorter grooves, each of the shorter grooves of the group terminating at its lower end above the lower end of the next adjoining longer groove in the same group, of a cylindrical center plate mounted to slide and rotate in the recess and mounted for withdrawal therefrom, and tongues on the center plate corresponding with and adapted to be seated within the grooves, the upper ends of the tongues being positioned in a plane located close to but spaced from the shoulder in the recess, the depth of the recess being such that the wall of the recess will hold the center plate against lateral displacement relative to the bolster while the tongues are disengaged from the grooves.

2,318,428
WOBBLER OR FLEXIBLE MOUNTING FOR STUFFING BOXES
Raymond W. Skinner and Percival B. Skinner, Tulsa, Okla.
Application October 28, 1940, Serial No. 363,228
2 Claims. (Cl. 285—90)

1. In a wobbler for well pumping jacks and the like, the combination of a metallic casing comprising a pair of relatively detachable parts, each of said parts including an annular wall and an end wall, said annular walls of the parts being detachably screw threaded together to relatively space the end walls of said parts to define a chamber therebetween, one of said parts having a screw threaded opening therein to detachably receive an end of a well casing, and the other of said parts having an opening therein, a metallic sleeve loosely extending into said last open-

ing and within the chamber being provided with an external annular flange normally overlapping the end walls of said casing, said sleeve having a portion extending externally of said casing and being provided with means for detachably connecting a pump jack stuffing box thereto, and



individual flexible packing members within the chamber of said casing having normally convex surfaces engaging in sealing contact with the opposite sides of said flange and the inner surfaces of the end walls of said casing whereby to facilitate tilting of the sleeve within said casing.

2,318,429

AQUEOUS DISPERSION OF POLYMERIZED ALKYL METHACRYLATE AND METHOD OF PREPARING SAME

Joseph Edward Smith, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 3, 1940, Serial No. 351,082
13 Claims. (Cl. 260—32)

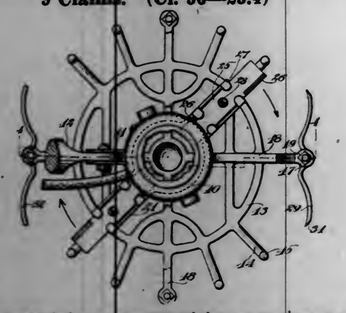
6. A stable aqueous dispersion of a polymerized alkyl methacrylate which contains as the dispersing agent not less than about 0.75% of a partially saponified polyvinyl acetate having a saponification number of 40 to 130 and a viscosity in a 4% aqueous solution at 20° C. of 10 to 30 centipoises.

2,318,430

GRASS TRIMMER

Joseph A. Spahn, Chicago, Ill.

Application January 8, 1942, Serial No. 426,082
9 Claims. (Cl. 56—25.4)



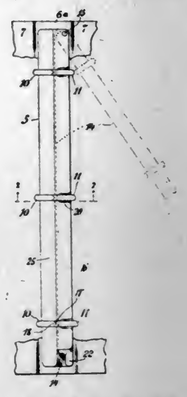
1. A grass trimmer comprising a motor, a shaft extending downwardly therefrom, a rotary cutter mounted on the shaft and having outwardly-projected blades, a guard plate below the cutter, an outer series of upstanding barrier elements carried by the guard plate, and means to support the guard plate from the motor.

2,318,431

RING BINDER

William L. Sparks, Hartsdale, N. Y.

Application January 26, 1943, Serial No. 473,585
2 Claims. (Cl. 129—10)



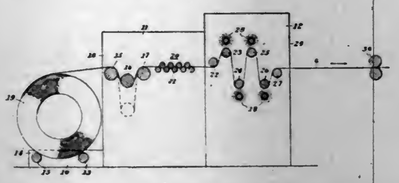
1. In a ring binder a fixed base and a plurality of spaced binder rings each of which is divided into two semicircular sections, a blade pivoted on said base and adapted to be swung outwardly therefrom to open the binder rings and inwardly towards said base to close the binder rings, means for immovably securing the one half sections of said rings to the said base, means for immovably securing the other half sections of said rings to the said blade, a longitudinal slot in the base adapted to receive and contain said blade when the said rings are closed, said slot being inclined upwardly and outwardly from the center of the base, whereby to maintain the rings in closed relation and resist accidental opening of said rings.

2,318,432

METHOD AND APPARATUS FOR DESCALING STRIP MATERIAL

John S. Stanier and Ernest B. Plott, Youngstown, Ohio, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio, a corporation of Ohio

Application September 13, 1940, Serial No. 356,600
6 Claims. (Cl. 29—81)



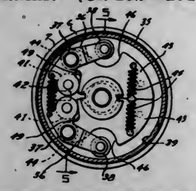
1. Apparatus for descaling strip comprising a roller leveler, staggered scale-breaking rolls on one side of the leveler adapted to bend the strip sharply in opposite directions, additional staggered rolls on the other side of the leveler adapted to bend the strip again, and brushes engaging the strip as it passes over said last-mentioned rolls.

2,318,433

GOVERNOR CONTROLLED FRICTION CLUTCH

Bruno Stechbart, Park Ridge, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois

Original application September 16, 1940, Serial No. 356,963. Divided and this application September 13, 1941, Serial No. 410,743
8 Claims. (Cl. 192—104)



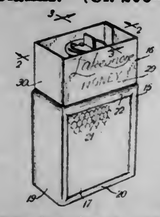
1. In a governor controlled friction clutch, the combination with rotatable coaxial driving and driven members of which the driven member forms a friction clutch member and is provided with a radially facing friction clutch surface, of a second friction clutch member driven with said driving member and pivotally mounted eccentrically of the axis thereof for engaging and disengaging said clutch surface, spring means yieldably urging said second clutch member into engagement with said clutch surface, a centrifugally actuated weight member driven with said driving member and pivotally mounted eccentrically thereof, a second spring means yieldably urging said weight member in opposition to centrifugal actuation thereof, and a one-way connection between said second clutch and weight members operative to effect disengagement of said second clutch member from said clutch surface with positioning of said weight member by said second spring means.

2,318,434

COMMERCIAL DISPLAY PACKAGE

Frederic P. Strauch, Wilmette, Ill., assignor to W. F. Straub & Company, Chicago, Ill., a corporation of Illinois

Application December 1, 1939, Serial No. 307,072
2 Claims. (Cl. 206—44)



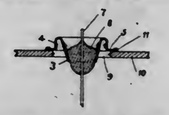
1. A closure device for a container having a reduced neck providing an upwardly facing shoulder and having a bead on the neck spaced above said shoulder, said device comprising a rectangular box-like structure having the lower edge of its side walls resting on said shoulder to limit downward movement of the device relative to the container, means integrally attached to the lower edge of one of said side walls and extending upwardly and thence transversely within the box, said means having an aperture for the neck of the container with the marginal portion around the aperture provided with tongues bent at an upward angle by-passing over the neck and angularly and edgewise engaging the bottom face of said bead to resist upward movement of the box relative to the container, and means integrally attached to the lower edge of the other side wall to hold the first-mentioned means in place within the box.

2,318,435

GLASS-TO-METAL SEAL AND EYELET FOR CONSTRUCTING THE SAME

Semon H. Stupakoff, Pittsburgh, and Frank R. Prescott, Dormont, Pa., assignors to Stupakoff Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

Application August 2, 1940, Serial No. 349,876
1 Claim. (Cl. 174—152)



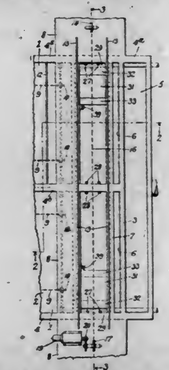
A glass-to-metal seal of the class described comprising an eyelet having a sleeve portion and a flange portion and a reversely turned skirt portion between the flange and the sleeve and substantially perpendicular to the flange, a body of glass in the sleeve portion whose coefficient of thermal expansion is matched to that of the eyelet, and a metal body passing through the body of glass having its coefficient of thermal expansion matched to that of the glass and to which the glass is also fused, the body of glass forming both a hermetic seal and an insulator between the conductor and the sleeve.

2,318,436

SEDIMENTATION TANK

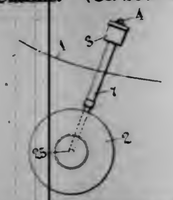
Marcus B. Tark, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois

Application December 24, 1938, Serial No. 247,675
9 Claims. (Cl. 210—55)



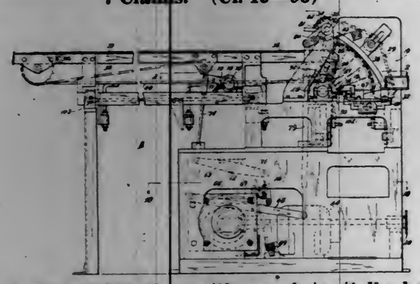
1. In combination, a liquid containing tank, a scum hopper having a lip above the level of the liquid therein, a scum trough associated with the hopper having side walls and a floor beneath the level of the liquid, a ramp extending upwardly therefrom to the lip of the hopper, a skimming scraper extending into the liquid and means for moving it toward the hopper along the trough to force liquid and scum into the hopper, the skimming scraper being of such width and such height as to completely close the trough as it moves toward the scum hopper and means for guiding and positioning this scraper to rest on the bottom of the trough as it travels therealong.

2,318,437
SHOCK ABSORBER
Carroll B. Vickers, Buffalo, N. Y.
Application March 28, 1942, Serial No. 436,681
10 Claims. (Cl. 267—8)



1. A shock absorber comprising a cylindrical casing closed at one end by a wall and having a sealing chamber in its opposite end wall communicating with a pump chamber through an interposed partition wall, a shock absorbing body of elastic material confined in the casing by its end walls, the normal diameter of the body being sufficiently less to provide a clearance for radial expansion toward the side wall of the casing, the body having a hollow neck fitting within the sealing chamber and against the partition wall, the latter having a check valve and bleed opening opening into the neck, the elastic body having an expansible chamber closed at one end and opening at its opposite end into the hollow neck, a plunger operable in the pump chamber and having a channeled packing opening toward the partition wall to be forced by the fluid pressure into sealing contact with the plunger body and chamber wall, and means for adjusting the size of the bleed opening.

2,318,438
MATERIAL HANDLING MECHANISM
Paul H. Voth, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application December 6, 1941, Serial No. 421,928
7 Claims. (Cl. 15—93)

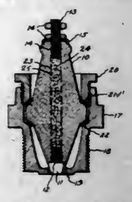


1. In combination with a substantially horizontal conveyor for conveying articles and receiving means extending at substantially right angles to the conveyor, a take-out mechanism for transferring the articles from the conveyor to the receiving means, said take-out mechanism including a pair of wheels having peripheral teeth for engaging under the inner edges of the articles, a pair of chains having teeth for engaging under the outer edges of the articles, a pair of lower sprocket wheels and a pair of upper sprocket wheels about which the chains pass and guides for maintaining the inner runs of the chains in arcs of circles concentric with respect to the toothed wheels, said pair of first-named wheels being spaced from and located substantially horizontally opposite the pair of lower sprocket wheels and being spaced from and located substantially vertically below said pair of upper sprocket wheels, and said receiving means being independent of said pairs of wheels and chains and having its inner end adjacent to said wheels and to the outer ends of the chains in position such that when the articles being transferred by the take-out mechanism from the conveyor to the receiving means reach substantially vertical position they pass onto the inner end of the receiving means.

2,318,439
PROCESS FOR PREPARING VAT DYES IN POWDER FORM
William Robert Waldron, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 24, 1941, Serial No. 399,569
2 Claims. (Cl. 8—34)

1. The process for producing vat dye powders suitable for use in printing and pigment pad dyeing of textile fibers which comprises, thoroughly incorporating in a highly dispersed aqueous suspension of a vat dye paste suitable for printing and pigment pad dyeing, a deflocculating agent comprising an ester of an alkanolamine and a long chain fatty acid, and an aqueous emulsion of an inert, volatile, water immiscible organic liquid, evaporating the product to dryness and pulverizing the resulting dried product to a fine powder, of a particle size approximately that of the original paste particles.

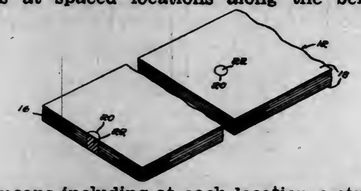
2,318,440
SPARK PLUG
Alexander C. Wall, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 28, 1941, Serial No. 390,664
2 Claims. (Cl. 123—169)



1. A spark plug for an internal combustion engine including a core of particles of conducting material interspersed in a vitrifiable insulating material, and a body of material similar to said vitrifiable insulating material surrounding said core so that the body insulating material and the core insulating material will have the same thermal expansion characteristics, said core and body being formed as a vitrified integral mass providing a substantially gas tight bond between said core material and said body.

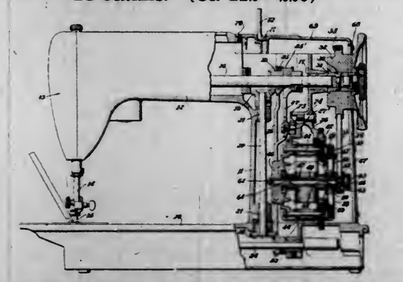
2,318,441
NONSTATIC BELTING
James C. Walton, Newton Center, and George E. Hall, Dedham, Mass., assignors to Boston Woven Hose & Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Application May 21, 1941, Serial No. 394,556
8 Claims. (Cl. 74—232)

5. Non-static belting comprising a body including a plurality of fabric plies, covers of electro-conductive rubber bonded to and covering the entire areas of both faces of the body, and electro-conductive means connecting the covers at spaced locations along the belting,



said means including at each location a strip of electro-conductive rubber extending through the respective plies at relatively spaced points and located between adjacent plies between adjacent points.

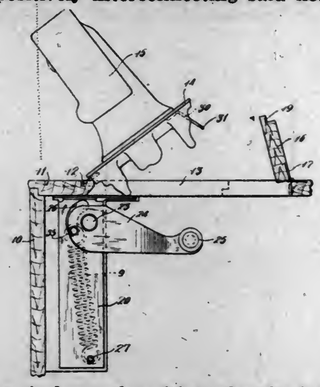
2,318,442
SEWING MACHINE
Donald D. Way, Westfield, James M. Naul, Fanwood, and Carl R. Schenk, Jersey City, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application July 29, 1941, Serial No. 404,444
14 Claims. (Cl. 112—220)



1. In combination with a sewing machine having a frame including a standard formed with side walls, an overhanging bracket-arm, and a driving shaft journaled in the bracket-arm, a central web formed in said standard and connecting said side walls, said web being provided with an aperture, an electric motor supported entirely by said web and located in said aperture with its shaft arranged parallel to the driving shaft, and a belt operatively connecting the motor shaft with the driving shaft of the machine.

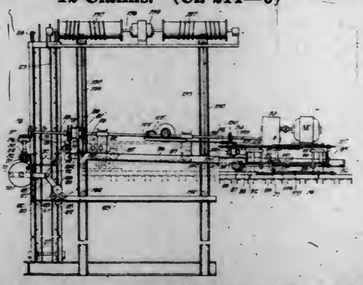
2,318,443
SEWING MACHINE CABINET
William R. West, Cleveland, Ohio, assignor to White Sewing Machine Corporation, Cleveland, Ohio, a corporation of Ohio
Application September 23, 1941, Serial No. 411,991
4 Claims. (Cl. 312—30)

3. In a sewing machine cabinet, a table top, a machine head, a pivot for the head permitting it to swing from a lowered position within the cabinet upwardly through an opening in the table top, a booster arm, a pivot for said arm below said head pivot, the free end of said arm having bearing against the lower side of said head in certain positions of the head, a spring interposed between said arm and a fixed point on the cabinet for swinging said arm and thereby said head upwardly to a raised position, the line of force exerted by said spring when the arm is in lowered position lying close to the arm pivot and exerting minimum turning force on said arm whereby the weight of the head in lowered position overbalances the force of said spring, and means positively interconnecting said head and



arm when in lowered position whereby initiation of upward movement of the head positively initiates upward movement of the arm.

2,318,444
CAN STACKER
Howard W. Wilson, Salem, Oreg., assignor to Paulus Brothers Packing Company, Salem, Oreg., a corporation of Oregon
Application May 31, 1940, Serial No. 338,252
12 Claims. (Cl. 214—6)

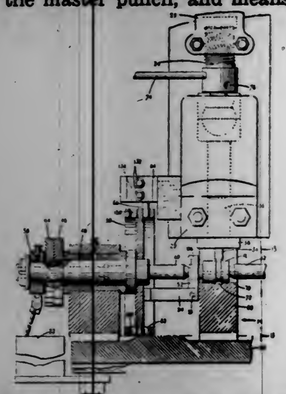


1. A stacker for cylindrical cans having chines at the ends thereof, comprising means for successively receiving rows of cans on their sides, means for intermittently moving said first mentioned means for upending said rows to form a layer of cans in upright position, means including clamping elements having lateral hook-like extensions for engaging under the chines of the cans and for elevating and transferring said layer to a position over the stack being formed, and means for depositing said layer on top of the stack.

2,318,445
METHOD AND APPARATUS FOR MAKING DIE ROLLS
George Wintritz, Staten Island, N. Y., assignor to Conmar Products Corporation, Bayonne, N. J., a corporation of New Jersey
Application October 4, 1939, Serial No. 297,861
23 Claims. (Cl. 76—4)

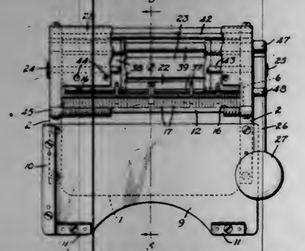
5. Apparatus for making a series of uniform impressions around a blank die roll, said apparatus comprising a master punch negative to one of the impressions to be formed around the roll, means to repeatedly strike the roll with the master punch for a slight depth, means to inter-

mittently rotate the roll an amount equal to the desired spacing between impressions, said latter means operating between the successive operations of the master punch, and means operable



to advance the master punch to a slightly increased depth, whereby the alternate operation of the master punch and the roll rotating means may be continued at successive slightly increased depths, until the desired final depth is reached.

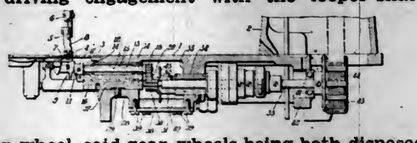
2,318,446
PUNCH
Carl F. Wolters, Kenmore, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application February 28, 1942, Serial No. 432,835
10 Claims. (Cl. 164—112)



1. A punch comprising a frame formed with guideways, a plurality of punches slidably mounted in said guideways in aligned slidable contact each with adjacent punches for movement of each punch relative to the adjacent punches for cutting cooperation with adjacent punches and a ledger blade, and means for individually and selectively operating said punches.

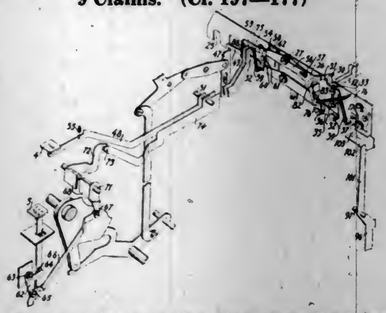
2,318,447
LOOPER MECHANISM FOR SEWING MACHINES
Sydney Zonis, Bridgeport, and Arthur S. Meloy, Jr., Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Original application March 1, 1941, Serial No. 381,242. Divided and this application April 11, 1942, Serial No. 438,520
5 Claims. (Cl. 112—201)

1. A looper-mechanism assembly unit for chain-stitch sewing machines, comprising, a bushing, a looper-shaft rotatably journaled in said bushing, a rotary looper carried by said shaft, a gear-wheel carried by said shaft, and a second gear-wheel rotatably supported by said bushing in driving engagement with the looper-shaft



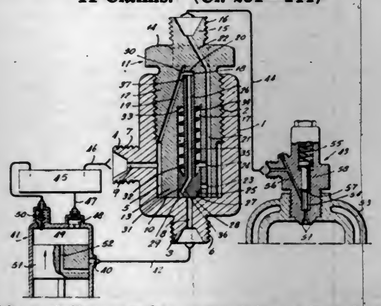
gear-wheel, said gear-wheels being both disposed within the produced circumferential bounds of the bushing.

2,318,448
TABULATING MECHANISM FOR ACCOUNTING MACHINES
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 29, 1939, Serial No. 311,573
9 Claims. (Cl. 197—177)



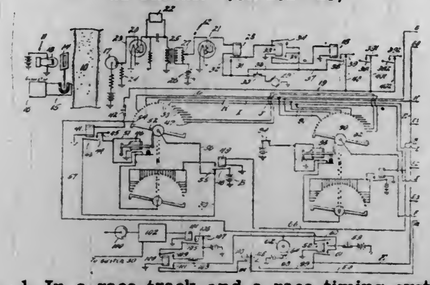
3. In a machine of the class described having a movable carriage, and mechanism for tabulating the carriage laterally of the machine, the combination of a manipulative member movable by the operator to an operated position, means controlled by operation of the manipulative member for causing the tabulating mechanism to tabulate the carriage directly to a predetermined lateral position, the means including a device operable for disabling control of the means by said manipulative member, and means for so operating said device at the final portion of an operation of the manipulative member.

2,318,449
DELIVERY VALVE
Louis Beeh, Long Meadow, Mass.
Application September 18, 1942, Serial No. 458,803
11 Claims. (Cl. 251—144)
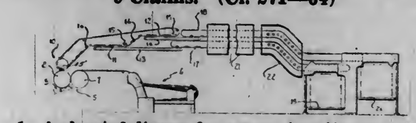


10. A delivery valve comprising a housing open on top, a member in closing connection with said housing, an inlet port in the bottom surface of said housing, a delivery port, a drain port and a connecting port all in said housing on different levels, a piston movable in said housing and having a bottom surface in valving relation to said inlet port, and three control edges in operative relation to said last mentioned three ports, respectively, so as to close said drain port and said connecting port simultaneously with the opening of said inlet port and said delivery port, and a spring between said closing member and said poppet so as to urge said poppet in a position to close said inlet and said delivery port.

2,318,450
TIMING SYSTEM
Harry D. Belock, Richmond Hill, N. Y., assignor to American Teletimer Corp., New York, N. Y., a corporation of New York
Application June 9, 1938, Serial No. 212,858
11 Claims. (Cl. 161—18)



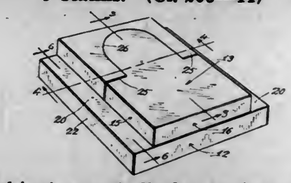
1. In a race track and a race timing system therefor; the combination of wayside devices disposed at intervals along the track and operable by the passage of a constant to transmit an electric controlling impulse, a finish timer operable to start and stop with the race to indicate the time of the full length of the race, other timers operable to indicate the time over portions of the track, means operatively interposed between said devices and said timers to control the starting and stopping of said timers said means comprising a master rotary step switch operable in response to said controlling impulses and controlling the starting and stopping of said other timers, auxiliary wayside apparatus selectively controlling the starting of the finish timer, an auxiliary rotary step switch electrically interconnected with said master switch and which may be preset to determine the stopping of the finish timer, and suitable circuits for said system.

2,318,451
SHEET DELIVERY
Elmer W. Belluche and Frank R. Belluche, Racine, Wis., assignors to Christensen Machine Company, Racine, Wis., a corporation of Wisconsin
Application January 21, 1941, Serial No. 375,192
9 Claims. (Cl. 271—64)



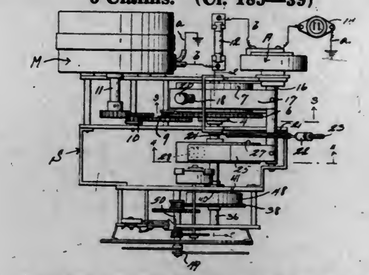
1. A sheet delivery for paper treating machines such as printing presses, comprising: a conveyor for carrying sheets from the machine; a plurality of conveyors for carrying sheets to separate delivery points, said plurality of conveyors having their sheet conveying stretches traveling in the same direction and along substantially parallel paths so that sheets carried thereby move simultaneously and adjacent to each other along said parallel paths, and said conveyors having a linear speed considerably less than that of the first named conveyor; and means for transferring successive sheets carried by the first named conveyor to different ones of said plurality of conveyors.

2,318,452
SHIPPING AND DISPLAY CARTON
Edward C. Berg, Chicago, Ill., assignor to Ace Carton Corporation, Cicero, Ill., a corporation of Illinois
Application February 16, 1940, Serial No. 319,243
8 Claims. (Cl. 206—44)



1. A shipping and display carton capable of containing a plurality of articles of merchandise comprising a main body portion forming a bottom with end and side walls extending upwardly therefrom and having an article-holding compartment for receiving articles of greater height than said side walls, said compartment including side walls spaced inwardly from and of substantially the same height as the side walls of said carton, a closure member for covering the top of the compartment of said main body portion, and flaps extending angularly from the edges of said closure forming continuations of the side and end walls for said compartment when said closure is in position thereover, at least certain of said flaps being of greater length than the height of said side and end walls extending from said main body portion.

2,318,453
SPRING MOTOR
Nelson W. Bernard, Danville, Va., assignor of one-fourth to Clarence J. Gilbert and one-fourth to Beverly J. Gilbert, both of Danville, Va.
Application December 23, 1941, Serial No. 424,179
6 Claims. (Cl. 185—39)



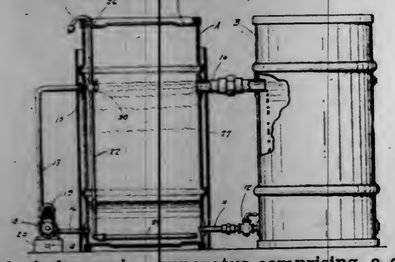
1. A motor comprising, in combination, a shaft, a helical spring operatively engaged therewith to rotate the shaft in one direction, an electric motor for rotating the shaft in a retrograde direction to wind the spring, an operating circuit for the motor, a normally open switch interposed in said circuit, means rotating with the shaft and coacting with the switch for intermittently closing

the circuit, and additional means operated by the helical spring when substantially unwound and operating independently of the last-named means for closing the circuit.

2,318,454
WASHING AND DELIMING COMPOSITION FOR LIMED HIDES
Heinrich Bertsch, Rabenstein, and Friedrich Schmitt, Chemnitz, Germany, assignors to American Hyalsol Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 13, 1940, Serial No. 345,414
4 Claims. (Cl. 149—3)

4. A process for deliming hides which comprises subjecting a hide to the deliming action of an aqueous treating bath containing as a deliming and cleaning agent a composition consisting of a fatty acid of 4 to 6 carbon atoms, the ammonium salt of sulfonated oleyl alcohol and triethanol amine, said treatment taking place at a temperature of 28° to 35° C.

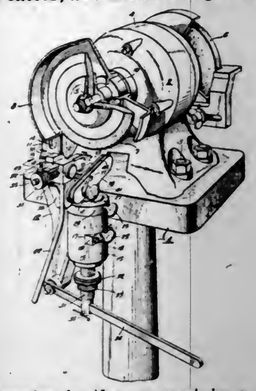
2,318,455
DEGREASER
John F. Black, Cleveland, Ohio, assignor to Circo Products Company, Cleveland, Ohio
Application November 16, 1940, Serial No. 365,955
10 Claims. (Cl. 202—170)



1. A degreasing apparatus comprising, a drum adapted for the reception of a grease solvent in the lower portion thereof, an electric heater submerged in said solvent in said drum, a thermostatic switch coordinated with said heater and arranged for submersion in the solvent to control a predetermined maximum temperature thereof, a second thermostatic switch coordinated with said heater and arranged for submersion in the solvent to control a predetermined second maximum temperature lower than the first maximum temperature, a third thermostatic switch disposed above the fluid level of the solvent and coordinated with said heater to control the level of the vapor generated in the drum and a manually operated switch in the electrical circuit to the heater between the second and third named thermostatic switches to effect the opening of the circuit to one of said switches and the closure of the circuit to the other of said switches.

2,318,456
CUTTING CHAIN SHARPENER
Arthur N. Blum, Philadelphia, Pa.
Application December 30, 1939, Serial No. 311,878
25 Claims. (Cl. 51—98)

5. The combination with a support structure, of a tool mounted in said support for movement in a predetermined plane, a work carrier guided in said support for movement with respect to said tool, said carrier having a straight seat adapted to support a toothed chain in a rectilinear line intersecting the plane of said tool for presentation to the latter, and means for pivotally adjust-



ing said carrier in the support in a plurality of planes intersecting the plane of said tool, one of said planes of adjustment including said rectilinear line.

2,318,457
ELONGATED STRUCTURE FORMED FROM SYNTHETIC MATERIALS
Aleidus G. Bouhuys, Enka, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application April 11, 1941, Serial No. 388,180
3 Claims. (Cl. 87—1)

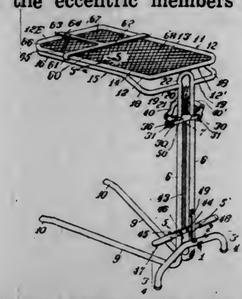


1. A reinforced rubber article having imbedded therein, a reinforcing element consisting of several untwisted viscose threads braided together, the composite element being characterized by increase in denier without loss of tensile strength.

2,318,458
HOSPITAL TABLE
John W. Boren, Marinette, Wis.
Application August 29, 1941, Serial No. 408,720
7 Claims. (Cl. 311—35)

1. A table having a base structure and a top structure, the base structure including a pair of spaced upstanding vertically disposed tubular members, and the top structure including a pair of depending vertically disposed tubular members, the tubular members of the top and bottom

telescopically interfitting, means for holding said telescopically interfitting tubular members against relative vertical movement, said means including an eccentric member for each pair of telescopic tubular members, toggle levers connected to the eccentric members and to each



other, resilient means urging the toggle levers in a direction serving to swing the eccentric members into locking engagement with the associated tubular members, and manually operable means for moving the toggle levers in the opposite direction.

2,318,459
TEMPERATURE MEASURING INSTRUMENT
Robert I. Bradley, Belmont, Mass.
Application July 1, 1941, Serial No. 400,676
2 Claims. (Cl. 73—367)



1. A thermometer comprising a housing, a supporting post and base therefor with an elongated chamber in the post, said post and base secured to and supporting the inner wall of the housing, a dial on the housing with computing graduations and characters, a channel in the post wall leading to said chamber, a temperature responsive coil mounted in said post channel and with a pointer movable over said dial, said coil comprising a plurality of materials of varying coefficiency of responsiveness to temperature, a coil anchor element adjustably mounted in the chamber of said post, means for adjustably locking the coil thereto, and a base member on the opposite end of said post to carry the same and secure it to a thermometer support.

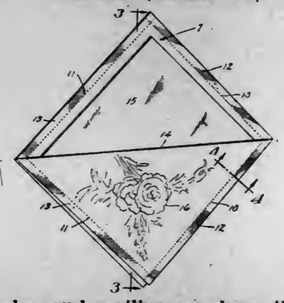
2,318,460
MARACA
Samuel Brief, New York, N. Y.
Application March 16, 1942, Serial No. 434,833
2 Claims. (Cl. 46—193)

1. A maraca, comprising a dried and hollowed out gourd or the like member having an internal groove and also having a pair of aligned openings in its ends, one of which is larger than the other and located at the rear of said member, a bushing having an external flange and removably set into said large opening, a handle extending from one side of said member and having a reduced shank portion extending through said bushing and through said small opening, shot or the like elements in said member and in said groove, a leaf spring mounted on said shank and extending over said groove and holding said shot in said groove, a cap threadedly engaged on the free



end of said shank portion and engaging against said member, and resilient means urging said shank rearwards.

2,318,461
HOLDER FOR DISPLAYING AND MAILING HANDKERCHIEFS AND THE LIKE
Elizabeth E. Bunker, Minneapolis, Minn.
Application June 30, 1941, Serial No. 400,538
1 Claim. (Cl. 229—71)

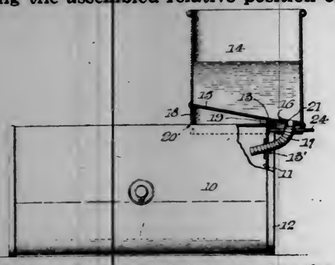


A display and mailing envelope, the body of which is a single sheet in length twice its width, folded upon itself at its central portion to form a square folded structure, the side and free ends of said sheet having marginal perforations and adhesive material applied just outside of said perforations and along the imperforate side, the over-folded half of said sheet which has perforated edges being folded back on an oblique line that intersects extreme diagonally opposite corners, thereby affording an article display device that is adapted to form a mailing envelope when the adhesive edges of said obliquely backfold is turned against and adhesively secured to the corresponding adhesive portions of the underlying or lower fold.

2,318,462
APPARATUS FOR FILLING OIL DRUMS OR THE LIKE
Ephraim Burdick, Madison, Ohio, assignor of one-half to Richard H. Bachmann, Madison, Ohio
Application December 27, 1940, Serial No. 371,965
11 Claims. (Cl. 226—31)

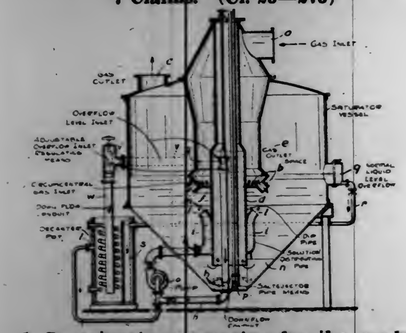
11. The combination with a generally horizontal drum having a periphery and end and opening and provided with a flange near the end which extends beyond the periphery, a tank mounted upon the periphery and extending outwardly beyond the same, and a movable element mounted upon the tank for clamping engagement with the flange and adapted to be shifted

with relation to the tank without substantially disturbing the assembled relative position of the



tank and drum, and a conduit secured to the tank for insertion within the opening.

2,318,463
PRODUCTION OF COARSE CRYSTALLINE SALTS
Wilhelmus Bernhardus Bussmann, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware
Application August 3, 1940, Serial No. 350,862
In Germany June 7, 1939
7 Claims. (Cl. 23—273)

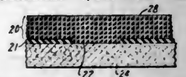


1. In saturator apparatus for the production of coarse crystalline salts, comprising: a saturator vessel adapted to contain a reactant bath; a gas inlet arranged in said vessel around its vertical axis at a level above the bottom of the vessel; salt ejector-pipe means extending from the bottom of the vessel upwardly above the gas inlet and centrally thereof; a dip-conduit extending from above the gas inlet downwardly through the gas inlet and terminating in open communication with the vessel at a level below the gas inlet, said dip pipe being interposed between the gas inlet and the salt-ejector pipe means; and a gas offtake from the vessel at a level above the gas inlet; the combination of a solution down-flow pipe having an adjustable overflow level inlet thereto disposed inside the dip-conduit with the overflow inlet at a level above the level of the gas inlet; a solution distributing pipe surrounding the dip-conduit and having a liquid inlet at its lower part and liquid outlet means at its upper part, disposed to discharge liquid into the bath in the path of gas from the gas inlet; and liquid circulation conduit-means including a pump connecting the bottom of the overflow downflow pipe with the inlet of the distributing pipe for forcing liquid overflowing into the overflow pipe from inside the dip-conduit back into the bath in the path of gas issuing from the gas inlet.

2,318,464
TREATMENT OF TEXTILE MATERIALS
Walter Glen Cameron and Thomas Henry Morton, Braintree, England, assignors to Courtaulds Limited, London, England, a British company
No Drawing. Application July 10, 1941, Serial No. 401,862. In Great Britain August 30, 1940
8 Claims. (Cl. 8—100)

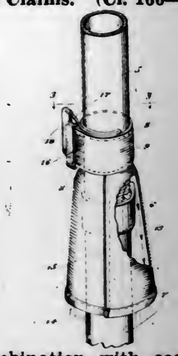
8. A process for improving the dyeing properties of cellulosic textile material which comprises impregnating the said material with a solution containing cyanamide, an aliphatic compound selected from the group consisting of water soluble hydroxy aldehydes and hydroxy ketones, a small proportion of a phenolic compound and a catalyst and then drying and heating the material.

2,318,465
PRINTING MEANS
Robert G. Chollar, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application June 21, 1940, Serial No. 341,731
20 Claims. (Cl. 101—114)



4. In a printing member, in combination, an ink pad; a printing web of resilient material having equi-spaced pores; and a resist sealed between the pad and the web preventing passage of ink from the pad to the porous material except through selected areas.

2,318,466
PROTECTING APRON FOR WELL TUBING
Ernest Cooper, Bartlesville, Okla.
Application November 17, 1941, Serial No. 419,486
8 Claims. (Cl. 166—16)

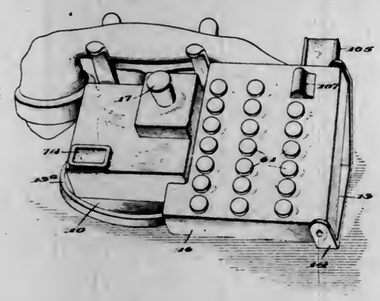


1. The combination with coacting pipe sections including a coupling member, of a protecting apron having its upper portion provided with a pocket surrounding the upper pipe section and its lower portion provided with a depending skirt extending over said coupling member, a split resilient clamping band seated in said pocket, and finger engaging tabs disposed adjacent the split portion of the clamping band.

2,318,467
AUTOMATIC DIAL OPERATOR
Marcel Demeulenaere and Robert Demeulenaere, Flushing, N. Y.
Application January 2, 1941, Serial No. 372,912
11 Claims. (Cl. 179—90)

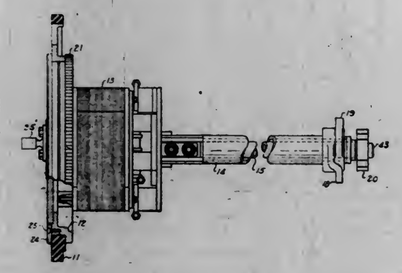
1. An automatic dial operator comprising a

member operatively engageable with a telephone dial for effecting variable angular displacements thereof, means for effecting a succession of displacements of said member and for controlling the angular magnitude of each displacement of said member in dependence upon the telephone number to be dialed, said means including a slide for arresting the movement of said member in various angular positions thereof, a carriage movable in one direction with said slide and in



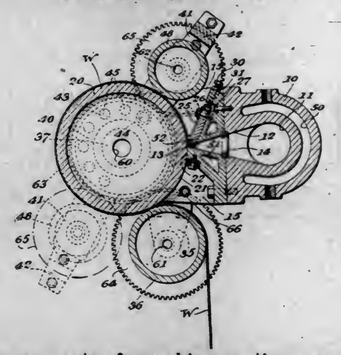
another direction independently thereof, means normally urging said carriage in the second mentioned direction and means for moving said carriage stepwise, the last mentioned means including a pawl for effecting stepwise movement of the carriage, a pawl for retaining the carriage in adjusted position and means on the first pawl at the end of the movement of the carriage to engage and displace the second mentioned pawl and release said carriage.

2,318,468
ADJUSTABLE HEATING APPARATUS
Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application August 6, 1941, Serial No. 405,595
11 Claims. (Cl. 219—13)



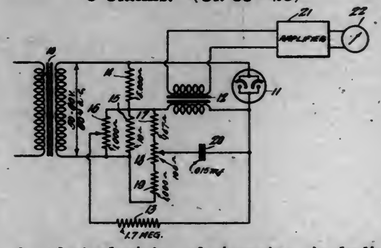
1. In apparatus of the character described, a transformer having a substantially tubular conductor secured thereto to form a substantially rigid power supply unit, the transformer and the conductor having a common axis of rotation, a support for the transformer and a support for the conductor, the said supports being spaced from each other, means for rotating the said unit on the supports to angularly adjust an inductor being carried by the unit, a bus bar for delivering current to the conductor, and means to secure the conductor to the bus bar to hold the aforesaid power supply unit in adjusted position.

2,318,469
METHOD AND APPARATUS FOR PRODUCING SHEET MATERIAL
Elmer R. Derby, Springfield, Mass., and Frederic A. Parkhurst, Suffield, Conn., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Continuation of application Serial No. 142,352, May 13, 1937. This application February 16, 1939, Serial No. 256,696
10 Claims. (Cl. 18—15)



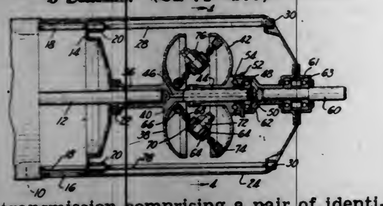
7. An apparatus for making continuous webs of thermoplastic material which comprises in combination pressure feed means provided with heating means, a continuous moving surface adjacent said feed means, a stationary member located adjacent said pressure feed means and said continuous moving surface and forming in combination an extrusion apparatus having an orifice extending only slightly beyond the initial point of contact with said moving surface of the thermoplastic material being extruded, said moving surface extending beyond said stationary member, means for cooling the moving surface adjacent said stationary member, means for heating the stationary member, and means spaced apart from said stationary member for maintaining the formed web in intimate contact with the continuous moving surface after extrusion through said orifice.

2,318,470
PHOTOELECTRIC MEASURING DEVICE
Glenn L. Dimmick, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application July 30, 1941, Serial No. 404,609
5 Claims. (Cl. 88—23)



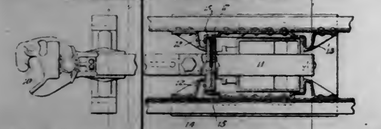
1. A photoelectric photometer including a photocell, a bridge circuit including said photocell and having a ratio of the order of 1000 to 1 of the photocell to a balancing device, and independent capacitance and current balancing means included in said bridge circuit for balancing the capacitance and the dark current of the photocell.

2,318,471
FRICTION TOROIDAL TRANSMISSION
Adiel Y. Dodge, Rockford, Ill.
Application May 1, 1941, Serial No. 392,199
5 Claims. (Cl. 74—200)



1. A transmission comprising a pair of identical discs of sheet material shaped to provide toroidal surfaces, means supporting said discs with the toroidal surfaces facing and with the centers of said surfaces spaced apart on a line parallel to the axis of the discs, a roller mounted between said discs engaging the toroidal surfaces thereof and with its center in alignment with the spaced centers of said toroidal surfaces, means for turning said roller about an axis at a right angle to its axis to change its points of engagement wtih the discs, turning of said roller causing one of the discs to move axially relative to the other, and cam means including relatively movable parts one of which is connected to said one of the discs to be moved axially with the disc, said cam means including cam surfaces having different cam angles in different axial positions to exert a different degree of force on said one of the discs in different axial positions thereof.

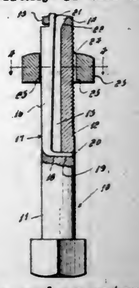
2,318,472
DRAFT APPLIANCE
Thomas Francis Dwyer, Jr., Cambridge, and David W. Gray, Everett, Mass., assignors to Fabreeka Products Company, Inc., Boston, Mass., a corporation of Massachusetts
Application March 20, 1941, Serial No. 384,258
3 Claims. (Cl. 213—40)



1. The combination in a railroad car draft gear having spaced abutments for taking draft and buffer thrusts, of a cushioned follower device between a portion of the gear and one of said abutments, said cushioned device comprising a holder plate in which cushioning material is countersunk to a substantial depth, a second plate within the countersunk portion of the holder plate and overlying said cushioning material, and headed securing means passing through the holder plate, cushioning material and second plate, with the heads of said securing means countersunk in at least one of said plates, said securing means being under tension when said device is not receiving thrusts, whereby said cushioning material is under an initial compression, said second plate being movable on the securing means relative to the holder plate.

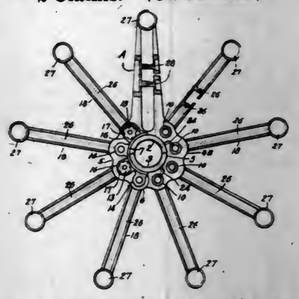
2,318,473
NUT LOCK
Andrew J. Earley, Cambria, Va.
Application June 6, 1940, Serial No. 339,187
2 Claims. (Cl. 151—8)

1. In combination with a bolt having a longitudinal slot, and a resilient latch blade disposed in the slot and anchored to the bolt at its inner end and adjacent the inner end of the slot; an abutment forming a part of the bolt and bridging the outer portion of the slot, the outer end of the blade being loosely disposed in the slot and urged outwardly thereof, in a direction laterally of the bolt by the resil-



iency of the blade, and an extension on the free end of the blade, said extension being disposed inwardly of said abutment and normally in engagement therewith for limiting the outward movement of the latch blade, one longitudinal edge of the blade being disposed outwardly of the slot when the extension is in engagement with said abutment.

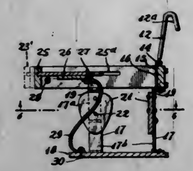
2,318,474
RADIAL CONNECTING ROD
Halvor Olsen Eiane, Washington Island, Wis.
Application March 8, 1941, Serial No. 382,427
2 Claims. (Cl. 74—580)



1. In a radial connecting rods assembly, a master connecting rod having an H-shaped cross sectional body structure with outward ribbings thereto, a wrist-pin bearing at the upper end of said rod, a split crank-pin bearing at the lower end of said rod, a pair of split flat faced circumferential ridges girdling said spit bearing and merging integrally above said split with said ribbings, a round concentric formed section extending axiswise from each of said circumferential ridges of said split bearing, in combination with a pair of clamp-acting semi-circular joining plates provided with inner concentric formed ribbings and seated at each end of said split bearing and embracing said round concentric formed sections and also in conformity with said ridges in arranged crossed relation to the split in said ridges and bearing, a plurality of coinciding holes extending axiswise through said joining plates and said ridges and provided with internal counterbored seats in said ridges in alternate opposite facing relation to one another, a plurality of articulate bolts provided with double seating shoulders adapted for insertion through said holes

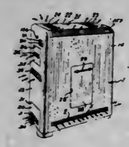
to bind together said split bearing and provide means for connections of a plurality of articulate rods to said master connecting rod.

2,318,475
COLLAPSIBLE BABY'S HIGH CHAIR
Abraham Ellner, Brooklyn, N. Y.
Application January 17, 1941, Serial No. 374,815
3 Claims. (Cl. 155—127)



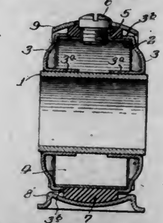
2. In a baby's high chair, a horizontal frame having an open front side, said frame having its side arms formed with grooves extended inwards from the open side thereof, a table board having its side edges slidably engaging said grooves, means mounted on the front edge of said table board for striking the front ends of the side arms of said frame in the pushed in position of said board for closing said open side and for limiting further inward movement of said table board, and means for limiting said table board to several outwardly moved positions relative to said frame, said latter means, comprising a bar mounted between the front ends of said side arms adjacent the bottom face of said table board, and a lever having one of its ends pivotally supported upon the bottom face of said table board adjacent the rear edge of said board and arranged to strike said bar in several of its turned positions to limit outward movement of said table board, and means for removably mounting said bar upon the side arms of said frame permitting the same to be removed so that said table board may be completely removed from the open front side of said frame.

2,318,476
SPACE HEATER
Robert B. Evans, Grosse Pointe, and Eugene F. Farrell and George M. Schueder, Detroit, Mich., assignors to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application November 28, 1939, Serial No. 306,534
20 Claims. (Cl. 126—110)



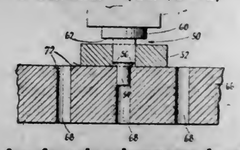
1. An air circulating space heater for rooms or the like comprising a floor-supported, upright casing enclosing an air heating combustion drum and having a lower air intake opening and a heated air discharging upper opening, blower means discharging into said casing, an upwardly swingable member forming a closure for said upper opening and a cover forming the top of said casing and permitting access to the space therebelow, and temperature responsive means to open said member to an inclined position to direct heat forwardly.

2,318,477
SHAFT BEARING
David Firth, South Bend, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana
Application February 28, 1941, Serial No. 381,115
10 Claims. (Cl. 308—26)



1. A shaft bearing comprising a bushing, a pair of axially spaced bushing holding elements consisting of metal stampings formed as annular webs with central tubular extensions in which the bushing is press fitted, said webs being load transferring, annular load carrying means rigidly connecting the outer portions of said webs, a cushioning ring fitted around said means, and a housing in which through the medium of said cushioning ring the unit composed of the other mentioned parts is supported out of contact with said housing.

2,318,478
DIE INSERT
Frank P. Gardner, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Original application December 1, 1939, Serial No. 307,054. Divided and this application June 17, 1941, Serial No. 398,454
5 Claims. (Cl. 76—4)

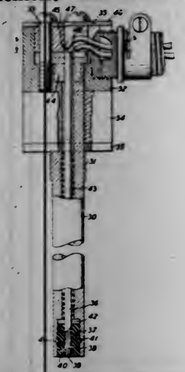


1. A tool for forming keyways in a die having a hole for receiving a die insert having keys to properly orientate the insert, said tool comprising a pilot portion dimensioned to be received in the hole, key-forming portions to form the desired keyways, a non-circular locating portion thereabove, and a plate having a non-circular opening dimensioned to slidably but non-rotatably receive the non-circular locating portion, the disposition of said plate on a die serving to determine the orientation of the keyways.

2,318,479
CONTROL APPARATUS
Randall Gillis, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 14, 1939, Serial No. 250,977
8 Claims. (Cl. 136—4)

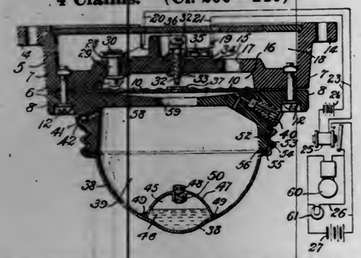
1. A device for reporting the temperature state of material in a container, comprising a tubular metal housing to extend through and seal an aperture in a container wall, temperature responsive means housed within the housing and having a temperature sensitive element at the inner end of the housing to be affected by the temperature state of material in the container,

and a rigid sleeve of hard insulating material between the element and the housing but not



covering the tip of the element, to render the inner end of the device flush across and prevent deposit of material therein.

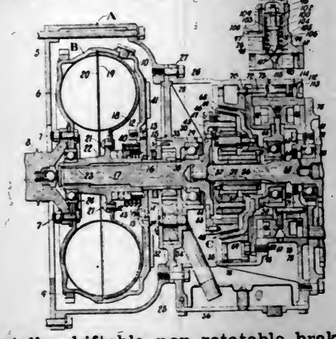
2,318,480
THERMOSTAT
William B. Griffith, Stone Harbor, N. J.
Application June 30, 1942, Serial No. 449,072
4 Claims. (Cl. 200—140)



1. A thermostat comprising an insulating support, a pair of terminals mounted thereon and adapted for connection in a circuit with a source of current supply, an air chamber mounted upon said support, a flexible diaphragm forming one wall of said air chamber normally positioned in spaced relation to one of said terminals and adapted to be distended to establish electrical connection between said terminals and close said circuit by pressure of the expanded air in said chamber against the diaphragm responsive to the action of heat, a container in communication with said chamber, a seal normally closing communication between said container and said chamber, and volatile material in said container adapted to expand and break said seal at a predetermined temperature and subject the air in said air chamber to an increase in pressure for also distending the diaphragm to establish electrical connection between said terminals.

2,318,481
TRANSMISSION
Harry R. Greenlee, South Bend, Loren D. Britton, Mishawaka, and John R. Bond, South Bend, Ind., assignors to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application December 14, 1940, Serial No. 370,114
11 Claims. (Cl. 74—290)

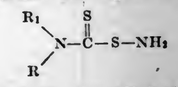
1. In a transmission having a fluid coupling and connecting power source therewith, a planetary gear system including a ring gear driven by said coupling having an external conical friction surface, a planet spider having pinions driven by said ring gear, a shaft driven by said spider, a sun gear rotatably mounted on said shaft and in meshing engagement with said pinions, a torque transmitting member shiftable axially upon said sun gear and having inner and outer conical friction surfaces extending in the same direction as the friction surface of said ring gear,



an axially shiftable non-rotatable brake member having a conical friction surface extending in the same direction and substantially parallel with the outer friction surface of said torque transmitting member, fluid actuated means for shifting said torque transmitting member, and fluid actuating means for shifting said non-rotatable brake member, said last two means being actuatable to couple said sun gear to said ring gear or to said non-rotatable brake member, optionally.

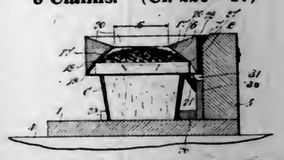
2,318,482
VULCANIZATION ACCELERATORS
Roy S. Hanslick, Nashville, Tenn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application June 22, 1939, Serial No. 280,445. Divided and this application May 9, 1940, Serial No. 334,174
5 Claims. (Cl. 260—567)

1. As a new compound, an N-substituted thiocarbamyl sulfamine having the formula



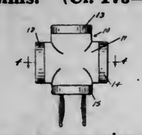
in which R and R_1 are aliphatic hydrocarbon groups.

2,318,483
APPARATUS FOR FILLING BERRY CONTAINERS
Gale Harrison, Ivanhoe, N. C.
Application June 24, 1941, Serial No. 399,551
8 Claims. (Cl. 226—17)



5. An apparatus for the purpose described comprising a base to receive a berry container, a lid for fitting over the container, the lid having an opening defined by an edge formed by the meeting of slanting surfaces on the upper and lower sides of the lid, the said surfaces on the upper side of the lid slanting inwardly and downwardly, while the said surfaces on the lower side of the lid slant inwardly and upwardly, the said surfaces on the lower side engaging the rim of the container a substantial distance from the rim of the opening as and for the purpose described.

2,318,484
CUBE TAP
William P. Herman, Providence, R. I.
Application February 17, 1941, Serial No. 379,230
4 Claims. (Cl. 173—334)



1. In a cube tap, a one-piece body of molded soft resilient material having a plurality of transverse and vertical contact receiving slots, said vertical slots being in planes at right angles to said transverse slots, each vertical slot communicating with a complementary transverse slot, said transverse slots having integral abutments extending from the outer wall towards the inner walls of said slots, and contacts mounted within said slots, one face of each transverse contact being in electrical and mechanical engagement with one edge of a vertical contact through the communicating openings of said slots, said abutments being adapted to maintain said transverse blades against the inner walls of said transverse slots.

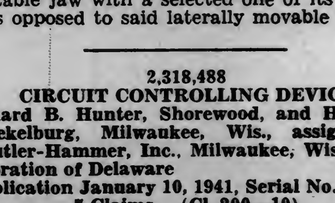
2,318,485
FEMALE CONNECTOR
William P. Herman, Providence, R. I.
Application March 8, 1941, Serial No. 382,418
5 Claims. (Cl. 173—332)



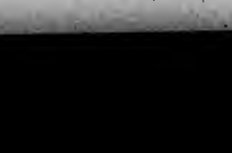
5. A female connector comprising a one-piece integral body of resilient material having an upper cable recess and two flat slots extending downwardly therefrom through the connector, said slots having restricted portions at each end thereof, said cable recess having a lower portion of narrow width for frictionally retaining the cord lead connection and grooves extending through the portion of narrow width in alignment with said slots, the upper end of each blade having spaced transverse slots extending inwardly from opposite edges of said blade to provide a strain relief connection with a cord lead wire, and flat contact blades mounted within said slots, said blades having integral interlocking portions cooperating with the walls of said slots for anchoring said blades within said slots, the upper ends of said blades extending into the grooves in said cable recess.

2,318,486
PROPELLER BLADE PACKING
Walter Scott Hoover, Montreal, Quebec, Canada
Application April 16, 1940, Serial No. 329,921
4 Claims. (Cl. 286—26)

1. In combination with a machine element having a packing receiving portion and having portions at each side of said packing receiving portion larger than and permanently secured to said packing receiving portion, a lubricant seal packing comprising a plurality of continuous annular members of elastic material having a bifurcated cross-sectional form nested together, and a continuous annular member of elastic material having a substantially solid cross-section fitted into and substantially filling the space between the bifurcate portions of the open one of said nested members of bifurcated cross-sectional form.



2,318,487
VISE
Frederick Horn, Jr., Racine, Wis.
Application May 21, 1941, Serial No. 394,543
1 Claim. (Cl. 81—20)

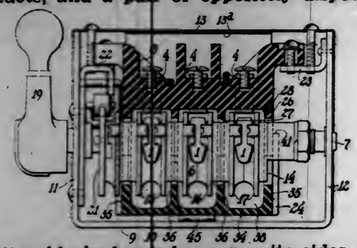


A vise comprising a relatively stationary base, a laterally movable jaw mounted for movement toward and away from said base, said base being formed with a substantially cylindrical standard rising therefrom, a rotatable jaw comprising a substantially rectangular block formed centrally with a bore rotatably receiving said cylindrical standard, the sides of said block presenting different working faces, with the bottom of said block resting rotatably on a portion of the top of said base, said block being formed with vertical slots in the lower part of its sides, said slots opening through the bottom of the block, said base being formed in its sides with a vertical slot opening through the top of the base, the slots in said block being registrable with the slot in the base, in accordance with the rotary adjustment of said rotatable jaw, and a vertically swingable latch pivoted in the slot in the base to be swung upwardly into position in the corresponding slot in said block to hold the rotatable jaw with a selected one of its working faces opposed to said laterally movable jaw.

2,318,488
CIRCUIT CONTROLLING DEVICE
Richard B. Hunter, Shorewood, and Harold L. Mekelburg, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application January 10, 1941, Serial No. 373,992
7 Claims. (Cl. 200—10)

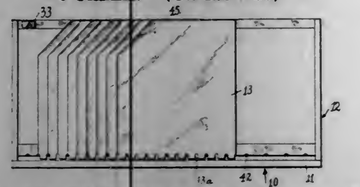
1. In a multi-pole controller, the combination with a plurality of contact sets, each including cooperating stationary and movable contacts, an oscillatable insulating element having the movable contacts of said sets mounted thereon and spaced axially thereof, a stationary insulating base mounted to one side of said element and

having the stationary contacts of said sets mounted thereon on the side adjacent said element for engagement by their associated movable contacts, and a pair of oppositely disposed in-



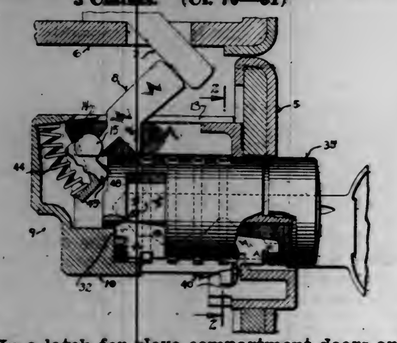
sulating blocks located on opposite sides of said element and forming with said insulating base and said element separate arc extinguishing chambers for said sets of contacts.

2,318,489
CARD FILING SYSTEM
John Iuculano, Woodside, N. Y.
Application October 17, 1942, Serial No. 462,335
6 Claims. (Cl. 129—16)



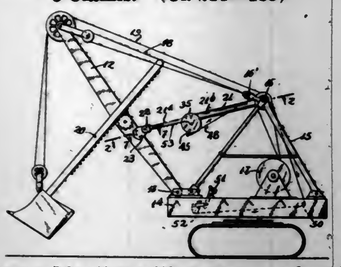
1. A card holder comprising a board, a pair of grooved members receiving the upper edges of said board, the lower edge of the board extending below the lower ends of said grooved members, the upper ends of said grooved members extending above the upper edge of said board, a transparent strip attached to the upper edge of said board and extending above said upper edge, a strip attached to the board and disposed above the lower edge of said board, said last strip being formed with a plurality of forwardly extending equally spaced hooks.

2,318,490
LOCK DEVICE
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application September 5, 1941, Serial No. 409,611
3 Claims. (Cl. 70—81)



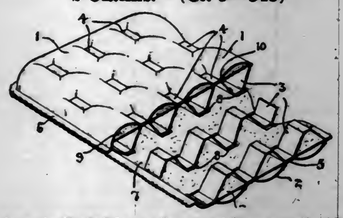
3. In a latch for glove compartment doors and the like wherein a latch operating member is exposed at the front of the door through an opening therein: a casing having its front end secured to the rear face of the door behind said opening and having a bore opening to said front end to receive the latch operating member; a lock bolt actuated by said latch operating member having trunnions received in the bottoms of open-sided bearing sockets formed in the casing; a latch retainer secured over the front end of the casing and having arms projecting therefrom to overlie the trunnions at the open sides of their bearing sockets for maintaining the same pivotally seated therein; and a pilot boss on the latch retainer entering the door opening from the rear of the door to lie between an edge portion of the door opening and the side of the latch operating member.

2,318,491
CRANE AND SHOVEL BOOM SAFETY STOP
Albert A. Johnson, Grahamsville, N. Y.
Substituted for abandoned application Serial No. 349,445, August 2, 1940. This application July 27, 1942, Serial No. 452,509
3 Claims. (Cl. 214—135)



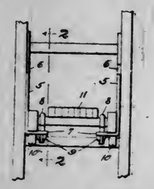
1. In combination with a crane or shovel boom having a mast for the boom, means mounted on said mast for limiting pivoting of said boom rearwards of a certain point, comprising a stationary frame mounted on said mast, said stationary frame including side rails held in spaced positions with braces, and a bumper mounted upon the boom and engageable against said side rails.

2,318,492
AIR MATTRESS
John H. Johnson, Toronto, Ontario, Canada
Application January 16, 1941, Serial No. 374,679
2 Claims. (Cl. 5—348)



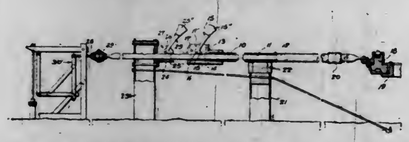
1. An inflatable air mattress of the type formed of a pair of rubber sheets sealed together at the edges having the top and bottom sheets connected on the inner side of the mattress by a plurality of parallel spaced flexible rubber strips, each of which is connected alternately to the inner surface of the bottom sheet and the top sheet, characterized in that the areas of connection of the said strips to the inner surfaces of the top and bottom sheets are alternately arranged in the adjacent strips so that the sloping plane of the portion of the strip connecting the bottom and top sheets in alternate strips are arranged to intersect the plane of the sloping portion of the intermediate strip to effect a balancing of the endwise stress on each adjacent strip, the zones of connection between the said strips and the upper and lower sheets in each alternate strip being disposed in staggered relation to the zones of connection between the adjacent strip and the upper and lower sheets.

2,318,493
PORTABLE SCAFFOLD
Robert M. Johnson, Little Rock, Ark.
Application December 22, 1942, Serial No. 469,830
2 Claims. (Cl. 304—10)



1. A portable scaffold comprising in combination, spaced vertical ladder sections, pairs of brackets secured between adjacent rungs of the vertical ladder sections, each of said brackets embodying a plate having a slot near the upper end thereof providing a hook adapted to be hooked over a rung of a ladder, a bracing member on the bottom of said bracket adapted to rest over the adjacent lower rung of a ladder, securing the bracket in position, and a horizontal platform supported on said brackets.

2,318,494
SURFACE ROD LINE JACK
William J. Jones, Oblong, Ill.
Application February 13, 1942, Serial No. 430,820
5 Claims. (Cl. 74—593)

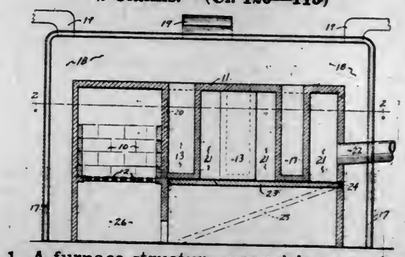


1. In a surface rod line jack, a draw bar provided with a series of ratchet teeth along a surface thereof, the outer end of said draw bar being adapted for connection with a rod line and the inner extremity of said bar projecting free, an elongated tubular coupling member connecting the draw bar to a power source, said tubular coupling member enclosing a substantial portion of the draw bar and having a hollow latch head mounted on the inner end thereof, a traveling latch pivotally mounted in said latch head and provided with a pawl adapted for engagement with the teeth of the draw bar when the coupling member is given a power stroke, a support for the rod line, another latch head secured to said support, a stationary latch pivotally mounted in said latter latch head and provided with a pawl adapted to cooperate with said traveling latch under certain operating conditions, said latch heads having upwardly projecting portions shielding said pawls and adjacent lower portions of the latches.

2,318,495
TREATMENT OF HYDROCARBONS
Warren W. Johnstone, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 26, 1941, Serial No. 404,153
8 Claims. (Cl. 196—32)

1. A method for refining a hydrocarbon oil to reduce the sulfur content thereof, which comprises treating said hydrocarbon oil with an alkali metal hydroxide solution containing a nitroparaffin.

2,318,496
WARM AIR FURNACE
Adam Kamber, Youngstown, Ohio
Application September 9, 1942, Serial No. 457,668
2 Claims. (Cl. 126—115)



1. A furnace structure comprising a rectangular heating structure, one end thereof adapted to form a fire box, grates positioned in the said fire box, a radiating section in communication with said fire box, vertical grates separating the said fire box from the said radiating section, a plurality of baffles positioned in the said radiating section to form a winding passageway therethrough for the products of combustion, a flue pipe in communication with the said radiating section, a removable bottom member for said radiator member, means for normally holding the said removable bottom member in closed position, and means for imparting movement to the said removable bottom member so as to move the same away from the said radiator structure.

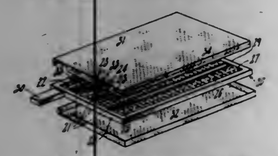
2,318,497
PLAITED MATERIAL AND METHOD OF MAKING THE SAME
Robert A. Kassel, Brooklyn, N. Y., assignor to Charles I. Rockmore, Inc., Brooklyn, N. Y., a corporation of New York
Application September 25, 1941, Serial No. 412,307
2 Claims. (Cl. 154—33.05)



1. A method of plaiting material so as to form plaits therein in plaited areas which are separated by unplaited areas, which consists in feeding the material relative to a material-supporting member and with an inner face of the material in contact with a part of said material-supporting member and the outer face of the material free from contact with said material-supporting member, thus feeding the material by a series of intermittent feeding strokes of a combination feeding and plaiting member which intermittently contacts with said outer face, locating a mask

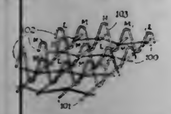
between said outer face and the operating end of said plaiting member to prevent said plaiting member from plaiting the respective part of said material, moving said mask in unison with said material during said intermittent feeding strokes, and striking said operating end against the outer face of said mask while said mask is located in the path of movement of said outer end.

2,318,498
BATTERY PASTE RETAINER
Alexis W. Keen, Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Original application October 21, 1937, Serial No. 170,224. Divided and this application December 13, 1939, Serial No. 308,946
2 Claims. (Cl. 136—63)



2. A shielded storage battery plate comprising in combination a pasted grid having slots extending therethrough, perforated hard rubber sheet material surrounding said grid, and rubber strips in said slots extending from one face of said rubber sheet material to the opposite face of said rubber sheet material, the outer edges of said rubber strips being adhesively secured to said sheet material.

2,318,499
LOOP PILE FABRIC
William Rollin Keen, Drexel Hill, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Original application April 17, 1941, Serial No. 388,969. Divided and this application October 9, 1942, Serial No. 461,373
5 Claims. (Cl. 139—402)

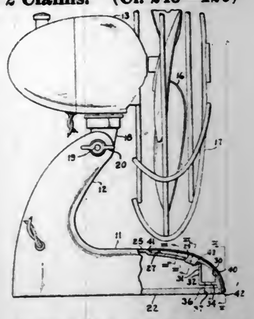


1. In a loop pile fabric a warpwise row of pile loops of at least three different heights, said loops being formed from a single warpwise pile yarn, and a weftwise row of pile loops of different heights, one of said loops being common to the warpwise row and also to the weftwise row.

2,318,500
PREPARATION OF ASCORBIC ACID AND l-GULOSONE
Charles G. King and Elam G. White, Pittsburgh, Pa., assignors of one-half to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan, and one-half to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
No Drawing. Application October 21, 1935, Serial No. 46,048
11 Claims. (Cl. 260—209)

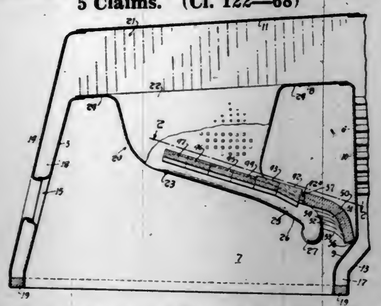
1. The process for synthesizing vitamin C comprising the oxidation of l-gulosone to obtain alpha-keto-l-gulonic acid and converting the same into l-ascorbic acid.

2,318,501
AIR TRANSLATING APPARATUS
Gustav H. Koch, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 31, 1942, Serial No. 429,015
2 Claims. (Cl. 248—126)



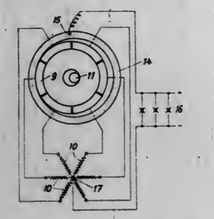
1. In an electric fan or the like, a supporting pedestal having a flat bottom and a curved top wall sloping to a junction with said flat bottom, fastening means extending through an opening in said pedestal for engaging an external support, a cover for concealing said opening and said fastening means, spring clips carried by said cover and engaging said pedestal for removably retaining said cover in position, a portion of the lower edge of said cover being spaced from the corresponding portion of said flat bottom to provide a normally invisible opening for the reception of means for disengaging said cover.

2,318,502
LOCOMOTIVE BOILER FIREBOX
Bert E. Larson, Park Ridge, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a corporation of Delaware
Application November 27, 1940, Serial No. 367,351
5 Claims. (Cl. 122—68)



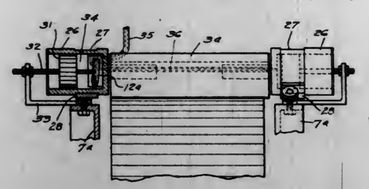
3. In combination with a locomotive boiler type of firebox having side, front and crown sheets, a pair of laterally spaced substantially rigid water steaming and circulating elements disposed in the firebox and each having an elongated discharge end that opens through the crown sheet and a tubular inlet neck portion that curves downwardly and laterally outward toward the adjacent side sheet to open through the associated corner of the firebox near the bottom thereof, and a fire arch in the front part of the firebox and composed of sets of side, intermediate and front end bricks, the bricks in the intermediate set being wholly supported upon said elements, the bricks in said side sets being supported in part from said side sheets and in part from said elements and the bricks in the front end set being supported in part from said front sheet, in part from said inlet neck portion of said elements and in part from one of the brick in the intermediate set.

2,318,503
ELECTRIC CONVERTER
Georg Leischner, Bonigen, near Interlaken, Switzerland
Application August 3, 1940, Serial No. 350,759
In Switzerland August 30, 1939
4 Claims. (Cl. 175—364)



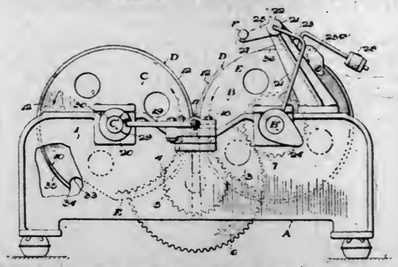
1. In an electric commutator, a segment member, a rotatable shaft, a current collector loosely and eccentrically mounted on said shaft and always in contact with said segment member at one point, said current collector having gaps subdividing the latter, insulating pieces adapted to subdivide said segment member and to enter said gaps, said shaft on rotating providing relative movement between said segment member and said current collector.

2,318,504
DOCTOR OPERATING MECHANISM FOR ROLLS AND CYLINDERS
Frederick W. Lodding, Worcester, Mass.
Application December 9, 1938, Serial No. 244,824
4 Claims. (Cl. 92—74)



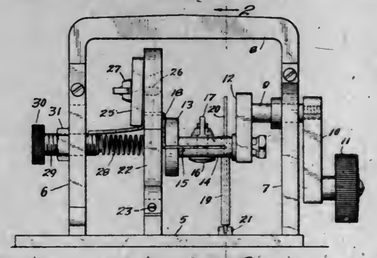
1. A doctor operating mechanism for rolls and cylinders of a paper making machine, comprising in combination, spaced stationary frame members, a doctor blade, a carrier for said blade extending between said frame members, trunnions mounted on said carrier at its ends and providing hollow housings, means for rotatably and slidably supporting said trunnion housings on said frame members to position said carrier with the edge of said blade in engagement with a rotating surface, a piston carried by each frame member and extending within a trunnion housing, and valve means located in one housing and operated by relative movement between said housing and piston for controlling admission of a fluid operating medium to the trunnion housings, to impart a back and forth movement to said blade carrier with respect to said pistons and frame members, in a direction parallel to the axis of said rotating surface.

2,318,505
MACHINE FOR AUTOMATICALLY FORMING PROJECTILES
Fred R. Long, Catawissa, Pa.
Application July 21, 1942, Serial No. 451,753
3 Claims. (Cl. 29—1.21)



3. In a machine for rolling projectiles, a receiving roll and a delivery roll each mounted on a horizontal shaft and having their adjacent peripheries spaced apart, a rolling anvil mounted in the space between the rolls and cooperating therewith to provide a rolling station, means for driving said rolls in the same direction so that their adjacent peripheries move in opposite directions, complemental die-ribs on the periphery of each roll and said ribs tapering rearwardly both vertically and laterally from toe to heel, said ribs being of less length than the circumference of their related rolls, a pair of spring retracted piercing mandrels located axially of the position of a blank supported on said anvil, cam means on the shaft of the delivery roll for operating said piercing mandrels, a pocket on the delivery roll, ejector means on the receiving roll for displacing a rolled projectile unit from the rolling anvil into said pocket, inwardly facing blank-retaining sockets at opposite sides of the receiving roll, a blank feeding frame including a blank receiving cradle, cooperating cam means on the frame and the shaft of the receiving roll to tilt said frame and thereby release a blank into said retaining sockets, and means for mounting the shaft of the delivery roll to move it toward the receiving roll near the end of each forming cycle of both rolls.

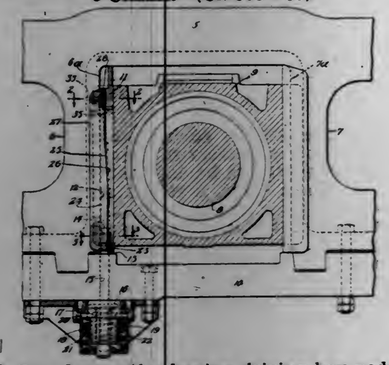
2,318,506
FRICTION AND FLEXURE TESTING DEVICE
Glen Allen Lovell, Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application August 30, 1939, Serial No. 292,708
9 Claims. (Cl. 73—51)



1. In a testing device of the class described, the combination of a frame, a shaft journaled in said frame and having a testing member pivoted eccentrically thereon, another testing member having a testing surface adjacent to and yieldingly urged
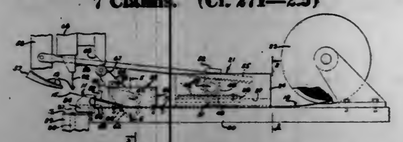
toward the first mentioned testing member and each testing member including means to secure thereto one end of a portion of the material to be tested, and means to rotate said shaft.

2,318,507
ADJUSTING MECHANISM FOR LOCOMOTIVE DRIVING BOXES
Frederick W. Martin, Greenwich, Conn., assignor to Franklin Railway Supply Company, Inc., New York, N. Y., a corporation of New York
Application May 21, 1941, Serial No. 394,503
6 Claims. (Cl. 308—66)



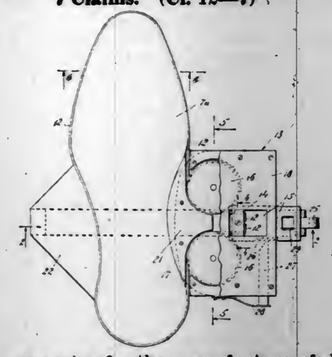
5. In a locomotive having driving box pedestal jaws, the combination with the driving box, of a floating plate adjacent a side of the box, said plate having its box face parallel with the face of the box and its opposite face tapered upwardly and outwardly toward the adjacent jaw, and a compensating plate between said floating plate and the adjacent jaw, said compensating plate having its jaw face parallel to the face of the jaw and its other face oppositely tapered to cooperate with the taper on the floating plate, the compensating plate also having flanges at its upper end which project to embrace the floating plate and the floating plate having flanges at its lower end which project to embrace the compensating plate.

2,318,508
MATERIAL FEEDING APPARATUS
Frank Martindell, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 10, 1940, Serial No. 344,755
7 Claims. (Cl. 271—2.5)



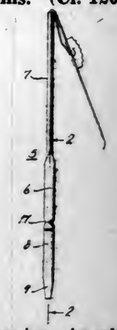
1. In an apparatus for feeding strip material having spaced projections along opposite sides to a predetermined position, a reciprocatory carriage, means movably carried thereon engaging the material including material feeding members adapted to engage said projections for feeding the material in one direction beyond the predetermined position and to idly ride by and move into feeding relation with the following projections in a reverse movement of said carriage, said material engaging means including a friction member engaging the material intermediate the feeding members and effective during said reverse movement of said carriage to return the material to its predetermined position, and stops engaged by said projections upon the material reaching its predetermined position.

2,318,509
APPARATUS FOR THE MANUFACTURE OF SHOES
Guilherme Siegfried Marx, Hoboken, N. J.
Application August 30, 1941, Serial No. 408,947
7 Claims. (Cl. 12—7)



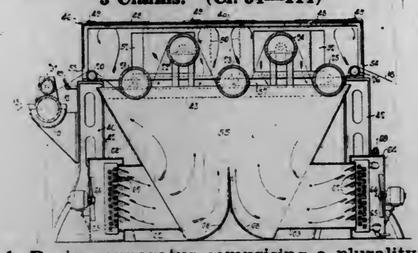
1. An apparatus for the manufacture of shaped shoe parts comprising a supporting table having an aperture corresponding in shape to but slightly larger than the transverse section of the shoe part to be produced, holding means disposed peripherally of the aperture for slidably holding a sheet of leather on the surface of the table, a last adapted to be passed through the said aperture and having a contour corresponding to the contour of the shoe part to be produced and adapted to shape a portion of the leather to conform to the shape of the last by pressing it through the aperture, a wire member positioned below the surface of the table and adapted to be tightened around the shaped leather on the last and adjacent the top thereof, and an adjustable tightening means for tightening the wire member about the last.

2,318,510
LEAD CLUTCH FOR PENCILS
Hans Maucher, New York, N. Y., assignor to Norma Multikolor, Inc., New York, N. Y., a corporation of New York
Application June 17, 1941, Serial No. 398,364
8 Claims. (Cl. 120—14)



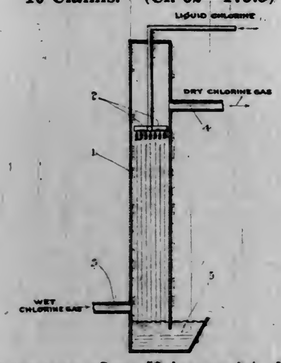
1. A pencil of the type in which lead is insertable into the writing end, characterized by an axially chambered body, a tubular lead guide, a tubular clutch element telescoped within the guide having a reduced internal diameter at its forward end and a slightly greater internal diameter for the major portion of the remainder of its extent, the guide and clutch being rotatably mounted with respect to the body and the internal diameter of the guide at its outer end equalling the greater internal diameter of the clutch element, the rear terminal of the clutch being threaded, and a screw propeller engageable with the threaded terminal and operable upon rotation of the guide to advance the lead.

2,318,511
YARN DRYING APPARATUS
Clifton E. McAllister, Batesburg, S. C.
Application May 2, 1942, Serial No. 441,498
3 Claims. (Cl. 34—114)



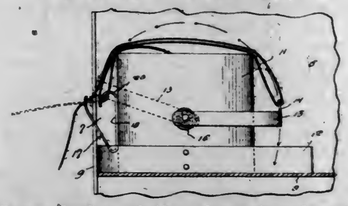
1. Drying apparatus comprising a plurality of rollers over which yarn and the like is adapted to be passed, an inverted pyramidal shaped housing disposed below said rollers, said housing having an open upper side disposed in close proximity to the lower periphery of said rollers, a second imperforate housing disposed over said rollers and over the open upper end of said first housing, said second housing having an open lower side of larger size and similar shape to said first named opening, and means for directing currents of air upwardly through said first housing, over said yarn and into said second housing and fanning outwardly in all directions through the space between the edges of the upper and lower housing and into the atmosphere in the order named.

2,318,512
PURIFICATION AND DRYING OF CHLORINE GAS
Ivan Roy McHaffie, Montreal, Quebec, Canada, assignor to Canadian Industries Limited, Montreal, Quebec, Canada, a corporation of the Dominion of Canada
Application December 21, 1940, Serial No. 371,133
In Canada July 22, 1940
10 Claims. (Cl. 62—175.5)



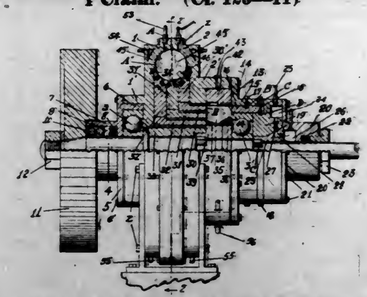
1. The process of purifying moist chlorine gas which comprises passing said chlorine gas in counter-current flow to a contacting stream of pure liquid chlorine to cause condensation of the moisture present in said gas and separating the condensate from the purified gaseous chlorine.

2,318,513
COMBINED TWINE HOLDER AND RETRACTOR
Franklin H. McIlwain, Rushville, Ind.
Application July 1, 1942, Serial No. 449,288
5 Claims. (Cl. 242—144)



1. In a device of the character described, a holder for a ball of cord, means for mounting said holder, a substantially U-shaped take-up member pivoted on said holder and having a cord guide opening through which the cord passes, spring means acting on said take-up member to normally position the same horizontally with respect to the holder, and a cord guide means mounted on the holder and including a pair of guide openings through which the cord passes and a notch, said cord guide means coacting with the take-up member in freely feeding cord out of the holder when the cord is pulled upon and the take-up member assumes a position adjacent to said cord guide means and said cord guide means acting to grip the cord when said take-up member is moving toward its normal position on the release of the cord to prevent the cord from being pulled from the ball within the holder.

2,318,514
INTERNAL COMBUSTION ROTARY ENGINE
Clarence H. Miller, Winfield, Kans., assignor of twenty-five per cent to Allen L. Lipperd and five per cent to Ivan L. Lipperd, both of Winfield, Kans.
Application April 24, 1940, Serial No. 331,425
1 Claim. (Cl. 123—11)



A rotary internal combustion engine of the character described comprising a fixed casing having an annular cylinder formed therein, a plurality of pistons slidable in the cylinder, a drive shaft extending axially through the casing and concentric with the cylinder, intermittent driving means between the pistons and the shaft, said driving means comprising a plurality of sleeves of different lengths and concentric with

the shaft, said sleeves nested together and rotatable one upon the other, one end of the sleeves being aligned while their opposite ends are provided with flanges, the outer or peripheral edges of the flanges being formed on an arc transversely and jointly forming one-half of the cylinder, anti-friction means between the sleeves and flanges, each of said flanges having a piston carried by its peripheral edge and rotatable therewith, means for securing the pistons to the flanges, a pawl carried by each of the sleeves at their aligned ends and in alignment with the respective piston carried on its flange, a ratchet member secured to and rotatable with the shaft, a fixed annular member carried by the casing and arranged concentric with the ratchet member in spaced relation, the ratchet and annular member jointly forming a raceway for said pawls, said pawls movable in the raceway under the action of the pistons and associated sleeves, a firing chamber formed by the pair of pistons, said pawls momentarily engaging the ratchet for holding one of the pistons against reverse movement to serve as an abutment while the co-acting piston and associated sleeve move under the influence of an explosive charge fired between the two pistons, the movement of the said co-acting piston transmitting its motion to the drive shaft through its sleeve and pawl, a charge igniting means arranged in the cylinder in advance of the abutment piston, means for introducing an explosive mixture between the pistons and exhaust means for the burned gases.

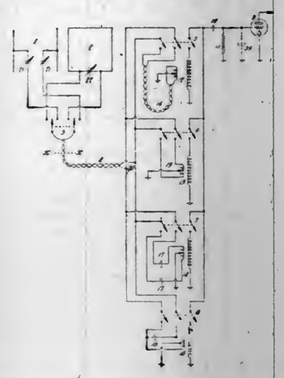
2,318,515
REED
Jasper C. Nemcek, Jr., Binghamton, N. Y.
Application May 11, 1942, Serial No. 442,501
1 Claim. (Cl. 84—383)



A plastic reed for wind instruments of the single reed type comprising an elongated body part having one side flat and the other substantially convex, one end portion having a corrugated top surface with an upturned extremity, a tapered thin vibrating part at the other end adapted to cover the mouthpiece opening, a volume regulating transverse groove at the juncture of said parts, and a longitudinal web extending substantially the length of said vibrating part.

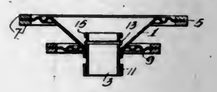
2,318,516
HIGH FREQUENCY ANTENNA SYSTEM
William H. Newbold, Langhorne, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application December 14, 1940, Serial No. 370,213
19 Claims. (Cl. 250—20)

16. In a receiving system for high frequency electromagnetic wave signals, having a cabinet for housing said receiving apparatus, a receiving antenna disposed within said cabinet, a transmission line section serving to connect said antenna to said receiving apparatus and being of electrical length commensurate with said antenna, and means for forming a plurality of tuned circuits, each tuned to a different frequency and each including as an integral part



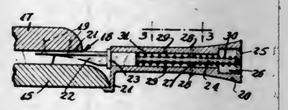
thereof said antenna and said transmission line section.

2,318,517
LOUDSPEAKER
Harry F. Olson, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1940, Serial No. 316,614
15 Claims. (Cl. 179—115.5)



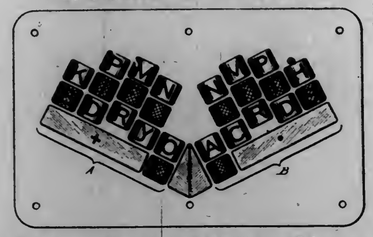
1. Acoustic apparatus comprising, in combination, a vibratile member, a voice coil form secured thereto, said form extending through said member with at least one of its ends freely suspended for vibration with said member, a voice coil carried by said form on one side of said member, and a compliance in said form on the other side of said member.

2,318,518
LIFTING HANDLE DEVICE FOR TOILET SEATS AND COVERS
Louis Opperer, Brooklyn, N. Y.
Application June 4, 1941, Serial No. 396,508
5 Claims. (Cl. 4—251)



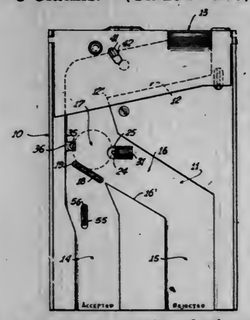
1. In a water closet having a seat pivotally mounted at its rear end and a cover for said seat also pivotally mounted at its rear end, a bracket attached on and projecting from said cover, a handle movably mounted on said bracket and provided with a hook for catching said seat and indirectly connecting it with said cover, means for urging said handle into one position or another position for the reason described, comprising an annular member adjustably mounted within said handle, and springs on the opposite sides of said annular member and having their inner ends bearing against opposite sides of said annular member and their outer ends bearing against portions of said bracket.

2,318,519
SHORTHAND TYPEWRITING MACHINE
Clementine Camille Marie Palanque, London, England
Application September 28, 1940, Serial No. 358,896
In Great Britain September 28, 1939
13 Claims. (Cl. 197—100)



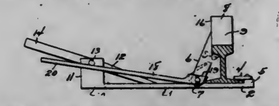
1. In a shorthand typewriting machine, a group of keys disposed for operation by the fingers of one hand of the operator and comprising a central row of keys with the letters M F R thereon, respectively, and other rows of keys arranged in a plane higher than that of said central row of keys, said key with the letter M thereon having a slight concavity in the upper face thereof and said key with the letter M thereon lying in a plane slightly lower than that of the key having the letter F thereon.

2,318,520
COIN AND CHECK SEPARATOR
William Patzer and Walter A. Tratsch, Chicago, Ill.
Application March 22, 1941, Serial No. 384,642
8 Claims. (Cl. 194—100)



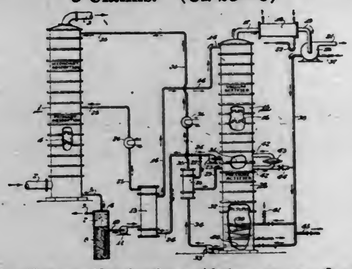
1. In a gravity type coin chute comprising a body having formed therein an initial passage and an acceptance and reject passage, coin obstructing means normally disposed to overlie the acceptance passage to direct coins toward said reject passage, an electric circuit, a thermo-couple in said circuit and arranged at the point of juncture of said passages and including a pre-heated relatively "fixed" contact adapted to block passage of coins into said reject passage and a movable contact extending into said passage and adapted to be engaged by a coin of proper diameter and metallic characteristics in conjunction with the relatively "fixed" contact to set up an electric current in said circuit, and electromagnetic means in said circuit and arranged on said body and having an armature connected to said coin obstructing means and adapted to withdraw the latter from above said acceptance passage in response to said impulse aforesaid, a supporting means for said relatively "fixed" contact, means for mounting said supporting means and said relatively "fixed" contact for pivotal movement in a direction transversely of said coin passage and scavenger means arranged on said body and operatively engaging said supporting means and adapted to be operated to move the latter to effect withdrawal of said relatively "fixed" contact from coin blocking position.

2,318,521
MINE CAR STOP
Dell W. Perdew, Prenter, W. Va.
Application March 2, 1942, Serial No. 433,065
3 Claims. (Cl. 104—258)



1. A car stop comprising an elongated base to underlie a rail, a rail engaging block fixed to and overhanging the base adjacent one end thereof to cooperate with the base to provide a seat for the flange of the rail, pivoted means engageable with said flange for cooperation with said block for locking the base to the rail, an arm pivotally secured to said block, a scotch block fixed to the arm to be carried thereby for swinging movement to be disposed on and off the rail, a pair of spaced uprights formed on the base at the opposite end thereof, a lever pivoted between the uprights and engageable with the arm and scotch block for applying the latter to the rail, a second lever having one end pivoted to the pivot of the arm and being normally disposed in a lowered position paralleling the base, a pin at the pivoted end of the second lever and arranged in the path of the arm for the latter to elevate the second lever when the scotch block is applied to the rail, and said pin being engaged with the arm when the scotch block is in applied position, whereby upon moving the second lever to its lowered position, the scotch block will be removed from the rail.

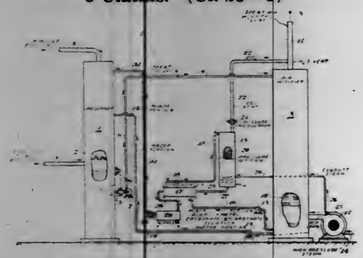
2,318,522
GAS PURIFICATION PROCESS
Alfred R. Powell, Pittsburgh, Pa., assignor to Koppers Company, a corporation of Delaware
Application July 24, 1940, Serial No. 347,131
5 Claims. (Cl. 23—3)



4. In the method of purifying a gas from hydrogen sulphide and carbon dioxide which comprises the recirculation of a regenerable absorbent solution of alkali-metal carbonate and bicarbonate through a cycle comprising an absorption stage in which the solution is brought into contact with the gas, and a regeneration stage in which the solution is regenerated, the improvement which consists in: washing the gas with a flow of absorbent liquid in a primary absorption stage to remove the bulk of its hydrogen sulphide con-

tent and with another flow of absorbent liquid in a secondary stage for removal of small traces of hydrogen sulphide left over in the gas from the primary stage; commingling in the primary stage the liquid from the secondary stage with the aforesaid flow of liquid for the primary stage; regenerating the fouled commingled solution by continuously passing the entire bulk thereof through a primary actification stage, and flowing steam through the same therein while it is under vacuum of reduced pressure as compared with the pressure of the absorption stage to remove the bulk of its absorbed H_2S while leaving the solution depleted in its carbonate content to a level below that required for renewed H_2S absorption; recirculating the major portion of the so regenerated bulk of said depleted solution over the gas in said primary absorption stage; continuously flowing a proportionate minor portion of the so regenerated bulk of the depleted solution through a secondary actification stage and boiling it therein under elevated temperature and pressure as compared with the primary actification stage to remove CO_2 from bicarbonate therein to such an extent as to increase the carbonate to bicarbonate ratio in said minor portion to such an amount in excess of the ratio thereof required in the bulk of the solution for H_2S absorption in the primary absorption stage that the commingling of the minor portion, after its traversal of the secondary absorption stage, with the depleted major portion in the primary absorption stage, will restore in the entire bulk the ratio of carbonate to bicarbonate required for absorption of the bulk of the hydrogen sulphide content of the gas in the primary absorption stage; and recirculating the so boiled minor portion over the gas in said secondary stage.

2,318,523
SEPARATION AND PURIFICATION OF GASEOUS MIXTURES
Alfred R. Powell, Pittsburgh, Pa., assignor to Koppers Company, a corporation of Delaware
Application January 15, 1941, Serial No. 374,430
5 Claims. (Cl. 23—3)



5. In the method of purifying a gas from hydrogen sulphide and carbon dioxide which comprises the recirculation of a regenerable absorbent solution of alkali-metal carbonate and bicarbonate through a cycle comprising an absorption stage in which the solution is brought into contact with the gas, and a regeneration stage in which the solution is regenerated, the improvement which consists in: washing the gas with a flow of absorbent liquid in a primary absorption stage to remove the bulk of its hydrogen sulphide content and with another flow of absorbent liquid in a secondary stage for removal of small traces of hydrogen sulphide left over in the gas from the primary stage; commingling the liquid from the secondary stage with the aforesaid flow of liquid in the primary stage; regenerating the fouled commingled solution from the primary stage by passing the entire bulk through an actification stage in countercurrent relation with a flow of air to remove the bulk of its absorbed H_2S while leaving the solution depleted in its carbonate content to a level below that required for renewed H_2S absorption; recirculating the major portion of the bulk of said depleted solution over the gas in said primary absorption stage; boiling such a proportionate minor portion of the bulk of the so depleted solution under pressure so as to remove CO_2 from bicarbonate to such an extent as to increase its carbonate to bicarbonate ratio to an amount in excess of the ratio required in the bulk of the solution for H_2S absorption in the primary absorption stage that the commingling of the minor portion, after its traversal of the secondary absorption stage, with the depleted major portion in the primary absorption stage, will restore in the entire bulk the ratio of carbonate to bicarbonate required for absorption of the bulk of the hydrogen sulphide content of the gas in the primary absorption stage; and recirculating the so boiled minor portion over the gas in said secondary stage.

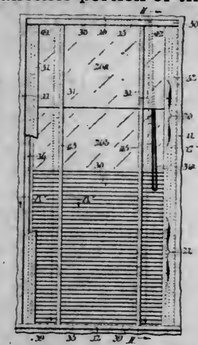
2,318,524
BOTTLE WASHER
Philip C. Read, Shorewood Wis., assignor to Dostal & Lowey Co., Inc., Menomonee Falls, Wis., a corporation of Wisconsin
Application September 26, 1940, Serial No. 358,376
6 Claims. (Cl. 210—55)



1. In a bottle washer of the character described: an elongated soaker tank having a bottom wall upon which labels and other materials washed from the bottles as well as broken bottles accumulate during the washing process, and having end walls extending upwardly therefrom; a conveyor element including a pair of spaced-apart endless chains encircling said walls at each side of the tank, a plurality of scrapers connected between said endless chains at regular intervals throughout its length, and meshing carried by the chains between said scrapers and cooperating therewith to form a perforate flexible conveyor surface; means for driving said conveyor element including sprockets over which the endless chains are trained and positioned adjacent to the top edges of the end walls of the tank so that the conveyor element traverses the length of the tank; and means for constraining the top stretch of the conveyor inside the tank to travel along the inside surfaces of said walls so that the lower edge of the scrapers contact said inside wall surfaces and cooperate with said meshing to effect removal of labels and other materials such as broken bottles from the tank by conducting the same over the top edge of one of said end walls as the conveyor operates.

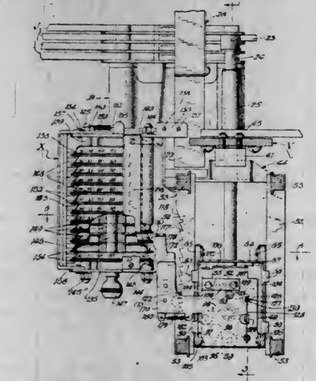
2,318,525
BLIND
Henry N. Renton, Wyncote, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 26, 1942, Serial No. 444,552
14 Claims. (Cl. 160—173)

1. A blind for windows and the like including a shade component for shielding a portion of the window area; an associated screen component for shielding another portion of the window area



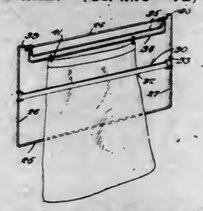
capable of being collapsed into coincidence with the area of said shade component; and means for controlling said collapsible screen component.

2,318,526
INDICATING DEVICE
David C. Rockola, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application December 1, 1939, Serial No. 307,038
5 Claims. (Cl. 274—10)



5. In a multi-record phonograph of the type adapted for selective reproduction of records, the combination comprising means carrying a plurality of phonograph records, record selector means comprising movable parts for selecting and delivering records for reproduction, indicating means including a plurality of substantially circular indicating elements maintained for independent rotation on a common shaft, and movable pawl means actuated by the record selector means to rotate the indicating elements and thereby indicate the relative popularity of the phonograph records carried by the carrying means by indicating the number of times each of the records is selected by the selector means, means comprising a resilient element included in said pawl means and adapted to give to prevent failure of rotation of an indicating element from interfering with the operation of the selector means, and means for stopping the indicating elements at predetermined positions for resetting said elements to said predetermined positions by rotation of said common shaft.

2,318,527
TRAVEL CASE
Irwin W. Rosenthal, New Orleans, La.
Application November 12, 1940, Serial No. 365,350
1 Claim. (Cl. 223—71)



Apparel frame of such size as adapts it to fit within a hand travel case and therefore being shorter than a skirt or coat, comprising a continuous rectangular member bent from rod material having parallel top and bottom bars and parallel side bars and being the full width of a skirt or coat when in naturally draped position, said top bar having upstanding ears at the ends, a plurality of hanger bars adapted to suspend articles of apparel, the latter being automatically infolded about said apparel frame by inversion of the latter, each of said bars comprising a transverse portion with angularly disposed ends, each end terminating in a hook, one of said hanger bars being of such width that its hooks may engage the top bar of the frame adjacent the upstanding ears whereby lateral movement of said hanger is prevented, successive hanger bars being of successively decreasing width and height whereby the hanger bars may be suspended from the top bar of the frame and nest one within the other and hang in a common plane, said hanger bars being held against detachment from said frame by the tension of the infolded apparel, and elastic straps bridging said frame one on each side of the apparel, having means at their ends engaging the opposite side bars and shiftable upwardly or downwardly along said bars.

2,318,528
SUSPENDER SUIT CONSTRUCTION
Samuel Rossby, New York, N. Y.
Application July 18, 1942, Serial No. 451,386
4 Claims. (Cl. 2—80)

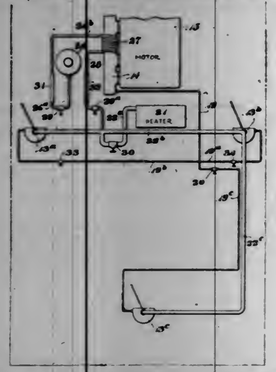


1. In combination with a garment having a waist portion and a fundament covering portion, shoulder straps connected with said fundament covering portion and engaging across the shoulders of said waist portion, and each shoulder of said waist portion having a pair of forwardly and rearwardly spaced openings through which the shoulder strap thereof is laced.

2,318,529
WINDSHIELD CLEANING APPARATUS
Orville W. Sailer, Washington, D. C.
Application January 20, 1940, Serial No. 314,878
4 Claims. (Cl. 15—250.5)

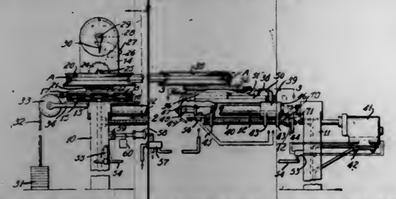
1. A window clearing system for a motor vehicle having a windshield, a back window, an

internal combustion power plant affording a source of pressure influence, an exhaust conduit and a hot air car heater, said system comprising in combination; a wiper mechanism for said windshield and a wiper mechanism for said window, each including a wiper arm operatively connected to said pressure source, a wiper blade connected to each arm, a reservoir for a defrosting fluid, a fluid conduit positioned in heat exchange relation with said plant connecting said reservoir with said blade, said conduit including a coil in heat exchange relation to said exhaust conduit and adapted to receive fluid by gravity from said reservoir, means for releasing



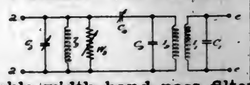
fluid from said reservoir to permit it to flow by gravity to said coil wherein the heat from said exhaust conduit may expand said fluid and thereby force it to travel through said fluid conduit to said blade, and means interposed between said reservoir and said coil to automatically prevent back pressure in said reservoir, means for releasing defrosting fluid to said blade from said reservoir, and means for releasing hot air to said blade from said car heater whereby hot air and hot fluid may be alternately or concurrently delivered to said blade.

2,318,530
BELT-MEASURING APPARATUS
Edward L. Schick and James E. Ashworth, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 8, 1940, Serial No. 351,864
4 Claims. (Cl. 73—51)



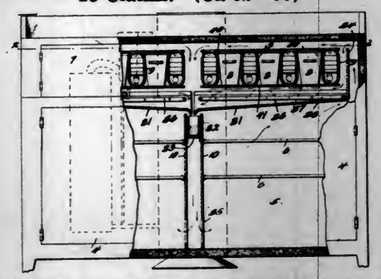
1. Belt-measuring apparatus comprising a pair of sheaves mounted for movement of one with relation to the other, means for applying a weight to the movable sheave for loading a belt upon the same, the other said sheave being movable from slack position to a belt tightening position, means for moving the last-mentioned sheave between the slack position and the belt tightening position thereof, and means controlled by such movement for rotating said sheave whereby both sheaves and the belt are rotated through a limited number of revolutions.

2,318,531
BAND FILTER
Jean Schwartz, Baden, Switzerland, assignor, by mesne assignments, to "Patelhold" Patentverwertungs & Elektro-Holding A.-G., Glarus, Switzerland, a joint stock company of Switzerland
Application September 7, 1940, Serial No. 355,873
In Switzerland September 11, 1939
7 Claims. (Cl. 178—44)



4. A variable width band pass filter comprising a pair of oscillatory circuits with substantially fixed and at least critical coupling, a third oscillatory circuit, means including a capacitive reactance loosely and adjustably coupling said third circuit to one circuit of said pair, and means for adjusting the width of the frequency band transmitted by said coupled circuits, said means comprising means for adjusting the damping of the third oscillatory circuit.

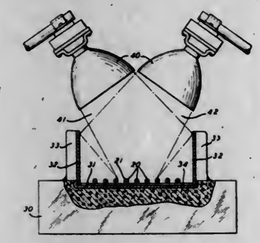
2,318,532
REFRIGERATING SYSTEM AND APPARATUS
James G. Scott, Washington, D. C.
Application September 3, 1938, Serial No. 228,433
15 Claims. (Cl. 62—99)



1. A refrigerator apparatus including a refrigerating cabinet, a transverse baffle wall dividing said cabinet into upper freezing and lower storage compartments, an elongated evaporating unit extending across the upper compartment in spaced relation from said transverse baffle, and freezing container supporting means interposed between said evaporating unit and the transverse baffle, said supporting means having edge portions and a commodity supporting portion surrounded thereby and being arranged within said upper freezing compartment with said commodity supporting portion out of contact with said baffle and said elongated evaporating unit.

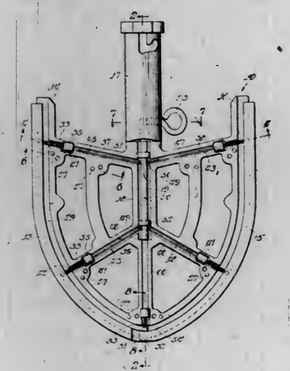
2,318,533
APPARATUS FOR HEATING MATERIAL
John N. Selvig, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 6, 1940, Serial No. 368,815
1 Claim. (Cl. 219—34)

An apparatus for heating material in strand form and comprising members to form an open topped channel with vertical side walls and with a horizontal floor to support a strand passing over the floor and between the walls, the inner faces of the side walls being polished to reflect radiant heat and the floor surface being blackened to radiate secondary radiant heat by black body radiation when irradiated with primary radiant heat, in combination with a plurality of sources of primary radiant heat positioned to irradiate the inner faces of the side walls and the floor surface with primary radiant heat from two angularly diverging directions simultaneously and thereby to irradiate a strand



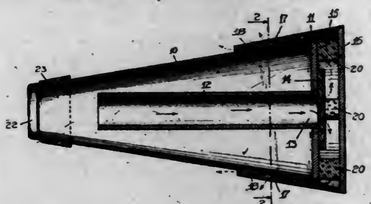
passing through the channel upon its upper portion with primary radiant heat and upon its lower portion with secondary radiant heat radiated by black body radiation from the floor surface.

2,318,534
BATTER MIXER
Theodore Seybert, Chicago, Ill.
Application August 30, 1941, Serial No. 408,940
6 Claims. (Cl. 259—129)



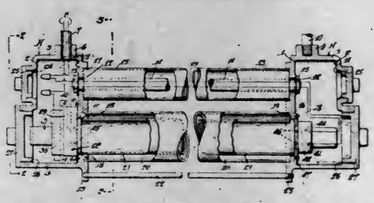
1. A batter mixing blade having means to scrape the walls of a mixing bowl when the blade is rotated in the bowl, said blade having a curved peripheral edge adapted to engage the interior side and bottom surfaces of the bowl, a scraping shoe movably mounted on said peripheral edge for movement radially with respect to the axis of rotation of the blade and axially with respect to said axis, means on said blade urging the shoe outwardly in both said directions of movement and means limiting the outward movement of said shoe with respect to the peripheral edge, said last named means comprising flexible members secured to the shoe and an anchor for said flexible members mounted in the blade and said first named means comprising stops on the blade and resilient means encircling said flexible members and under compression between the shoe and said stops in said blade for urging the shoe radially of the blade, and resilient means under compression between the shoe and a stop adjacent to the end of the blade.

2,318,535
MUTE
Charles Spivak, Englewood, N. J., assignor to Micro Musical Products Corp., New York, N. Y., a corporation of New York
Application February 17, 1942, Serial No. 431,187
16 Claims. (Cl. 84—400)



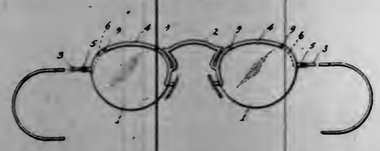
1. A mute comprising a first element forming an inner chamber, a second element secured to said first element and forming an outer chamber, a conduit disposed in said inner chamber and communicating with said outer chamber, first stationary sound absorbing means associated with said conduit to reduce the volume of sound while the same passes from the inner chamber to the outer chamber through said conduit, said outer chamber being provided with sound outlet means, second stationary sound absorbing means associated with said outlet means to further reduce the sound while passing through said outlet means.

2,318,536
FLUORESCENT LIGHTING FIXTURE
John Stern, Philadelphia, Pa.
Application July 1, 1941, Serial No. 400,693
7 Claims. (Cl. 240—11.2)



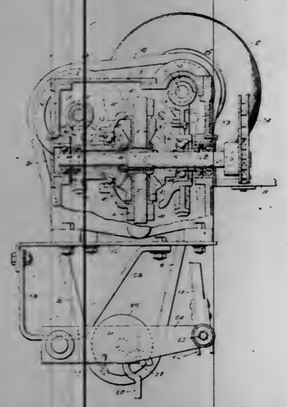
1. A fluorescent lighting fixture, comprising two identical hollow housings disposed in spaced relation with parallel opposing walls, a tie rod connected at its ends with the opposing walls of the housings for maintaining the housings in a fixed relation, means connected with each housing facilitating securing the fixture in set-up position, means for conducting electric current into one housing, a light transmitting tube connected at its ends with the said opposed walls of the housings, said opposed walls of the housings having openings coaxial with said tube, a fluorescent light tube extending through the first tube and having its ends mounted in said openings and projecting into the housings, a starter unit mounted within the said one housing and adapted for electrical connection with one side of a current conducting circuit, a holder disposed within the said one housing and including a pair of electrical terminals one of which is in electrical connection with said starter, said terminals being electrically connected with one end of said light tube, means electrically connecting the other one of said terminals with the opposite end of the light tube, and means in the other housing for electrically connecting the other side of the current supply with the said other end of the light tube.

2,318,537
OPHTHALMIC SPECTACLES
Harry Stolper, New York, N. Y.
Application December 5, 1941, Serial No. 421,716
4 Claims. (Cl. 88—41)



1. In spectacles, the combination with a lens having open notches in its periphery, of a bridge, a temple, said bridge carrying a portion of a rim for said lens, said rim being located against one of the surfaces of said lens, said temple carrying a similar portion of a rim located against the opposite surface of said lens in parallelism with said other rim, means for securing each of said rims to the other of said rims, and said securing means passing through said notches.

2,318,538
VARIABLE POWER TRANSMISSION MECHANISM
Paul B. Streich, Maywood, Ill., assignor to Charles Bruning Co., Inc., Chicago, Ill., a corporation of Illinois
Application March 28, 1942, Serial No. 436,706
10 Claims. (Cl. 74—286)



1. In variable speed transmission mechanism, the combination of a primary shaft, a secondary shaft and a driven shaft, variable speed transmission gearing in train between the primary and secondary shafts and the driven shaft for imparting variable speeds to the driven shaft, a motor having a fixed position with respect to the primary shaft and rigidly entrained therewith for driving at a constant speed, the secondary shaft being provided with a spring backed divided pulley, a pulley rigidly entrained with the primary shaft and driven at constant speed by the motor shaft, an idler pulley and an adjustable mounting therefor, a belt carried around the motor driven pulley, the divided pulley and the idler pulley, and means for adjusting the position of the idler pulley mounting to effect variations in the position of the belt with respect to the axis of the divided pulley for imparting variable speeds to the driven shaft.

2,318,539
SLIP
Victor L. Sussberg, New Rochelle, N. Y.
Application September 1, 1942, Serial No. 456,852
4 Claims. (Cl. 2—73)

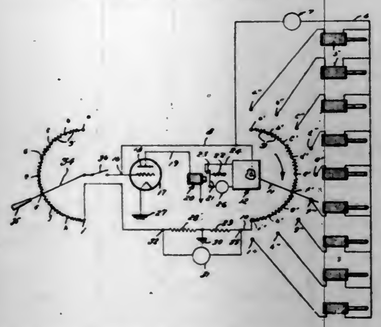


1. A slip comprising a front and rear skirt panel, each cut on the straight of the goods, L-shaped back and brassière sections, each of said L-shaped sections being placed with the point of the L engaging the corresponding skirt section and each of said L-shaped sections being cut on the straight of the goods, diamond-shaped members connecting said skirt sections and said brassière section and said back section on each side.

2,318,540
CALCIUM SULPHATE COMPOSITION
Guy W. Talbert, Summit, N. J., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application February 19, 1941, Serial No. 379,643
20 Claims. (Cl. 106—111)

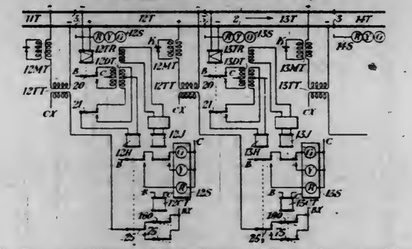
1. A composition comprising structural calcium sulphate and a small proportion of an alkyl aryl sulphonate in which the alkyl group is a nuclear substituent and contains from 8 to 19 carbon atoms.

2,318,541
REMOTE CONTROL DEVICE
John Merle Tewksbury, Skowhegan, Maine, assignor of forty per cent to Robert Lyons and twenty per cent to George M. Davis, both of Skowhegan, Maine
Application April 16, 1941, Serial No. 388,911
1 Claim. (Cl. 172—239)



In a self-balancing Wheatstone bridge circuit including a local resistor and a remote resistor, electrical elements connected for energization to corresponding points along said remote resistor, an electro-magnetic ratchet stepper comprising a separately energized circuit including a circuit breaker including means in said circuit between said local resistor and said remote resistor, an adjustable contactor for said local resistor connected between said local resistor and said stepper, said stepper comprising a contactor engaging said remote resistor to be moved step by step along said remote resistor as the stepper is operated to points on said remote resistor electrically corresponding to the points on said local resistor to which its contactor is successively adjusted, and a vacuum tube operated relay circuit operatively connected between said adjustable contactor and said stepper.

2,318,542
RAILWAY SIGNALING SYSTEM
Howard A. Thompson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 7, 1940, Serial No. 369,004
8 Claims. (Cl. 246—34)



6. In a railway signaling system, in combination, a section of railway track, a direct current track relay having a winding connected across the rails of said section, said relay being of a type which is responsive to energy of one polarity only, a track transformer for said section, and means including a unidirectional impedance element for supplying from said transformer to the rails of said section alternating current in which impulses of energy of both polarities are present in substantial magnitude and in which the potential of the impulses of energy of said one relative polarity is substantially higher than that of the impulses of energy of the other relative polarity.

2,318,543
PISTON RING
Millard F. Thorn, Beaumont, Tex.
Application January 8, 1941, Serial No. 373,671
2 Claims. (Cl. 309—45)

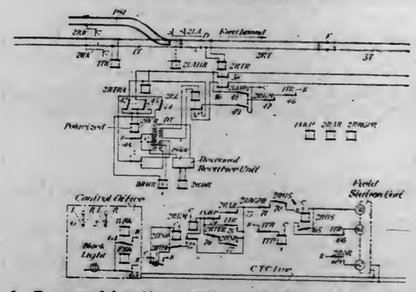


1. A piston ring comprising a split metal annulus formed with an upper main body portion and a lower continuous unbroken base portion of reduced diameter with respect to the main body portion and adapted to rest upon the base of a ring land, the body portion being undercut from its lower outer edge inwardly at an upward incline and thence from the peak of the incline inwardly and downwardly to the interior of the ring to provide a pocket for increasing the vertical thrust component of the oil pressure built up beneath the ring upon the down stroke of a piston to which the ring may be applied, lugs joining the base to the body portion at spaced points only leaving radial slots communicating the said pocket with the interior of the ring throughout the major part of the area between the body and base portions and permitting a free transfer of oil from the exterior to the interior of the ring, the lugs occupying only a relatively small portion of said area and having their inner faces channeled to provide communication between said radial slots around the entire interior area of the ring and equalize the pressure of oil forced inwardly through the slots by the undercut, the inner surfaces of the upper main body portion and the lower base portion providing a relatively large bearing area with respect to the adjacent wall of the ring land, and with respect to the channeled portions of the lugs.

2,318,544
MANUFACTURE OF MIXED TEXTILES
Gilbert I. Thurmond and James W. Jacokes, Asheville, and Edward Brenner, Hendersonville, N. C., assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware
No Drawing. Application May 13, 1940, Serial No. 334,994
5 Claims. (Cl. 18—54)

1. A process for the manufacture of threads, staple fiber, films and the like from cellulose-protein mixtures which comprises mixing a viscose solution with an alkaline protein solution, adding a dispensing agent to effect a stable mixture containing highly dispersed particles of less than 10 mu, extruding the mixture into a coagulating bath containing 9 to 10% sulphuric acid and 23 to 30% salts of the class consisting of sodium sulphate, magnesium sulphate and zinc sulphate (calculated as sodium sulphate equivalent), to effect the formation of a skin on the formed product during subsequent stretching and then stretching the product at least 25% and after-treating the same whereby the protein content is substantially retained therein.

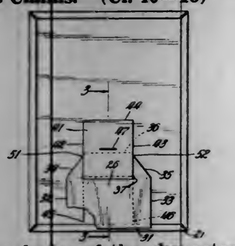
2,318,545
RAILWAY TRAFFIC CONTROLLING APPARATUS
James J. Van Horn, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 29, 1941, Serial No. 420,923
19 Claims. (Cl. 246—3)



1. In combination with a stretch of track over which traffic may move in either direction, a line circuit extending from one to the other end of said stretch, means for normally transmitting line current impulses of a master code from one to the other end of said line circuit to establish

traffic in the normal direction over said stretch, an entrance signal for each traffic direction over said stretch, means effective when the entrance signal for said normal direction is at stop for transmitting line current impulses of a feed-back code during off intervals in said master code from said other end to said one end of the line circuit, means responsive to the receipt of said feed-back code at said one end for controlling the entrance signal for the reverse traffic direction, and means effective when the entrance signal for said normal direction is cleared for discontinuing said feed-back code to thereby prevent clearing of the entrance signal for said reverse direction.

2,318,546
PULLDOWN CALENDAR
William F. Vernon, Newton, Iowa
Application October 21, 1940, Serial No. 362,035
3 Claims. (Cl. 40—18)



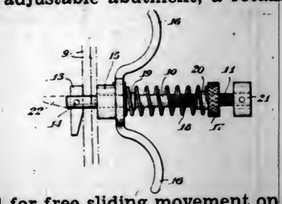
2. A display device of the character described comprising a display element and an information element in slidable engagement therewith, the display element comprising a base sheet, a vertical tab, anchor means near the upper end of said tab securing the tab to the base sheet, tapered wedging surfaces to secure the information element at the upper end of the tab; the information element comprising a sheet having a horizontal slot in said sheet encircling the aforementioned tab to secure the information element in sliding relationship with respect to the base sheet, and additional anchor means adjacent the lower end of the tab to secure the tab to the base sheet and to limit the downward sliding movement of the information element.

2,318,547
GOLF BALL
William E. Welch, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Original application November 1, 1940, Serial No. 363,812. Divided and this application September 17, 1941, Serial No. 411,157
8 Claims. (Cl. 273—62)

1. A golf ball with a cover comprising a mixture of rubber and a polyvinyl acetal resin.

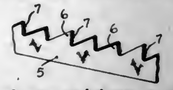
2,318,548
MEANS FOR TEMPORARILY RETAINING MEMBERS TOGETHER
Walter John Whitehead and Cecil Stanley Whitehead, Rochester, England
Application June 1, 1942, Serial No. 445,348
In Great Britain January 16, 1942
1 Claim. (Cl. 85—3)

A device for temporarily clamping together juxtaposed apertured plate members or the like, comprising, a shank provided at one end with a slot, a latch pivotally mounted in the slot and adapted to assume positions respectively in line with and at right angles to the shank, a stop piece at the end of the shank opposite the slot and whose outer face constitutes a rest for the palm of the operator's hand when manipulating the device, an abutment movably mounted on the shank in adjustable relation to the inner face of said stop piece, a spring surrounding the shank and having one end in engagement with the said adjustable abutment, a retaining collar



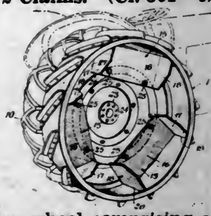
mounted for free sliding movement on the shank and having its inner face in engagement with the other end of the spring, and laterally disposed finger pieces on the retaining collar adapted to be engaged by the fingers of the operator when his palm rests on said stop piece to manipulate the retaining collar against the force of said spring.

2,318,549
METAL CUTTING SAW BAND
James W. Wilkie, Minneapolis, Minn., assignor to Continental Machines, Incorporated, Minneapolis, Minn., a corporation of Minnesota
Application April 14, 1941, Serial No. 388,397
2 Claims. (Cl. 29—95)



1. A saw band comprising: a ribbon-like strip of highly flexible steel; tooth-like supports formed along one edge of said strip integral therewith; and a facing of material having good cutting characteristics brazed to the leading face of each of said supports with no portion of the facings projecting beyond the plane of their supports, said facings providing a long wearing cutting edge for the tooth-like supports, the brazed joints between the tooth-like supports and the facings being on lines substantially normal to the longitudinal axis of the band so that flexure of the band imposes no undue strain on the brazed junctures.

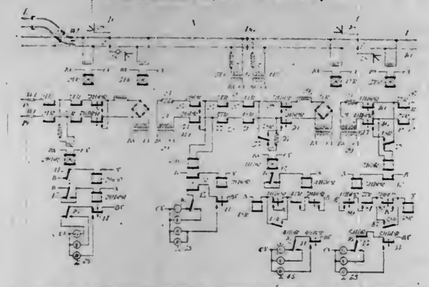
2,318,550
TRACTOR WHEEL ADAPTER
Richard C. Wittman, Emporium, Pa.
Application January 24, 1942, Serial No. 428,051
2 Claims. (Cl. 301—62)



1. A tractor wheel comprising a rim, a dished disk hub, and means rigidly securing the rim to the hub, said means comprising a plurality of elements arranged in spaced relation to each other, each of said elements consisting of two

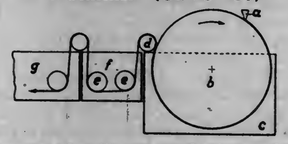
spaced plates and a connecting plate having the opposite ends thereof rigidly secured to said spaced plates respectively, said spaced plates being disposed parallel to the axis of the rim and rigidly secured to the latter, said third plate being disposed substantially perpendicular to said axis, fasteners securing the connecting plate of each element to said hub, and the circular edge of said hub resting against said spaced plates.

2,318,551
RAILWAY SIGNALING APPARATUS
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application January 7, 1941, Serial No. 373,432
4 Claims. (Cl. 246—33)



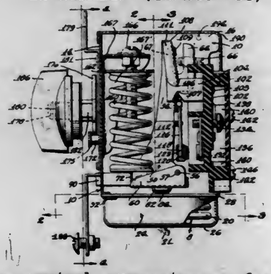
1. In a railway signal system for a stretch of railway track having an insulated section provided with a pair of conductors extending from one end to the other of said section, a source of direct current connected to one end and a source of alternating current connected to the other end of said conductors respectively, two stick relays, means responsive to traffic on said stretch, means controlled by said traffic responsive means for energizing one or the other of said stick relays according as traffic operates over said stretch in one direction or the other respectively, two control relays one responsive only to direct current and the other responsive only to alternating current, means including a back contact of said one stick relay for connecting said direct current control relay to said conductors at said other end of said section in multiple with said alternating current source, means including a back contact of said other stick relay for connecting said alternating current control relay to said conductors at said one end of said section in multiple with said direct current source, and means controlled by said two control relays for governing traffic operating in either direction through said section.

2,318,552
PROCESS FOR THE MANUFACTURE OF FILMS, FOILS, BANDS, AND THE LIKE FROM CELLULOSE SOLUTIONS
Emil Czapek, New York, N. Y.
Application December 17, 1936, Serial No. 116,290
In Germany December 17, 1935
4 Claims. (Cl. 18—57)



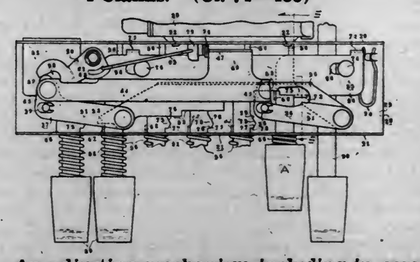
1. A process for the manufacture of films, foils, membranes, bands and the like from solutions of cuprammonium cellulose, which comprises pouring a cellulose solution onto a support, advancing the solution so supported through a preliminary coagulating bath containing an aqueous alkaline solution, subjecting the solution so advanced to a preliminary coagulation while being advanced through such preliminary bath to produce a self-sustaining layer readily detachable from the support, detaching the layer so produced from the support, effecting a final coagulation of the layer so produced in a second bath containing a coagulating fluid of a similar nature to that in the first bath but of a lower concentration than that in the first bath, and thereupon subjecting the layer so produced to further successive treatments including regenerating and de-copperizing, washing and drying.

2,318,553
CONTROL APPARATUS
Estel C. Raney, Columbus, Ohio
Application August 3, 1940, Serial No. 351,009
12 Claims. (Cl. 200—83)



1. In a control apparatus, a frame having three walls, two of said walls being oppositely disposed from one another; control means and actuating means therefor attached to said two walls; resilient means for affecting operation of the control means; a member connected to the resilient means; and means supported on one of said walls for moving the member parallel to the other two walls for adjusting the resilient means, said member having a surface thereof adjacent said one wall and having edges adjacent the said two walls and guided thereby when the member is moved.

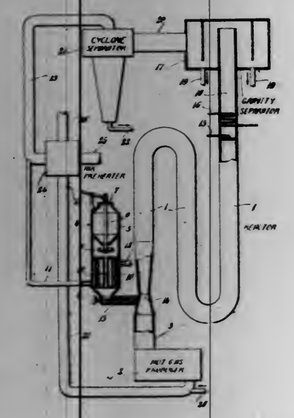
2,318,554
CONTROL DEVICE
Estel C. Raney, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Application February 26, 1941, Serial No. 380,686
4 Claims. (Cl. 74—483)



1. An adjusting mechanism including in combination, a plurality of adjusting members, each of said members including a shaft having a knob at one end thereof and an abutment spaced from the knob, the abutments and knobs of the re-

spective adjusting members being spaced apart equally, said adjusting members being movable between two positions, the movement of said members between said two positions being substantially equal; an elongated member; means for mounting the elongated member for movement substantially parallel with the movement of said adjusting members, said elongated member having portions thereof in alignment with the abutments of said adjusting members and being engageable by said abutments when the adjusting members are moved from one of said positions toward the other of said positions, said portions of the elongated member being spaced from the respective abutments different distances when the adjusting members are in said one position for causing the elongated member to be moved a different degree by one of the adjusting members when said one adjusting member is moved between said positions than by another of said adjusting members when the latter adjusting member is moved between said two positions; and mechanism to be adjusted movable by the said parallel movement of the elongated member.

2,318,555
CLEANSING AGENT AND THE MANUFACTURE THEREOF
Robert F. Ruthruff, Chicago, Ill.
Application January 15, 1940, Serial No. 313,899
7 Claims. (Cl. 252—140)



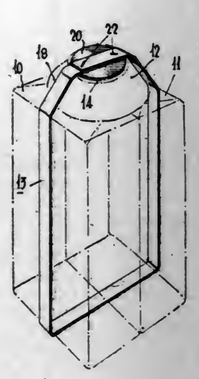
2. A cleansing agent in the form of individual particles each of which consists of a silica core covered with an autogenous layer of sodium silicates, the silica to sodium oxide ratio of said individual particles falling in the approximate range 3.5 to 1 to 10.0 to 1.

3. A process for the manufacture of a cleansing agent composed of silica particles coated with an autogenous layer of alkali metal silicates consisting of suspending silica particles coated with a material selected from the group consisting of oxides, hydroxides, carbonates and sulfates of alkali metals in a stream of combustion gases at elevated temperature for a time sufficient to effect reaction between the selected coating material and the peripheral portions of the silica particles and separating the resulting product from said stream of combustion gases.

2,318,556
SULPHANILAMIDE DERIVATIVES
Winfrid Hentrich, Rodleben, near Dessau-Rosslau, and Alfred Kirstahler and Wilhelm Kaiser, Dessau, Germany; assignors, by mesne assignments, to The Hydronaphthene Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 31, 1940, Serial No. 338,220. In Germany June 1, 1939
5 Claims. (Cl. 260—397.7)

5. A 1-(4'-aminobenzene - sulphonyl) -aminophenyl-alkyl-sulphone selected from the group consisting of the meta alkyl sulphone and the para alkyl sulphone.

2,318,557
MERCHANDISING PACKAGE
Eugene A. Miller, Omaha, Nebr., assignor to Miller Cereal Mills, Incorporated, Omaha, Nebr., a corporation of Nebraska
Application October 14, 1941, Serial No. 414,947
4 Claims. (Cl. 206—47)



1. A merchandising package comprising a packaged unit, an unwrapped article disposed in inverted position on said unit and having a circular depression formed in its relatively upper side or face, and a preformed binder securing said unit and article together comprising an elongated strip of flexible material whose ends are permanently secured together to provide an endless loop adapted to be slipped over said unit and package, and a circular locking part seating in said depression, said part being secured in face engagement to the under face of the strip so as to be wholly disposed within the loop.

2,318,558
METHOD OF COOLING ENGINES
Arthur C. Pabst, Kew Gardens, and John H. Prall, Lynbrook, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application August 7, 1940, Serial No. 351,776
10 Claims. (Cl. 252—73)

1. An aqueous heat exchange medium inhibited against corrosive action on metals comprising an emulsion of wax in water in which the wax comprises from about 0.1% to about 5.0% of said emulsion.

2,318,559
MATERIAL FOR AND PROCESS OF PICKLING COPPER OR ITS ALLOYS
John O. Percival, Somerville, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application April 30, 1941, Serial No. 391,127
18 Claims. (Cl. 148—8)

1. An aqueous acid reacting bath for pickling copper or its alloys containing water-soluble ferric ions and organic anions.

2,318,560
ASBESTOS YARN
Kurt E. Ripper, Bronxville, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 30, 1941, Serial No. 391,137
7 Claims. (Cl. 117—126)

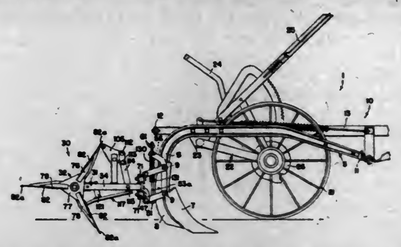
7. A process for increasing the mechanical strength of asbestos yarn which includes impregnating yarn essentially composed of asbestos fibers with a melamine-formaldehyde resin syrup, drying the yarn and polymerizing the resin.

2,318,561
LISTER
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 26, 1939, Serial No. 292,116
9 Claims. (Cl. 111—59)

1. An implement comprising, in combination, a wheel supported frame, a fore and aft extending beam pivotally connected at its front end with said frame for vertical swinging movement, a furrow forming tool disposed at the rear end of said beam, means pivotally connecting said beam to said tool near the load center thereof for rocking movement about a transverse axis, said tool having a forwardly directed point and relatively flat ground engaging means spaced rearwardly therefrom adapted to bear against the bottom of the furrow when the tool is level, and control means operable to rock said tool about said transverse axis whereby said tool point is elevated or depressed with respect to said ground engaging means.

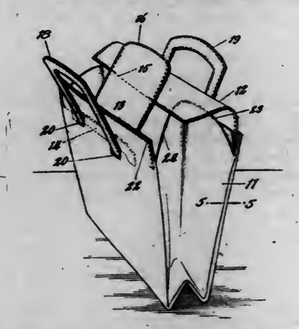
2,318,562
DAMMING DEVICE
Walter H. Silver and John I. Cantral, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application July 29, 1940, Serial No. 348,120
41 Claims. (Cl. 97—55)

1. A damming device comprising an earth-engaging tool movable into and out of earth-engaging position, mechanism operative to hold said tool in earth-engaging position whereby to form a dam, means responsive to the formation of a dam ahead of said tool for tripping said mechanism to release said tool, and means mov-



able separately from and independently of said tool following its release for moving said mechanism into its tool locking position.

2,318,563
LADY'S HANDBAG
Elizabeth G. Smith, Bronx, N. Y., assignor to Mark Cross Company, New York, N. Y., a corporation of New York
Application September 24, 1942, Serial No. 459,584
3 Claims. (Cl. 150—33)



3. A bag of the character disclosed, having front and back walls, a closure flap extending from said back wall and foldable down inside from said front wall, a stiff pad hingedly connected with the downwardly folding edge of said closure flap along an axis substantially corresponding to the free edge of said flap, said hingedly connected pad having a free portion extending below the edge of said flap to form a locking tab and having a free portion extending above the edge of said flap to form an upstanding handle for raising and lowering the flap and a stiff lever for rocking the lower locking tab portion about the hinging axis of the pad, a retainer inside said front wall for receiving and holding said locking tab portion closely confined against the front wall of the bag, the upstanding handle portion of said stiff pad projecting upwardly over the front face of the closure flap when the bag is closed and carrying handles on the front and back walls projecting upwardly a short distance above the upper end of said handle portion of the pad and the top of said closure flap, forming guards preventing access to said handle portion and closure flap when said carrying handles are grasped for carrying purposes, and said carrying handles having sliding receding mounting in said front and back walls and positioned to stand below said upstanding handle portion of the pad when in lowered relation.

2,318,564
WINDOW SHADE FASTENING MEANS
Harry F. Snyder, Montpelier, Ind., assignor to Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland
Application August 19, 1941, Serial No. 407,462
6 Claims. (Cl. 160—387)



1. In a window shade roller, attachment means for a shade having a marginal hem, comprising a key projecting outwardly from the outer surface of the roller and adapted to frictionally engage with the inner surface of said marginal hem.

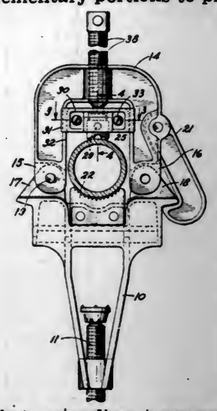
2,318,565
WINDOW SHADE ATTACHMENT
Harry F. Snyder, Montpelier, Ind., assignor to Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland
Application August 19, 1941, Serial No. 407,463
5 Claims. (Cl. 160—387)



1. In a fabric window shade, a hem pocket formed in an end thereof, said pocket having a loose end of material coiled interiorly thereof and forming a secondary pocket for the reception of a shade roller.

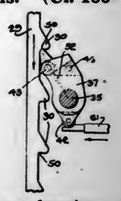
2,318,566
YOKE VISE
Clyde E. Wright, Elyria, Ohio, assignor to The Ridge Tool Company, North Ridgeville, Ohio, a corporation of Ohio
Application October 13, 1941, Serial No. 414,701
1 Claim. (Cl. 81—19)

A yoke vise comprising a base member and a pipe engaging jaw carried thereon, an upper yoke portion removably mounted on said base and having parallel guideways thereon, an upper jaw holding slide comprising a pair of complementary cup-shaped members each having pairs of laterally extending arms terminating in angular lips for slidably engaging the guideways on said yoke, the upper portions of said members being formed to provide a recess, a screw threaded actuating member extending in threaded engagement through said yoke and having an enlarged head connected to said member by a reduced stem, said head extending into said recess with said head in said recess, said members being formed with a pair of complementary portions to provide a rec-



tangular socket extending transversely of said slide and having the ends provided with inwardly extending abutments, an upper jaw member carried in said socket and extending out of the socket toward said lower jaw and formed with recesses adapted for engagement with said abutments, said head on said stem arranged to engage the upper side of the jaw member in said socket and means extending through said slide members adjacent said socket for securing said members together and holding said jaw and head in said sockets and said slide on said yoke.

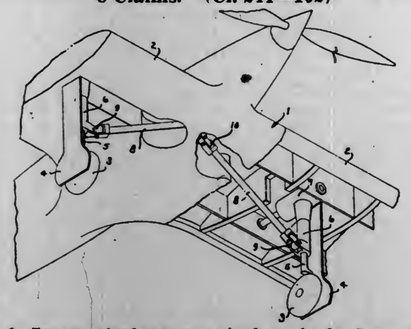
2,318,567
CONVEYER RELEASE MECHANISM
Alfred E. Duerig, Haddonfield, N. J., assignor to Campbell Soup Company, Camden, N. J., a corporation of New Jersey
Application April 23, 1940, Serial No. 331,073
3 Claims. (Cl. 188—85)



1. In a release mechanism of the character described, a main pawl body pivoted for oscillation about a relatively fixed axis, a pawl element pivoted for oscillation relatively to said main body about an axis spaced from and paralleling said fixed axis, said pawl element having a pair of angularly related arms, one of said arms extending freely of said main pawl body to engage a toothed rack bar and the other of said arms being adapted to engage a relatively fixed stop on said main body, said pawl element being normally so biased with respect to said main body as to maintain said pawl element in

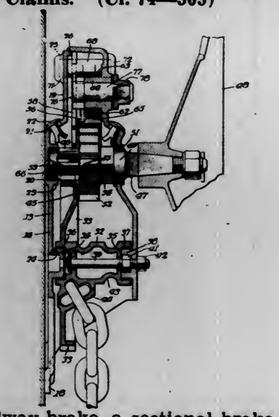
engagement with said stop and thereby locate a straight line extending between the tip of said freely extending arm and said relatively fixed axis of the pawl body to one side of the pivotal axis of said pawl element.

2,318,568
HYDRAULIC LANDING GEAR
George J. Wintermute and David E. Bench, Dayton, Ohio, assignors, by mesne assignments, to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Application March 15, 1940, Serial No. 324,166
8 Claims. (Cl. 244—102)



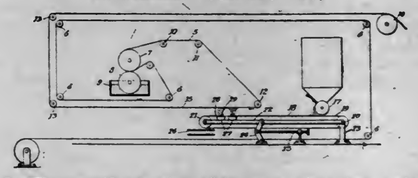
1. In an airplane, an airplane body, a landing member, means constructed and arranged for mounting said landing member upon said body so that said member is movable relative to said body in a plane substantially parallel to the longitudinal axis thereof, and hydraulic means having a constant resistance force connected with said mounting means for absorbing the forward velocity of said body upon initial landing contact of said landing member with the ground.

2,318,569
HAND BRAKE
Percy B. Camp, Maywood, and Herbert E. Bartsch, Chicago, Ill., assignors to Universal Railway Devices Company, a corporation of Delaware
Application August 29, 1938, Serial No. 227,328
6 Claims. (Cl. 74—505)



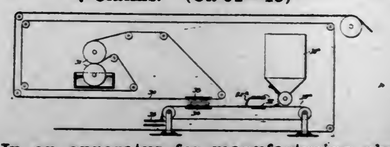
1. In a railway brake, a sectional brake housing comprising an inner section and an outer section, said inner section being adapted to be rigidly attached to a railway car, attaching elements for detachably connecting said outer section to said inner section, brake operating mechanism mounted substantially entirely within said housing and forming with said housing a replaceable unit, said mechanism comprising a winding drum, an operating shaft, means for rotating said drum from said shaft, holding means for said drum, means for controlling the operation of said holding means, cooperating journals and bearings on said mechanism and sections, means for holding said entire brake operating mechanism and holding means assembled as a unitary structure on said outer section when the latter is removed from said inner section whereby when any portion of said unit becomes injured or broken a new unit may be readily substituted therefor, and means exterior of said housing and carried by said outer section for operating said mechanism.

2,318,570
MANUFACTURE OF ABRASIVES
Richard Paul Carlton, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application January 20, 1930, Serial No. 422,065
62 Claims. (Cl. 117—17)



2. The method of making an abrasive article having a backing and a grit layer which includes as steps thereof coating a backing with adhesive, and forcibly propelling a pulverulent abrasive substance to said adhesive coated surface from a preliminarily formed layer and against the normal force of gravity for causing the particles of abrasive to assume a position in the adhesive with the major dimensions thereof substantially normal to the plane of said backing.

2,318,571
MANUFACTURE OF ABRASIVES
Richard Paul Carlton, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application December 22, 1933, Serial No. 703,559
7 Claims. (Cl. 91—18)

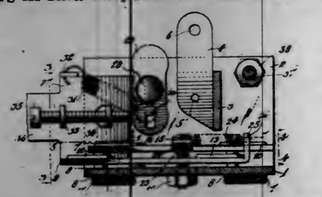


4. In an apparatus for manufacturing abrasives, in combination, means for mechanically moving particles of abrasive material and an adhesively coated sheet downwardly faced toward each other, and means for subjecting the said particles to the action of a magnetic field.

2,318,572
TUNING STRUCTURE FOR RADIO SETS
Stanley S. Cramer, Haddon Heights, N. J.
Application December 6, 1941, Serial No. 421,861
21 Claims. (Cl. 74—10)

1. In a structure for operating a positioning member which actuates a tuning member of a

radio set, a frame member having recesses on opposite portions of the frame, a slide plate positioned over said recesses and having certain recesses therein cooperatively positioned over certain of the recesses in the frame, anti-friction members in said cooperative recesses and retaining means fastened to the frame for holding the slide plate in operative position on the frame, said retaining means having oppositely positioned recesses with anti-friction members located therein in engagement with said slide plate, and a setting device adjustably carried by the slide plate for engaging said positioning member.



2,318,573

MANUFACTURE OF CELLULOSE ESTERS

Carl J. Malm, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 12, 1939, Serial No. 299,148

5 Claims. (Cl. 260—229)

2. A method for preparing a high viscosity acetyl cellulose in a used acylation vessel which contains some of the previous acetylation batch, which comprises treating the residue in the vessel with a liquid free of mineral acid but containing a lower fatty acid solution of a neutralizing agent which forms with the sulfuric acid present a compound insoluble in glacial acetic acid, selected from the group consisting of magnesium and calcium acetates, and magnesium and calcium compounds which will form acetates when mixed with acetic acid, pretreating cellulose having a high cuprammonium viscosity in this lower fatty acid and then acetylating the cellulose with an acetylation bath containing 5–10% of sulfuric acid based on the cellulose at a temperature not to exceed 90° F.

2,318,574

CELLULAR STRUCTURAL MATERIAL AND METHOD OF PRODUCING THE SAME

Isaac Harter, New York, N. Y., Charles L. Norton, Boston, Mass., and Charles L. Norton, Jr., New York, N. Y., assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey

No Drawing. Application January 26, 1939 Serial No. 252,868

14 Claims. (Cl. 106—111)

13. As a new article of manufacture, an insulating shape formed by burning a molded foamed mixture of ceramic refractory material, a quick-setting cementitious material, sawdust, an alkyl sulphuric acid ester foaming agent, and an amount of water equal to over 50% of the total weight of the other constituents of the mixture, and having after being fired a cellular porous stable indurated structure weighing less than 25 lbs. per cubic foot and a thermal conductivity approximately one-sixth that of first quality firebrick.

DESIGNS

MAY 4, 1943

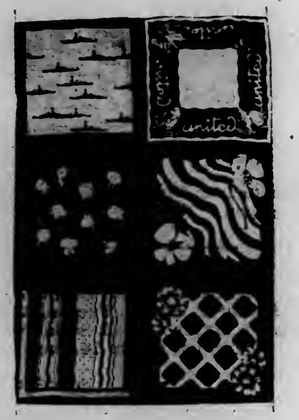
135,602

DESIGN FOR A TEXTILE FABRIC

Siegfried Klauber, New York, N. Y.

Application February 22, 1943, Serial No. 109,604

Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

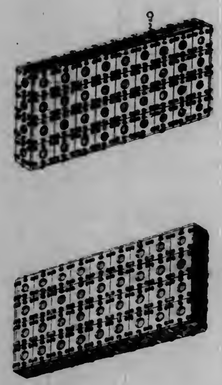
135,603

DESIGN FOR A HANDBAG

Benjamin Kalisher, Poughkeepsie, N. Y., assignor to Wood-Flex Fashions Inc., New York, N. Y., a corporation of New York

Application March 30, 1943, Serial No. 109,862

Term of patent 7 years



The ornamental design for a handbag, substantially as shown.

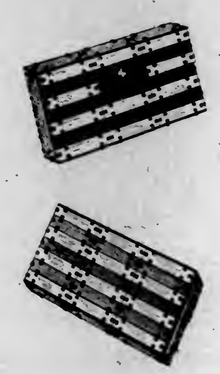
135,604

DESIGN FOR A HANDBAG

Benjamin Kalisher, Poughkeepsie, N. Y., assignor to Wood-Flex Fashions Inc., New York, N. Y., a corporation of New York

Application March 30, 1943, Serial No. 109,863

Term of patent 7 years



The ornamental design for a handbag, substantially as shown.

135,605

DESIGN FOR A HANDBAG

Benjamin Kalisher, Poughkeepsie, N. Y., assignor to Wood-Flex Fashions Inc., New York, N. Y., a corporation of New York

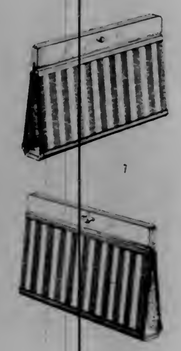
Application March 30, 1943, Serial No. 109,864

Term of patent 7 years



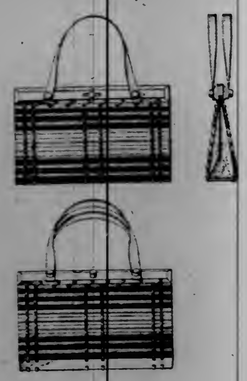
The ornamental design for a handbag, substantially as shown.

135,606
DESIGN FOR A HANDBAG
Benjamin Kalisher, Poughkeepsie, N. Y., assignor to Wood-Flex Fashions Inc., New York, N. Y., a corporation of New York
Application March 30, 1943, Serial No. 109,865
Term of patent 7 years



The ornamental design for a handbag, substantially as shown.

135,607
DESIGN FOR A HANDBAG
Benjamin Kalisher, Poughkeepsie, N. Y., assignor to Wood-Flex Fashions Inc., New York, N. Y., a corporation of New York
Application March 30, 1943, Serial No. 109,866
Term of patent 7 years



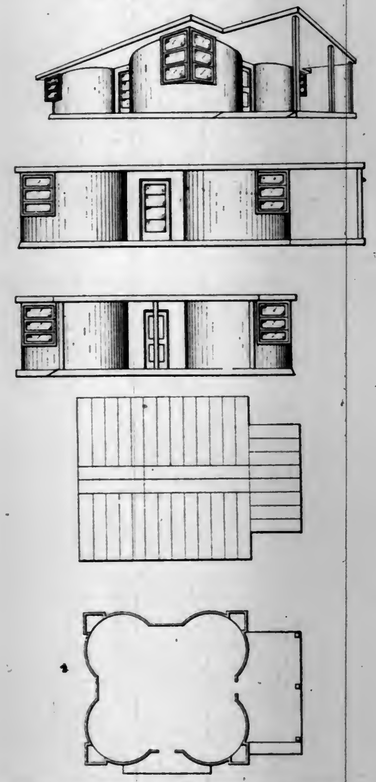
The ornamental design for a handbag, substantially as shown.

135,608
DESIGN FOR A STATUETTE
Arthur Basescu, Brooklyn, N. Y.
Application September 16, 1942, Serial No. 108,247
Term of patent 7 years



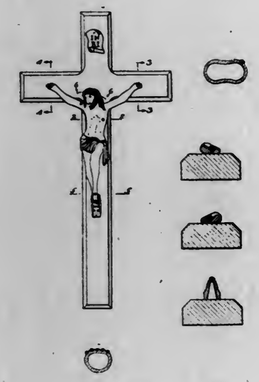
The ornamental design for a statuette, substantially as shown.

135,609
DESIGN FOR A HOUSE
Arthur T. Brown, Tucson, Ariz.
Application March 5, 1943, Serial No. 109,678
Term of patent 14 years



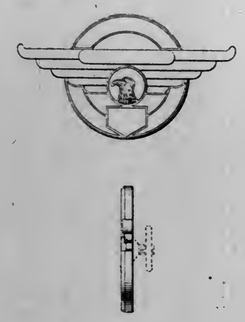
The ornamental design for a house, as shown.

135,610
DESIGN FOR A CRUCIFIX OR SIMILAR ARTICLE
James P. Calnan, Belmont, Mass.
Application January 14, 1942, Serial No. 105,204
Term of patent 14 years



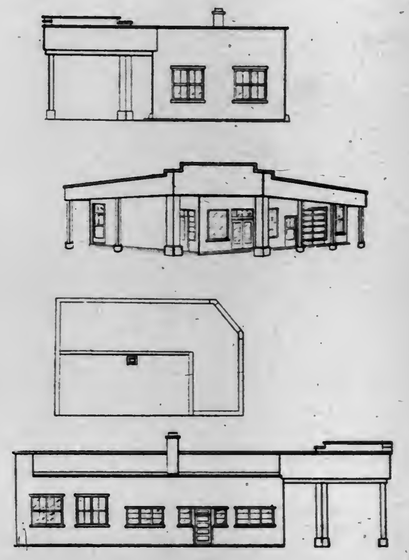
The ornamental design for a crucifix or similar article, substantially as shown and described.

135,611
DESIGN FOR A BADGE
Frank de Ganahl, Riverton, N. J., assignor, by mesne assignments, to Kaiser Cargo, Inc., a corporation of California
Application March 13, 1943, Serial No. 109,751
Term of patent 14 years



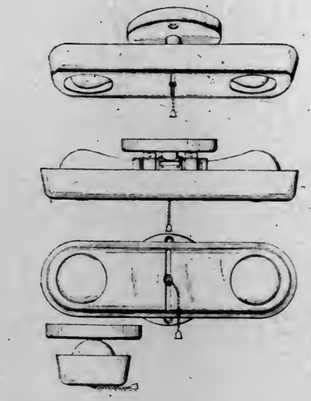
The ornamental design for a badge, as shown.

135,612
DESIGN FOR A GASOLINE STATION
Richard H. Fletcher, Jr., Bay City, Mich.
Application January 17, 1941, Serial No. 98,155
Term of patent 14 years



The ornamental design for a gasoline station, as shown.

135,613
DESIGN FOR A LIGHTING FIXTURE
Eric B. Hallman, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 21, 1943, Serial No. 109,321
Term of patent 7 years



The ornamental design for a lighting fixture, as shown.

135,614
DESIGN FOR A DRESS
Albert Hochberg, New York, N. Y.
Application March 22, 1943, Serial No. 109,804
Term of patent 3½ years



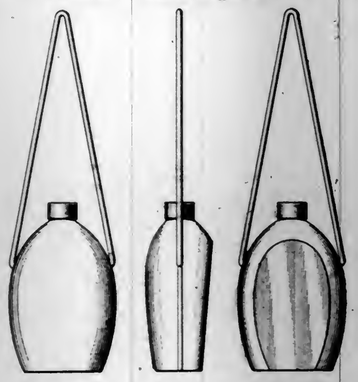
The ornamental design for a dress substantially as shown.

135,615
DESIGN FOR A PIN OR SIMILAR ARTICLE
Leon Kalina, New York, N. Y.
Application February 10, 1943, Serial No. 109,523
Term of patent 3½ years



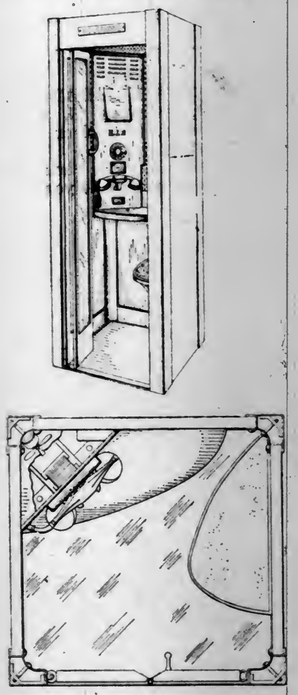
The ornamental design for a pin or similar article, as shown.

135,616
DESIGN FOR A CONTAINER
Mary S. Karoff, New York, N. Y.
Application December 19, 1942, Serial No. 109,069
Term of patent 3½ years



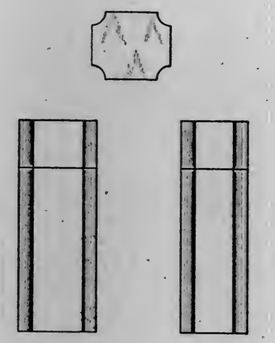
The ornamental design for a container, as shown.

135,617
DESIGN FOR A TELEPHONE BOOTH
George R. Lum, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 19, 1942, Serial No. 108,278
Term of patent 14 years



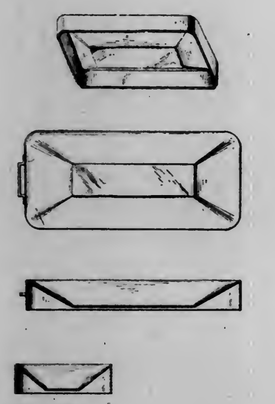
The ornamental design for a telephone booth, as shown and described.

135,618
DESIGN FOR A TALC CONTAINER OR THE LIKE
Frank McIntosh, New York, N. Y., assignor to Lentheric, Incorporated, New York, N. Y., a corporation of New York
Application January 6, 1942, Serial No. 105,038
Term of patent 3½ years



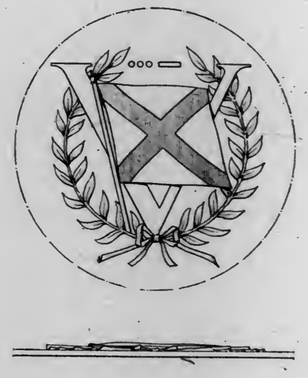
The ornamental design for a talc container or the like, substantially as shown and described.

135,619
DESIGN FOR A RATION CONTAINER
Nicholas T. Naranick, United States Army, Casper, Wyo.
Application October 5, 1942, Serial No. 108,429
Term of patent 3½ years



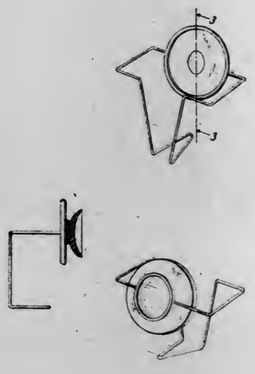
The ornamental design for a ration container, as shown.

135,620
DESIGN FOR A JEWELRY FINDING OR THE LIKE
George B. Nielsen, Staten Island, N. Y.
Application December 23, 1941, Serial No. 104,810
Term of patent 7 years



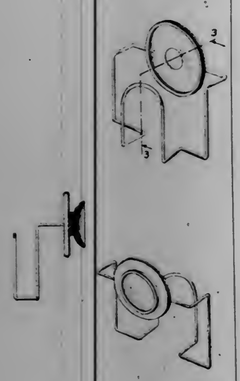
The ornamental design for a jewelry finding or the like, substantially as shown and described.

135,621
DESIGN FOR A CIGARETTE PACK HOLDER
Edward Kanter, Cleveland Heights, Ohio
Application July 14, 1941, Serial No. 102,127
Term of patent 3½ years



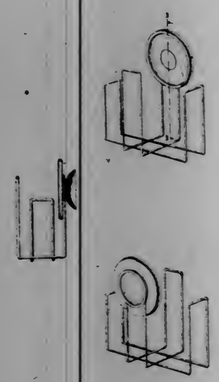
The ornamental design for a cigarette pack holder, substantially as shown.

135,622
DESIGN FOR A CIGARETTE PACK HOLDER
Edward Kanter, Cleveland Heights, Ohio
Application July 14, 1941, Serial No. 102,128
Term of patent 3½ years



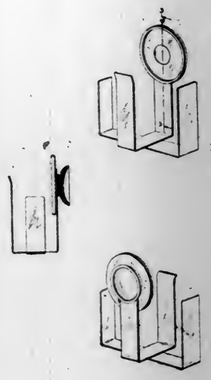
The ornamental design for a cigarette pack holder, substantially as shown.

135,623
DESIGN FOR A CIGARETTE PACK HOLDER
Edward Kanter, Cleveland Heights, Ohio
Application July 14, 1941, Serial No. 102,129
Term of patent 3½ years



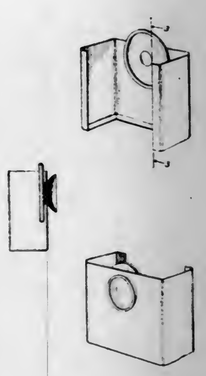
The ornamental design for a cigarette pack holder, substantially as shown.

135,624
DESIGN FOR A CIGARETTE PACK HOLDER
Edward Kanter, Cleveland Heights, Ohio
Application July 14, 1941, Serial No. 102,130
Term of patent 3½ years



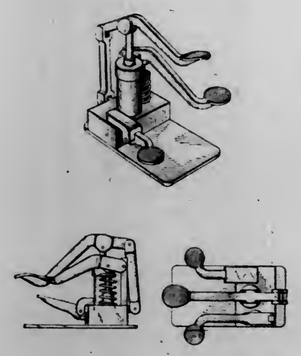
The ornamental design for a cigarette pack holder, substantially as shown.

135,625
DESIGN FOR A CIGARETTE PACK HOLDER
Edward Kanter, Cleveland Heights, Ohio
Application July 14, 1941, Serial No. 102,131
Term of patent 3½ years



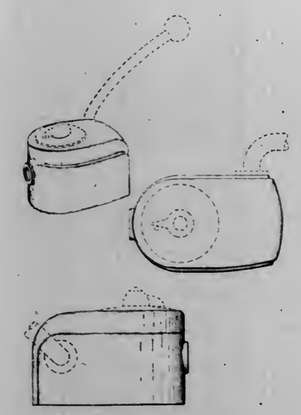
The ornamental design for a cigarette pack holder, substantially as shown.

135,626
DESIGN FOR A HYDRAULIC CONTROL UNIT
Raymond W. Bryant, Bellwood, Ill., assignor to Bryant Engineering Corporation, Spokane, Wash., a corporation of Washington
Application September 22, 1942, Serial No. 108,313
Term of patent 14 years



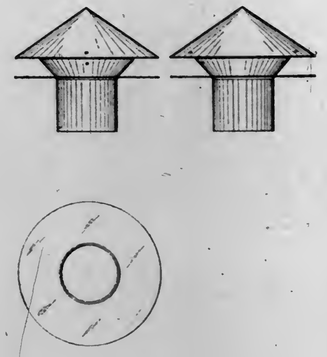
The ornamental design for a hydraulic control unit, substantially as shown.

135,627
DESIGN FOR A COMBINED METER AND PUMP HOUSING OR THE LIKE
Charles W. Ginter, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application July 14, 1941, Serial No. 102,119
Term of patent 7 years



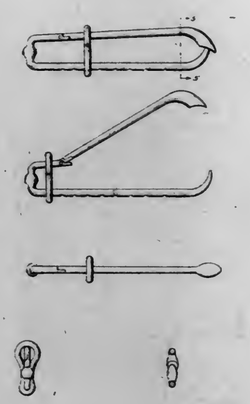
The ornamental design for a combined meter and pump housing or the like, substantially as shown and described.

135,628
DESIGN FOR A FLUE CAP
Sidney J. Heiman, St. Louis, Mo.
Application November 23, 1942, Serial No. 108,853
Term of patent 14 years



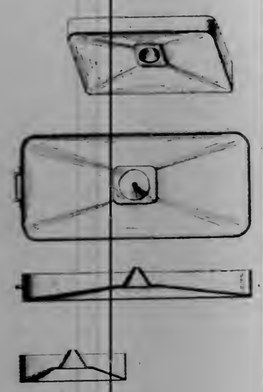
The ornamental design for a flue cap, as shown.

135,629
DESIGN FOR A CLASP
William E. Michael, Chicago, Ill.
Application February 9, 1943, Serial No. 109,507
Term of patent 14 years



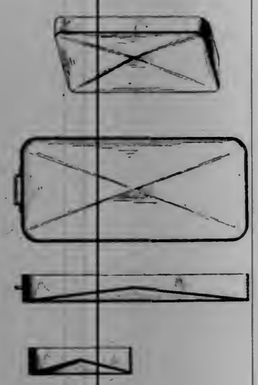
The ornamental design for a clasp, as shown.

135,630
DESIGN FOR A RATION CONTAINER
Nicholas T. Naranick, United States Army, Casper, Wyo
Application October 5, 1942, Serial No. 108,430
Term of patent 3½ years



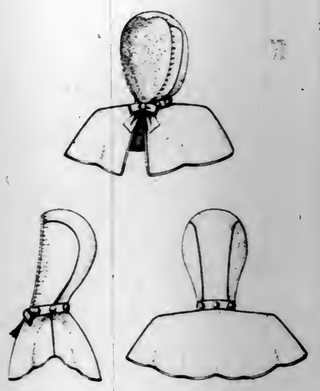
The ornamental design for a ration container, as shown.

135,631
DESIGN FOR A RATION CONTAINER
Nicholas T. Naranick, United States Army, Casper, Wyo.
Application October 5, 1942, Serial No. 108,431
Term of patent 3½ years



The ornamental design for a ration container, as shown.

135,632
DESIGN FOR A COMBINED HELMET AND CAPE
Natalie Renke, New York, N. Y.
Application December 29, 1942, Serial No. 109,158
Term of patent 3½ years



The ornamental design for a combined helmet and cape, substantially as shown.

135,633
DESIGN FOR A T-PIPE FITTING
Julian E. Stark, Wilmette, and Edward G. Schmidt, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application December 21, 1942, Serial No. 109,089
Term of patent 14 years



The ornamental design for a T-pipe fitting, substantially as shown.

135,634
DESIGN FOR AN ELBOW PIPE FITTING
Julian E. Stark, Wilmette, and Edward G. Schmidt, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application December 21, 1942, Serial No. 109,090
Term of patent 14 years



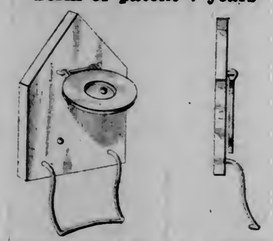
The ornamental design for an elbow pipe fitting, substantially as shown.

135,635
DESIGN FOR A COMBINATION WRIST WATCH AND COMPASS AND STRAP THEREFOR
Emil von Burg, New York, N. Y.
Application October 22, 1942, Serial No. 108,593
Term of patent 14 years



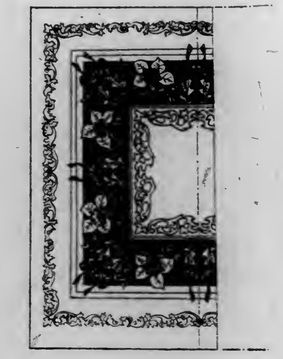
The ornamental design for a combination wrist watch and compass and strap therefor, as shown.

135,636
DESIGN FOR A BROOM HOLDER
Salvatore Agosta, Akron, Ohio
Application January 14, 1942, Serial No. 105,208
Term of patent 7 years



The ornamental design for a broom holder, as shown.

135,637
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Charles I. Betesh, New York, N. Y.
Application April 12, 1943, Serial No. 109,954
Term of patent 3½ years



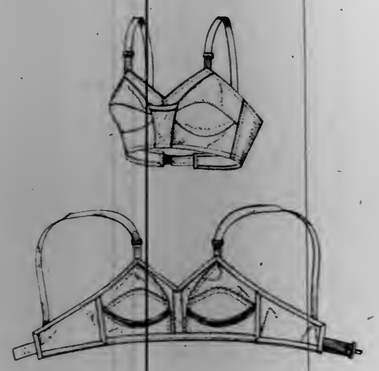
The ornamental design for a tablecloth or similar article, substantially as shown and described.

135,638
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Charles I. Betesh, New York, N. Y.
Application April 12, 1943, Serial No. 109,955
Term of patent 3½ years



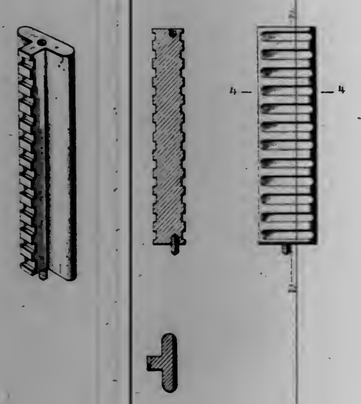
The ornamental design for a tablecloth or similar article, substantially as shown and described.

135,639
DESIGN FOR A BRASSIÈRE
Julius Cohn, New York, N. Y.
Application January 13, 1943, Serial No. 109,248
Term of patent 7 years



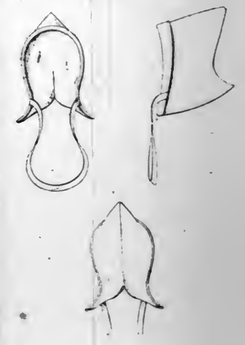
The ornamental design for a brassière, substantially as shown.

135,640
DESIGN FOR A BINDING POST
Frank J. Coppola, East Douglas, Mass.
Application November 16, 1942, Serial No. 108,789
Term of patent 3½ years



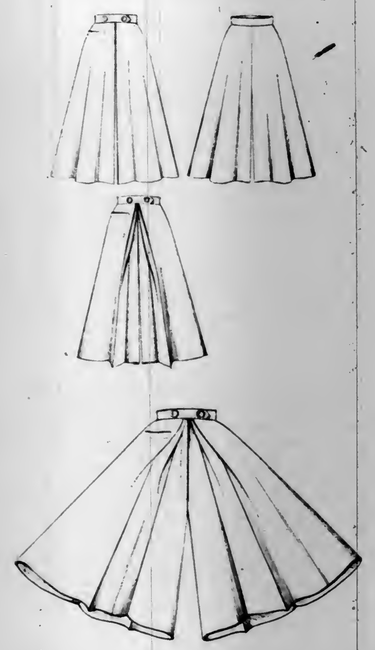
The ornamental design for a binding post, as shown.

135,641
DESIGN FOR A HOOD
Morris Eskind, New York, N. Y.
Application March 26, 1943, Serial No. 109,825
Term of patent 3½ years



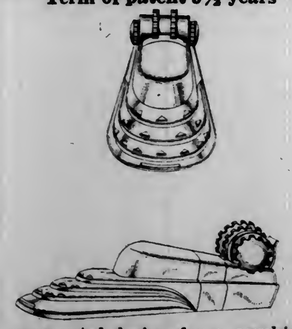
The ornamental design for a hood, substantially as shown.

135,642
DESIGN FOR A TROUSER-SKIRT
Violet Giovagnoni, New York, N. Y.
Application April 20, 1942, Serial No. 106,626
Term of patent 3½ years



The ornamental design for a trouser-skirt, substantially as shown.

135,643
DESIGN FOR A COMBINATION PAPER-WEIGHT AND STAMP DISPENSER
Francisco V. Raymundo, Attleboro, Mass.
Application December 10, 1941, Serial No. 104,556
Term of patent 3½ years



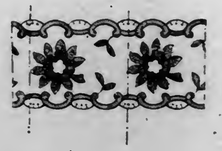
The ornamental design for a combination paperweight and stamp dispenser, substantially as shown.

135,644
DESIGN FOR A DRESS
Harold H. Stahl, New York, N. Y.
Application April 12, 1943, Serial No. 109,953
Term of patent 3½ years



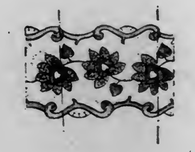
The ornamental design for a dress, substantially as shown.

135,645
DESIGN FOR AN EMBROIDERED LACE
Jack Wiener, New York, N. Y.
Application April 9, 1943, Serial No. 109,936
Term of patent 3½ years



The ornamental design for an embroidered lace, substantially as shown and described.

135,646
DESIGN FOR AN EMBROIDERED LACE
Jack Wiener, New York, N. Y.
Application April 9, 1943, Serial No. 109,937
Term of patent 3½ years



The ornamental design for an embroidered lace, substantially as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. Antiseptic preparation. Serial No. 457,569; May. 4. Class 6.

Adel Precision Products Corp., Burbank, Calif. Hydraulic control valves especially designed for use on aircraft. Serial No. 458,422; May 4. Class 13.

Adler's, M., Son Inc., New York, N. Y. Moisture-proof bag for the protection flowers. Serial No. 458,168; May 4. Class 2.

Aktiebolag, Halda, Svangata, Sweden. Typewriters, check protectors, book-keeping machines, etc. and parts and accessories therefor. Serial No. 452,928; May 4. Class 23.

Alpha Mills, Schuylkill Haven, Pa. Children's underwear, sweaters and pants. Serial No. 457,802; May 4. Class 39.

Antiseptol Company, Inc., Chicago, Ill. Water pipeline dispensers of water softening and cleansing compounds. Serial No. 456,411; May 4. Class 13.

Atlas Asbestos Company, North Wales, Pa. Asbestos wicks for oil burning stoves and heaters. Serial No. 458,700; May 4. Class 34.

Attenborough, C. W., & Co. Limited, Leicester, England. Knitted outerwear and underwear garments. Serial No. 458,452; May 4. Class 39.

Barium and Chemicals, Inc., Willoughby, Ohio. Mixture of argillaceous and carbonaceous materials for blanketing and insulating purposes in the risers of foundry molds. Serial No. 458,218; May 4. Class 1.

Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle and goggle lenses and lens blanks. Serial Nos. 458,888–90; May 4. Class 26.

Beech Aircraft Corporation, Wichita, Kans. Aircraft. Serial No. 458,563; May 4. Class 19.

Bernstein, Isreal M., doing business as Boston Blouse Co., Boston, Mass. Misses' and women's blouses. Serial No. 458,723; May 4. Class 39.

Blanchard, Fred H., Philadelphia, Pa. Ointment. Serial No. 457,754; May 4. Class 6.

Boston Blouse Co. (See Bernstein, Isreal M.)

British Power Boat Company, Ltd., The, Hythe, England. Motor boats. Serial Nos. 457,804–5; May 4. Class 19.

Campbell, A. S., Co., Inc., Boston and East Boston, Mass. Dolly trucks. Serial No. 449,825; May 4. Class 19.

Carbsil Pigment Company, Franklin, Tenn. Carbon-silicates used as a pigment for paints. Serial No. 454,028; May 4. Class 16.

Celanese Corporation of America, New York, N. Y. Staple fibers. Serial No. 457,166; May 4. Class 1.

Charleston Milling Company, Charleston, W. Va. Wheat flour. Serial No. 440,281; May 4. Class 46.

Consolidated Tea Company, Inc., New York, N. Y. Tea. Serial No. 455,296; May 4. Class 46.

Co-Operative Displays Inc., Cincinnati, Ohio. Silhouette models for instructional uses to identify actual aeroplanes and material in sets for making the models. Serial No. 458,456; May 4. Class 26.

Davidson Manufacturing Corporation, Chicago, Ill. Opaque, a graphitic material in the nature of an ink. Serial No. 440,449; May 4. Class 11.

De Heriot, Inc., Los Angeles, Calif. Bath oil, bath powder, and beauty cream, etc. Serial No. 453,724; May 4. Class 6.

Dewein, Victor C., Emery and Forsyth, Ill. Feeds for livestock and poultry. Serial No. 456,682; May 4. Class 46.

Dewein, Victor C., Emery and Forsyth, Ill. Feeds for livestock and poultry. Serial No. 456,684; May 4. Class 46.

Everpoint Needle Company, New York, N. Y. Phonograph needles. Serial No. 458,590; May 4. Class 36.

Executone, Inc., New York, N. Y. Amplified voice type of intercommunicating equipment. Serial No. 453,669; May 4. Class 21.

First Texas Chemical Manufacturing Company, Dallas, Tex. Vitamin preparation. Serial No. 459,172; May 4. Class 6.

Fostoria Pressed Steel Corp., The, Fostoria, Ohio. Guards, brackets, assembly means therefor, and parts thereof. Serial No. 458,096; May 4. Class 23.

Friedman-Marks Clothing Company, Inc., Richmond, Va. Men's suits and coats. Serial No. 445,931; May 4. Class 39.

General Properties Company, Inc., Toledo, Ohio. Atmosphere correcting gas converters for heat treating furnaces. Serial No. 456,983; May 4. Class 34.

Genesee Tool Company, Fenton, Mich. Metal cutting tools. Serial No. 458,330; May 4. Class 23.

Gleason Works, The, Rochester, N. Y. Clutches. Serial No. 458,863; May 4. Class 23.

Harrower Laboratory, Inc., The, Glendale, Calif. Vitamin product used as a dietary supplement. Serial No. 459,112; May 4. Class 6.

Helm, Ray P., doing business as The Helm Company, Benton Harbor, Mich. Antacid neutralizing powder. Serial No. 458,492; May 4. Class 6.

Hess, Dr., & Clark, Inc., Ashland, Ohio. Disinfectant. Serial No. 459,150; May 4. Class 6.

Irving Subway Grating Co., Inc., Long Island City, N. Y. Metal gratings. Serial No. 458,570; May 4. Class 12.

Irvington Varnish & Insulator Co., Irvington, N. J. Extruded plastic tubing for electrical insulation. Serial No. 458,428; May 4. Class 21.

James Manufacturing Company, Fort Atkinson, Wis. Watering cups, pans, and troughs, etc. Serial No. 451,934; May 4. Class 2.

Jarrell, B. C., & Company, Humboldt, Tenn. Shopping baskets equipped with a handle and wheels. Serial No. 457,438; May 4. Class 2.

Keasbey & Mattison Company, Ambler, Pa. Asbestos boards, asbestos sheets, asbestos lumber, etc. Serial No. 457,038; May 4. Class 12.

Kedmont Manufacturing & Waterproofing Co. (See Van Wolf, A. F.)

Ken-Nite Company, Detroit, Mich. Cleaner, wax and polish for automobiles and lacquered and enameled finishes. Serial No. 453,550; May 4. Class 16.

Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Potatoes. Serial No. 452,103; May 4. Class 46.

Lambert Pharmacal Company, Wilmington, Del. Creamed or semi-liquid tooth-paste. Serial No. 458,842; May 4. Class 6.

Lelong, Lucien, Inc., Chicago, Ill. Lipstick. Serial No. 458,687; May 4. Class 6.

Lieberman, John P., & Co., Detroit, Mich. Smoking and chewing tobacco. Serial No. 457,856; May 4. Class 17.

Metal Products Engineering, Inc., Los Angeles, Calif. Fire extinguishing devices. Serial No. 455,631; May 4. Class 23.

Minneapolis Brewing Company, Minneapolis, Minn. Beer. Serial No. 458,123; May 4. Class 48.

Moran, Ralph Victor, doing business as Vic Moran, Bradford, Pa. Toy coin banks. Serial Nos. 458,709–10; May 4. Class 22.

Nu-Di Products Company, The, Cleveland, Ohio. Liquid cleaner, polishes and a dye, and dressing preparation for suede, fabric, and leather articles. Serial No. 457,611; May 4. Class 4.

One-Two-Three Company, Inc., New York, N. Y. Flavoring concentrate for beverages. Serial No. 458,599; May 4. Class 45.

Parfums Massenet, Incorporated, New York, N. Y. Perfumes and toilet water. Serial No. 457,776; May 4. Class 6.

Pittsburg and Midway Coal Mining Company, The, Kansas City, Mo. Coal. Serial No. 440,132; May 4. Class 1.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Zinc chromate compound extruded material in the form of a tape. Serial No. 458,948; May 4. Class 12.

Powermatic Ventilator Company. (See Shaver, James B.)

Promotions, Inc., Youngstown, Ohio. Dinnerware pieces or dinnerware sets. Serial No. 457,511; May 4. Class 30.

Raybestos-Manhattan, Inc., Passaic, N. J. Insulating tape. Serial No. 458,849; May 4. Class 35.

Roper Bros., Inc., Winter Garden, Fla. Canned fruits and vegetables. Serial No. 459,206; May 4. Class 46.

Ross, Justin E., doing business as Ross Manufacturing Company, Kansas City, Mo. Safety razors. Serial No. 446,530; May 4. Class 23.

Sachs, Morris B., Chicago, Ill. Men's and boys' suits and overcoats, and ladies' coats, suits, dresses, etc. Serial No. 445,617; May 4, 1943. Class 39.

Schmid, Julius, Inc., New York, N. Y. Vaginal jelly. Serial No. 458,617; May 4. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Toilet soap. Serial No. 451,089; May 4. Class 4.

Seiberling Latex Products Co., The, Barberton, Ohio. Baby pants of rubber. Serial No. 445,396; May 4. Class 39.

Shaver, James B., doing business as Powermatic Ventilator Company, Cleveland, Ohio. Serial No. 454,380; May 4, 1943. Class 34.

Solo Products Corporation, New York, N. Y. Hair pins, hair curlers, hair wavers, etc. Serial No. 451,923; May 4, 1943. Class 40.

Timberlock Company, Hastings, Nebr. Timber connectors. Serial No. 458,885; May 4, 1943. Class 13.

Trostel, Albert, & Sons Company, Milwaukee, Wis. Leather. Serial No. 458,448; May 4. Class 1.

Union Manufacturing Co., Frederick, Md. Hosiery. Serial No. 458,234; May 4. Class 39.

United States Rubber Company, New York, N. Y. Chemicals for use as fungicides. Serial No. 457,215; May 4. Class 6.

Van Straaten, Herbert, doing business as Van Straaten Chemical Co., Chicago, Ill. Machine tool lubricants. Serial No. 454,320; May 4. Class 15.

Van Wolf, A. F., doing business as Kedmont Manufacturing & Waterproofing Co., Chicago, Ill. Materials (in liquid form), applicable to concrete (or the like). Serial No. 458,978; May 4. Class 12.

VegaRinse Company, The. (See Washburn, Ray A.)

Visual Records Corporation, Washington, D. C. Office furniture. Serial No. 456,735; May 4. Class 32.

Warner, William R., & Co. Inc., Wilmington, Del., and New York, N. Y. Amino acid preparations. Serial Nos. 458,665–6; May 4. Class 6.

Washburn, Ray A., doing business as The VegaRinse Company, Chicago, Ill. Comminuted chemical composition to be dissolved in water for washing fruits and vegetables. Serial No. 458,696; May 4. Class 4.

Western Electric Company, Incorporated, New York, N. Y. Motion picture apparatus. Serial No. 458,993; May 4. Class 26.

LIST OF REGISTRANTS OF TRADE-MARKS

Acampo Winery and Distilleries, Incorporated, Acampo, Calif. Wines. 401,240; May 4; Serial No. 446,985; published Dec. 23, 1941. Class 47.

Ahlander Manufacturing Company, Provo, Utah. Auto trailers and road vehicles. 401,253; May 4; Serial No. 456,665; published Feb. 23, 1943. Class 19.

Albi Chemical Corporation. (See Alembik, Ignace, assignor.)

Alembik, Ignace, assignor to Albi Chemical Corporation, New York, N. Y. Fire-retardant and waterproofed structural nonmetallic material. 401,248; May 4; Serial No. 456,359; published Feb. 23, 1943. Class 12.

Alien Property Custodian. (See Hulhens & Kropff.)

All American Aviation, Inc., Wilmington, Del. Pick-up units attached to airplanes. 401,245; May 4; Serial No. 456,169; published Feb. 23, 1943. Class 19.

American B. D. Company, Paterson, N. J. Wines. 401,295; May 4. Class 47.

American Burtonizing Company and Wallerstein Laboratories, assignor to Wallerstein Company, Inc., New York, N. Y. Invertase used in making sugar syrups. 169,298; renewed June 12, 1943.

American Burtonizing Company and Wallerstein Laboratories, assignor to Wallerstein Company, Inc., New York, N. Y. Dextrinous sirup. 171,140; renewed July 31, 1943.

American Hair Felt Co., assignor to American Hair & Felt Company, Chicago, Ill. Hair carpet cushions and hair seat cushions. 172,349; renewed Aug. 28, 1943.

American Houses, Inc. New York, N. Y. Structural parts for prefabricated buildings. 401,237; May 4; Serial No. 452,882; published Feb. 23, 1943. Class 12.

American Marine Paint Company, Inc., New York, N. Y., to American Marine Paint Company, San Francisco, Calif., successor. Paints. 170,784; renewed July 24, 1943.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Wire fencing. 401,283; May 4; Serial No. 457,622; published Feb. 23, 1943. Class 13.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, and Chicago, Ill., Pittsburgh, Pa., New York, N. Y., and Worcester, Mass., to The American Steel and Wire Company of New Jersey, Cleveland, Ohio. Nails. 167,893; renewed May 8, 1943.

Andresen Corporation, Skokie, Ill. Bituminous coated aggregate for paving purposes. 401,299; May 4. Class 12.

Aridor Company, The, Chicago, Ill. Jars, cases and other receptacles. 172,242; renewed Aug. 28, 1943.

Arizona Farms, Tolleson, Ariz. Fresh vegetables. 401,287; May 4; Serial No. 457,713; published Feb. 23, 1943. Class 46.

Ashland Paper Mills, Inc., Ashland, N. H. Facial tissue, toilet tissue, paper napkins, etc. 401,293; May 4. Class 37.

Associated Press, The, New York, N. Y. News stories and news photographs. 401,258; May 4; Serial No. 456,914; published Feb. 23, 1943. Class 38.

Babbitt, B. T., Inc., Albany and New York, N. Y. Dehydrated soup mixtures. 401,273; May 4; Serial No. 457,360; published Feb. 23, 1943. Class 46.

Barron-Gray Packing Company, San Jose, Calif. Canned fruit and vegetables and dried fruit. 173,089; renewed Sept. 18, 1943.

Barron-Gray Packing Company, San Jose, Calif. Canned fruit and vegetables and dried fruit. 173,130; renewed Sept. 18, 1943.

Batelja, Michael J., doing business as M. J. Batelja Co., Portland, Oreg. Flavored popped corn. 401,259; May 4; Serial No. 456,915; published Feb. 23, 1943. Class 46.

Bonney Forge & Tool Works, Philadelphia and Allentown, Pa., to Bonney Forge & Tool Works, Allentown, Pa. Tappet wrenches. 171,873; renewed Aug. 14, 1943.

Borden Company. (See Merrell-Soule Company, assignor.)

Bowser, S. F., & Company, Incorporated, Fort Wayne, Ind. Dry cleaning systems, including machines and appliances. 172,264; renewed Aug. 28, 1943.

Buchanan, James, Middletown, Ohio. Cartoons. 401,233; May 4; Serial No. 450,302; published Feb. 16, 1943. Class 38.

Buffalo Specialty Co., Buffalo, N. Y., by change of name to Liquid Veneer Corporation. Drain solvents. 167,574; renewed May 1, 1943.

Burnham & Morrill Company, Portland, Maine. Fish products, canned goods, and other groceries. 173,016; renewed Sept. 11, 1943.

Butler, J. W., Paper Company, assignor to Butler Paper Corporation, Chicago, Ill. Print, book, cover, etc., papers. 172,922; renewed Sept. 11, 1943.

Butler Paper Corporation. (See Butler, J. W., Paper Company, assignor.)

California Growers Wineries, Cutler, Calif. Wines. 401,272; May 4; Serial No. 457,271; published Feb. 16, 1943. Class 47.

Camp Company, The. (See Campagna, Sam.)

Campagna, Sam, doing business as The Camp Company, Chicago, Ill. Plastic insulating and waterproofing material. 401,300; May 4. Class 12.

Campagna, Sam, doing business as The Camp Company, Chicago, Ill. Quick setting material for patching floors. 401,301; May 4. Class 12.

Cato Oil and Grease Co., Oklahoma City, Okla. Lubricating oils and greases. 173,309; renewed Sept. 18, 1943.

Celanese Corporation of America, New York, N. Y. Yarns. 401,297; May 4. Class 43.

Chance, A. B., Company, Centralia, Mo. Terminal blocks and drop-out fused tappers. 401,279; May 4; Serial No. 457,494; published Feb. 23, 1943. Class 21.

Chemische Fabrik vormals Sandoz, Basel, Switzerland, assignor to Sandoz Chemical Works, Inc., New York, N. Y. Pharmaceutical preparation. 173,046; renewed Sept. 11, 1943.

Chemische Fabrik vormals Sandoz, Basel, Switzerland, assignor to Sandoz Chemical Works, Inc., New York, N. Y. Pharmaceutical preparation. 173,047; renewed Sept. 11, 1943.

Chicago Flexible Shaft Company, Chicago, Ill. Publication devoted to the industrial furnace trade and containing notes, comments, and news relating to the processing of metals. 401,235; May 4; Serial No. 452,601; published Feb. 16, 1943. Class 38.

Chrisalty Laboratories, Newark, N. J. Vitamin tablets and capsules. 401,296; May 4. Class 6.

Coast Fishing Company. (See Kittle, A. F., assignor.)

Colgate & Company, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Liquid and powdered perfumes. 172,666; renewed Sept. 11, 1943.

Colgate & Company, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Rouge. 172,667; renewed Sept. 11, 1943.

Colgate-Palmolive-Peet Company. (See Palmolive Company, assignor.)

Collins, J. N., Company, Minneapolis, Minn., to Peter Paul, Inc., Naugatuck, Conn., successor. Candy. 165,540; renewed Mar. 13, 1943.

Consolidated Hat Stores, Ltd. (See Rappaport, Max.)

Cordell Hosiery Corporation. (See Phillips & Hart, assignor.)

Couperie Belge Américaine, S. A., Newark, N. J. Carroted hatters' fur. 401,229; May 4; Serial No. 444,175; published Feb. 23, 1943. Class 1.

Da-Lite Screen Company, Chicago, Ill. Motion picture screens, projector stands, and unipods. 401,232; May 4; Serial No. 450,223; published Feb. 23, 1943. Class 26.

Decorators Wall Paper Co. (See Webster, Harry W.)

Dell Publishing Company, Inc., New York, N. Y. Illustrated story magazines. 401,236; May 4; Serial No. 452,851; published Feb. 16, 1943. Class 38.

Delta Sigma Phi Fraternity, Springfield, Ohio. Publication. 401,275; May 4; Serial No. 457,414; published Feb. 16, 1943. Class 38.

Detroit Stoker Company, Detroit, Mich. Fuel stokers. 401,264; May 4; Serial No. 456,974; published Feb. 23, 1943. Class 34.

Display Publishing Company, The, Cincinnati, Ohio. Publication. 165,259; renewed Mar. 6, 1943.

Driver-Harris Company, Harrison, N. J. House organ. 401,254; May 4; Serial No. 456,791; published Feb. 16, 1943. Class 38.

Endicott Johnson Corporation, Endicott, N. Y. Leather. 168,572; renewed May 29, 1943.

Ericson, Eric, New York, N. Y. Cartoons. 401,288; May 4; Serial No. 457,760; published Feb. 16, 1943. Class 38.

Erie Steel Construction Company, Erie, Pa. Holding and measuring apparatus for accurately proportioning stone or gravel, etc. 173,212; renewed Sept. 18, 1943.

Etablissements Rigaud, Inc. (See Rigaud, Henri.)

Fares, Buddy J., doing business as The Youngstowner, Youngstown, Ohio. Weekly publication. 401,309; May 4. Class 38.

Fawcett Publications, Inc., Greenwich, Conn. Periodical publication. 401,303; May 4. Class 38.

Findley, F. G., Co., The, Milwaukee, Wis. Waterproof pastes, glues and adhesive gums. 401,265; May 4; Serial No. 457,035; published Apr. 20, 1943. Class 5.

Firestone Tire & Rubber Company, The, Akron, Ohio. Lawn seed. 401,302; May 4. Class 1.

Fisher Scientific Company, Pittsburgh, Pa. Aluminum oxide suspension used for polishing metallographic specimens prior to microscopical examination. 401,261; May 4; Serial No. 456,939; published Feb. 23, 1943. Class 4.

Fog Nozzle Co., The, Los Angeles, Calif. Fire extinguishing equipment. 401,291; May 4. Class 13.

Fondeville, Eugene L., New York, N. Y. Ceramic tableware. 401,239; May 4; Serial No. 454,506; published Feb. 23. 1943. Class 30.

Forstmann & Huffmann Company, assignor to Forstmann & Huffmann Company, assignor, by mesne assignments, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 166,945; renewed Apr. 17, 1943.

Forstmann Woolen Company. (See Forstmann & Huffmann, assignor.)

Goldfield, Eddie, New York, N. Y. Children's, teen age, junior miss, etc., coats, suits, jackets, etc. 401,276; May 4; Serial No. 457,417; published Feb. 23, 1943. Class 39.

Goldfield, Eddie, New York, N. Y. Children's, teen age, junior miss, etc., coats, suits, jackets, etc. 401,278; May 4; Serial No. 457,437; published Feb. 23, 1943. Class 39.

Gottlieb Brothers, Manufacturers of Silk Underwear, Inc., New York, N. Y. Ladies' underwear. 401,308; May 4. Class 39.

Greenspan, Cantor Co., Inc., New York, N. Y. Rayon piece goods. 401,304; May 4. Class 42.

Gries, Joseph M., Battle Mountain, Nev. Ice cream. 173,274; renewed Sept. 18, 1943.

Haft, Morris W., & Brothers, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 401,284; May 4; Serial No. 457,625; published Feb. 23, 1943. Class 39.

Hall-Neal Furnace Co., Indianapolis, Ind. Warm air household furnace units with and without air conditioning equipment. 401,231; May 4; Serial No. 449,687; published Feb. 23, 1943. Class 34.

Heublein, G. F., & Bro., Hartford, Conn. Whisky. 401,242; May 4; Serial No. 455,159; published Feb. 23, 1943. Class 49.

Hood, Charles I., Lowell, Mass., assignor, by mesne assignments, to C. I. Hood Co. Inc., New York, N. Y. Compound of sarsaparilla. 23,353; re-renewed July 11. 1943.

Hovland Steel Company Incorporated, New York, N. Y. Tool steel in the form of bars, billets, sheets and strips. 401,269; May 4; Serial No. 457,188; published Feb. 23, 1943. Class 14.

Ideal Cement Company. (See Nebraska Cement Company.)

Illinois Razor Strop Company, Chicago, Ill. Razor strops. 401,255; May 4; Serial No. 456,890; published Feb. 23, 1943. Class 4.

Illinois Razor Strop Company, Chicago, Ill. Razor strops. 401,256; May 4; Serial No. 456,892; published Feb. 23, 1943. Class 4.

Immortal Music Publishing Co., The. (See Leonard, Harold.)

Independent Fdry. Supply Co. (See Mocsny, Steven.)

Ivanhoe Foods, Inc., Auburn, N. Y. Dehydrated vegetables, and dehydrated prepared soups. 401,277; May 4; Serial No. 457,419; published Feb. 23, 1943. Class 46.

Jewett & Sherman Co. (See Murdock, C. A., Mfg. Co.)

Kentucky Fluor Spar Co., Marion, to Kentucky Fluor Spar Co., Newport, Ky., successor. Ground, lump and gravel fluor spar. 168,754; renewed May 29, 1943.

Kimball, C. M., Company, Winthrop, to C. M. Kimball Company, Boston, Mass. Ammonia. 167,934; renewed May 8, 1943.

Kimball, C. M., Company, Winthrop, to C. M. Kimball Company, Boston, Mass. Ammonia. 168,394; renewed May 22, 1943.

Kittle, A. F., doing business as A. F. Kittle & Co., Los Angeles, assignor, by mesne assignments, to Coast Fishing Company, Wilmington, Calif. Canned fish, fruit and vegetables. 172,871; renewed Sept. 11, 1943.

Kleinberg, Harry I., Pittsburgh, Pa. Glass dish. 401,244; May 4; Serial No. 455,595; published Feb. 23, 1943 Class 33.

Lampl, Walter, doing business as Lampl, New York, N. Y. Finger rings, key rings, bill clips, etc. 401,280; May 4; Serial No. 457,524; published Feb. 23, 1943. Class 28.

Lavino, E. J., and Company, Philadelphia, Pa. Refractory cements. 172,588; renewed Sept. 11, 1943.

Lee Paper Company, Vicksburg, Mich. Bond paper. 401,307; May 4. Class 37.

Leonard, Harold, doing business as The Immortal Music Publishing Co., Long Beach, N. Y. Sheet music. 401,234; May 4; Serial No. 452,536; published Feb. 16, 1943. Class 38.

Lippman, B., Inc., New York, N. Y. Men's military, sport, dress, etc., shirts. 401,281; May 4; Serial No. 457,562; published Feb. 23, 1943. Class 39.

Liquid Veneer Corporation. (See Buffalo Specialty Co.)

London Character Shoes Corporation. (See London Shoe Co., Inc., assignor.)

London Shoe Co., Inc., assignor to London Character Shoes Corporation, New York, N. Y. Shoes. 170,717; renewed July 24, 1943.

Longdon, F., & Company, Limited, Derby, England. Elastic corsets, corset belts, bust supporters, etc. 164,278; renewed Feb. 20, 1943.

Lowe, S., & Sons Company, Fairfield, Conn. Manually operated floor waxers. 401,310; May 4. Class 23.

Manischewitz, B., Company, The, Jersey City, N. J., and Cincinnati, Ohio. Periodical publication. 401,292; May 4. Class 38.

Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies. 170,155; renewed July 10, 1943.

Matthews-Frechtling Dairy Company. (See Matthews Selected Dairies Company, assignor.)

Matthews Selected Dairies Company, The, assignor, by mesne assignments, to The Matthews-Frechtling Dairy Company, Cincinnati, Ohio. Fresh milk. 167,237; renewed Apr. 24, 1943.

May Hoisery Mills, Nashville, Tenn. Hosiery. 172,215; renewed Aug. 28, 1943.

Merrell-Soule Company, Syracuse, assignor, by mesne assignments, to The Borden Company, New York, N. Y. Powdered milk. 173,222; renewed Sept. 18, 1943.

Mocsny, Steven, doing business as Independent Fdry. Supply Co., Vernon, Calif. Core and facing binder. 401,274; May 4; Serial No. 457,367; published Feb. 23, 1943. Class 1.

Mohawk Chemical Products Co., assignor to Mohawk Chemical Products, Inc., Philadelphia, Pa. Liquid preparation for cleaning, preserving and renewing typewriter and wringer rollers, etc. 401,247; May 4; Serial No. 456,220; published Feb. 23, 1943. Class 4.

Monroe, Lederer & Taussig to Monroe, Lederer & Taussig, Inc., Philadelphia, Pa., successor. Paints, paint enamels, stains and varnishes, etc. 167,933; renewed May May 8, 1943.

Moore & Munger, New York, N. Y. Filling and reinforcing material in the nature of finely divided minerals for use in the manufacture of synthetic rubber. 401,260; May 4; Serial No. 456,926; published Feb. 23, 1943. Class 1.

Mulhens & Kropff, Incorporated, New York, N. Y., assignor to Alien Property Custodian, Washington, D. C. Perfumes and other toilet preparations. 165,585; renewed Mar. 13, 1943.

Murdock, C. A., Mfg. Co., Kansas City, Mo., to Jewett & Sherman Co., Milwaukee, Wis., successor. Food flavoring extracts and coffee. 172,978; renewed Sept. 11, 1943.

Nebraska Cement Company, Omaha, Nebr., and Denver, Colo., to Ideal Cement Company, Denver, Colo. Portland cement. 173,091; renewed Sept. 18, 1943.

Nelson Bead Company, New York, N. Y. Beads. 172,236; renewed Aug. 28, 1943.

Nelson, James, Limited, Nelson, to James Nelson Ltd., Bradford, England. Cotton piece goods and cotton goods. 165,591; renewed Mar. 13, 1943.

Nelson, Julius Corp., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 401,286; May 4; Serial No. 457,684; published Feb. 23, 1943. Class 39.

New England Fish Company, Seattle, Wash. Canned salmon. 401,285; May 4; Serial No. 457,640; published Feb. 23, 1943. Class 46.

New York Eye Protection Co. Inc., Brooklyn, N. Y. Spectacles, goggles and lenses for the same. 401,262–3; May 4; Serial Nos. 456,958–9; published Feb. 23, 1943. Class 26.

Nicholas (Overseas) Marketing Company Proprietary Limited. (See Nicholas Proprietary Limited, assignor.)

Nicholas Proprietary Limited, Melbourne, Victoria, assignor, by mesne assignments, to Nicholas (Overseas) Marketing Company Proprietary Limited, South Melbourne, Victoria, Australia. Pharmaceutical preparation. 171,972; renewed Aug. 21, 1943.

Norristown Herald, Inc., Norristown, Pa. Publication. 172,092; renewed Aug. 21, 1943.

North American Pulp & Paper Corporation. (See Poland Paper Company, assignor.)

Ohio Ferro-Alloys Corporation, Canton, Ohio. Ferro-alloys. 401,294; May 4. Class 14.

Oklahoma Publishing Company, Oklahoma City, Okla. Monthly magazine. 171,818; renewed Aug. 14, 1943.

Orange Cove Fruit Company. (See Zaninovich, George.)

Oxnard Canners, Inc., Monterey, Calif. Canned fish. 401,289; May 4; Serial No. 457,863; published Feb. 23, 1943. Class 46.

Pacific Flush Tank Company, Chicago, Ill. Sewage sludge digesters. 401,311; May 4. Class 23.

Pak-Rak, Inc., New York, N. Y. Containers and parts therefor. 401,290; May 4. Class 2.

Palmolive Company, The, Milwaukee, Wis., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Face powder. 172,851; renewed Sept. 11, 1943.
Parke, Davis & Company, Detroit, Mich. Nebulizers and syringes. 171,359; renewed Aug. 7, 1943.
Parke, Davis & Company, Detroit, Mich. Anaesthetic cream. 172,227; renewed Aug. 28, 1943.
Parke, Davis & Company, Detroit, Mich. Antiseptic mouth wash and gargle. 172,228; renewed Aug. 28, 1943.
Parke, Davis & Company, Detroit, Mich. Preparation for treatment of cholelithiasis and allied conditions. 172,229; renewed Aug. 28, 1943.
Patch, E. L., Company, The, Stoneham, Mass. Skin lotion. 172,664; renewed Sept. 11, 1943.
Paul, Peter, Inc. (See Collins, J. N., Company.)
Pennsylvania Baking Company, Scranton, Pa. Crackers or biscuits. 168,924; renewed May 29, 1943.
Peppers, Thomas H., assignor to Western Fruit Growers, Inc., Los Angeles, Calif. Fresh cantaloupes. 170,118; renewed July 10, 1943.
Pfeffer Milling Company, Lebanon, Ill. Wheat flour. 167,427; renewed May 1, 1943.
Philco Corporation, Philadelphia, Pa. Voltmeters, pocket voltage testers, condenser testers, etc. 401,240; May 4; Serial No. 454,610; published Feb. 23, 1943. Class 26.
Philco Corporation, Philadelphia, Pa. Men's and women's coverall service coats. 401,241; May 4; Serial No. 454,612; published Feb. 23, 1943. Class 39.
Phillips & Hart, Jacksonville, Fla., assignors, by mesne assignments, to Cordell Hosiery Corporation, Greensboro, N. C. Hosiery. 172,207; renewed Aug. 28, 1943.
Poland Paper Company, Mechanic Falls, Maine, assignor to North American Pulp & Paper Corporation, New York, N. Y. Paper and mailing envelopes. 168,851; renewed May 29, 1943.
Rappaport, Max, to Consolidated Hat Stores, Ltd., Los Angeles, Calif., successor. Hats and caps for men and boys. 171,838; renewed Aug. 14, 1943.
Ready Foods Canning Corp., Chicago, Ill. Pork luncheon meat. 401,305; May 4. Class 46.
Ready Foods Canning Corp., Chicago, Ill. Canned chopped ham. 401,306; May 4. Class 46.
Reel Products Company, Cedar Rapids, to Reel Products Company, Monticello, Iowa. Yeast cakes. 171,355; renewed Aug. 7, 1943.
Rigaud, Henri, doing business as Rigaud, Paris, France, and New York, N. Y., by merger and change of name to Etablissements Rigaud, Inc., New York, N. Y. Perfume and other toilet preparations. 172,809; renewed Sept. 11, 1943.
Riggio Tobacco Corporation, Brooklyn, N. Y. Cigarettes. 401,270; May 4; Serial No. 457,208; published Feb. 23, 1943. Class 17.
Riggio Tobacco Corporation, Brooklyn, N. Y. Smoking tobacco. 401,271; May 4; Serial No. 457,209; published Feb. 23, 1943. Class 17.
Roth Appliance Distributors, Inc., Milwaukee, Wis. Soap. 401,238; May 4; Serial No. 453,927; published Feb. 23, 1943. Class 4.
Russell Playing Card Co., Milltown, N. J., assignor to The United States Playing Card Company, East Norwood, Cincinnati, Ohio. Playing cards. 172,312; renewed Aug. 28, 1943.
Samuels, Albert S., Co., San Francisco, Calif. Watches. 401,250; May 4; Serial No. 456,434; published Feb. 23, 1943. Class 27.
Sandoz Chemical Works, Inc. (See Chemische Fabrik vormals Sandoz, assignor.)
Schwarze Electric Co., Adrian, Mich. Visible and audible electric signals, indicators, and alarms. 401,251–2; May 4; Serial Nos. 456,514–15; published Feb. 23, 1943. Class 21.
Sclafani, Gus, Stamford, Conn. Canned fruits, canned vegetables, canned fish, etc. 401,243; May 4; Serial No. 455,314; published Feb. 23, 1943. Class 46.
Sensat, G., Hijos, Barcelona, Spain. Olive oil. 164,118; renewed Feb. 13, 1943.
Shewan-Jones, Inc., New York, N. Y. Brandy. 401,266; May 4; Serial No. 457,054; published Feb. 16, 1943. Class 49.
Sillers Paint & Varnish Company, Los Angeles, Calif. Liquid composition in the nature of a rubber dressing. 401,246; May 4; Serial No. 456,201; published Feb. 23, 1943. Class 4.
Spazier Soap & Chemical Company, Santa Monica, Calif. Chemical compound. 401,257; May 4; Serial No. 456,907; published Feb. 23, 1943. Class 4.
Squibb, E. R., & Sons, New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. 169,655; renewed June 26, 1943.
Stearns & Foster Company, The, Lockland, Ohio. Mattresses. 172,370; renewed Aug. 28, 1943.
Stein, S., & Co., New York, N. Y. Woolen cloths. 173,213; renewed Sept. 18, 1943.
Stephano Brothers, Philadelphia, Pa. Cigarettes. 173,133; renewed Sept. 18, 1943.
Timken Roller Bearing Company, The, Canton, Ohio. Roller bearings and parts thereof. 171,583; renewed Aug. 7, 1943.
Tubbs Cordage Company, San Francisco, Calif. Manila rope. 172,807; renewed Sept. 11, 1943.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarns. 172,848–9; renewed Sept. 11, 1943.
Ulmann, Bernhard, Co., Inc., New York, N. Y. Yarns. 401,298; May 4. Class 43.
Underwood Elliott Fisher Company. (See Waters & Waters Mfg. Co., assignor.)
United States Playing Card Company, The. (See Russell Playing Card Co., assignor.)
Vintage Wines Co. (See Western Wine Corporation.)
Wallerstein Laboratories. (See American Burtonizing Company and Wallerstein Laboratories, asssignors.)
Wallerstein Company, Inc. (See American Burtonizing Company and Wallerstein Laboratories, assignors.)
Webster, Harry W., doing business as Decorators Wall Paper Co., Toledo, Ohio, assignor to Decorators Wall Paper Company, St. Louis, Mo. Paints, putty, linseed oil, etc. 172,368; renewed Aug. 28, 1943.
Western Fruit Growers, Inc. (See Peppers, Thomas H., assignor.)
Western Wine Corporation, doing business as Vintage Wines Co., Baltimore, Md. Wines. 401,249; May 4; Serial No. 456,376; published Feb. 16, 1943. Class 47.
Wilson Welder and Metals Co. Inc., New York, N. Y. Electric arc welding machines. 401,267; May 4; Serial No. 457,180; published Feb. 23, 1943. Class 21.
Wool, F. G., Packing Co., Inc., San Jose, Calif. Canned fruits, fruit salad, and vegetables, and dried fruits. 171,184; renewed July 31, 1943.
Waters & Waters Mfg. Co., St. Louis, Mo., assignor, by mesne assignments, to Underwood Elliott Fisher Company, New York, N. Y. Typewriter ribbons and carbon paper. 166,591; renewed Apr. 10, 1943.
Youngstowner, The. (See Fares, Buddy J.)
Zaninovich, George, doing business as Zaninovich Bros., and Orange Cove Fruit Company, Dinuba, Calif. Fresh grapes and fresh citrus fruits. 401,268; May 4; Serial No. 457,182; published Feb. 23, 1943. Class 46.
Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. 401,282; May 4; Serial No. 457,619; published Feb. 23, 1943. Class 21.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Binder, Core and facing. S. Mocsny. 401,274; May 4; Serial No. 457,367; published Feb. 23, 1943.
Fluor spar, Ground, lump, and gravel. Kentucky Fluor Spar Co. 168,754; renewed May 29, 1943.
Fur, Carroted hatters'. Couperie Belge Américaine, S. A. 401,229; May 4; Serial No. 444,175; published Feb. 23, 1943.
Leather. Endicott Johnson Corporation. 168,572; renewed May 29, 1943.
Material in the nature of finely divided minerals for use in the manufacture of synthetic rubber, Filling and reinforcing. Moore & Munger. 401,260; May 4; Serial No. 456,926; published Feb. 23, 1943.
Seed, Lawn. Firestone Tire & Rubber Company. 401,302; May 4.

CLASS 2

Container and parts therefor. Pak-Rak, Inc. 401,290; May 4.
Jars, cases and other receptacles. Aridor Company. 172,242; renewed Aug. 28, 1943.

CLASS 4

Aluminum oxide suspension used for polishing metallographic specimens prior to microscopical examination. Fisher Scientific Company. 401,261; May 4; Serial No. 456,939; published Feb. 23, 1943.
Chemical compound. Spazier Soap & Chemical Company. 401,257; May 4; Serial No. 456,907; published Feb. 23, 1943.
Liquid composition in the nature of a rubber dressing. Sillers Paint & Varnish Company. 401,246; May 4; Serial No. 456,201; published Feb. 23, 1943.
Liquid preparation for cleaning, preserving, and renewing typewriter and wringer rollers, etc. Mohawk Chemical Products Co. 401,247; May 4; Serial No. 456,220; published Feb. 23, 1943.
Razor strops. Illinois Razor Strop Company. 401,255; May 4; Serial No. 456,890; published Feb. 23, 1943.
Razor strops. Illinois Razor Strop Company. 401,256; May 4; Serial No. 456,892; published Feb. 23, 1943.
Soap. Roth Appliance Distributors, Inc. 401,238; May 4; Serial No. 453,927; published Feb. 23, 1943.

CLASS 5

Pastes, glues, and adhesive gums, Waterproof. F. G. Findley Co. 401,265; May 4; Serial No. 457,035; published Apr. 20, 1943.

CLASS 6

Ammonia. C. M. Kimball Company. 167,934; renewed May 8, 1943.
Ammonia. C. M. Kimball Company. 168,394; renewed May 22, 1943.
Antiseptic mouth wash and gargle. Parke, Davis & Company. 172,228; renewed Aug. 28, 1943.
Chemicals, medicines, and pharmaceutical preparations. E. R. Squibb & Sons. 169,655; renewed June 26, 1943.
Compound of sarsaparilla. C. I. Hood. 23,353; re-renewed July 11, 1943.
Cream, Anaesthetic. Parke, Davis & Company. 172,227; renewed Aug. 28, 1943.
Lotion, Skin. E. L. Patch Company. 172,664; renewed Sept. 11, 1943.
Perfume and other toilet preparations. H. Rigaud. 172,809; renewed Sept. 11, 1943.
Perfumes and other toilet preparations. Mulhens & Kropff, Incorporated. 165,585; renewed Mar. 13, 1943.
Perfumes, Liquid and powdered. Colgate & Company. 172,666; renewed Sept. 11, 1943.
Pharmaceutical preparation. Chemische Fabrik Vormals Sandoz. 173,046; renewed Sept. 11, 1943.
Pharmaceutical preparation. Chemische Fabrik Vormals Sandoz. 173,047; renewed Sept. 11, 1943.
Pharmaceutical preparation. Nicholas Proprietary Limited. 171,972; renewed Aug. 21, 1943.
Powder, Face. Palmolive Company. 172,851; renewed Sept. 11, 1943.
Preparation for treatment of cholelithiasis and allied conditions. Parke, Davis & Company. 172,229; renewed Aug. 28, 1943.
Rouge. Colgate & Company. 172,667; renewed Sept. 11, 1943.
Solvents, Drain. Buffalo Specialty Co. 167,574; renewed May 1, 1943.
Tablets and capsules, Vitamin. Chrisalty Laboratories. 401,296; May 4.

CLASS 7

Rope, Manila. Tubbs Cordage Company. 172,807; renewed Sept. 11, 1943.

CLASS 11

Typewriter ribbons and carbon paper. Waters & Waters Mfg. Co. 166,591; renewed Apr. 10, 1943.

CLASS 12

Aggregate for paving purposes, Bituminous coated. Andresen Corporation. 401,299; May 4.
Cement, Portland. Nebraska Cement Company. 173,091; renewed Sept. 18, 1943.
Cements, Refractory. E. J. Lavino and Company. 172,588; renewed Sept. 11, 1943.
Fire-retardant and waterproofed structural nonmetallic material. I. Alembik. 401,248; May 4; Serial No. 456,359; published Feb. 23, 1943.
Insulating and water-proofing material, Plastic. S. Campagna. 401,300; May 4.
Material for patching floors, Quick setting. S. Campagna. 401,301; May 4.
Structural parts for prefabricated buildings. American Houses, Inc. 401,237; May 4; Serial No. 452,882; published Feb. 23, 1943.

CLASS 13

Extinguishing equipment, Fire. Fog Nozzle Co. 401,291; May 4.
Nails. American Steel and Wire Company of New Jersey. 167,893; renewed May 8, 1943.
Wire fencing. American Steel and Wire Company of New Jersey. 401,283; May 4; Serial No. 457,622; published Feb. 23, 1943.

CLASS 14

Ferro-alloys. Ohio Ferro-Alloys Corporation. 401,294; May 4.
Steel in the form of bars, billets, sheets, and strips, Tool. Hoyland Steel Company Incorporated. 401,269; May 4; Serial No. 457,188; published Feb. 23, 1943.

CLASS 15

Oils and greases, Lubricating. Cato Oil and Grease Co. 173,309; renewed Sept. 18, 1943.

CLASS 16

Paints. American Marine Paint Company. 170,784; renewed July 24, 1943.
Paints, paint enamels, stains and varnishes, etc. Monroe, Lederer & Taussig. 167,933; renewed May 8, 1943.
Paints, putty, linseed oil, etc. H. W. Webster. 172,368; renewed Aug. 28, 1943.

CLASS 17

Cigarettes. Riggio Tobacco Corporation. 401,208; May 4; Serial No. 457,208; published Feb. 23, 1943.
Cigarettes. Stephano Brothers. 173,133; renewed Sept. 18, 1943.
Tobacco, Smoking. Riggio Tobacco Corporation. 401,271; May 4; Serial No. 457,209; published Feb. 23, 1943.

CLASS 19

Trailers and road vehicles, Auto. Ahlander Manufacturing Company. 401,253; May 4; Serial No. 456,665; published Feb. 23, 1943.
Units attached to airplanes, Pick-up. All American Aviation, Inc. 401,245; May 4; Serial No. 456,169; published Feb. 23, 1943.

CLASS 21

Electric arc welding machines. Wilson Welder and Metals Co. Inc. 401,267; May 4; Serial No. 457,180; published Feb. 23, 1943.
Electric signals, indicators, and alarms, Visible and audible. Schwarze Electric Co. 401,251–2; May 4; Serial Nos. 456,514–15; published Feb. 23, 1943.
Radio and television receiving sets and parts thereof. Zenith Radio Corporation. 401,282; May 4; Serial No. 457,619; published Feb. 23, 1943.
Terminal blocks and drop-out fused tappers. A. B. Chance Company. 401,279; May 4; Serial No. 457,494; published Feb. 23, 1943.

CLASS 22

Cards, Playing. Russell Playing Card Co. 172,312; renewed Aug. 28, 1943.

CLASS 23

Bearings and parts thereof, Roller. Timken Roller Bearing Company, The. 171,583; renewed Aug. 7, 1943.
Digesters, Sewage sludge. Pacific Flush Tank Company. 401,311; May 4.
Waxers, Manually operated floor. S. Lowe & Sons Company. 401,310; May 4.
Wrenches, Tappet. Bonney Forge & Tool Works. 171,873; renewed Aug. 14, 1943.

CLASS 24

Cleaning systems, including machines and appliances. Dry. S. F. Bowser & Company. 172,264; renewed Aug. 28, 1943.

CLASS 26

Apparatus for accurately proportioning stone or gravel etc., Holding and measuring. Erie Steel Construction Company. 173,212; renewed Sept. 18, 1943.
Motion picture screens, projector stands, and unipods. Da-Lite Screen Company. 401,232; May 4; Serial No. 450,223; published Feb. 23, 1943.
Spectacles, goggles, and lenses for the same. New York Eye Protection Co. Inc. 401,262–3; May 4; Serial Nos. 456,958–9; published Feb. 23, 1943.
Voltmeters, pocket voltage testers, condenser testers, etc. Philco Corporation. 401,240; May 4; Serial No 454,610; published Feb. 23, 1943.

CLASS 27

Watches. Albert S. Samuels Co. 401,250; May 4; Serial No. 456,434; published Feb. 23, 1943.

CLASS 28

Rings, key rings, bill clips, etc., Finger. W. Lampl. 401,280; May 4; Serial No. 457,524; published Feb. 23, 1943.

CLASS 30

Ceramic tableware. E. L. Fondeville. 401,239; May 4; Serial No. 454,506; published Feb. 23, 1943.

CLASS 32

Mattresses. Stearns & Foster Company. 172,370; renewed Aug. 28, 1943.

CLASSES 32 AND 50

Cushions and hair seat cushions, Hair carpet. American Hair Felt Co. 172,349; renewed Aug. 28, 1943.

CLASS 33

Dish, Glass. H. I. Kleinberg. 401,244; May 4; Serial No. 455,595; published Feb. 23, 1943.

CLASS 34

Furnace units with and without air conditioning equipment, Warm air household. Hall-Neal Furnace Co. 401,231; May 4; Serial No. 449,687; published Feb. 23, 1943.
Stokers, Fuel. Detroit Stoker Company. 401,264; May 4; Serial No. 456,974; published Feb. 23, 1943.

CLASS 37

Paper and mailing envelopes. Poland Paper Company. 168,851; renewed May 29, 1943.
Paper, Bond. Lee Paper Company. 401,307; May 4.
Prints, book, cover, etc., Papers. J. W. Butler Paper Company. 172,922; renewed Sept. 11, 1943.
Tissue, toilet tissue, paper napkins, etc., Facial. Ashland Paper Mills, Inc. 401,293; May 4.

CLASS 38

Cartoons. J. Buchanan. 401,233; May 4; Serial No. 450,302; published Feb. 16, 1943.
House organ. Driver-Harris Company. 401,254; May 4; Serial No. 456,791; published Feb. 16, 1943.
Magazine, Monthly. Oklahoma Publishing Company. 171,818; renewed Aug. 14, 1943.
Magazines, Illustrated story. Dell Publishing Company. 401,236; May 4; Serial No. 452,851; published Feb. 16, 1943.
News stories and news photographs. Associated Press. 401,258; May 4; Serial No. 456,914; published Feb. 23, 1943.
Publication. Delta Sigma Phi Fraternity. 401,275; May 4; Serial No. 457,414; published Feb. 16, 1943.
Publication. Display Publishing Company. 165,259; renewed Mar. 6, 1943.
Publication. E. Ericson. 401,288; May 4; Serial No. 457,700; published Feb. 16, 1943.
Publication. Norristown Herald, Inc. 172,092; renewed Aug. 21, 1943.
Publication devoted to the industrial furnace trade and containing notes, comments, and news relating to the processing of metals. Chicago Flexible Shaft Company. 401,235; May 4; Serial No. 452,601; published Feb. 16, 1943.
Publication, Periodical. Fawcett Publications, Inc. 401,303; May 4.
Publication, Periodical. B. Manischewitz Company. 401,292; May 4.
Publication, Weekly. H. J. Fares. 401,309; May 4.
Sheet music. H. Leonard. 401,234; May 4; Serial No. 452,536; published Feb. 16, 1943.

CLASS 39

Coats, Men's and women's coverall service. Philco Corporation. 401,241; May 4; Serial No. 454,612; published Feb. 23, 1943.
Coats, suits, jackets, etc., Children's, teen age, junior miss, etc. E. Goldfield. 401,276; May 4; Serial No. 457,417; published Feb. 23, 1943.
Coats, suits, jackets, etc., Children's, teen age, junion miss, etc. E. Goldfield. 401,278; May 4; Serial No. 457,437; published Feb. 23, 1943.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 401,284; May 4; Serial No. 457,625; published Feb. 23, 1943.
Coats, suits, jackets, etc., Ladies' and misses'. Julius Nelson Corp. 401,286; May 4; Serial No. 457,684; published Feb. 23, 1943.
Hats and caps for men and boys. M. Rappaport. 171,838; renewed Aug. 14, 1943.
Hosiery. May Hosiery Mills. 172,215; renewed Aug. 28, 1943.
Hosiery. Phillips & Hart. 172,207; renewed Aug. 28, 1943.
Shirts, Men's military, sport, dress, etc. B. Lippman, Inc. 401,281; May 4; Serial No. 457,562; published Feb. 23, 1943.
Shoes. London Shoe Co. 170,717; renewed July 24, 1943.
Underwear, Ladies'. Gottlieb Brothers, Manufacturers of Silk Underwear, Inc. 401,308; May 4.

CLASS 40

Beads. Nelson Bead Company. 172,236; renewed Aug. 28, 1943;

CLASS 42

Cloths, Woolen. S. Stein & Co. 173,213; renewed Sept. 18, 1943.
Piece goods and cotton goods, Cotton. James Nelson, Limited. 165,591; renewed Mar. 13, 1943.
Piece goods, Rayon. Cantor Greenspan Co. 401,304; May 4.
Piece goods, Woolen. Forstmann & Huffmann Company. 166,945; renewed Apr. 17, 1943.

CLASS 43

Yarns. Celanese Corporation of America. 401,297; May 4.
Yarns. B. Ulmann Co. Inc. 172,848-9; renewed Sept. 11, 1943.
Yarns. Bernhard Ulmann Co., Inc. 401,298; May 4.

CLASS 44

Corsets, corset belts, bust supporters, etc., Elastic. F. Longdon & Company, Limited. 164,278; renewed Feb. 20, 1943.
Nebulizers and syringes. Parke, Davis & Company. 171,359; renewed Aug. 7, 1943.

CLASS 46

Candies. Mason, Au & Magenheimer Confectionery Manufacturing Company. 170,155; renewed July 10, 1943.
Candy. J. N. Collins Company. 165,540; renewed Mar. 13, 1943.
Canned chopped ham. Ready Foods Canning Corp. 401,306; May 4.
Canned fish. Oxnard Canners, Inc. 401,289; May 4; Serial No. 457,863; published Feb. 23, 1943.
Canned fish, fruit and vegetables. A. F. Kittle. 172,871; renewed Sept. 11, 1943.
Canned fruit and vegetables and dried fruits. Barron-Gray Packing Company. 173,089; renewed Sept. 18, 1943.
Canned fruit and vegetables and dried fruit. Barron-Gray Packing Company. 173,130; renewed Sept. 18, 1943.
Canned fruits, canned vegetables, canned fish, etc. G. Sclafani. 401,243; May 4; Serial No. 455,314; published Feb. 23, 1943.
Canned fruits, fruit salad, and vegetables, and dried fruits. F. G. Wool Packing Co., Inc. 171,184; renewed July 31, 1943.
Canned salmon. New England Fish Company. 401,285; May 4; Serial No. 457,640; published Feb. 23, 1943.
Cantaloupes, Fresh. T. H. Peppers. 170,118; renewed July 10, 1943.
Crackers or biscuits. Pennsylvania Baking Company. 168,924; renewed May 29, 1943.
Extracts an dcoffee, Food flavoring. C. A. Murdock Mfg. Co. 172,978; renewed Sept. 11, 1943.
Fish products, canned goods, and other groceries. Burnham & Morrill Company. 173,016; renewed Sept. 11, 1943.
Flour, Wheat. Pfeffer Milling Company. 167,427; renewed May 1, 1943.
Grapes and fresh citrus fruits, Fresh. G. Zaninovich. 401,268; May 4; Serial No. 457,182; published Feb. 23, 1943.
Ice cream. J. M. Gries. 173,274; renewed Sept. 8, 1943.
Invertase used in making sugar syrups. American Burtonizing Company and Wallerstein Laboratories. 169,208; renewed June 12, 1943.
Milk, Fresh. Matthews Selected Dairies Company. 167,237; renewed Apr. 24, 1943.
Milk, Powdered. Merrell-Soule Company. 173,222; renewed Sept. 18, 1943.
Oil, Olive. G. Sensat. 164,118; renewed Feb. 13, 1943.
Popped corn, Flavored. M. J. Batelja. 401,259; May 4; Serial No. 456,915; published Feb. 23, 1943.
Pork luncheon meat. Ready Foods Canning Corp. 401,305; May 4.
Soup mixtures, Dehydrated. B. T. Babbitt, Inc. 401,273; May 4; Serial No. 457,360; published Feb. 23, 1943.
Vegetables, and dehydrated prepared soups, Dehydrated. Ivanhoe Foods, Inc. 401,277; May 4; Serial No. 457,419; published Feb. 23, 1943.
Vegetables, Fresh. Arizona Farms. 401,287; May 4; Serial No. 457,713; published Feb. 23, 1943.
Yeast cakes. Reel Products Company. 171,355; renewed Aug. 7, 1943.

CLASS 47

Wines. Acampo Winery and Distilleries, Incorporated. 401,230; May 4; Serial No. 446,985; published Dec. 23, 1941.
Wines. American B. D. Company. 401,295; May 4.
Wines. California Growers Wineries. 401,272; May 4; Serial No. 457,271; published Feb. 16, 1943.
Wines. Western Wine Corporation. 401,249; May 4; Serial No. 456,376; published Feb. 16, 1943.

CLASS 48

Dextrinous sirup. American Burtonizing Company and Wallerstein Laboratories. 171,140; renewed July 31, 1943.

CLASS 49

Brandy. Shewan-Jones, Inc. 401,266; May 4; Serial No. 457,054; published Feb. 16, 1943.
Whisky. G. F. Heublein & Bro. 401,242; May 4; Serial No. 455,159; published Feb. 23, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Dunham, George W., Westport, Conn., assignor to General Electric Company. Washing machine. Re. 22,307; May 4.

General Electric Company. (See Dunham, George W., assignor.)

LIST OF PLANT PATENTEES

Fox, Carl B., Tulsa, Okla. Peach. 580; May 4.

Howard, Frederick H., Montebello, Calif. Rose plant. 581; May 4.

LIST OF DESIGN PATENTEES

Agosta, Salvatore, Akron, Ohio. Broom holder. 135,636; May 4.
Aro Equipment Corporation, The. (See Ginter, Charles W., assignor.)
Basescu, Arthur, Brooklyn, N. Y. Statuette. 135,608; May 4.
Bell Telephone Laboratories, Incorporated. (See Lum, George R., assignor.)
Betesh, Charles I., New York, N. Y. Tablecloth or similar article. 135,637; May 4.
Betesh, Charles I., New York, N. Y. Tablecloth or similar article. 135,638; May 4.
Brown, Arthur T., Tucson, Ariz. House. 135,609; May 4.
Bryant Engineering Corporation. (See Bryant, Raymond W., assignor.)
Bryant, Raymond W., Bellwood, Ill., assignor to Bryant Engineering Corporation, Spokane, Wash. Hydraulic control unit. 135,626; May 4.
Calnan, James P., Belmont, Mass. Crucifix or similar article. 135,610; May 4.
Cohn, Julius, New York, N. Y. Brassière. 135,639; May 4.
Coppola, Frank J., East Douglas, Mass. Binding post. 135,640; May 4.
Crane Co. (See Stark, J. E., and Schmidt, assignors.)
De Ganahl, Frank, Riverton, N. J., assignor, by mesne assignments, to Kaiser Cargo, Inc. Badge. 135,611; May 4.
Electric Service Supplies Company. (See Hallman, Eric B., assignor.)
Eskind, Morris, New York, N. Y. Hood. 135,641; May 4.
Fletcher, Richard H., Jr., Bay City, Mich. Gasoline station. 135,612; May 4.
Ginter, Charles W., assignor to The Aro Equipment Corporation, Bryan, Ohio. Combined meter and pump housing or the like. 135,627; May 4.
Giovagnoni, Violet, New York, N. Y. Trouser-skirt. 135,642; May 4.
Hallman, Eric B., assignor to Electric Service Supplies Company, Philadelphia, Pa. Lighting fixture. 135,613; May 4.
Heiman, Sidney J., St. Louis, Mo. Flue cap. 135,628; May 4.
Hochberg, Albert, New York, N. Y. Dress. 135,614; May 4.
Kaiser Cargo, Inc. (See de Ganahl, Frank, assignor.)
Kalina, Leon, New York, N. Y. Pin or similar article. 135,615; May 4.
Kalisher, Benjamin, Poughkeepsie, assignor to Wood-Flex Fashions Inc., New York, N. Y. Handbag. 135,603; May 4.
Kalisher, Benjamin, Poughkeepsie, assignor to Wood-Flex Fashions Inc., New York, N. Y. Handbag. 135,604; May 4.
Kalisher, Benjamin, Poughkeepsie, assignor to Wood-Flex Fashions Inc., New York, N. Y. Handbag. 135,605; May 4.
Kalisher, Benjamin, Poughkeepsie, assignor to Wood-Flex Fashions Inc., New York, N. Y. Handbag. 135,606; May 4.
Kalisher, Benjamin, Poughkeepsie, assignor to Wood-Flex Fashions Inc., New York, N. Y. Handbag. 135,607; May 4.
Kanter, Edward, Cleveland Heights, Ohio. Cigarette pack holder. 135,621; May 4.
Kanter, Edward, Cleveland Heights, Ohio. Cigarette pack holder. 135,622; May 4.
Kanter, Edward, Cleveland Heights, Ohio. Cigarette pack holder. 135,623; May 4.
Kanter, Edward, Cleveland Heights, Ohio. Cigarette pack holder. 135,624; May 4.
Kanter, Edward, Cleveland Heights, Ohio. Cigarette pack holder. 135,625; May 4.
Karoff, Mary S., New York, N. Y. Container. 135,616; May 4.
Klauber, Siegfried, New York, N. Y. Textile fabric. 135,602; May 4.
Lentheric, Incorporated. (See McIntosh, Frank, assignor.)
Lum, George R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone booth. 135,617; May 4.
McIntosh, Frank, assignor to Lentheric, Incorporated, New York, N. Y. Talc container or the like. 135,618; May 4.
Michael, William E., Chicago, Ill. Clasp. 135,629; May 4.
Naranick, Nicholas T., U. S. Army, Casper, Wyo. Ration container. 135,619; May 4.
Naranick, Nicholas T., U. S. Army, Casper, Wyo. Ration container. 135,630; May 4.
Naranick, Nicholas T., U. S. Army, Casper, Wyo. Ration container. 135,631; May 4.
Nielsen, George B., Staten Island, N. Y. Jewelry finding or the like. 135,620; May 4.
Raymundo, Francisco V., Attleboro, Mass. Combination paperweight and stamp dispenser. 135,643; May 4.
Renke, Natalie, New York, N. Y. Combined helmet and cape. 135,632; May 4.
Schmidt, Edward G. (See Stark, J. E., and Schmidt.)
Stahl, Harold H., New York, N. Y. Dress. 135,644; May 4.
Stark, Julian E., Wilmette, and E. G. Schmidt, assignors to Crane Co., Chicago, Ill. T-pipe fitting. 135,633; May 4.
Stark, Julian E., Wilmette, and E. G. Schmidt, assignors to Crane Co., Chicago, Ill. Elbow pipe fitting. 135,634; May 4.
Von Burg, Emil, New York, N. Y. Combination wrist watch and compass and strap therefor. 135,635; May 4.
Wiener, Jack, New York, N. Y. Embroidered lace. 135,645; May 4.
Wiener, Jack, New York, N. Y. Embroidered lace. 135,646; May 4.
Wood-Flex Fashions Inc. (See Kalisher, Benjamin, assignor.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories, et al. (See King, C. G., and White, assignors.)
Ace Carton Corporation. (See Berg, Edward C., assignor.)
Addison, Harry W., Jr., Marshall, Minn. Automatic control for fluid transmissions. 2,318,187; May 4.
Aetna Standard Engineering Company, The. (See Matteson, E. A., and Strock, assignors.)
Alexander, Felix J. (See Joseph, Felix A.)
Alexander, Samuel T., assignor of one-third to P. E. Richardson, Los Angeles, Calif. Door check. 2,318,041; May 4.
Alexay, Adalbert, Schenectady, N. Y., assignor to General Electric Company. Shaver. 2,318,351; May 4.
Alfery, Henry F., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Safety shutoff and control device. 2,318,136; May 4.
Alien Property Custodian. (See Jacquier, Pierre.)
Alien Property Custodian. (See Nallinger, Fritz.)
Alimansky, Max I., Pittsfield, Mass., assignor to General Electric Company. Capacitor construction and circuit arrangement for polyphase circuits. 2,317,970; May 4.
Alink, Roelof J. H., Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Light-sensitive diazotype layers and making same. 2,318,352; May 4.
Allied Chemical & Dye Corporation. (See Flett, Lawrence H., assignor.)
Allied Chemical & Dye Corporation. (See Talbert, Guy W., assignor.)
All Purpose Gold Corporation. (See Quick, Frederick A., assignor.)
Aluminum Company of America. (See McFadden, Benjamin C., assignor.)
Allshouse, Harry A., Kansas City, Mo., A. D. Button, and R. W. Frazier, assignors to The Wichita Casket Company, Wichita, Kans. Casket. 2,318,353; May 4.
American Brake Shoe and Foundry Company, The. (See Harris, Leonard T., assignor.)
American Brake Shoe and Foundry Company, The. (See Nagle, Perry I., assignor.)
American Cyanamid Company. (See Booth, Robert B., assignor.)
American Cyanamid Company. (See Ripper, Kurt E., assignor.)
American Enka Corporation. (ee Bouhuys, Aleidus G., assignor.)
American Enka Corporation. (See Thurmond, G. I., Jacokes, and Brenner, assignors.)
American Floor Surfacing Machine Company, The. (See Vavrik, L., and Atkin, assignors.)
American Hyalsol Corporation. (See Bertsch, H., and Schmitt, assignors.)
American Pulley Company. (See Renton, Henry N., assignor.)
American Teletimer Corp. (See Belock, Harry D., assignor.)
Anderson, Clarence T. (See Dean, R. S., and Anderson.)
Anderson, Ralph L., and C. R. Arnold, assignors to Deere & Company, Moline, Ill. Harvesting machine. 2,318,188; May 4.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Tabulating mechanism for accounting machines. 2,318,448; May 4.
Andrea, Agnes L. (See Sykes, G. A., and Andrea.)
Anemotstat Corporation of America. (See Honerkamp, F., Self, and Kurth, assignors.)
Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental equipment stand. 2,317,971; May 4.
Angiesr Products, Inc. (See Spraragen, Louis, assignor.)
Anjeskey, Alphonse F., Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Monorail tractor. 2,318,354; May 4.
Arden, Thomas R., Danbury, Conn. Timer for electrical systems. 2,317,960; May 4.
Aridor Company, The. (See Fleisch, Joseph R., assignor.)
Armstrong, Edwin H., New York, N. Y. Receiving radio signals. 2,318,137; May 4.
Arnold, Chester R. (See Anderson, R. L., and Arnold.)
Arnold, George T., Auburn, assignor of fifty per cent to C. N. Wonacott, New York, N. Y. Envelope. 2,318,278; May 4.
Art Metal Works, Inc. (See Harris, Alexander, assignor.)

Aschwanden, Karl, Berlin-Wittenau, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,318,042; May 4.
Aschwanden, Karl, Berlin-Wittenau, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Compensating arrangement for thermal relays. 2,318,279; May 4.
Ash, Charles S., Milford, Mich. Automotive vehicle. 2,317,972; May 4.
Ashworth, James E. (See Schick, E. L., and Ashworth.)
Associated Telephone & Telegraph Company. (See Taylor, R., and Baker, assignors.)
Atkin, Kenneth C. (See Vavrik, L., and Atkin.)
Austin, Bascum O., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,318,043; May 4.
Automatic Products Company. (See Heiser, Ferdinand F., assignor.)
Automatic Products Company. (See Johnson, R. W., and Zarwell, assignors.)
Axelson Manufacturing Company. (See Emery, F. C., and Green, assignors.)
Babcock & Wilcox Company, The. (See Harter, I., Norton, and Norton, Jr., assignors.)
Bachmann, Richard H. (See Burdick, Ephraim, assignor.)
Bacon, Thomas P., Sr. (See Lynch, Ernest E., assignor.)
Bailey, Robert M., assignor to Willard Storage Battery Company, Cleveland, Ohio. Switch operating means. 2,318,355; May 4.
Baker, George T. (See Taylor, R., and Baker.)
Bakken, Andrew H., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,318,044; May 4.
Ball, Oscar, Hewlett, N. Y. Spring locking screw bolt. 2,318,356; May 4.
Balleisen, Charles E., Philadelphia, Pa. Cartridge belt. 2,317,973; May 4.
Barreto, Ramón G., Habana, Cuba. Collar clip. 2,318,045; May 4.
Barton, William A. (See Lane, H., and Barton.)
Bartsch, Herbert E. (See Camp, P. B., and Bartsch.)
Bastiansen, Otto, Woodhaven, N. Y., assignor to The A. C. Gilbert Company, New Haven, Conn. Pseudo steam puffing apparatus for toy trains. 2,317,974; May 4.
Baumann, Henry N., Jr. (See Benner, Raymond C., and Baumann.)
Beattie Products, Inc. (See Phillips, Francis L., assignor.)
Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Clutch. 2,318,357; May 4.
Bedford, Alexander W., Jr., Schenectady, N. Y., assignor to General Electric Company. Condition control system. 2,318,358; May 4.
Beeh, Louis, Long Meadow, Mass. Delivery valve. 2,318,449; May 4.
Bein, Philip. (See Flanzer, J. A., and Bein.)
Bell Aircraft Corporation. (See Trotter, John C., assignor.)
Bell & Howell Company, The. (See Stechbart, Bruno, assignor.)
Bell Telephone Laboratories, Incorporated. (See Drake, Percy B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hoyt, Leon G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Husta, P., and Wagenseil, assignors.)
Bell Telephone Laboratories, Incorporated. (See Lang, Wilmarth Y., assignor.)
Bell Telephone Laboratories, Incorporated. (See Leveridge, Walter J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mills, Percy E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Pierce, John R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Samuel, Arthur L., assignor.)
Bellows, Guy, Jr., Erie, Pa., assignor to General Electric Company. Electromagnet. 2,318,359; May 4.
Belluche, Elmer W. and F. R., assignors to Christensen Machine Company, Racine, Wis. Sheet delivery. 2,318,451; May 4.
Belluche, Frank R. (See Belluche, Elmer W. and F. R.)
Belock, Harry D., Richmond Hill, assignor to American Teletimer Corp., New York, N. Y. Timing system. 2,318,450; May 4.

Bench, David E. (See Wintermute, G. J., and Bench.)
Bendix Aviation Corporation. (See Kearney, Daniel P., assignor.)
Benfer, Richard W., Los Angeles, Calif., assignor to Western Electric Company, Incorporated. Sound recorder monitoring means. 2,318,138; May 4.
Benner, Raymond C., and H. N. Baumann, Jr., assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive. 2,318,360; May 4.
Bennett, William C., West Chester, and W. Melas, assignors to Cochrane Corporation, Philadelphia, Pa. Metering system. 2,318,280; May 4.
Berberich, Leo J. (See Hill, C. F., and Berberich.)
Berg, Edward C., Chicago, assignor to Ace Carton Corporation, Cicero, Ill. Shipping and display carton. 2,318,452; May 4.
Berman, Morris, Chicago, Ill. Vehicle radiator shield. 2,318,189; May 4.
Bernard, Nelson W., assignor of one-fourth to C. J. and one-fourth to B. J. Gilbert, Danville, Va. Spring motor. 2,318,453; May 4.
Berner, Leo, San Jose, assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif. Earth moving equipment. 2,318,190; May 4.
Bersworth, Frederick C., Verona, assignor to The Martin Dennis Company, Newark, N. J. Treating protein. 2,318,046; May 4.
Bertsch, Heinrich, Rabenstein, and F. Schmitt, Chemnitz, Germany, assignors to American Hyalsol Corporation, Wilmington, Del. Washing and deliming composition for limed hides. 2,318,454; May 4.
Bird, George H., Brooklyn, N. Y. Vehicle signal and switch mechanism. 2,318,281; May 4.
Bischoff, Alfred F., Milford, Conn., assignor to General Electric Company. Loop assembly. 2,318,361; May 4.
Bitter, John L. (See Jones, F. J., and Bitter.)
Björkman, John A., Johannesburg, South Africa, assignor to Imperial Chemical Industries Limited. Fuse anchor. 2,318,282; May 4.
Blabon, Sloane. (See Gans, Fred W., assignor.)
Black, John F., assignor to Circo Products Company, Cleveland, Ohio. Degreaser. 2,318,455; May 4.
Blackstock, Gibbs, Toronto, Ontario, Canada. Self-locking freewheel clutch. 2,318,283; May 4.
Bliss Company, E. W. (See Durbin, Stanley H., assignor.)
Bloodgood, Alonzo J., Middlebury, Conn. Binder guide or folder for sewing machines. 2,318,047; May 4.
Bloomfield, Sam, Wichita, Kans. Riveting mechanism. 2,318,191; May 4.
Blum, Arthur N., Philadelphia, Pa. Cutting chain sharpener. 2,318,456; May 4.
Boath, Howard E., and C. F. MacNish, St. Louis, Mo., and H. Cole, Memphis, Tenn. Hydraulic gate construction. 2,317,975; May 4.
Boddy, Edwin H., Erie, Pa., assignor to General Electric Company. Storage drawer assembly. 2,318,363; May 4.
Bodkin, William N., Panoa, Pa. Automatic program control mechanism. 2,318,048; May 4.
Boeglen, Durwood L., Washington, D. C., and E. P. Lockart, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Wall construction. 2,318,362; May 4.
Boelema, Jacob, Jr., Grand Rapids, Mich. Combination loose leaf notebook, paper container, and accessory kit. 2,318,192; May 4.
Boman, Thomas G., Grand Rapids, Mich. Ironing cord holder. 2,317,976; May 4.
Bond, John R. (See Greenlee, H. R., Britton, and Bond.)
Boosey, Edward W. N., Detroit, Mich. Pipe coupling. 2,318,049; May 4.
Booth, Robert B., Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y. Drilling mud. 2,318,284; May 4.
Boren, John W., Marinette, Wis. Hospital table. 2,318,458; May 4.
Boston Woven Hose & Rubber Company. (See Walton, J. C., and G. E. Hall, assignors.)
Bostwick, Myron A., Budd Lake, and R. M. Smith, Livingston, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Pilot-wire supervisory circuit. 2,318,364; May 4.
Bouhuys, Aleidus G., assignor to American Enka Corporation, Enka, N. C. Elongated structure formed from synthetic materials. 2,318,457; May 4.
Bowan, Walter J. (See Mueller, F. H., and Bowan.)
Boynton, Stanley E., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cutting apparatus. 2,318,050; May 4.
Boysen, Bigelow, Chicago, Ill. Dental and mouth cleansing means. 2,318,365; May 4.
Brace, Porter H., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Coupling between shafts and wheels. 2,318,051; May 4.
Bradley, Percy R., Eccleston Park, Prescot, England. Machine for pressure casting of materials. 2,318,366; May 4.
Bradley, Robert I., Belmont, Mass. Temperature measuring instrument. 2,318,459; May 4.
Brady, John J., Providence, R. I. Attachment for micrometer calipers. 2,318,285; May 4.
Bramble, John H., Sharpsville, and M. Dunn, Sharon, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Grinding butt joints of wound cores. 2,318,052; May 4.
Brandtjen & Kluge, Inc. (See Kluge, Eneval, assignor.)
Branham, Martin, Pound, Va. Pick. 2,318,193; May 4.
Brenner, Edward. (See Thurmond, G. I., Jacokes, and Brenner.)
Brey, Harold E., Wauwatosa, and H. E. Swanson, Milwaukee, Wis. Traction brake. 2,318,286; May 4.
Brief, Samuel, New York, N. Y. Maraca. 2,318,460; May 4.
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Briggs & Stratton Corporation. (See Fitz Gerald, John W., assignor.)
Brigg, John E., Rickmansworth, England, assignor to Okonite Callender Cable Company Inc., Paterson, N. J. Insulated electric conductor. 2,318,367; May 4.
Britton, Loren D. (See Greenlee, H. R., Britton, and Bond.)
Brolin, Arthur F., Baltimore, Md. Film splicing. 2,318,287; May 4.
Broughton, Arthur E., Glens Falls, N. Y. Spraying device for paper machines. 2,318,368; May 4.
Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Automatic depth controlling mechanism. 2,318,194; May 4.
Bruning, Charles, Co. (See Streich, Paul B., assignor.)
Brusse, Lester W., Houston, Tex. Wall joint construction. 2,318,053; May 4.
Brussell, Jacob, New York, N. Y. Button holder. 2,318,369; May 4.
Budd Wheel Company. (See Strickland, Harold A., Jr., assignor.)
Bulger, Alvin Q., Belle Vernon, Pa. Curtain stretcher. 2,318,288; May 4.
Bunker, Elizabeth E., Minneapolis, Minn. Holder for displaying and mailing handkerchiefs and the like. 2,318,461; May 4.
Burch, Woodrow M., assignor of three-fourths to M. Kasner, Oklahoma City, Okla. Oil well drilling bit. 2,318,370; May 4.
Burdick, Ephraim, assignor of one-half to R. H. Bachmann, Madison, Ohio. Apparatus for filling oil drums or the like. 2,318,462; May 4.
Burkholder, Noah N. (See Martin, Ivan Z., assignor.)
Bushman, Julius H., Willoughby, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 2,318,371; May 4.
Bussmann, Wilhelmus B., Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Production of coarse crystalline salts. 2,318,463; May 4.
Button, Albert D. (See Allshouse, H. A., Button and Frazier.)
Buxbaum, Edwin C. (See Lulek, R. N., and Buxbaum.)
Calabrese, Gio, New York, N. Y. Toy piston. 2,318,139; May 4.
Caldwell, Eugene, Whitefish Bay, assignor to Wrought Washer Mfg. Co., Milwaukee, Wis. Counter operating mechanism and control. 2,318,372; May 4.
California Fruit Growers Exchange. (See Collins, Frank H., assignor.)
California Portland Cement Company. (See Hanna, W. C., H. E. Kaiser and A. Harvey, assignors.)
Calvert, Bert S., Los Angeles, Calif. Splice for joints. 2,318,054; May 4.
Cameron, Walter G., and T. H. Morton, Braintree, assignors to Courtaulds Limited, London, England. Treatment of textile materials. 2,318,464; May 4.
Camp, Percy B., Maywood, and H. E. Bartsch, Chicago, Ill., assignors to Universal Railway Devices Company. Hand brake. 2,318,569; May 4.
Campbell Soup Company. (See Duerig, Alfred E., assignor.)
Canadian Industries Limited. (See McHaffie, Ivan R., assignor.)
Cantral, John I. (See Silver, W. H., and Cantral.)
Cantzler, Adolf. (See Mueller-Cunradi, M., Cantzler, and Krekeler.)
Carbide and Carbon Chemicals Corporation. (See Jehle, Leon P., assignor.)
Carbonic Control Corporation. (See Heisler, Glenn D., assignor.)
Carborundum Company, The. (See Benner, R. C., and Baumann, assignors.)
Carlton, Richard P., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Manufacture of abrasives. 2,318,570; May 4.
Carlton, Richard P., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Manufacture of abrasives. 2,318,571; May 4.
Carter, William W., Kansas City, Mo. Match book. 2,318,289; May 4.
Casellini, Ezio T., Salem, Mass., assignor to Sylvania Electric Products, Inc. Luminescent coating for electric lamps. 2,317,977; May 4.
Cate, Paul E., assignor to The Fulton Sylphon Company. Knoxville, Tenn. Ignition system. 2,318,195; May 4.
Cejka, Leo A. (See Thompson, G. L., and Cejka.)
Celanese Corporation of America. (See Steinberger, Alfred J., assignor.)

Celanese Corporation of America. (See Whitehead, William, assignor.)
Century Motors Corporation. (See Smith, Frank M., assignor.)
Challet, Etienne, Bern, assignor of one-fourth to the firm Entreprises Electriques Fribourgeoises, Fribourg, Switzerland. Combination switch for the control of electro-thermal apparatus. 2,318,055; May 4.
Chandler-Evans Corporation. (See Chandler, Milton E., assignor.)
Chandler-Evans Corporation. (See Schlosser, Arthur G., assignor.)
Chandler, Milton E., New Britain, Conn., assignor to Chandler-Evans Corporation. Fluid pump. 2,318,292; May 4.
Chenicek, Joseph A., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,318,196; May 4.
Cherry, Robert A. (See Petzold, E. H., Jr., and Cherry.)
Chicago Carton Company. (See Clarke, John D., assignor.)
Chicago Coin Machine Co., (not Inc.) See La Rock, Pat, assignor.)
Chicago Development Company. (See Dean, R. S., and Anderson, assignors.)
Chollar, Robert G., assignor to The National Cash Register Company, Dayton, Ohio. Printing means. 2,318,465; May 4.
Christensen Machine Company. (See Belluche, Elmer W. and Frank R., assignors.)
Christiance, Harry C., assignor of one-half to J. Vogler, East Moline, Ill. Corn picker. 2,318,291; May 4.
Christine Association, Inc. (See Clarke, Vernie E., assignor.)
Christman, Peter J., Green Bay, Wis. Winding apparatus. 2,318,056; May 4.
Chromogen, Incorporated. (See Michaelis, Walter, assignor.)
Ciba Pharmaceutical Products, Incorporated. (See Ruzicka, Leopold, assignor.)
Ciba Products Corporation. (See Widmer, G., and Fisch, assignors.)
Cincinnati Bickford Tool Company, The. (See Schauer, L. L., and McKewen, assignors.)
Cincinnati Bickford Tool Company, The. (See Schauer, Lawrence L., assignor.)
Circo Products Company. (See Black, John F., assignor.)
Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Nonresinous condensation product. 2,318,373; May 4.
Clark, William R., Abington, assignor to Leeds and Northrup Company, Philadelphia, Pa. Visual indicator. 2,318,140; May 4.
Clark, William R., Abington, assignor to Leeds and Northrup Company, Philadelphia, Pa. Visual indicator. 2,318,197; May 4.
Clarke, John D., assignor to Chicago Carton Company, Chicago, Ill. Angular-walled carton. 2,318,198; May 4.
Clarke, Vernie E., Los Angeles, Calif., assignor to Christine Association, Inc. Combination crusher and grinder. 2,318,290; May 4.
Clements, Roy W., assignor to Globe Knitting Works, Grand Rapids, Mich. Undergarment for horseback riding. 2,318,199; May 4.
Cleveland Crane & Engineering Company, The. (See Anjeskey, Alphonse F., assignor.)
Clopay Corporation. (See Snyder, Harry F., assignor.)
Cobble, Albert. (See Cobble, Joseph, and Albert.)
Cobble, Joseph and A., Chattanooga, Tenn., assignors to Gerhardt H. Rauschenberg, Dalton, Ga. Automatic cutoff for sewing machines. 2,318,200; May 4.
Cochrane Corporation. (See Bennett, W. C., and Melas, assignors.)
Cohen, Arthur M., New Rochelle, N. Y. Control device for fluorescent lamps. 2,318,057; May 4.
Colburn, Richard R., Minneapolis, Minn. Building unit and construction made therefrom. 2,318,058; May 4.
Cole, Harry. (See Booth, H. E., MacNish and Cole.)
Collins & Aikman Corporation. (See Keen, William R., assignor.)
Collins, Frank H., Orange, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Apparatus for preserving juice. 2,318,141; May 4.
Colman, Wallace, and H. L. J. Haller, Washington, D. C., assignors to C. R. Wickard, as Secretary of Agriculture of the United States of America and to his successors in office. Mothproofing composition. 2,318,201; May 4.
Colt's Patent Fire Arms Manufacturing Company. (See Webb, George, assignor.)
Columbia Broadcasting System, Inc. (See Goldmark, Peter C., assignor.)
Colvin, Nolan D., and C. J. Frederiksen, assignors to Deere & Company, Moline, Ill. Tractor mower. 2,318,202; May 4.
Commonwealth Engineering Company of Ohio, The. (See Wintermute, G. J., and Bench, assignors.)
Conmar Products Corporation. (See Wintritz, George, assignor.)
Continental Machines, Incorporated. (See Wilkie, James W., assignor.)
Coogan, John H., West Warwick, assignor to Cranston Print Works Company, Cranston, R. I. Textile printing apparatus for printing one or both sides of fabrics. 2,318,374; May 4.
Cooper, Ernest, Bartlesville, Okla. Protecting apron for well tubing. 2,318,466; May 4.
Cooper, Frank T., Cincinnati, Ohio. Kneeling dolly. 2,318,059; May 4.
Copeman, Lloyd G., Metamora, Mich. Clothesline. 2,318,375; May 4.
Cornell Machine Company, The. (See Cornell, Mead, assignor.)
Cornell, Mead, assignor to The Cornell Machine Company, Cleveland, Ohio. Material treating process and apparatus. 2,318,293; May 4.
Cortese, Thomas M., East Orange, N. J. Applying luminescent material. 2,318,060; May 4.
Cortese, Thomas M. (See Kober, Paul A., and Cortese.)
Cottrell, C. B., & Sons Company. (See Luehrs, Hans J., assignor.)
Courtaulds Limited. (See Cameron, W. G., and Morton, assignors.)
Cowles Company, The. (See Cowles, Edwin, assignor.)
Cowles, Edwin, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J. Conveyer apparatus. 2,317,978; May 4.
Cox, John V. B., and F. L. Thomas, Portland, Oreg., assignors to Hercules Powder Company, Wilmington, Del. Crusher. 2,318,142; May 4.
Cramer, Stanley S., Haddon Heights, N. J. Tuning structure for radio sets. 2,318,572; May 4.
Cranston Print Works Company. (See Coogan, John H., assignor.)
Creed and Company Limited. (See Thompson, A. E., and Salmon, assignors.)
Crom, John M., Jackson Heights, N. Y. Method of and apparatus for trimming excavations. 2,318,294; May 4.
Crosby, Melvin A., Dayton, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Plastic injection machine. 2,318,203; May 4.
Cross, Mark, Company. (See Smith, Elizabeth G., assignor.)
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Air bag stem. 2,318,376; May 4.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Stem connection for curing molds. 2,318,377; May 4.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Stem connection for curing molds. 2,318,378; May 4.
Cutler-Hammer, Inc. (See Hunter, R. B., and Mekelburg, assignors.)
Cutting, Herbert A., Detroit, Mich. Snow shield for automobile windows. 2,318,143; May 4.
Czapek, Emil, New York, N. Y. Manufacture of films, foils, bands, and the like from cellulose solutions. 2,318,552; May 4.
Dailey, Hampton J., Bloomfield, N. J., assignor to Westinghouse Electric Manufacturing Company, East Pittsburgh, Pa. Automatic bias circuits. 2,318,061; May 4.
Dain Manufacturing Company. (See Jones, Frank D., assignor.)
Dames & Moore. (See Dames, Trent R., assignor.)
Dames, Trent R., Pasadena, assignor to Dames & Moore, Los Angeles, Calif. Soil sampler. 2,318,062; May 4.
Daniels, Alfred P. (See Hall, Willard C., Jr., assignor.)
Darke, Francis J., Jr., Moorestown, N. J., assignor to Radio Corporation of America. Photoelectric musical instrument. 2,318,144; May 4.
Davey, Edwin B., Glendale, and E. N. Martinson, Riverside, Calif. Piston hammer for rock drills. 2,318,063; May 4.
Davidow, Melville, New York, N. Y. Jacket construction. 2,318,295; May 4.
Davis, Charles T. (See Davis, Walter S., and Charles T.)
Davis, George M., et al. (See Tewksbury, John M., assignor.)
Davis, Walter S., San Bernardino, and C. T. Davis, Los Angeles, Calif. Sterilizing and packaging sutures and the like. 2,318,380; May 4.
Davis, Walter S., San Bernardino, and C. T. Davis, Los Angeles, Calif. Apparatus for treating and packaging sutures and the like. 2,318,381; May 4.
Davis, Walter S., San Bernardino, and C. T. Davis, Los Angeles, Calif. Suture package. 2,318,379; May 4.
Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Escapement type switch. 2,318,204; May 4.
Dean, Reginald S., and C. T. Anderson, Salt Lake City, Utah, assignors to Chicago Development Company, Chicago, Ill. Manganese-base alloy. 2,317,979; May 4.
Dean, Reginald S., and C. T. Anderson, Salt Lake City, Utah, assignors to Chicago Development Company, Chicago, Ill. Magnesium-base alloy. 2,317,980; May 4.
Deere & Company. (See Anderson, R. L., and Arnold, assignors.)
Deere & Company. (See Brown, Theophilus, assignor.)
Deere & Company. (See Colvin, Nolan D., and Frederiksen, assignors.)
Deere & Company. (See Drennan, Orville F., assignor.)
Deere & Company. (See Hyland, William A., assignor.)

Deere & Company. (See Silver, Walter H., assignor.)
Deere & Company. (See Silver, W. H., and Cantral, assignors.)
Deere & Company. (See Westerlund, Paul H., assignor.)
Deere & Company. (See White, Charles H., assignor.)
Deere, John, Tractor Company. (See Worthington, Wayne H., assignor.)
Delaney, James H., Los Angeles, Calif. Spreader. 2,318,064; May 4.
Del Llano, Jose S., assignor of one-fourth to Ricardo M. Ferrer, Habana, Cuba. Closure for non-refillable containers. 2,318,382; May 4.
De Mattia, Peter, Passaic, N. J. Hydraulic drive. 2,318,065; May 4.
Demeulenaere, Marcel and Robert, Flushing, N. Y. Automatic dial operator. 2,318,467; May 4.
Demeulenaere, Robert. (See Demeulenaere, Marcel and Robert.)
Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Adjustable heating apparatus. 2,318,468; May 4.
Derby, Elmer R., Springfield, Mass., and F. A. Parkhurst, Suffield, Conn., assignors to Monsanto Chemical Company, St. Louis, Mo. Method and apparatus for producing sheet material. 2,318,469; May 4.
De Vlieg, Gerard A., Rockford, Ill. Spindle construction. 2,317,981; May 4.
Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic agent and its applications. 2,318,296; May 4.
Diehl, Walter S., Washington, D. C., assignor to Specialties Development Corporation, Bloomfield, N. J. Inertia actuated device. 2,317,982; May 4.
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Photoelectric measuring device. 2,318,470; May 4.
Dockery, J. P., et al. (See Dockery, John T., assignor.)
Dockery, John T., assignor of one-third to J. P. Dockery and one-third to E. L. Shelton, Jackson, Miss. Gas generating apparatus. 2,318,297; May 4.
Dodd, John A., Atlanta, Ga. Hydropneumatic tank. 2,318,066; May 4.
Dodge, Adiel Y., Rockford, Ill. Friction toroidal transmission. 2,318,471; May 4.
Dodge Chemical Company, The. (See McDonald Louis, assignor.)
Dodge Manufacturing Corporation. (See Firth, David, assignor.)
Dorfman, Hiller D., Forest Hills, and G. J. Freese, East McKeesport, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,318,298; May 4.
Dostal & Lowey Co. (See Read, Philip C., assignor.)
Doty, Charles R., Yonkers, assignor to International Business Machines Corporation, New York, N. Y. Intercontrolled typewriter-punching machine. 2,318,299; May 4.
Dow Chemical Company. (See Grether, Ernest F., assignor.)
Drake, Percy B., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switch wiper spring and replacement thereof. 2,318,383; May 4.
Drennan, Orville F., assignor to Deere & Company, Moline, Ill. Planting and fertilizing means. 2,318,205; May 4.
Duerig, Alfred E., Haddonfield, assignor to Campbell Soup Company, Camden, N. J. Conveyer release mechanism. 2,318,567; May 4.
Dunn, Michael. (See Bramble, J. H., and Dunn.)
Dunn, William C. (See Denneen, F. S., and Dunn.)
Du Pont, E. I., de Nemours & Company. (See Henke, C. O., and Etzel, assignors.)
Du Pont, E. I., de Nemours & Company. (See Lulek, R. N., and Buxbaum, assignors.)
Du Pont, E. I., de Nemours & Company. (See Smith, Joseph E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Stallmann, Otto, assignor.)
Du Pont, E. I., de Nemours & Company. (See Waldron, William R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Wentz, William M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Werntz, James H., assignor.)
Durbin, Stanley H., assignor to E. W. Bliss Company, Brooklyn, N. Y. Mechanism for operating switches. 2,318,300; May 4.
Durion Company, Inc., The. (See Parsons, J. A., and Ryder, assignors.)
Dwyer, Thomas F., Jr., Cambridge, and D. W. Gray, Everett, assignors to Fabreeka Products Company, Inc., Boston, Mass. Draft appliance. 2,318,472; May 4.
Earley, Andrew J., Cambria, Va. Nut lock. 2,318,473; May 4.
Eastman Kodak Company. (See Dickey, Joseph B., assignor.)
Eastman Kodak Company. (See Malm, Carl J., assignor.)
Eastman Kodak Company. (See Thompson, Benjamin, assignor.)
Ebbert, Daniel F., Wheeling, W. Va. Chair. 2,318,067; May 4.
Eger, Ernst, Grosse Pointe Park, Mich., assignor to United States Rubber Company, New York, N. Y. Bullet resisting armor. 2,318,301; May 4.
Eiane, Halvor O., Washington Island, Wis. Radial connecting rod. 2,318,474; May 4.
Eisemann Magneto Corporation. (See Tabb, Warner T., assignor.)
Eisenlohr, Gustav W., Wyoming, assignor to The M. Werk Company, St. Bernard, Ohio. Apparatus for treating liquids flowing through heated tubes. 2,318,206; May 4.
Elastic Stop Nut Corporation. (See Hungerford, Daniel C., assignor.)
Electrolux Corporation. (See Lofgren, Gustaf E., assignor.)
Electro Motive Manufacturing Company. (See Flanzer, J. A., and Bein.)
Ellis, Francis C., Chicago, Ill. Electrode. 2,318,207; May 4.
Ellner, Abraham, Brooklyn, N. Y. Collapsible baby's high chair. 2,318,475; May 4.
Elsner, Richard, and J. Rebhan, Nuremberg, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical winding. 2,318,068; May 4.
Emery, Frank C., Los Angeles, and E. F. Green, Lynwood, assignors to Axelson Manufacturing Co., Los Angeles, Calif. Flame hardening tubular structures. 2,318,145; May 4.
Entreprises Electriques Fribourgeoises. (See Challet, Etienne, assignor.)
Erhardt, Edward A., Mission Beach, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Door lock. 2,318,146; May 4.
Ericson, Eric O., Duluth, Minn. Ski. 2,318,147; May 4.
Escher Wyss Maschinenfabriken Aktiengesellschaft. (See Keller, Curt, assignor.)
Ettelbrick, Nicholas, Sr. and Jr., Greenup, Ill. Shoe. 2,318,148; May 4.
Ettelbrick, Nicholas, Jr. (See Ettelbrick, Nicholas, Sr. and Jr.)
Etzel, Gastao. (See Henke, C. O., and Etzel.)
Evans Products Company. (See Evans, R. B., Farrell, and Schueder, assignors.)
Evans, Robert B., Grosse Pointe, E. F. Farrell, and G. M. Schueder, assignors to Evans Products Company, Detroit, Mich. Space heater. 2,318,476; May 4.
Fabian, Constantine F., Brookfield, and J. B. Lee, assignors to Lee Bros. Hats, Inc., Danbury, Conn. Process of and composition for waterproofing permeable material. 2,318,302; May 4.
Fabreeka Products Company. (See Dwyer, T. F., Jr., and Gray, assignor.)
Farrell, Eugene F. (See Evans, R. B., Farrell, and Schueder.)
Ferman, Sidney, Bronx, N. Y. Ash receiver. 2,318,149; May 4.
Ferrer, Richards M. (See del Llano, Jose S., assignor.)
Filander, Arthur H. (See Woodward, W. E., and Filander.)
Filer & Stowell Co. (See Kahr, Martin, assignor.)
Findlater, Stevenson, Pittsburgh, Pa., assignor to National Tube Company. Producing shell forgings and the like. 2,318,069; May 4.
First, George B., and H. Grotewold, Philadelphia, assignors to Stokes and Smith Company, Summerdale, Pa. Carton feeding and filling system. 2,318,208; May 4.
Firth Carpet Company. (See Wadely, H. E., Matthews, and Rice, assignors.)
Firth, David, South Bend, assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Shaft bearing. 2,318,477; May 4.
Fisch, Willi. (See Widmer, G., and Fisch.)
Fischer, William L., Philadelphia, Pa. Torsional vibration dampener. 2,317,983; May 4.
Fitch, Benjamin F., Greenwich, Conn., assignor, by mesne assignments, to National Fitch Corporation, New York, N. Y. Apparatus for transferring freight. 2,317,984; May 4.
Fitch, Benjamin F., Greenwich, Conn., and R. A. Norbom, assignors to National Fitch Corporation, New York, N. Y. Demountable freight container. 2,317,985; May 4.
Fitch, Clyde J., Endwell, and K. R. Schneider, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Telegraph printer. 2,318,303; May 4.
Fitz Gerald, John W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Manually engaged engine starter. 2,318,209; May 4.
Flanzer, Joseph A., and P. Bein, assignors, by mesne assignments, to P. and J. Lauter, Willimantic, Conn., doing business under the name of The Electro Motive Manufacturing Company. Electrical condenser. 2,318,070; May 4.
Fleisch, Joseph R., Oak Park, assignor to The Aridor Company, Chicago, Ill. Jar sealing device or the like. 2,318,210; May 4.
Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical Dye Corporation. Composition of matter. 2,317,986; May 4.

Flynn, Vincent J., Palisades Park, assignor to Wardlyn Corporation, Ridgefield, N. J. Catheter. 2,317,987; May 4.

Fogg, Gordon, et al. (See Hicks, Lewis E., assignor.)

Foord, Stanley G., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Stabilization of styrene. 2,318,211; May 4.

Foord, Stanley G., London, England, assignod to International Standard Electric Corporation, New York, N. Y. Stabilization of styrene. 2,318,212; May 4.

Ford, Henry, Hospital. (See Hartman, F. W., and Schelling, assignors.)

Forss, Frithiof P., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Compression riveter. 2,318,071; May 4.

Forssberg, Carl F. W., Brooklyn, N. Y. Reversible optical system. 2,317,988; May 4.

Foss, Henry O., Tacoma, Wash. Towing device and hookup. 2,318,150; May 4.

Fox, Joseph P., St. Cloud, Minn. Rope snubber. 2,318,213; May 4.

Franclare Company. (See Miller, Frank W., assignor.)

Franklin Railway Supply Company. (See Martin, Frederick W., assignor.)

Frazier, Russell W. (See Allshouse, H. A., Button, and Frazier.)

Frederiksen, Carl J. (See Colvin, N. D., and Frederiksen.)

Freese, Gerald J. (See Dorfman, H. D., and Freese.)

Friberg, Bengt F., assignor to Laclede Steel Company, St. Louis, Mo. Form for casting concrete floor beams. 2,318,214; May 4.

Fried, Jerome A., Ithaca, N. Y. Toolmaker's compass. 2,318,384; May 4.

Fried, Samuel W., et al trustees. (See Warner, M. P., and Liese.)

Froid Laboratories, Inc. (See Hoop, Fred R., assignor.)

Fronefield, Louis H. (See Nichol, F. W., and Fronefield.)

Fulford Manufacturing Company. (See Kluger, Herman, assignor.)

Fuller Company. (See Hornbrook, Philip R., assignor.)

Fulton Sylphon Company, The. (See Cate, Paul E., assignor.)

Gagnier, George E. (See Place, Bion C., assignor.)

Gans, Fred W., assignor to Sloane Blabon, Trenton, N. J. Producing inlaid linoleum. 2,318,215; May 4.

Gardner, Frank P., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Die insert. 2,318,478; May 4.

Gardner, Henry A., Jr., Bethesda, Md. Oiticica oil product. 2,318,304; May 4.

Garretson, Owen L., Detroit, Mich., assignor to Phillips Petroleum Company. Variable fuel orifice carburetor. 2,318,216; May 4.

Gary, Hartwell H., Norfolk, Va. Quick-opening manhole. 2,318,151; May 4.

Geier, P. A., Company, The. (See Martinet, Eugene F., assignor.)

Gelardin, Albert, New York, N. Y. Cosmetic holder. 2,318,152; May 4.

General Aniline & Film Corporation. (See Mueller-Cunradi, M., Cantzler, and Krekeler, assignors.)

General Electric Company. (See Alexay, Adalbert, assignor.)

General Electric Company. (See Alimansky, Max I., assignor.)

General Electric Company. (See Bedford, Alexander W., Jr., assignor.)

General Electric Company. (See Bellows, Guy, Jr., assignor.)

General Electric Company. (See Bischoff, Alfred F., assignor.)

General Electric Company. (See Boddy, Edwin H., assignor.)

General Electric Company. (See Clark, Frank M., assignor.)

General Electric Company. (See Patzschke, W. K. and Wohlfarth, assignors.)

General Electric Company. (See Phelps, William D., assignor.)

General Electric Company. (See Wall, Alexander C., assignor.)

General Foods Corporation. (See Stagmeier, Arthur F., assignor.)

Gilbert, A. C., Company, The. (See Bastiansen, Otto, assignor.)

Gilbert, Beverly J., et al. (See Bernard, Nelson W., assignor.)

Gilbert, Clarence J., et al. (See Bernard, Nelson W., assignor.)

Gillis, Randall, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Control apparatus. 2,318,479; May 4.

Gilson, Robert D., Parkville, Md., True airspeed indicator. 2,318,153; May 4.

Globe Knitting Works. (See Clements, Roy W., assignor.)

Goldmark, Peter C., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Television. 2,317,989; May 4.

Goldmerstein, Isaac, assignor of 35% to George A. Rubissow, New York, N. Y. Heat-saving and/or black-out window shield. 2,318,217; May 4.

Gooder, Seth M., Deerfield, Ill. Material disposal apparatus. 2,318,154; May 4.

Goodrich, B. F., Company, The. (See Mayne, Robert, assignor.)

Goodrich, B. F., Company, The. (See Schick, E. L., and Ashworth, assignors.)

Grabinski, Philip, South Prarie, Wash. Logging apparatus. 2,318,218; May 4.

Gray, David W. (See Dwyer, T. F., Jr., and Gray.)

Green, Edwin F. (See Emery, F. C., and Green.)

Greenlee, Harry R., South Bend, L. D. Britton, Mishawaka, and J. R. Bond, assignors to The Studebaker Corporation, South Bend, Ind. Transmission. 2,318,481; May 4.

Grether, Ernest F., assignor to The Dow Chemical Company, Midland, Mich. Treating a humous material and resulting product. 2,317,990; May 4.

Grether, Ernest F., assignor to The Dow Chemical Company, Midland, Mich. Promoter, method, and product. 2,317,991; May 4.

Grether, Ernest F., assignor to The Dow Chemical Company, Midland, Mich. Treatment of organic material and resulting product. 2,317,992; May 4.

Griffith, William B., Stone Harbor, N. J. Thermostat. 2,318,480; May 4.

Groene, William F., and H. F. Stoffregen, Jr., assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Gun rifling machine. 2,318,155; May 4.

Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Circular shaping machine. 2,318,305; May 4.

Grotewold, Hans. (See First, G. B., and Grotewold.)

Guardsman Safety Razor, Inc. (See Nelson, Everett B., assignor.)

Guthrie Ceramic Labelling & Machinery Co. Inc. (See Shurley, Frederick, assignor.)

Haaky Manufacturing Company. (See Mjolsness, Haakon, assignor.)

Hacklander, Hans, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Uncurling guide for sewing machines. 2,318,385; May 4.

Haines, Thomas N., Philadelphia, assignor of one-half to Karl Legner, Rydal, Pa. Fluid pump or motor. 2,318,386; May 4.

Hall, George E. (See Walton, J. C., and Hall.)

Hall, Willard C., Jr., assignor to A. P. Daniels, Los Angeles, Calif. High intensity fluorescent lamp system. 2,318,072; May 4.

Haller, Herbert L. J. (See Colman, W., and Haller.)

Hann, Alan L., Newark, N. J. Device for refrigerating beverages. 2,318,309; May 4.

Hanna, Wilson C., H. E. Kaiser, and A. Harvey, Colton, assignors to California Portland Cement Company, Los Angeles, Calif. Feed system for grinding mills. 2,318,306; May 4.

Hannah, Peter, Yonkers, N. Y. Bag clamping device. 2,318,156; May 4.

Hanslick, Roy S., Nashville, Tenn., assignor to United States Rubber Company, New York, N. Y. Vulcanization accelerators. 2,318,482; May 4.

Harris, Alexander, Scobeyville, N. J., assignor to Art Metal Works, Inc. Lighter and fuel filling for same. 2,318,307; May 4.

Harris, Edward R., assignor to I. R. Harris, Los Angeles, Calif. Stylus head for recording and reproducing sound records. 2,318,308; May 4.

Harris, Isabelle R. (See Harris, Edward R., assignor.)

Harris, Leonard T., Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Renewable tip pulverizer hammer. 2,318,219; May 4.

Harris-Seybold-Potter Company. (See Harrold, Charles W., assignor.)

Harrison, Gale, Ivanhoe, N. C. Apparatus for filling berry containers. 2,318,483; May 4.

Harrold, Charles W., University Heights, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet feeder. 2,317,993; May 4.

Harter, Isaac, New York, N. Y., and C. L. Norton, Boston, Mass., and C. L. Norton, Jr., New York, N. Y., assignors to The Babcock & Wilcox Company, Newark, N. J. Cellular structural material and producing the same. 2,318,574; May 4.

Hartford National Bank and Trust Company, trustee. (See Alink, Roelof J. H., assignor.)

Hartman, Frank W., and V. Schelling, assignors to Henry Ford Hospital, Detroit, Mich. Hexyl-chloro-m-resol antiseptic. 2,318,387; May 4.

Hartman, Frank W., and V. Schelling, assignors to Henry Ford Hospital, Detroit, Mich. Hexyl-dichloro resorcinol antiseptic. 2,318,388; May 4.

Hartman, Frank W., and V. Schelling, assignors to Henry Ford Hospital, Detroit, Mich. Hexyl-dichloro resorcinol antiseptic. 2,318,389; May 4.

Hartman, Frank W., and V. Schelling, assignors to Henry Ford Hospital, Detroit, Mich. Hexyl-chloro-m-cresol antiseptic. 2,318,390; May 4.

Harvey, Arthur. (See Hanna, W. C., Kaiser, and Harvey.)

Haselwood, Willis E., assignor to C. E. Taylor and H. E. Lerner, Elkhart, Ind., copartners doing business as Taylor Sales Engineering Co. Floating oil filter. 2,318,220; May 4.

Havens, Glenn G. (See Thacher, S. P., and Havens.)

Hayssen Manufacturing Company. (See Hayssen, W. A., and Horwitz, assignors.)

Hayssen, William A., and D. R. Horwitz, assignors to Hayssen Manufacturing Company, Sheboygan, Wis., a co-partnership consisting of William Hayssen, Jane P. Hayssen, and Marie Hayssen Perry. Fractional wrapped loaf assembling and aligning device. 2,318,221; May 4.

Hefele, Edward J. (See Simon, E. J., and Hefele.)

Heintz, James C., Lakewood, Ohio. Vulcanizer hoist. 2,318,310; May 4.

Heiser, Ferdinand F., Wauwatosa, assignor to Automatic Products Company, Milwaukee, Wis. Suction pressure-regulating valve. 2,318,157; May 4.

Heisler, Glenn D., assignor to Carbonic Control Corporation, Portland, Oreg. Refrigeration apparatus. 2,318,222; May 4.

Henke, Clyde O., Wilmington, and G. Etzel, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing camphene. 2,318,391; May 4.

Henry Ford Hospital. (See Hartman, F. W., and Schelling, assignors.)

Hentrich, Winfrid, Rodleben, near Dessau-Rosslau, A. Kirstahler, and W. Kaiser, Dessau, Germany, assignors, by mesne assignments, to The Hydronapthene Corporation, Wilmington, Del. Sulphanilamide drivatives. 2,318,556; May 4.

Herbert, Stanley C., Nunhead, London, England. Mechanism for preparing postal matter. 2,318,073; May 4.

Hercules Powder Company. (See Cox, J. V. B., and Thomas, assignors.)

Herman, William P., Providence, R. I. Cube tap. 2,318,484; May 4.

Herman, William P., Providence, R. I. Female connector. 2,318,485; May 4.

Hicks, Lewis E., Milwaukee, assignor of eight per cent to A. W. Swanson, eight per cent to G. Fogg, eight per cent to J. W. Lehman, eight per cent to A. T. Poole, and eight per cent to R. H. Lane, all of Portland, and eight per cent to P. O. Jones and C. M. Jones, both of Milwaukee, Oreg., jointly. Headlight. 2,318,311; May 4.

Hill, Charles F., Edgewood, and L. J. Berberich, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Corona elimination in generator end windings. 2,318,074; May 4.

Hipple, James L., Canton, Ill., assignor to International Harvester Company. Planting attachment. 2,318,392; May 4.

Hollingsworth, R. Lee, Riverhead, N. Y., assignor to Radio Corporation of America. Automatic gain control system. 2,318,075; May 4.

Honerkamp, Friedrich, V. F. Self, and F. J. Kurth, New York, N. Y., assignors to Anemostat Corporation of America. Heat exchange apparatus. 2,318,393; May 4.

Hooker, Donald E., assignor to R. T. Moloney, Chicago, Ill. Game apparatus. 2,318,394; May 4.

Hoop, Fred R., assignor to Froid Laboratories, Inc., Grand Rapids, Mich. Mixing machine. 2,318,158; May 4.

Hoover, Walter S., Montreal, Quebec, Canada. Propeller blade packing. 2,318,486; May 4.

Horn, Frederick, Jr., Racine, Wis. Vise. 2,318,487; May 4.

Hornbrook, Philip R., Allentown, assignor to Fuller Company, Catasauqua, Pa. Conveying apparatus. 2,318,395; May 4.

Horton, Charles, Ridgefield Park, N. J. Radio program selecting apparatus. 2,318,312; May 4.

Horwitz, David R. (See Hayssen, W. A., and Horwitz.)

Hotine, William, Westbury, N. Y. Circuit control device. 2,318,223; May 4.

House Of Vision, Belgard-Spero, Inc., The. (See Kerry, John R., assignor.)

House, Zachariah E., Cass Lake, Minn. Speed indicating device. 2,318,313; May 4.

Hoyt, Leon G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crossarm reenforcement. 2,318,396; May 4.

Hoff, Van E., assignor of one-half to C. F. Miller, Miami, Fla. Louver construction. 2,317,994; May 4.

Hughes Tool Company. (See Smith, Frederick C., Jr., assignor.)

Hungerford, Daniel C., Madison, assignor to Elastic Stop Nut Corporation, Union City, N. J. Manufacture of self-locking nuts. 2,318,397; May 4.

Hungerford, Daniel C., Madison, assignor to Elastic Stop Nut Corporation, Elizabeth, N. J. Self-locking nut. 2,318,398; May 4.

Hunter, Richard B., Shorewood, and H. L. Mekelburg, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controlling device. 2,318,488; May 4.

Huntoon, Cullen L., assignor to Landis Machine Company, St. Louis, Mo. Heated press. 2,318,399; May 4.

Husta, Philip, Great Neck, and W. O. Wagensell, Pelham, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Panel selector. 2,318,159; May 4.

Hydraulic Development Corp., Inc., The. (See Crosby, Melvin A., assignor.)

Hydraulic Development Corp. Inc., The. (See Tucker, Warren R., assignor.)

Hydronapthene Corporation, The. (See Hentrich, W., Kirstahler, and Kaiser, assignors.)

Hyland, William A., Horicon, Wis., assignor to Deere & Company, Moline, Ill. Lister. 2,318,224; May 4.

Hyman, Benjamin M., Moline, Ill., assignor to International Harvester Company. Tractor mounted picker sheller. 2,318,400; May 4.

Imperial Chemical Industries Limited. (See Björkman, John A., assignor.)

Independent Pneumatic Tool Company. (See Forss, Frithiof P., assignor.)

International Business Machines Corporation. (See Doty, Charles R., assignor.)

International Business Machines Corporation. (See Fitch, C. J., and Schneider, assignors.)

International Business Machines Corporation. (See Jackson, Carlton T., assignor.)

International Business Machines Corporation. (See Lawrence, Lovell, Jr., assignor.)

International Business Machines Corporation. (See Nichol, F. W., and Fronefield, assignors.)

International Elastit Corporation. (See Schreyer, Lee, assignor.)

International Harvester Company. (See Hipple, James L., assignor.)

International Harvester Company. (See Hyman, Benjamin M., assignor.)

International Harvester Company. (See MacDonald, Raymore D., assignor.)

International Harvester Company. (See Millard, L. P., and Pool, assignors.)

International Harvester Company. (See Palmer, John S., assignor.)

International Standard Electric Corporation. (See Deakin, Gerald, assignor.)

International Standard Electric Corporation. (See Foord, Stanley G., assignor.)

International Standard Electric Corporation. (See Terman, Frederick E., assignor.)

Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Production of isobutane. 2,318,225; May 4.

Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Production of isobutane. 2,318,226; May 4.

Iuculano, John, Woodside, N. Y. Card filing system. 2,318,489; May 4.

Jackson, Carlton T., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,318,314; May 4.

Jackson, John G., assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,318,227; May 4.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock device. 2,318,490; May 4.

Jacokes, James W. (See Thurmond, G. I., Jacokes, and Brenner.)

Jacquier, Pierre, Bazet, France; vested in the Alien Property Custodian. Canalization. 2,318,401; May 4.

Jehle, Leon P., Buffalo, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Fluid composition. 2,318,079; May 4.

Johns, Francis J., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor protective device. 2,318,076; May 4.

Johnson, Albert A., Grahamsville, N. Y. Crane and shovel boom safety stop. 2,318,491; May 4.

Johnson, Charles D., assignor to Johnson Steel and Wire Company, Inc., Worcester, Mass. Wire straightener. 2,318,160; May 4.

Johnson, John H., Toronto, Ontario, Canada. Air mattress. 2,318,492; May 4.

Johnson, Robert M., Little Rock, Ark. Portable scaffold. 2,318,493; May 4.

Johnson, Roy W., and C. E. Zarwell, assignors to Automatic Products Company, Milwaukee, Wis. Water regulating valve. 2,318,161; May 4.

Johnson Steel and Wire Company. (See Johnson, Charles D., assignor.)

Johnston, Robert C., Tyler, Tex. Polish rod rotator. 2,318,315; May 4.

Johnstone, Warren W., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,318,495; May 4.

Jonas, Frank D., East Williston, assignor to Oxford Filing Supply Co., Brooklyn, N. Y. Suspension file. 2,318,077; May 4.

Jones, Clara M., et al. (See Hicks, Lewis E., assignor.)

Jones, Edwin A., Shorewood, Wis. Control means for heating devices. 2,318,228; May 4.

Jones, Frank D., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Windrow pickup press. 2,318,229; May 4.

Jones, Frank J., and J. L. Bitter, Elizabethton, Tenn., assignors to North American Rayon Corporation, New York, N. Y. Process and apparatus for twisting rayon. 2,318,162; May 4.

Jones, Howard B., Evanston, Ill. Electric plug. 2,318,230; May 4.

Jones, Preston O., et al. (See Hicks, Lewis E., assignor.)

Jones, William J., Oblong, Ill. Surface rod line jack. 2,318,494; May 4.

Joseph, Felix A., Scarsdale, N. Y., now by judicial change of name Felix Joseph Alexander. Ash tray. 2,318,078; May 4.
Kahr, Martin, assignor to The Filer & Stowell Co., Milwaukee, Wis. Saw mill dog. 2,318,163; May 4.
Kaiser, Harry E. (See Hanna, W. C., Kaiser, and Harvey.)
Kaiser, Wilhelm. (See Hentrich, W., Kirstahler, and Kaiser.)
Kamber, Adam, Youngstown, Ohio. Warm air furnace. 2,318,496; May 4.
Karlström, Karl A. S., Gavle, Sweden. Preparation of dental bridge prothesis. 2,318,402; May 4.
Karlström, Karl A. S., Gavle, Sweden. Device for the parallel guidance of dental tools. 2,318,403; May 4.
Kasner, M. (See Burch, Woodrow M., assignor.)
Kassel, Robert A., assignor to Charles I. Rockmore, Inc., Brooklyn, N. Y. Plaited material and making the same. 2,318,497; May 4.
Katzinger, Edward, Company, The. (See Zimmer, M. J., and Paysee, assignors.)
Katzman, James R., New York, N. Y. Removable body for hand trucks. 2,318,231; May 4.
Kearney, Daniel P., Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,318,232; May 4.
Keen, Alexis W., Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y. Battery paste retainer. 2,318,498; May 4.
Keen, William R., Drexel Hill, Pa., assignor to Collins & Aikman Corporation. Loop pile fabric and apparatus for weaving same. 2,318,080; May 4.
Keen, William R., Drexel Hill, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Loop pile fabric. 2,318,499; May 4.
Kellien, Saul. (See Russell, M. N., and Kellien.)
Kellems Company. (See Kellems, David L., assignor.)
Kellems, David L., Westport, Conn., assignor to Kellems Company, New York, N. Y. Lifting and/or holding device. 2,318,164; May 4.
Keller, Curt, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland. Aircraft propeller. 2,318,293; May 4.
Kellett, Rayford, Leavenworth, Kans. Carpenter's tool. 2,318,404; May 4.
Kemmler, James W. (See Weigle, W. C., and Kemmler.)
Kerry, John R., Palatine, assignor to The House of Vision, Belgard-Spero, Inc., Chicago, Ill. Lap storage rack. 2,318,081; May 4.
King, Charles G., and E. G. White, Pittsburgh, Pa., assignors of one-half to Parke, Davis & Company, Detroit, Mich., and one-half to Abbott Laboratories, North Chicago, Ill. Preparation of ascorbic acid and l-gulosone. 2,318,500; May 4.
Kirstahler, Alfred. (See Hentrich, W., Kirstahler, and Kaiser.)
Kluge, Eneval, assignor to Brandtjen & Kluge, Inc., St. Paul, Minn. Sheet delivery mechanism. 2,318,165; May 4.
Kluger, Herman, White Plains, N. Y., assignor to Fulford Manufacturing Company. Marking device for bags. 2,318,234; May 4.
Knight, Morrell A., assignor of one-half to D. W. Shader, Brunswick, Ga. Portable drill. 2,318,166; May 4.
Knowlton, Laurence R., Redondo Beach, assignor to Vernon Tool Co. Ltd., Alhambra, Calif. Liner setting and washing device for wells. 2,318,167; May 4.
Kober, Paul A., Orange, and T. M. Cortese, East Orange, N. J. Gaseous discharge lamp. 2,318,082; May 4.
Koch, Gustav H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air translating apparatus. 2,318,501; May 4.
Koppers Company. (See Bussmann, Wilhelmus B., assignor.)
Koppers Company. (See Powell, Alfred R., assignor.)
Krekeler, Hans. (See Mueller-Cunradi, M., Cantzler, and Krekeler.)
Krum, Howard L., assignor to Teletype Corporation, Chicago, Ill. Selective signaling system and apparatus. 2,317,995; May 4.
Kurth, Franz J. (See Honerkamp, F., Self and Kurth.)
Laclede Steel Company. (See Frigberg, Bengt F., assignor.)
Landis Machine Company. (See Huntoon, Cullen L., assignor.)
Landis Machine Company. (See Mathias, Samuel W., assignor.)
Landy, William R., Minneapolis, Minn. Lathe tool grinding fixture. 2,317,996; May 4.
Lane, Harold, and W. A. Barton, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Lasting machine. 2,318,083; May 4.
Lane, Richard H., et al. (See Hicks, Lewis E., assignor.)
Lang, Wilmarth Y., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Printing telegraph apparatus. 2,318,168; May 4.
Lapham, Ella M., Minneapolis, Minn. Needle for making matted fabrics. 2,318,235; May 4.
Lapidus, Morris, Cleveland, Ohio. Form for concrete walls, floors, or the like. 2,317,997; May 4.
Laporte, Maximilian A., Brookline, Mass. Garment hanger. 2,318,084; May 4.
La Rock, Pat, assignor, by mesne assignments, to Chicago Coin Machine Co. (not Inc.), Chicago, Ill. Ball reprojector. 2,318,169; May 4.
Larson, Bert E., Park Ridge, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler firebox. 2,318,502; May 4.
Lateur, Gaston L., San Francisco, Calif. Conical cap for collapsible tubes. 2,317,998; May 4.
Lauter, Josephine, et al. (See Flanzer, J. A., and P. Bein, assignors.)
Lauter, Philip, et al. (See Flanzer, J. A., and P. Bein, assignors.)
Lawrence, Lovell, Jr., Jackson Heights, assignor to International Business Machines Corporation, New York, N. Y. Storage mechanism. 2,318,316; May 4.
Layton, Arthur C., Tyler, Tex. Valve. 2,318,236; May 4.
Le Bond, R. K., Machine Tool Company, The. (See Groene, W. F., and Stoffregen, Jr., assignors.)
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Lee Bros. Hats, Inc. (See Fabian, C. F., and Lee, assignors.)
Lee, James B. (See Fabian, C. F., and Lee.)
Leeds and Northrup Company. (See Clark, William R., assignor.)
Legner, Karl. (See Haines, Thomas N., assignor.)
Lehman, John W., et al. (See Hicks, Lewis E., assignor.)
Leischner, Georg, Bonigen, near Interlaken, Switzerland. Electric converter. 2,318,503; May 4.
Leonard, Merrill G., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,318,085; May 4.
Lerner, Harry E., et al. (See Haselwood, Willis E., assignor.)
Leuchs, Friedrich, Wuppertal-Alberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Quaternary ammonium compounds. 2,317,999; May 4.
Leveridge, Walter J., Tuckahoe, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,318,405; May 4.
Lewis, Charles B. (See Mas, George N., assignor.)
Liebman, Walter H. (See Rojas, Floricel A., assignor.)
Liese, Selig S. (See Warner, M. P., and Liese.)
Lima Locomotive Works, Incorporated. (See Woodward, W. E., and Filander, assignor.)
Linde, John A., Brooklyn, N. Y. Orthodontic appliance device. 2,318,001; May 4.
Lindenblad, Nils E., Rocky Point, N. Y., assignor to Radio Corporation of America. Antenna feed system. 2,318,237; May 4.
Linder, Ernest G., Philadelphia, Pa., assignor to Radio Corporation of America. Modulator for high frequency oscillators. 2,318,170; May 4.
Lindstrom, Ture, Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Field discharge circuit breaker. 2,318,086; May 4.
Link Belt Company. (See Tark, Marcus B., assignor.)
Linville, John R., Dunmright, Okla. Retaining clip for spectacle cases. 2,318,238; May 4.
Lipic, Jos., Pen Company. (See Lipic, Joseph G., Jr., assignor.)
Lipic, Joseph G., Jr., assignor to Jos. Lipic Pen Co., St. Louis, Mo. Holder for pencils and the like. 2,318,171; May 4.
Lipperd, Allen L., et al. (See Miller, Clarence H., assignor.)
Lipperd, Ivan L., et al. (See Miller, Clarence H., assignor.)
Lippert, Erhard M., assignor to Victor Adding Machine Company, Chicago, Ill. Platen mechanism. 2,318,000; May 4.
Lockart, Edward P. (See Boeglen, D. L., and Lockart.)
Locomotive Firebox Company. (See Larson, Bert E., assignor.)
Lodding, Frederick W., Worcester, Mass. Doctor operating mechanism for rolls and cylinders. 2,318,504; May 4.
Lodwig, Erwin, Franklin Square, assignor to Mobile Refrigeration, Inc., New York, N. Y. Refrigeration. 2,318,318; May 4.
Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y. Suction nozzle. 2,318,317; May 4.
Long, Fred R., Catawissa, Pa. Machine for automatically forming projectiles. 2,318,505; May 4.
Long, Hugh, Los Angeles, Calif. Universal tool. 2,318,172; May 4.
Lorenz, C., Aktiengesellschaft. (See Weiche, Walter, assignor.)
Lovell, Glen A., Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y. Friction and flexure testing device. 2,318,506; May 4.
Lowe, Arthur L., Southport, Conn. Mop connector. 2,318,087; May 4.
Lubri-Zol Development Corporation, The. (See Prutton, C. F., and Smith, assignors.)
Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Cutting sheets of different lengths from traveling webs. 2,318,173; May 4.

Lulek, Ralph N., Wilmington, Del., and E. C. Buxbaum, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the anthraquinone series. 2,318,174; May 4.
Lynch, Ernest E., Alameda, assignor to T. P. Bacon, Sr., Oakland, Calif. Pulverizer mill. 2,318,175; May 4.
Lyons, Robert, et al. (See Tewksbury, John M., assignor.)
MacDonald, Raymore D., Battle Creek, Mich., assignor to International Harvester Company. Manure spreader. 2,318,406; May 4.
MacGregor, Wallace C., Chicago, Ill. Angle disk roller. 2,318,002; May 4.
MacNish, Charles F. (See Boath, H. E., MacNish and Cole.)
Mahler, William, assignor to U. S. Slicing Machine Company, La Porte, Ind. Bacon slicer. 2,318,003; May 4.
Malm, Carl J., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacture of cellulose esters. 2,318,573; May 4.
Marchant Calculating Machine Company. (See Mathi, Walter E., assignor.)
Marple, Kenneth E. (See van de Griendt, G. H., Marple and Peters.)
Marsheck, William, Baltimore, Md. Graver holder. 2,318,004; May 4.
Martin, Alfred M., Park Ridge, Ill. Visible record. 2,318,239; May 4.
Martin Dennis Company, The. (See Bersworth, Frederick C., assignor.)
Martin, Frederick W., Greenwich, Conn., assignor to Franklin Railway Supply Company, Inc., New York, N. Y. Adjusting mechanism for locomotive driving boxes. 2,318,507; May 4.
Martin, Ivan Z., assignor of one-half to N. N. Burkholder, Ephrata, Pa. Baling press. 2,318,407; May 4.
Martindell, Frank, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material feeding apparatus. 2,318,508; May 4.
Martinet, Eugene F., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaning apparatus. 2,318,088; May 4.
Martinson, Ernest H. (See Davey, Edwin B.)
Marx, Guilherme S., Hoboken, N. J. Apparatus for the manufacture of shocs. 2,318,509; May 4.
Marx, Louis, & Company. (See Gardner, Frank P., assignor.)
Mas, George N., assignor of one-half to C. B. Lewis, Washington, D. C. Hospital or invalid bed. 2,318,240; May 4.
Massano, Aurelio, Teaneck, N. J. Conveyer for semi-liquid materials. 2,318,176; May 4.
Mathi, Walter E., Oakland, Calif., assignor to Marchant Calculating machine. 2,318,241; May 4.
Mathias, Samuel W., assignor to Landis Machine Company, Waynesboro, Pa. Hydraulically operated combined threading and turning machine. 2,318,177; May 4.
Matteson, Elwin A., and D. V. Strock, assignors to The Aetna Standard Engineering Company, Younstown, Ohio. Gripping mechanism. 2,318,242; May 4.
Matthews, Russell R. (See Wadely, H. E., Matthews, and Rice.)
Mattin, Harry E., Brooklyn, assignor to The Mearl Corporation, New York, N. Y. Luminescent material. 2,318,089; May 4.
Maucher, Hans, assignor to Norma Multikolor, Inc., New York, N. Y. Lead clutch for pencils. 2,318,510; May 4.
Mayne, Robert, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Track and detachable grouser therefor. 2,318,347; May 4.
McAllister, Clifton E., Batesburg, S. C. Yarn drying apparatus. 2,318,511; May 4.
McBee Company, The. (See Welk, Nelson S., assignor.)
McClure, Benjamin C., Chicago, Ill., assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Apparatus for fiberizing fusible inorganic substances and forming the fibers into bats. 2,318,243; May 4.
McClure, Benjamin C., Chicago, Ill., assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Fiberizing mineral substances by centrifuge and blast. 2,318,244; May 4.
McCormick, Harold V., Westfield, assignor to Westinghouse Electric Elevator Company, Jersey City, N. J. Elevator door operating mechanism. 2,318,090; May 4.
McDonald, Louis, Yonkers, N. Y., assignor to The Dodge Chemical Company, Boston, Mass. Embalming fluid. 2,318,319; May 4.
McFadden, Benjamin C., assignor to Aluminum Company of America, Pittsburgh, Pa. Treating strip material. 2,318,320; May 4.
McFarland, Edwin J., Vulcan, Alberta, Canada. Driving and steering mechanism for automobiles. 2,318,245; May 4.
McHaffie, Ivan R., assignor to Canadian Industries Limited, Montreal, Quebec, Canada. Purification and drying of chlorine gas. 2,318,512; May 4.
McGill Manufacturing Company. (See Popp, Rudolf, assignor.)
McIlwain, Franklin H., Rushville, Ind. Combined twine holder and retractor. 2,318,513; May 4.
McKewen, John H. (See Schauer, L. L., and McKewen.)
McKinnis Foods. (See McKinnis, Ronald B., assignor.)
McKinnis, Ronald B., assignor, by mesne assignments, to R. B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla. Extracting. 2,318,178; May 4.
McGuinness, James M., Worcester, Mass. Fire alarm gong apparatus. 2,318,005; May 4.
Mearl Corporation, The. (See Mattin, Harry E., assignor.)
Mekelburg, Harold L. (See Hunter, R. B., and Mekelburg.)
Melas, William. (See Bennett, W. C., and Melas.)
Meloy, Arthur S., Jr. (See Zonis, S., and Meloy.)
Memovox, Inc. (See Rieber, Frank, assignor.)
Mentley, Max B., assignor to National Broach & Machine Company, Detroit, Mich. Gear finishing. 2,318,179; May 4.
Mercier, Pierre E., Westport, Conn. Labyrinth joint or coupling. 2,318,006; May 4.
Mesinger, Frederick, Mount Vernon, N. Y. Cycle saddle. 2,318,246; May 4.
Metallizing Engineering Company, Inc. (See Shepard, Arthur P., assignor.)
Metzner, Albert W. (See Sherman, John Q., and Metzner.)
Meulendyke, Charles E., Rochester, N. Y. Producing a lacquer or varnish resist. 2,318,322; May 4.
Michaelis, Walter, Brussels-Forrest, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated. Light-sensitive material. 2,318,007; May 4.
Micro Musical Products Corp. (See Spivak, Charles, assignor.)
Miess, Fred, Gary, Ind. Ignition device. 2,318,408; May 4.
Millard, Lee P., and S. D. Pool, Moline, Ill., assignors to International Harvester Company. Self-propelled Harvester-thresher. 2,318,409; May 4.
Miller Cereal Mills, Incorporated. (See Miller, Eugene A., assignor.)
Miller, Charles F. (See Huff, Van E., assignor.)
Miller, Clarence H., assignor of twenty-five per cent to A. L. Lipperd and five per cent to I. L. Lipperd, Winfield, Kans. Internal combustion rotary engine. 2,318,514; May 4.
Miller, Eugene, assignor to Miller Cereal Mills, Incorporated, Omaha, Nebr. Merchandising package. 2,318,557; May 4.
Miller, Frank W., assignor to Franclare Company, Chicago, Ill. Treating steam boilers. 2,318,247; May 4.
Mills, Percy E., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin chute. 2,318,410; May 4.
Milwaukee Gas Specialty Company. (See Alfery, Henry F., assignor.)
Minneapolis-Honeywell Regulator Company. (See Pond, Bertram P., assignor.)
Minnesota Mining & Manufacturing Company. (See Carlton, Richard P, assignor.)
Minton, John P., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Phase meter. 2,318,248; May 4.
Mjolsness, Haakon, deceased, by O. A. Mjolsness, executrix, Minneapolis, Minn. Grain separator. 2,318,250; May 4.
Mjolsness, Haakon, deceased, by O. A. Mjolsness, administratrix, Minneapolis, assignor to Haaky Manufacturing Company, St. Paul, Minn. Grain separator. 2,318,249; May 4.
Mjolsness, Olga A., administratrix. (See Mjolsness, Haakon.)
Mjolsness, Olga A., executrix. (See Mjolsness, Haakon.)
Mobile Refrigeration, Inc. (See Lodwig, Erwin, assignor.)
Moloney, Raymond T. (See Hooker, Donald E., assignor.)
Monsanto Chemical Company. (See Derby, E. R., and Parkhurst, assignors.)
Monsanto Chemical Company. (See Percival, John O., assignor.)
Monsanto Chemical Company. (See Welch, William E., assignor.)
Moore, Charles O. (See Schmidt, Eugene, assignor.)
Moore, Robert D., Kansas City, Mo. Clamp. 2,318,411; May 4.
Moore, Thomas F., Morris Plains, N. J. Air exhausting apparatus for pumping systems. 2,318,251; May 4.
Moore, William W. (See Dames, Trent R.)
Morgan, George A. (See Padley, L., and Morgan.)
Morris, Thomas A., assignor to National Devices Corporation, Detroit, Mich. Carburetor for multicylinder internal combustion engines. 2,318,008; May 4.
Morse, Guilford A., Minneapolis, Minn. Conveying and distributing system. 2,318,180; May 4.
Morton, Thomas H. (See Cameron, W. G., and Morton.)
Mueller Co. (See Mueller, F. H., and Bowan, assignors.)
Mueller-Cunradi, Martin, Ludwigshafen-on-the-Rhine, A. Cantzler, and H. Krekeler, Mannheim, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Manufacture of halogenated hydrocarbons. 2,318,323; May 4.
Mueller, Frank H., and W. J. Bowan, assignors to Mueller Co., Decatur, Ill. Drilling apparatus. 2,318,321; May 4.
Myers, Henry C., Irwin, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor-electric device. 2,318,091; May 4.

Myers, Thomas G., assignor to U. S. Electrical Motors, Inc., Los Angeles, Calif. Submersible structure. 2,318,181; May 4.

Myers, Wayne E., Benton Harbor, assignor to St. Joe Machines, Inc., St. Joseph, Mich. Laundry machine. 2,318,252; May 4.

Nagle, Perry I., Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Bearing structure. 2,318,253; May 4.

Nagle, Perry I., Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Fluid impeller housing assembly. 2,318,254; May 4.

Nallinger, Fritz, Stuttgart, Germany; vested in the Alien Property Custodian. Multiple motor driving mechanism, particularly for air propeller shafts. 2,318,328; May 4.

National Broach & Machine Company. (See Mentley, Max B., assignor.)

National Cash Register Company, The. (See Chollar, Robert G., assignor.)

National Devices Corporation. (See Morris, Thomas A., assignor.)

National Fitch Corporation. (See Fitch, Benjamin F., assignor.)

National Tube Company. (See Findlater, Stevenson, assignor.)

Naul, James M. (See Way, D. D., J. M. Naul, and C. R. Schenk.)

Nelson, Everett B., assignor to Guardsman Safety Razor, Inc., Lincoln, Nebr. Safety razor. 2,318,324; May 4.

Nemcek, Jasper C., Jr., Binghamton, N. Y. Reed. 2,318,515; May 4.

Neunherz, Herbert W., Gardner, Mass. Catch. 2,318,412; May 4.

Newbold, William H., Langhorne, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. High frequency antenna system. 2,318,516; May 4.

Nichol, Frederick W., New York, and L. H. Fronefield, Conklin, assignors to International Business Machines Corporation, New York, N. Y. Letter writing machine. 2,318,325; May 4.

Nichols, Leonard E., Detroit, Mich. Electric shaver. 2,318,255; May 4.

Nineteen Hundred Corporation. (See Ringer, Luther, assignor.)

Norbom, Ragnar A. (See Fitch, B. F., and Norbom.)

Norma Multikolor, Inc. (See Maucher, Hans, assignor.)

North American Rayon Corporation. (See Jones, F. J., and Bitter, assignors.)

Norton, Charles L. (See Harter, I., Norton and Norton, Jr.)

Norton, Charles L., Jr. (See Harter, I., Norton, and Norton, Jr.)

Novak, Izador J., Trumbull, assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn. Varnish oil. 2,318,009; May 4.

Ohio Crankshaft Company, The. (See Denneen, F. S., and Dunn, assignors.)

Okonite Callender Cable Company Inc. (See Brigg, John Ellwood, assignor.)

Oliver, Thomas J., Birmingham, Ala. Loom gauge. 2,318,256; May 4.

Olsen, Anders C., Binghamton, N. Y. Building construction. 2,318,092; May 4.

Olson, Harry F., Haddon Heights, N. J., assignor to Radio Corporation of America. Loudspeaker. 2,318,517; May 4.

Opperer, Louis, Brooklyn, N. Y. Lifting handle device for toilet seats and covers. 2,318,518; May 4.

Owen, Herbert L., Los Angeles, Calif. Gable trim shingle unit. 2,318,413; May 4.

Owens-Corning Fiberglas Corporation. (See McClure, Benjamin C., assignor.)

Owens-Illinois Glass Company. (See Boeglen, D. L., and Lockart, assignors.)

Oxford Filing Supply Co. (See Jonas, Frank D., assignor.)

Pabst, Arthur C., Kew Gardens, and J. H. Prall, Lynbrook, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Cooling engines. 2,318,558; May 4.

Pacific Electric Manufacturing Corporation. (See Thompson, Joseph S., assignor.)

Padley, Leonard, and G. A. Morgan, Sheffield, England. Rock drill. 2,318,326; May 4.

Palanque, Clementine C. M., London, England. Shorthand typewriting machine. 2,318,519; May 4.

Palmer, John S., Chicago, Ill., assignor to International Harvester Company. Cooler construction. 2,318,414; May 4.

Panish, Erwin J., Bridgeport, Conn., assignor to Philadelphia Gear Works, Inc., Philadelphia, Pa. Valve control. 2,318,010; May 4.

Parke, Davis & Company, et al. (See King, C. G., and White, assignors.)

Parkhurst, Frederic A. (See Derby, E. R., and Parkhurst.)

Parsons, James A., Jr., and E. Ryder, assignors to The Duriron Company, Inc., Dayton, Ohio. Cementation process of treating metal. 2,318,011; May 4.

Pass & Seymour, Inc. (See Russell, Mark N., and Keilien, assignors.)

"Patelhold" Patentverwertungs-& Elektro-Holding A.-G. (See Schwartz, Jean, assignor.)

Patzer, William, and W. A. Tratsch, Chicago, Ill. Coin and check separator. 2,318,520; May 4.

Patzschke, Willi K., Klein-Machnow, near Berlin, and O. Wohlfarth, Berlin-Schoneberg, Germany, assignors to General Electric Company. High-frequency iron core. 2,318,415; May 4.

Paulus Brothers Packing Company. (See Wilson, Howard W., assignor.)

Paysee, Robert B. (See Zimmer, M. J., and Paysee.)

Peirce, Daniel N., deceased, Rydal, Pa., Gratia Peirce, administratrix. Kneeling stool. 2,318,416; May 4.

Peirce, Gratia, administratrix. (See Peirce, Daniel N.) deceased.)

Penney, Gaylord W., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrically neutral air cleaning. 2,318,093; May 4.

Percival, John O., Somerville, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Material for and process of pickling copper or its alloys. 2,318,559; May 4.

Perdew, Dell W., Prenter, W. Va. Mine car stop. 2,318,521; May 4.

Peterman, Theodore A., Tacoma, Wash. Resilient wheel mounting. 2,318,257; May 4.

Peters, Leslie M. (See van de Griendt, G. H., Marple and Peters.)

Petzold, Ernst H., Jr., and R. A. Cherry, St. Louis, Mo. Mop. 2,318,094; May 4.

Phelps, William D., Schenectady, N. Y., assignor to General Electric Company. Artificial reverberation system. 2,318,417; May 4.

Philadelphia Gear Works, Inc. (See Panish, Erwin J., assignor.)

Philco Radio and Television Corporation. (See Newbold, William H., assignor.)

Phillips, Francis L., Beechurst, L. I., assignor to Beattie Products, Inc., New York, N. Y. Jet lighter. 2,318,327; May 4.

Phillips Petroleum Company. (See Garretson, Owen L., assignor.)

Phillips Petroleum Company. (See St. Clair, Theodore A., assignor.)

Pierce, John R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,318,418; May 4.

Pines, Herman. (See Ipatieff, V. N., and Pines.)

Place, Bion C., assignor of one-half to G. E. Gagnier, Detroit, Mich. Fastener. 2,318,182; May 4.

Plott, Ernest B., and J. S. Stanier, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Apparatus for coating metal strip or wire. 2,318,419; May 4.

Plott, Ernest B. (See Stanier, J. S., and Plott.)

Pneumastic Co. (See Stone, Allen L., assignor.)

Pond, Bertram P., River Forest, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Stoker control. 2,318,012; May 4.

Pool, Stuart D. (See Millard, L. P., and Pool.)

Poole, Alexander T., et al. (See Hicks, Lewis E., assignor.)

Popp, Rudolf, assignor to McGill Manufacturing Company, Valparaiso, Ind. Lamp guard and reflector unit. 2,318,329; May 4.

Porter, Gilbert E., Mount Clemens, Mich. Control mechanism for motor vehicles. 2,318,258; May 4.

Powell, Alfred R., Pittsburgh, Pa., assignor to Koppers Company. Gas purification process. 2,318,522; May 4.

Powell, Alfred R., Pittsburgh, Pa., assignor to Koppers Company. Separation and purification of gaseous mixtures. 2,318,523; May 4.

Prall, John H. (See Pabst, A. C., and Prall.)

Prescott, Frank R. (See Stupakoff, S. H., and Prescott.)

Prutton, Carl F., Cleveland Heights, and A. K. Smith, Shaker Heights, assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricating composition. 2,318,013; May 4.

Purifoy, George R., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor control and brake system. 2,318,330; May 4.

Purifoy, George R., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor control system. 2,318,331; May 4.

Purifoy, George R., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor control system. 2,318,332; May 4.

Putman, Henry V., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Core structure. 2,318,095; May 4.

Quick, Frederick A., Bellerose, assignor to All Purpose Gold Corporation, Brooklyn, N. Y. Transfer sheet. 2,318,096; May 4.

Racen, Ferdinand, University City, assignor to W. G. Shelton Company, St. Louis, Mo. Exothermic device. 2,318,420; May 4.

Radio Corporation of America. (See Dimmick, Glenn L., assignor.)

Radio Corporation of America. (See Drake, Francis J., Jr., assignor.)

Radio Corporation of America. (See Hollingsworth, R. Lee, assignor.)

Radio Corporation of America. (See Lindenblad, Niles E., assignor.)

Radio Corporation of America. (See Linder, Ernest G., assignor.)

Radio Corporation of America. (See Olson, Harry F., assignor.)

Radio Corporation of America. (See Roberts, Bruce, assignor.)

Radio Navigational Instrument Corporation. (See Simon, E. J., and Hefele, assignors.)

Ranco Incorporated. (See Raney, Estel C., assignor.)

Raney, Estel C., Columbus, Ohio. Control apparatus. 2,318,553; May 4.

Raney, Estel C., assignor to Ranco Incorporated, Columbus, Ohio. Control device. 2,318,554; May 4.

Rauschenberg, Gerhardt H. (See Cobble, Joseph, and Albert, assignors.)

Rawlins, Herbert L., Wilkinsburg, and J. M. Wallace, North Braddock, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,318,421; May 4.

Raybestos-Manhattan, Inc. (See Novak, Izador J., assignor.)

Read, Philip C., Shorewood, assignor to Dostal & Lowey Co., Inc., Menomonee Falls, Wis. Bottle washer. 2,318,524; May 4.

Rebhan, Joseph. (See Elsner, R. and Rebhan.)

Reed & Prince Manufacturing Company. (See Werme, Adolph, assignor.)

Remington Rand Inc. (See Wolters, Carl F., assignor.)

Renton, Henry N., Wyncote, assignor to The American Pulley Company, Philadelphia, Pa. Blind. 2,318,525; May 4.

Ricardo, Harry R., London, England. Internal combustion engine operating on the two-stroke cycle with liquid full injection. 2,318,333; May 4.

Rice, Walter A. (See Wadely, H. E., Matthews and Rice.)

Richardson, Paul E. (See Alexander, Samuel T., assignor.)

Richmond, Ralph W., Kennewick, Wash. Dirtproof bearing. 2,318,097; May 4.

Ridge Tool Company, The. (See Wright, Clyde E., assignor.)

Rieber, Frank, Los Angeles, assignor to Memovox, Inc., Beverly Hills, Calif. Phonograph apparatus. 2,318,098; May. 4.

Ringer, Luther, Berrien Springs, assignor to Nineteen Hundred Corporation, St. Joseph, Mich. Ironer. 2,318,422; May 4.

Ripper, Kurt E., Bronxville, assignor to American Cyanamid Company, New York, N. Y. Asbestos yarn. 2,318,560; May 4.

Roberts, Bruce, Los Angeles, Calif., assignor, by mesne assignments, to Radio Corporation of America. Portable phonograph. 2,318,183; May 4.

Roberts, William T. Buckingham, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Trimming machine. 2,318,099; May 4.

Rock-Ola Manufacturing Corporation. (See Rockola, David C., assignor.)

Rockola, David C., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Indicating device. 2,318,526; May 4.

Rockmore, Charles I., Inc. (See Kassel, Robert A., assignor.)

Rogers, Thomas A. (See Schroder, Walter L.)

Rojas, Floricel A., assignor of one-half to Walter H. Liebman, New York, N. Y. Laminated sheet and producing same. 2,318,184; May 4.

Rood, William B., Des Moines, Iowa. Concealed storm window and screen. 2,318,100; May 4.

Rose, Alfred G., assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Package for tobacco or other articles. 2,318,101; May 4.

Rose Brothers (Gainsborough) Limited. (See Rose, Alfred G., assignor.)

Rosenberg, Barney, et al., trustees. (See Warner, M. P., and Liese, assignors.)

Rosenthal, Irwin W., New Orleans, La. Travel case. 2,318,527; May 4.

Rossby, Samuel, New York, N. Y. Suspender suit construction. 2,318,528; May 4.

Roush, Alan D. (See Stolz, Owen M.)

Rovick, Max I., Chicago, Ill. Making shoes. 2,318,014; May 4.

Rowan, William J., Los Angeles, Calif. Device for trimming lawns. 2,318,334; May 4.

Rubissow, George A. (See Goldmerstein, Isaac, assignor.)

Ruge, Arthur C., Cambridge, Mass. Rosette type strain gauge. 2,318,102; May 4.

Russell, Arthur L., and W. M. Watson, Boston, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Shoemaking method. 2,318,103; May 4.

Russell, Arthur L., Boston, and W. M. Watson, Danvers, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Toe pulling pincer device. 2,318,104; May 4.

Russell, Mark N. and S. Keilien, assignors to Pass & Seymour, Inc., Syracuse, N. Y. Electric switch. 2,318,015; May 4.

Ruthruff, Robert F., Chicago, Ill. Cleansing agent and the manufacture thereof. 2,318,555; May 4.

Ruzicka, Leopold, Zurich, Switzerland, assignor, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Hydrated acetylene derivatives of the cyclopentanopolyhydrophenanthrene series and preparing same. 2,318,105; May 4.

Ryan, Alden H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. High-frequency apparatus. 2,318,106; May 4.

Ryder, Earl. (See Parsons, J. A., Jr., and Ryder.)

Sailer, Orville W., Washington, D. C. Windshield cleaning apparatus. 2,318,529; May 4.

St. Clair, Theodore A., Pontiac, Mich., assignor to Phillips Petroleum Company. Low pressure automatic change-over device. 2,318,261; May 4.

St. Joe Machines, Inc. (See Myers, Wayne E., assignor.)

Salmon, Reginald D. (See Thompson, A. E., and Salmon.)

Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,318,423; May 4.

Sattler, Erno J., Edna, Tex. Milk pail. 2,318,424; May 4.

Schauer, Lawrence L., Wyoming, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Tapping machine. 2,318,336; May 4.

Schauer, Lawrence L., Wyoming, and J. H. McKewen, assignors to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Spindle control for drilling and tapping machines. 2,318,335; May 4.

Scheffey, George B., assignor to James H. Sternbergh, Reading, Pa. High speed punch press. 2,318,107; May 4.

Schelling, Victor. (See Hartman, F. W., and Schelling.)

Schenk, Carl R. (See Way, D. D., Naul, and Schenk.)

Schick, Edward L., and J. E. Ashworth, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Belt-measuring apparatus. 2,318,530; May 4.

Schlegel, Carl F., Brighton, assignor to The Schlegel Manufacturing Company, Rochester, N. Y. Polishing disk. 2,318,016; May 4.

Schlegel Manufacturing Company, The. (See Schlegel, Carl F., assignor.)

Schlosser, Arthur G., Detroit, Mich., assignor, by mesne assignments, to Chandler-Evans Corporation, Meriden, Conn. Fluid pump. 2,318,337; May 4.

Schmidt, Eugene, assignor to Charles O. Moore, Oak Park, Ill. Antislip foot. 2,318,017; May 4.

Schmitt, Friedrich. (See Bertsch, H., and Schmitt.)

Schneble, Vincent F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and computing machine. 2,318,425; May 4.

Schneider, Kurt R. (See Fitch, C. J., and Schneider.)

Schram, Hugh H., New York, N. Y. Jack carriage. 2,318,108; May 4.

Schreyer, Leo, Bratenahl, Ohio, assignor to International Elastit Corporation. Cap and making the same. 2,318,185; May 4.

Schroder, Walter L., Hortonville, and T. A. Rogers, Stevens Point, Wis. Canning green vegetables. 2,318,426; May 4.

Schueder, George M. (See Evans, R. B., Farrell, and Schueder.)

Schultz, Joseph A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Heating pad. 2,318,109; May 4.

Schwartz, Jean, Baden, assignor, by mesne assignments, to "Patelhold" Patentverwertungs-& Elektro-Holding A.-G., Glarus, Switzerland. Band filter. 2,318,531; May 4.

Schwarzbach, George, Brooklyn, N. Y. Automatic transmission. 2,318,186; May 4.

Scott, James G., Washington, D. C. Refrigerating system and apparatus. 2,318,532; May 4.

Secretary of Agriculture of the United States of America, Claude R. Wickard, and to his successors in office. (See Coleman, W., and Haller, assignors.)

Segal, Samuel, Brooklyn, N. Y. Fastener. 2,318,123; May 4.

Selas Company, The. (See Wakefield, Richard E. B., assignor.)

Self, Vester F. (See Honerkamp, F., Self, and Kurth.)

Selvig, John N., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for heating material. 2,318,533; May 4.

Semonsen, Otto C., Bellerose, N. Y. Holder and needle for hand knitting. 2,318,018; May 4.

Seybert, Theodore, Chicago, Ill. Batter mixer. 2,318,534; May 4.

Shader, D. W. (See Knight, Morrell A., assignor.)

Shaffer, Harvey H., Berwick, Pa. Bolster. 2,318,427; May 4.

Shell Development Company. (See van de Griendt, G. H., Marple, and Peters, assignors.)

Shelton, Ernest L., et al. (See Dockery, John T., assignor.)

Shelton, W. G., Company. (See Racen, Ferdinand, assignor.)

Shepard, Arthur P., Forest Hills, assignor to Metallizing Engineering Company, Inc., Long Island City, N. Y. Device for removing curvature from metallizing wires. 2,318,019; May 4.

Sherman, John Q., deceased, and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman; K. M. and W. C. Sherman, and Wellmore B. Turner, executors. Duel pin wheel feed. 2,318,020; May 4.

Sherman, Katherine M., et al., executrix. (See Sherman, John Q., and Metzner.)

Sherman, William C., et al., executor. (See Sherman, John Q., and Metzner.)

Shurley, Frederick, Windsor, Ontario, Canada, assignor to Guthrie Ceramic Labelling & Machinery Co. Inc., Dover, Del. Ceramic stencilling ink and vehicle therefor. 2,318,124; May 4.

Sikorsky, Igor I., Trumbull, assignor to United Aircraft Corporation, East Hartford, Conn. Direct-lift aircraft. 2,318,259; May 4.

Sikorsky, Igor I., Trumbull, assignor to United Aircraft Corporation, East Hartford, Conn. Helicopter and controls therefor. 2,318,260; May 4.

Silver, Walter H., assignor to Deere & Company, Moline, Ill. Lister. 2,318,561; May 4.

Silver, Walter H., and J. I. Cantral, assignors to Deere & Company, Moline, Ill. Damming device. 2,318,562; May 4.

Simon, Emil J., New York, and E. J. Hefele, Amityville, assignors to Radio Navigational Instrument Corporation, New York, N. Y. Radio direction finder. 2,318,338; May 4.

Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)

Singer Manufacturing Company, The. (See Hacklander, Hans, assignor.)

Singer Manufacturing Company, The. (See Way, D. D., Naul, and Schenk, assignors.)

Singer Manufacturing Company, The. (See Zonis, S., and Meloy, assignors.)

Sjobom, Tor E., Alameda, Calif. Brief case. 2,318,110; May 4.

Skinner, Percival B. (See Skinner, Raymond W.)

Skinner, Raymond W. and P. B., Tulsa, Okla. Wobbler or flexible mounting for stuffing boxes. 2,318,428; May 4.

Sloane-Blabon. (See Weigle, W. C., and Kemmler, assignors.)

Smith, Albert K. (See Prutton, C. F., and Smith.)

Smith, Elizabeth G., Bronx, assignor to Mark Cross Company, New York, N. Y. Lady's handbag. 2,318,563; May 4.

Smith, Frank M., assignor to Century Motors Corporation, Dearborn, Mich. Apparatus for machining serrations in metallic bodies. 2,318,262; May 4.

Smith, Frederick C., Jr., assignor to Hughes Tool Company, Houston, Tex. Securing hard facing material to tubular members. 2,318,263; May 4.

Smith, Joseph E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Aqueous dispersions of polymerized alkyl methacrylate and preparing same. 2,318,429; May 4.

Smith Meter Company. (See Smith, Reuben S., assignor.)

Smith, Reuben S., Altadena, assignor to Smith Meter Company, Los Angeles, Calif. Air eliminator for fluid flow mechanisms. 2,318,264; May 4.

Smith, Roy M. (See Bostwick, M. A., and Smith.)

Snyder, Harry F., Montpelier, Ind., assignor to Clopay Corporation, Cincinnati, Ohio. Window shade fastening means. 2,318,564; May 4.

Snyder, Harry F., Montpelier, Ind., assignor to Clopay Corporation, Cincinnati, Ohio. Window shade attachment. 2,318,565; May 4.

Snyder, Stanley, Wilkes-Barre, Pa. Locomotive seat structure. 2,318,125; May 4.

Socony-Vacuum Oil Company. (See Minton, John P., assignor.)

Socony-Vacuum Oil Company. (See Pabst, A. C., and Prall, assignors.)

Socony-Vacuum Oil Company. (See Utterback, Ernest, assignor.)

Spahn, Joseph A., Chicago, Ill. Grass trimmer. 2,318,430; May 4.

Sparks, William L., Hartsdale, N. Y. Ring binder. 2,318,431; May 4.

Specialties Development Corporation. (See Diehl, Walter S., assignor.)

Spivak, Charles, Englewood, N. J., assignor to Micro Musical Products Corp., New York, N. Y. Mute. 2,318,535; May 4.

Spraragen, Louis, Bridgeport, Conn., assignor to Angier Products, Inc., Cambridge, Mass. Latex adhesive. 2,318,126; May 4.

Square D Company. (See Jackson, John G., assignor.)

Stagmeier, Arthur F., Upper Montclair, N. J., assignor to General Foods Corporation, New York, N. Y. Nut process. 2,318,263; May 4.

Stallmann, Otto, Bridgeton, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the dibenzanthrone series. 2,318,266; May 4.

Stanier, John S. (See Plott, Ernest B., and Stanier.)

Stanier, John S., and E. B. Plott, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Method and apparatus for descaling strip material. 2,318,432; May 4.

Stechbart, Bruno, Park Ridge, assignor to The Bell & Howell Company, Chicago, Ill. Governor controlled friction clutch. 2,318,433; May 4.

Steinberger, Alfred J., Cumberland, Md., assignor to Celanese Corporation of America. Process of coating. 2,318,111; May 4.

Stephenson, Ottis V., United States Army. Film change-over warning device. 2,318,021; May 4.

Stern, John, Philadelphia, Pa. Fluorescent lighting fixture. 2,318,536; May 4.

Sternbergh, James H. (See Scheffey, George B., assignor.)

Stewart, Edward T., St. Paul, Minn. Snow removal machine. 2,318,127; May 4.

Stillwagon, Crawford K., Houston, Tex. Union. 2,318,112; May 4.

Stoffregen, Harry F., Jr. (See Groene, W. F., and Stoffregen, Jr.)

Stokes and Smith Company. (See First, G. B., and Grotewold, assignors.)

Stolper, Harry, New York, N. Y. Ophthalmic spectacles. 2,318,537; May 4.

Stolz, Owen M., and A. D. Roush, Dayton, Ohio. Fabricated house. 2,318,022; May 4.

Stone, Allen L., assignor to Pneumastic Co., Inc., Los Angeles, Calif. Mixing and surfacing method. 2,318,339; May 4.

Stratton, Frank E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening-inserting machine. 2,318,025; May 4.

Straub, W. F., & Company. (See Strauch, Frederic P., assignor.)

Strauch, Frederic P., Wilmette, assignor to W. F. Straub & Company, Chicago, Ill. Commercial display package. 2,318,434; May 4.

Strelch, Paul B., Maywood, assignor to Charles Bruning Co., Inc., Chicago, Ill. Variable power transmission mechanism. 2,318,538; May 4.

Strickland, Harold A., Jr., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Welding apparatus. 2,318,023; May 4.

Strickland, Harold A., Jr., Grosse Pointe, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Welding apparatus. 2,318,024; May 4.

Strock, Donald V. (See Matteson, E. A., and Strock.)

Studebaker Corporation, The. (See Greenlee, H. R., Britton, and Bond, assignors.)

Stupakoff Laboratories, Inc. (See Stupakoff, S. H., and Prescott, assignors.)

Stupakoff, Semon H., Pittsburgh, and F. R. Prescott, Dormont, assignors to Stupakoff Laboratories, Inc., Pittsburgh, Pa. Glass-to-metal seal and eyelet for constructing the same. 2,318,435; May 4.

Sussberg, Victor L., New Rochelle, N. Y. Slip. 2,318,539; May 4.

Swan, Carl W., assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,318,026; May 4.

Swanson, Axel W., et al. (See Hicks, Lewis E., assignor.)

Swanson, Hilbert E. (See Brey, H. E., and Swanson.)

Sykes, George A., and A. L. Andrea, Sodus, N. Y. Dehydrating water-containing materials. 2,318,027; May 4.

Sylvania Electric Products, Inc. (See Casellini, Ezio T., assignor.)

Tabb, Warner T., Brooklyn, assignor to Eisemann Magneto Corporation, New York, N. Y. Fluid transfer apparatus. 2,318,128; May 4.

Talbert, Guy W., Summit, N. J., assignor to Allied Chemical & Dye Corporation. Calcium sulphate composition. 2,318,540; May 4.

Tark, Marcus B., Philadelphia, Pa., assignor to Link Belt Company, Chicago, Ill. Sedimentation tank. 2,318,436; May 4.

Taylor, Charles E., et al. (See Haselwood, Willis E., assignor.)

Taylor, Edward H., Oak Park, Ill. Producing pipe bends. 2,318,113; May 4.

Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill. Telephone line identification. 2,318,267; May 4.

Taylor Sales Engineering Company. (See Haselwood, Willis E., assignor.)

Teletype Corporation. (See Krum, Howard L., assignor.)

Teletype Corporation. (See Swan, Carl W., assignor.)

Terman, Frederick E., Stanford University, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Diversity receiving system. 2,318,268; May 4.

Tewksbury, John M., assignor of forty per cent to R. Lyons and twenty per cent to G. M. Davis, Skowhegon, Maine. Remote control device. 2,318,541; May 4.

Thacher, Sheldon P., Grosse Pointe, and G. G. Havens, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y. Static eliminator for vehicles. 2,318,340; May 4.

Thomas, Albert N., assignor to Thomas Hydraulic Speed Controls, Incorporated, Dodge City, Kans. Hydraulic power transmission device. 2,318,028; May 4.

Thomas, Fred L. (See Cox, J. V. B., and Thomas.)

Thomas Hydraulic Speed Controls, Incorporated. (See Thomas, Albert N., assignor.)

Thompson, Alfred E., and R. D. Salmon, assignors to Creed and Company Limited, Croydon, England. Apparatus for teaching telegraphy. 2,318,269; May 4.

Thompson, Benjamin, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Polymerization of aliphatic aldehydes. 2,318,341; May 4.

Thompson, George L., and L. A. Cejka, Avenal, Calif. Intermittent gas lift pump. 2,318,029; May 4.

Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 2,318,542; May 4.

Thompson, Joseph S., Los Altos, assignor to Pacific Electric Manufacturing Corporation, San Francisco, Calif. Automatic reclosing circuit breaker. 2,318,030; May 4.

Thompson, Joseph S., Los Altos, assignor to Pacific Electric Manufacturing Corporation, San Francisco, Calif. Automatic service restoring circuit breaker. 2,318,342; May 4.

Thompson, Joseph S., Los Altos, assignor to Pacific Electric Manufacturing Corporation, San Francisco, Calif. Service restoring circuit breaker. 2,318,343; May 4.

Thorn, Millard F., Beaumont, Tex. Piston ring. 2,318,543; May 4.

Thurmond, Gilbert I., and J. W. Jacokes, Asheville, and E. Brenner, Hendersonville, assignors to American Enka Corporation, Enka, N. C. Manufacture of mixed textiles. 2,318,544; May 4.

Tichvinsky, Leonid M., Annapolis, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thrust bearing. 2,318,114; May 4.

Torode, Thomas D., Detroit, Mich. Combination knife, fork and spoon. 2,318,129; May 4.

Tratsch, Walter A. (See Patzer, W., and Tratsch.)

Trotter, John C., assignor to Bell Aircraft Corporation, Buffalo, N. Y. Mount for machine guns. 2,318,130; May 4.

Tubbs, Ira I., assignor to M. L. Tubbs, Mount Vernon, Iowa, as trustee. Valve. 2,318,115; May 4.

Tubbs, Lester G., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating system. 2,318,116; May 4.

Tubbs, Margaret L., trustee. (See Tubbs, Ira I., assignor.)

Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Apparatus for injection molding thermosetting compounds. 2,318,031; May 4.

Turner, Wellmore B., et al., executor. (See Sherman, J. Q., and Metzner.)

Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)

Underwood Elliott Fisher Company. (See Schneble, Vincent F., assignor.)

Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)

Union Switch & Signal Company, The. (See Van Horn, James J., assignor.)

Union Switch & Signal Company, The. (See Young, Henry S., assignor.)

United Aircraft Corporation. (See Sikorsky, Igor I., assignor.)

United Shoe Machinery Corporation. (See Lane, H., and Barton, assignors.)

United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)

United Shoe Machinery Corporation. (See Russell, A. L., and Watson, assignors.)

United Shoe Machinery Corporation. (See Stratton, Frank E., assignor.)

U. S. Electrical Motors, Inc. (See Myers, Thomas G., assignor.)

United States Rubber Company. (See Eger, Ernst, assignor.)

United States Rubber Company. (See Hanslick, Roy S., assignor.)

United States Rubber Company. (See Keen, Alexis W., assignor.)

United States Rubber Company. (See Lovell, Glen A., assignor.)

United States Rubber Company. (See Thacher, S. P., and Havens, assignors.)

U. S. Slicing Machine Company. (See Mahler, William, assignor.)

Universal Oil Products Company. (See Clenicek, Joseph A., assignor.)

Universal Oil Products Company. (See Ipatieff, V. N., and Pines, assignors.)

Universal Oil Products Company. (See Johnstone, Warren W., assignor.)

Universal Railway Devices Company. (See Camp, P. B., and Bartsch, assignors.)

Urschel, Bertis H., Bowling Green, Ohio. Vehicle stabilizer-forming apparatus. 2,318,344; May 4.

Utterback, Ernest, Upper Darby, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Coking process. 2,318,131; May 4.

Van de Griendt, Gerald H., San Francisco, K. E. Marple, Oakland, and L. M. Peters, assignors to Shell Development Company, San Francisco, Calif. Production of polyhydric alcohols. 2,318,032; May 4.

Van de Griendt, Gerald H., San Francisco, K. E. Marple, Oakland, and L. M. Peters, assignors to Shell Development Company, San Francisco, Calif. Production of alcohols. 2,318,033; May 4.

Van Horn, James J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,318,545; May 4.

Vavrik, Louis, Rossford, and K. C. Atkin, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio. Surface treating machine. 2,318,117; May 4.

Vernon Tool Co. Ltd. (See Knowlton, Laurence R., assignor.)

Vernon, William F., Newton, Iowa. Pulldown calendar. 2,318,546; May 4.

Vickers, Carroll B., Buffalo, N. Y. Shock absorber. 2,318,437; May 4.

Victor Adding Machine Company. (See Lippert, Erhard M., assignor.)

Vogler, Jerome. (See Christiance, Harry C., assignor.)

Voth, Paul H., assignor to Willard Storage Battery Company, Cleveland, Ohio. Material handling mechanism. 2,318,438; May 4.

Wadely, Harold E., Scarsdale, R. R. Matthews, Cornwall, and W. A. Rice, Newburgh, assignors to Firth Carpet Company, Inc., New York, N. Y. Pile carpet or rug. 2,318,345; May 4.

Wagenseil, William O. (See Husta, P., and Wagenseil.)

Wagoner, William M., Newton, N. C. Optometrist tool. 2,318,270; May 4.

Wakefield, Richard E. B., Aldan, assignor to The Selas Company, Philadelphia, Pa. Rotary pump. 2,318,346; May 4.

Waldron, William R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing vat dyes in powder form. 2,318,439; May 4.

Wall, Alexander C., Schenectady, N. Y., assignor to General Electric Company. Spark plug. 2,318,440; May 4.

Wallace, James M. (See Rawlings, H. L., and Wallace.)

Walton, James C., Newton Center, and G. E. Hall, Dedham, assignors to Boston Woven Hose & Rubber Company, Cambridge, Mass. Nonstatic belting. 2,318,441; May 4.

Wardlyn Corporation. (See Flynn, Vincent J., assignor.)

Warner, Matthew P., and Selig S. Liese, Freeport, assignors to B. Rosenberg and S. W. Fried, New York, N. Y., as trustees. Selective automatic apparatus for reproducing images from records thereof. 2,318,118; May 4.

Watson, William M. (See Russell, A. L., and Watson.)

Way, Donald D., Westfield, J. M. Naul, Fanwood, and C. R. Schenk, Jersey City, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 2,318,442; May 4.

Wayne, Truman B., Houston, Tex. Emulsion breaking compound. 2,318,034; May 4.

Wayne, Truman B., Houston, Tex. Process and reagent for resolving emulsions. 2,318,035; May 4.

Webb, George, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Gun mount. 2,318,348; May 4.

Weiche, Walter, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Antenna transformer. 2,318,271; May 4.

Weigle, William C., Philadelphia, and J. W. Kemmler, Elkins Park, Pa., assignor to Sloane-Blabon, Trenton, N. J. Producing linoleum products. 2,318,272; May 4.

Welch, William E., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Golf ball. 2,318,547; May 4.

Welk, Nelson S., assignor to The McBee Company, Athens, Ohio. Automatic stop for counting machines. 2,318,132; May 4.

Wentz, William M., Carney's Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyeing with vat dyes. 2,318,133; May 4.

Werk, M., Company, The. (See Eisenlohr, Gustav W., assignor.)

Werme, Adolph, assignor to Reed & Prince Manufacturing Company, Worcester, Mass. Detchable bit tool. 2,318,273; May 4.

Werntz, James H., Brandywine Hundred, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of surface-active sulphonates. 2,318,036; May 4.

West, William R., assignor to White Sewing Machine Corporation, Cleveland, Ohio. Sewing machine cabinet. 2,318,443; May 4.

Westerlund, Paul H., assignor to Deere & Company, Moline, Ill. Tractor mower. 2,318,274; May 4.

Western Electric Company. (See Benfer, Richard W., assignor.)

Western Electric Company. (See Boynton, Stanley E., assignor.)

Western Electric Company. (See Gillis, Randall, assignor.)

Western Electric Company. (See Martindell, Frank, assignor.)

Western Electric Company. (See Selvig, John N., assignor.)

Westhaver, Harold J., San Diego, Calif. Ball bearing streamlined swivel. 2,318,119; May 4.

Westinghouse Electric & Manufacturing Company. (See Aschwanden, Karl, assignor.)

Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bakken, Andrew H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bostwick, M. A., and Smith, assignors.)

Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bramble, J. H., and Dunn, assignors.)
Westinghouse Electric & Manufacturing Company. (See Dailey, Hampton J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dorfman, H. D., and G. Freese, assignors.)
Westinghouse Electric & Manufacturing Company. (See Eisner, R. and Rebhan, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hill, C. F., and Berberich, assignors.)
Westinghouse Electric & Manufacturing Company. (See Johns, Francis J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Koch, Gustav H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Leonard, Merrill G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lindstrom, Ture, assignor.)
Westinghouse Electric & Manufacturing Company. (See Myers, Henry C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Penney, Gaylord W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Purifoy, George R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Putman, Henry V., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rawlings, H. L., and Wallace, assignors.)
Westinghouse Electric & Manufacturing Company. (See Ryan, Alden H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schultz, Joseph A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tichvinsky, Leonid M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tubbs, Lester G., assignor.)
Westinghouse Electric Elevator Company. (See McCormick, Harold V., assignor.)
Weston, Alexander S., New York, N. Y. Lighter. 2,318,037; May 4.
White, Charles H., assignor to Deere & Company, Moline, Ill. Disk harrow. 2,318,275; May 4.
White, Elam G. (See King, C. G., and White.)
White, S. S., Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)
White Sewing Machine Corporation. (See West, William R., assignor.)
Whitehead, Cecil S. (See Whitehead, Walter J., and Cecil S.)
Whitehead, Walter J. and C. S., Rochester, England. Temporarily retaining members together. 2,318,548; May 4.
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Treatment of textile yarns and filaments. 2,318,120; May 4.
Wichita Casket Company, The. (See Allshouse, H. A. Button and Frazier, assignors.)
Widmer, Gustav, Basel, and W. Fisch, Muttenz, near Basel, Switzerland, assignors, by mesne assignments, to Ciba Products Corporation, Dover, Del. Aminotriazine-aldehyde binding agents. 2,318,121; May 4.
Wiggings, John H., Chicago, Ill. Seal for floating tank roofs. 2,318,134; May 4.
Wiggins, John H., Chicago, Ill. Seal for floating tank roofs. 2,318,135; May 4.
Wiley, Bryce R., Des Moines, Iowa. Erosion check dam. 2,318,349; May 4.
Wilkie, James W., assignor to Continental Machines, Incorporated, Minneapolis, Minn. Metal cutting saw band. 2,318,549; May 4.
Willard Storage Battery Company. (See Bailey, Robert M., assignor.)
Willard Storage Battery Company. (See Bushman, Julius H., assignor.)
Willard Storage Battery Company. (See Voth, Paul H., assignor.)
Williams, Theodore C., Stamford, Conn. Article carrier and stand. 2,318,122; May 4.
Wilson, Howard W., assignor to Paulus Brothers Packing Company, Salem, Oreg. Can stacker. 2,318,444; May 4.
Winn, Sidney B., Lapeer, Mich. Tractor-trailer. 2,318,038; May 4.
Wintermute, George J., and D. E. Bench, assignors, by mesne assignment, to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Hydraulic landing gear. 2,318,568; May 4.
Winthrop Chemical Company. (See Leuchs, Friedrich, assignor.)
Wintritz, George, Staten Island, N. Y., assignor to Conmar Products Corporation, Bayonne, N. J. Method and apparatus for making die rolls. 2,318,445; May 4.
Wittman, Richard C., Emporium, Pa. Tractor wheel adapter. 2,318,550; May 4.
Wohlfarth, Otto. (See Patzschke, W. K. and Wohlfarth.)
Wolters, Carl F., Kenmore, assignor to Remington Rand Inc., Buffalo, N. Y. Punch. 2,318,446; May 4.
Wonacott, Charles N. (See Arnold, George T., assignor.)
Wood, Everett N., Minneapolis, Minn. Rock crusher. 2,318,039; May 4.
Wooldridge Manufacturing Company. (See Berner, Leo, assignor.)
Woodward, Phebe H., executrix. (See Woodward, W. E. and Filander.)
Woodward, William E., deceased, P. H. Woodward, executrix, Forest Hills, and A. H. Filander, New York, N. Y., said Filander, assignor to Lima Locomotive Works, Incorporated, Lima, Ohio. Locomotive construction. 2,318,040; May 4.
Worthington, Wayne H., assignor to John Deere Tractor Company, Waterloo, Iowa. Engine lubricating system. 2,318,276; May 4.
Wright, Clyde E., Elyria, assignor to The Ridge Tool Company, North Ridgeville, Ohio. Yoke vise. 2,318,566; May 4.
Wrought Washer Mfg. Co. (See Caldwell, Eugene, assignor.)
Yensen, Arthur E., Lowell, Nebr. Shovel. 2,318,277; May 4.
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,318,551; May 4.
Youngstown Sheet & Tube Company, The. (See Plott, E. B., and Stanier, assignors.)
Youngstown Sheet & Tube Company. (See Stanier, J. S. and Plott, assignors.)
Youngstown Steel Door Company, The. (See Erhardt, Edward A., assignor.)
Zarwell, Cedric E. (See Johnson, R. W., and Zarwell.)
Zimmer, Myron J., Chicago, and R. B. Paysee, Oak Park, assignors to The Edward Katzinger Company, Chicago, Ill. Can opener. 2,318,350; May 4.
Zonis, Sydney, Bridgeport, and A. S. Meloy, Jr., Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Looper mechanism for sewing machines. 2,318,447; May 4.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Washing machine. G. W. Dunham. Re. 22,307; May 4.

LIST OF PLANT INVENTIONS

Plant, Rose. F. H. Howard. 581; May 4.

Peach. C. B. Fox. 580; May 4.

LIST OF DESIGN INVENTIONS

Badge. F. de Ganahl. 135,611; May 4.
Booth, Telephone. G. R. Lum. 135,617; May 4.
Brassière. J. Cohn. 135,639; May 4.
Cap, Flue. S. J. Heiman. 135,628; May 4.
Clasp. W. E. Michael. 135,629; May 4.
Container. M. S. Karoff. 135,616; May 4.
Container or the like, Talc. F. McIntosh. 135,618; May 4.
Container, Ration. N. T. Naranick. 135,619; May 4.
Container, Ration. N. T. Naranick. 135,630–1; May 4.
Control unit, Hydraulic. R. W. Bryant. 135,626; May 4.
Crucifix or similar article. J. P. Calnan. 135,610; May 4.
Dress. A. Hochberg. 135,614; May 4.
Dress. H. H. Stahl. 135,644; May 4.
Fabric, Textile. S. Klauber. 135,602; May 4.
Fixture, Lighting. E. B. Hallman. 135,613; May 4.
Gasoline station. R. H. Fletcher, Jr. 135,612; May 4.
Handbag. B. Kalisher. 135,603–7; May 4.
Helmet and cape, Combined. N. Renke. 135,632; May 4.
Holder, Broom. S. Agosta. 135,636; May 4.
Holder, Cigarette pack. E. Kanter. 135,621–5; May 4.
Hood. M. Eskind. 135,641; May 4.
House. A. T. Brown. 135,609; May 4.
Jewelry finding or the like. G. B. Nielsen. 135,620; May 4.
Lace, Embroidered. J. Wiener. 135,645–6; May 4.
Meter and pump housing or the like, Combined. C. W. Ginter. 135,627; May 4.
Paperweight and stamp dispenser, Combination. F. V. Raymundo. 135,643; May 4.
Pin or similar article. L. Kalina. 135,615; May 4.
Pipe fitting, Elbow. J. E. Stark and E. G. Schmidt. 135,634; May 4.
Post, Binding. F. J. Coppola. 135,640; May 4.
Statuette. A. Basescu. 135,608; May 4.
Tablecloth or similar article. C. I. Betesh. 135,637–8; May 4.
T-pipe fitting. J. E. Stark and E. G. Schmidt. 135,633; May 4.
Trouser-skirt. V. Giovagnoni. 135,642; May 4.
Wrist watch and compass and strap therefor, Combination. E. von Burg. 135,635; May 4.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive. R. C. Benner and H. N. Baumann, Jr. 2,318,360; May 4.
Abrasives, Manufacture of. R. P. Carlton. 2,318,570–1; May 4.
Acetylene derivatives of the cyclopentanopolyhydrophenanthrene series and process of preparing same, Hydrated. L. Ruzicka. 2,318,105; May 4.
Adapter, Tractor wheel. R. C. Wittman. 2,318,550; May 4.
Air cleaning, Electrically neutral. G. W. Penney. 2,318,093; May 4.
Air eliminator for fluid flow mechanisms. R. S. Smith. 2,318,264; May 4.
Air exhausting apparatus for pumping systems. T. F. Moore. 2,318,251; May 4.
Air translating apparatus. G. H. Koch. 2,318,501; May 4.
Aircraft, Direct-lift. I. I. Sikorsky. 2,318,259; May 4.
Alcohols, Production of. G. H. van de Griendt, K. E. Marple, and L. M. Peters. 2,318,033; May 4.
Alcohols, Production of polyhydric. G. H. van de Griendt, K. E. Marple, and L. M. Peters. 2,318,032; May 4.
Aliphatic aldehydes. Polymerization of. B. Thompson. 2,318,341; May 4.
Alloy: *See*—
  Magnesium-base alloy.
Aminotriazine-aldehyde binding agent. G. Widmer and W. Fisch. 2,318,121; May 4.
Ammonium compounds, Quaternary. F. Leuchs. 2,317,999; May 4.
Anchor, Fuse. J. A. Björkman. 2,318,282; May 4.
Antenna feed system. N. E. Lindenblad. 2,318,237; May 4.
Antenna system. High frequency. W. H. Newbold. 2,318,516; May 4.
Antiseptic. Hexyl-chloro-m-cresol. F. W. Hartman and V. Schelling. 2,318,387; May 4.
Antiseptic. Hexyl-chloro-m-cresol. F. W. Hartman and V. Schelling. 2,318,390; May 4.
Antiseptic. Hexyl-dichloro-resorcinol. F. W. Hartman and V. Schelling. 2,318,388–9; May 4.
Antislip foot. E. Schmidt. 2,318,017; May 4.
Antistatic agent and its application. J. B. Dickey. 2,318,296; May 4.
Apparatus for coating metal strip or wire. E. B. Plott and J. S. Stanier. 2,318,419; May 4.
Apparatus for descaling strip material, Method and. J. S. Stanier and E. B. Plott. 2,318,422; May 4.
Apparatus for fiberizing fusible inorganic substances and forming the fibers into bats. B. C. McClure. 2,318,243; May 4.
Apparatus for filling berry containers. G. Harrison. 2,318,483; May 4.
Apparatus for filling oil drums or the like. E. Burdick. 2,318,462; May 4.
Apparatus for heating material. J. N. Selvig. 2,318,533; May 4.
Apparatus for injection molding thermosetting compounds. W. R. Tucker. 2,318,031; May 4.
Apparatus for machining serrations in metallic bodies. F. M. Smith. 2,318,262; May 4.
Apparatus for making die rolls, Method of. G. Wintritz. 2,318,445; May 4.
Apparatus for preserving juice. F. H. Collins. 2,318,141; May 4.
Apparatus for producing sheet material, Method and. E. R. Derby and F. A. Parkhurst. 2,318,469; May 4.
Apparatus for teaching telegraphy. A. E. Thompson and R. D. Salmon. 2,318,209; May 4.
Apparatus for the manufacture of shoes. G. S. Marx. 2,318,509; May 4.
Apparatus for transferring freight. B. F. Fitch. 2,317,984; May 4.
Apparatus for treating and packaging sutures and the like. W. S. and C. T. Davis. 2,318,381; May 4.
Apparatus for treating liquids flowing through heated tubes. G. W. Eisenlohr. 2,318,206; May 4.
Apparatus for trimming excavations, Method of. J. M. Crom. 2,318,294; May 4.
Apparatus for twisting rayon, Process and. F. J. Jones and J. L. Bitter. 2,318,162; May 4.
Appliance device, Orthodontic. J. A. Linde. 2,318,001; May 4.
Apron for well tubing, Protecting. E. Cooper. 2,318,466; May 4.
Armor, Bullet resisting. E. Eger. 2,318,301; May 4.
Ascorbic acid and 1-gulosone, Preparation of. C. G. King and E. G. White. 2,318,500; May 4.
Ash receiver. S. Ferman. 2,318,149; May 4.
Ash tray. F. A. Joseph. 2,318,078; May 4.
Attachment, Window shade. H. F. Snyder. 2,318,565; May 4.
Automatic change-over device, Low pressure. T. A. St. Clair. 2,318,261; May 4.
Automotive vehicle. C. S. Ash. 2,317,972; May 4.
Baby's high chair, Collapsible. A. Eliner. 2,318,475; May 4.
Baling press. I. Z. Martin. 2,318,407; May 4.
Ball reprojector. P. La Rock. 2,318,169; May 4.
Band filter. J. Schwartz. 2,318,531; May 4.
Batter mixer. T. Seybert. 2,318,534; May 4.
Battery, Storage. J. H. Bushman. 2,318,371; May 4.
Bearing: *See*—
  Dirtproof bearing. Thrust bearing.
  Shaft bearing.
Bearing structure. P. I. Nagle. 2,318,253; May 4.
Bed, Hospital or invalid. G. N. Mas. 2,318,240; May 4.
Belt, Cartridge. C. E. Balleisen. 2,317,973; May 4.
Belt-measuring apparatus. E. L. Schick and J. E. Ashworth. 2,318,530; May 4.
Belting, Nonstatic. J. C. Walton and G. E. Hall. 2,318,441; May 4.
Binder, Ring. W. L. Sparks. 2,318,431; May 4.
Bit: *See*—
  Oil well drilling bit.
Bit tool, Detachable. A. Werme. 2,318,273; May 4.
Blind. H. N. Renton. 2,318,525; May 4.
Body for hand trucks, Removable. J. R. Katzman. 2,318,231; May 4.
Bolster. H. H. Shaffer. 2,318,427; May 4.
Bolt spring locking screw. O. Ball. 2,318,356; May 4.
Bottle washer. P. C. Read. 2,318,524; May 4.
Brake: *See*—
  Hand brake. Traction brake.
Brief case. T. E. Sjobom. 2,318,110; May 4.
Building construction. A. C. Olsen. 2,318,092; May 4.
Building unit and construction made therefrom. R. R. Colburn. 2,318,058; May 4.
Button holder. J. Brussell. 2,318,369; May 4.
Cabinet: *See*—
  Sewing machine cabinet.
Calcium sulphate composition. G. W. Talbert. 2,318,540; May 4.
Calculating machine. W. E. Mathi. 2,318,241; May 4.
Calendar, Pulldown. W. F. Vernon. 2,318,546; May 4.
Camphene, Preparing. C. O. Henke and G. Etzel 2,318,391; May 4.
Canalization. P. Jacquier. 2,318,401; May 4.
Cap and making the same. L. Schreyer. 2,318,185; May 4.
Capacitor construction and circuit arrangement for polyphase circuits. M. I. Alimansky. 2,317,970; May 4.
Car stop, Mine. D. W. Perdew. 2,318,521; May 4.
Carburetor for multicylinder internal combustion engine. T. A. Morris. 2,318,008; May 4.
Carburetor, Variable fuel orifice. O. L. Garretson. 2,318,216; May 4.
Carpenter's tool. R. Kellett. 2,318,404; May 4.
Carpet or rug, Pile. H. E. Wadely, R. R. Matthews, and W. A. Rice. 2,318,345; May 4.
Carrier and stand, Article. T. C. Williams. 2,318,122; May 4.
Carton, Angular-walled. J. D. Clarke. 2,318,198; May 4.
Carton feeding and filling system. G. B. First and H. Grotewold. 2,318,208; May 4.
Carton, Shipping and display. E. C. Berg. 2,318,452; May 4.
Case: *See*—
  Brief case. Travel case.
Casket. H. A. Allshouse, A. D. Button, and R. W. Frazier. 2,318,353; May 4.
Catch. H. W. Neunherz. 2,318,412; May 4.
Catheters. V. J. Flynn. 2,317,987; May 4.
Chair: *See*—
  Baby's high chair.
Chair. D. F. Ebbert. 2,318,067; May 4.
Chutes, Coin. P. E. Mills. 2,318,410; May 4.
Circuit: *See*—
  Pilot-wire supervisory circuit.
Circuit breaker. H. D. Dorfman and G. J. Freese. 2,318,298; May 4.
Circuit breaker. J. G. Jackson. 2,318,227; May 4.
Circuit breaker. M. G. Leonard. 2,318,085; May 4.

Circuit breaker, Automatic reclosing. J. S. Thompson. 2,318,030; May 4.
Circuit breaker, Automatic service restoring. J. S. Thompson. 2,318,342; May 4.
Circuit breaker, Field discharge. T. Lindstrom. 2,318,086; May 4.
Circuit breaker, Service restoring. J. S. Thompson. 2,318,343; May 4.
Circuit control device. W. Hotine. 2,318,223; May 4.
Circuit controlling device. R. B. Hunter and H. L. Mekelburg. 2,318,488; May 4.
Circuit interrupter. K. Aschwanden. 2,318,042; May 4.
Circuit interrupter. A. H. Bakken. 2,318,044; May 4.
Circuit interrupter. H. L. Rawlins and J. M. Wallace. 2,318,421; May 4.
Circuits, Automatic bias. H. J. Dailey. 2,318,061; May 4.
Circular shaping machine. W. F. Groene. 2,318,305; May 4.
Clamp. R. D. Moore. 2,318,411; May 4.
Clamping device, Bag. P. Hannah. 2,318,156; May 4.
Cleansing agent and the manufacture thereof. R. F. Ruthruff. 2,318,555; May 4.
Clip: *See*—
  Collar clip.
Clip for spectacle cases, Retaining. J. R. Linville. 2,318,238; May 4.
Closure for non-refillable containers. J. S. del Llano. 2,318,382; May 4.
Clothesline. L. G. Copeman. 2,318,375; May 4.
Clutch: *See*—
  Governor controlled friction clutch. Self-locking freewheel clutch.
Clutch. R. Becker. 2,318,357; May 4.
Clutch for pencils, Lead. H. Maucher. 2,318,510; May 4.
Coating for electric lamps, Luminescent. E. T. Casellini. 2,317,977; May 4.
Coating, Process of. A. J. Steinberger. 2,318,111; May 4.
Coin and check separator. W. Patzer and W. A. Tratsch. 2,318,520; May 4.
Coking process. E. Utterback. 2,318,131; May 4.
Collar clip. R. G. Barreto. 2,318,045; May 4.
Compass, Toolmaker's. J. A. Fried. 2,318,384; May 4.
Compensating arrangement for thermal relays. K. Aschwanden. 2,318,279; May 4.
Composition for limed hides, Washing and deliming. H. Bertsch and F. Schmitt. 2,318,454; May 4.
Composition of matter. L. H. Flett. 2,317,986; May 4.
Compression riveter. F. P. Forss. 2,318,071; May 4.
Condensation product, Nonresinous. F. M. Clark. 2,318,373; May 4.
Condenser: *See*—
  Electrical condenser.
Conical cap for collapsible tubes. G. L. Lateur. 2,317,998; May 4.
Connector: *See*—
  Female connector. Mop connector.
Container: *See*—
  Demountable freight container.
Control apparatus. R. Gillis. 2,318,479; May 4.
Control apparatus. E. C. Raney. 2,318,553; May 4.
Control device. E. C. Raney. 2,318,554; May 4.
Control device for fluorescent lamps. A. M. Cohen. 2,318,057; May 4.
Control for fluid transmissions, Automatic. H. W. Addison, Jr. 2,318,187; May 4.
Control means for heating devices. E. A. Jones. 2,318,228; May 4.
Control mechanism, Automatic program. W. N. Bodkin. 2,318,048; May 4.
Control mechanism for motor vehicles. G. E. Porter. 2,318,258; May 4.
Control system. B. O. Austin. 2,318,043; May 4.
Control system, Automatic gain. R. L. Hollingsworth. 2,318,075; May 4.
Control system, Condition. A. W. Bedford, Jr. 2,318,358; May 4.
Conveyer apparatus. E. Cowles. 2,317,978; May 4.
Conveyer for semiliquid materials. A. Massano. 2,318,176; May 4.
Conveyer release mechanism. A. E. Duerig. 2,318,567; May 4.
Conveying and distributing system. G. A. Morse. 2,318,180; May 4.
Conveying apparatus. P. R. Hornbrook. 2,318,395; May 4.
Cooler construction. J. S. Palmer. 2,318,414; May 4.
Copper or its alloys, Material for and process of pickling. J. O. Percival. 2,318,559; May 4.
Core structure. H. V. Putman. 2,318,095; May 4.
Corona elimination in generator end winding. C. F. Hill and L. J. Berberich. 2,318,074; May 4.
Cosmetic holder. A. Gelardin. 2,318,152; May 4.
Coupling: *See*—
  Joint or coupling. Pipe coupling.
Coupling between shafts and wheels. P. H. Brace. 2,318,051; May 4.
Crossarm reenforcement. L. G. Hoyt. 2,318,396; May 4.
Crusher. J. V. B. Cox and F. L. Thomas. 2,318,142; May 4.
Crusher and grinder, Combination. V. E. Clarke. 2,318,290; May 4.
Crusher, Rock. E. N. Wood. 2,318,039; May 4.
Crystalline salts, Production of coarse. W. B. Bussmann. 2,318,463; May 4.
Curtain stretcher. A. Q. Bulger. 2,318,288; May 4.
Cutoff for sewing machines. J. and A. Cobble. 2,318,200; May 4.
Cutting apparatus. S. E. Boynton. 2,318,050; May 4.
Cutting sheets of different lengths from traveling webs. H. J. Luehrs. 2,318,173; May 4.
Damming device. W. H. Silver and J. I. Cantral. 2,318,562; May 4.
Degreaser. J. F. Black. 2,318,455; May 4.
Delivery valve. L. Beeh. 2,318,449; May 4.
Demountable freight container. B. F. Fitch and R. A. Norbom. 2,317,985; May 4.
Dental and mouth cleansing means. B. Boysen. 2,318,365; May 4.
Dental bridge prothesis, Preparation of. K. A. S. Karlström. 2,318,402; May 4.
Dental equipment stand. R. C. Angell. 2,317,971; May 4.
Depth controlling mechanism, Automatic. T. Brown. 2,318,194; May 4.
Device for refrigerated beverages. A. L. Hann. 2,318,309; May 4.
Device for removing curvature from metallizing wires. A. P. Shepard. 2,318,019; May 4.
Device for the parallel guidance of dental tools. K. A. S. Karlström. 2,318,403; May 4.
Device for trimming lawns. W. J. Rowan. 2,318,334; May 4.
Dial operator, Automatic. M. and R. Demeulenaere. 2,318,467; May 4.
Die insert. F. P. Gardner. 2,318,478; May 4.
Dirtproof bearing. R. W. Richmond. 2,318,097; May 4.
Disk, Polishing. C. F. Schlegel. 2,318,016; May 4.
Dispersion of polymerized alkyl methacrylate and preparing the same, Aqueous. J. E. Smith. 2,318,429; May 4.
Display package, Commercial. F. P. Strauch. 2,318,434; May 4.
Diversity receiving system. F. E. Terman. 2,318,268; May 4.
Dolly, Kneeling. F. T. Cooper. 2,318,059; May 4.
Door check. S. T. Alexander. 2,318,041; May 4.
Door lock. E. A. Erhardt. 2,318,146; May 4.
Door operating mechanism, Elevator. H. V. McCormick. 2,318,090; May 4.
Draft appliance. T. F. Dwyer, Jr., and D. W. Gray. 2,318,472; May 4.
Drill: *See*—
  Portable drill. Rock drill.
Drilling apparatus. F. H. Mueller and W. J. Bowan. 2,318,321; May 4.
Drilling mud. R. B. Booth. 2,318,284; May 4.
Driving and steering mechanism for automobiles. E. J. McFarland. 2,318,245; May 4.
Drying apparatus, Yarn. C. E. McAllister. 2,318,511; May 4.
Dyes in powder form, Preparing vat. W. R. Waldron. 2,318,439; May 4.
Dyestuffs of the anthraquinone series. R. N. Lulek and E. C. Buxbaum. 2,318,174; May 4.
Dyestuffs of the dibenzanthrone series. O. Stallmann. 2,318,266; May 4.
Dyeing with vat dyes. W. M. Wentz. 2,318,133; May 4.
Earth moving equipment. L. Berner. 2,318,190; May 4.
Electric conductor, Insulated. J. E. Brigg. 2,318,367; May 4.
Electric converter. G. Leischner. 2,318,503; May 4.
Electric plug. H. B. Jones. 2,318,230; May 4.
Electric switch. M. N. Russell and S. Keilien. 2,318,015; May 4.
Electrical condenser. J. A. Flanzer and P. Bein. 2,318,070; May 4.
Electrical winding. R. Elsner and J. Rebhan. 2,318,068; May 4.
Electrode. F. C. Ellis. 2,318,207; May 4.
Electromagnet. G. Bellows, Jr. 2,318,359; May 4.
Electron discharge device. J. R. Pierce. 2,318,418; May 4.
Electron discharge device. A. L. Samuel. 2,318,423; May 4.
Elongated structure formed from synthetic materials. A. G. Bouhuys. 2,318,457; May 4.
Embalming fluid. L. McDonald. 2,318,319; May 4.
Emulsion breaking compound. T. B. Wayne. 2,318,034; May 4.
Engine: *See*—
  Internal combustion rotary engine.
Engine lubricating system. W. H. Worthington. 2,318,276; May 4.
Engine starter, Manually engaged. J. W. Fitz Gerald. 2,318,209; May 4.
Engines, Method of cooling. A. C. Pabst and J. H. Prall. 2,318,558; May 4.
Envelope. G. T. Arnold. 2,318,278; May 4.
Erosion check dam. B. R. Wiley. 2,318,349; May 4.
Escapement type switch. G. Deakin. 2,318,204; May 4.
Esters, Manufacture of cellulose. C. J. Malm. 2,318,573; May 4.
Exothermic device. F. Racen. 2,318,420; May 4.
Extracting. R. B. McKinnis. 2,318,178; May 4.

Fabric: *See*—
Loop pile fabric.
Fastener. B. C. Place. 2,318,182; May 4.
Fastener. S. Segal. 2,318,123; May 4.
Fastening-inserting machine. F. E. Stratton. 2,318,025; May 4.
Fastening means, Window shade. H. F. Snyder. 2,318,564; May 4.
Feed system for grinding mills. W. C. Hanna, H. E. Kaiser, and A. Harvey. 2,318,306; May 4.
Feeder: *See*—
Sheet feeder.
Female connector. W. P. Herman. 2,318,485; May 4.
Fiberizing mineral substances by centrifuge and blast. B. C. McClure. 2,318,244; May 4.
Filing system, Card. J. Iuculand. 2,318,489; May 4.
Film change-over warning device. O. V. Stephenson. 2,318,021; May 4.
Film splicing. A. F. Brolin. 2,318,287; May 4.
Films, foils, bands and the like from cellulose solutions, Manufacture of. E. Czapek. 2,318,552; May 4.
Filter: *See*—
Band filter. Floating oil filter.
Fire alarm gong apparatus. J. M. McGuinness. 2,318,005; May 4.
Floating oil filter. W. E. Haselwood. 2,318,220; May 4.
Fluorescent lamp system, High intensity. W. C. Hall, Jr. 2,318,072; May 4.
Fluid composition. L. F. Jehle. 2,318,079; May 4.
Fluid pump. M. E. Chandler. 2,318,292; May 4.
Fluid pump. A. G. Schlosser. 2,318,337; May 4.
Fluid transfer apparatus. W. T. Tabb. 2,318,128; May 4.
Form for casting concrete floor beams. B. F. Friberg. 2,318,214; May 4.
Form for concrete walls, floors or the like. M. Lapidus. 2,317,997; May 4.
Furnace: *See*—
Warm air furnace.
Game apparatus. D. E. Hooker. 2,318,394; May 4.
Garment hanger. M. A. LaPorte. 2,318,084; May 4.
Gas generating apparatus. J. T. Dockery. 2,318,297; May 4.
Gas purification process. A. R. Powell. 2,318,522; May 4.
Gaseous discharge lamp. P. A. Kober and T. M. Cortese. 2,318,082; May 4.
Gaseous mixtures, Separation and purification of. A. R. Powell. 2,318,523; May 4.
Gate construction, Hydraulic. H. E. Boath, C. F. MacNish, and H. Cole. 2,317,975; May 4.
Gauge: *See*—
Loom gauge. Strain gauge.
Gear: *See*—
Hydraulic landing gear.
Gear finishing. M. B. Mentley. 2,318,179; May 4.
Gearing, Engine starter. D. P. Kearney. 2,318,232; May 4.
Golf ball. W. E. Welch. 2,318,547; May 4.
Governor controlled friction clutch. B. Stechbart. 2,318,433; May 4.
Grain separator. H. Mjolsness. 2,318,249; May 4.
Grain separator. H. Mjolsness. 2,318,250; May 4.
Grass trimmer. J. A. Spahn. 2,318,430; May 4.
Graver holder. W. Marsheck. 2,318,004; May 4.
Gripping mechanism. E. A. Matteson and D. V. Strock. 2,318,242; May 4.
Guide for sewing machines, Uncurling. H. Hacklander. 2,318,385; May 4.
Guide or folder for sewing machines, Binder. A. J. Bloodgood. 2,318,047. May 4.
Gun mount. G. Webb. 2,318,348; May 4.
Gun rifling machine. W. P. Groene and H. F. Stoffregen, Jr. 2,318,155; May 4.
Hand brake. P. B. Camp and H. E. Bartsch. 2,318,569; May 4.
Handbag, Lady's. E. G. Smith. 2,318,563; May 4.
Handle device for toilet seats and covers, Lifting. L. Operer. 2,318,518; May 4.
Hanger: *See*—
Garment hanger.
Harrow, Disk. C. H. White. 2,318,275; May 4.
Harvester-thresher, Self-propelled. L. P. Millard and S. D. Pool. 2,318,409; May 4.
Harvesting machine. R. L. Anderson and C. R. Arnold. 2,318,188; May 4.
Headlight. L. E. Hicks. 2,318,311; May 4.
Heat exchange apparatus. F. Honerkamp, V. F. Self, and F. J. Kurth. 2,318,393; May 4.
Heated press. C. L. Huntoon. 2,318,399; May 4.
Heater: *See*—
Space heater.
Heating apparatus, Adjustable. F. S. Denneen and W. C. Dunn. 2,318,468; May 4.
Heating pad. J. A. Schultz. 2,318,109; May 4.
Helicopter and controls therefor. I. I. Sikorsky. 2,318,260; May 4.
High-frequency apparatus. A. H. Ryan. 2,318,106; May 4.
High frequency oscillators, Modulator for. E. G. Linder. 2,317,170; May 4.
Hoist, Vulcanizer. J. C. Heintz. 2,318,310; May 4.
Holder: *See*—
Button holder. Graver holder.
Cosmetic holder. Ironing cord holder.
Holder and needle for hand knitting. O. C. Semonsen. 2,318,018; May 4.
Holder and retractor, Combined twine. F. H. McIlwain. 2,318,513; May 4.
Holder for displaying and mailing handkerchiefs and the like. E. E. Bunker. 2,318,461; May 4.
Holder for pencils and the like. J. G. Lipic, Jr. 2,318,171; May 4.
Hospital table. J. W. Boren. 2,318,458; May 4.
House, Fabricated. O. M. Stolz and A. D. Roush. 2,318,022; May 4.
Housing assembly, Fluid impeller. P. I. Nagle. 2,318,254; May 4.
Hydraulic drive. P. de Mattia. 2,318,065; May 4.
Hydraulic landing gear. G. J. Wintermute and D. E Bench. 2,318,568; May 4.
Hydrocarbons, Manufacture of halogenated. M. Mueller-Cunradi, A. Cantzler and H. Krekeler. 2,318,323; May 4.
Hydrocarbons, Treatment of. J. A. Chenicek. 2,318,196; May 4.
Hydrocarbons, Treatment of. W. W. Johnstone. 2,318,495; May 4.
Hydropneumatic tank. J. A. Dodd. 2,318,066; May 4.
Ignition device. F. Miess. 2,318,408; May 4.
Ignition system. P. E. Cate. 2,318,195; May 4.
Indicating device. D. C. Rockola. 2,318,526; May 4.
Indicator: *See*—
True airspeed indicator. Visual indicator.
Inertia actuated device. W. S. Diehl. 2,317,982; May 4.
Ink and vehicle therefor, Ceramic stenciling. F. Shurley. 2,318,124; May 4.
Intermittent gas lift pump. G. L. Thompson and L. A. Cejka. 2,318,029; May 4.
Internal combustion engine operating on the two-stroke cycle with liquid full injection. H. R. Ricardo. 2,318,333; May 4.
Internal combustion, rotary engine. C. H. Miller. 2,318,514; May 4.
Iron core, High-frequency. W. K. Patzschke and O. Wohlfarth. 2,318,415; May 4.
Ironer. L. Ringer. 2,318,422; May 4.
Ironing cord holder. T. G. Boman. 2,317,976; May 4.
Isobutane, Production of. V. N. Ipatieff and H. Pines. 2,318,225–6; May 4.
Jack: *See*—
Surface rod line jack.
Jack carriage. H. H. Schramm. 2,318,108; May 4.
Jacket construction. M. Davidow. 2,318,295; May 4.
Jar sealing device or the like. J. R. Fleisch. 2,318,210; May 4.
Jet lighter. F. L. Phillips. 2,318,327; May 4.
Joint or coupling, Labyrinth. P. E. Mercier. 2,318,006; May 4.
Joints of wound cores, Grinding butt. J. H. Bramble and M. Dunn. 2,318,052; May 4.
Knife, fork, and spoon, Combination. T. D. Torode. 2,318,129; May 4.
Lacquer or varnish resist, Producing. C. E. Meulendyke. 2,318,322; May 4.
Laminated sheet and producing same. F. A. Rojas. 2,318,184; May 4.
Lamp: *See*—
Gaseous discharge lamp.
Lamp guard and reflector unit. R. Popp. 2,318,329; May 4.
Lap storage rack. J. R. Kerry. 2,318,081; May 4.
Lasting machine. H. Lane and W. A. Barton. 2,318,083; May 4.
Latex adhesive. L. Spraragen. 2,318,126; May 4.
Laundry machine. W. E. Myers. 2,318,252; May 4.
Letter writing machine. F. W. Nichol and L. H. Fronefield. 2,318,325; May 4.
Lifting and/or holding device. D. L. Kellems. 2,318,164; May 4.
Light-sensitive diazotype layers and making same. R. J. H. Alink. 2,318,352; May 4.
Light-sensitive material. W. Michaelis. 2,318,007; May 4.
Lighter. A. S. Weston. 2,318,037; May 4.
Lighter and fuel filling for same. A. Harris. 2,318,307; May 4.
Lighting fixture, Fluorescent. J. Stern. 2,318,536; May 4.
Liner setting and washing device for wells. L. R. Knowlton. 2,318,167; May 4.
Linoleum, Producing inlaid. F. W. Gans. 2,318,215; May 4.
Linoleum products, Producing. W. C. Weigle and J. W. Kemmler. 2,318,272; May 4.
Lister. W. A. Hyland. 2,318,224; May 4.
Lister. W. H. Silver. 2,318,561; May 4.
Loaf assembling and aligning device, Fractional wrapped. W. A. Hayssen, and D. R. Horwitz. 2,318,221; May 4.
Lock: *See*—
Door lock. Nut lock.
Lock device. E. N. Jacobi. 2,318,490; May 4.
Locomotive boiler firebox. B. E. Larson. 2,318,502; May 4.
Locomotive construction. W. E. Woodward and A. H. Filander. 2,318,040; May 4.

Locomotive seat structure. S. Snyder. 2,318,125; May 4.
Logging apparatus. P. Grabinski. 2,318,218; May 4.
Loom gauge. T. J. Oliver. 2,318,256; May 4.
Loop assembly. A. F. Bischoff. 2,318,361; May 4.
Loop pile fabric. W. R. Kenn. 2,318,490; May 4.
Loop pile fabric and apparatus for weaving same. W. R. Keen. 2,318,080; May 4.
Looper mechanism for sewing machines. S. Zonis and A. S. Meloy, Jr. 2,318,447; May 4.
Loose leaf notebook, paper container and accessory kit, Combination. J. Boelema, Jr. 2,318,192; May 4.
Loudspeaker. H. F. Olson. 2,318,517; May 4.
Louver construction. V. E. Huff. 2,317,994; May 4.
Lubricating composition. C. F. Prutton and A. K. Smith. 2,318,013; May 4.
Machine for automatically forming projectiles. F. R. Long. 2,318,505; May 4.
Machine for pressure casting of materials. P. R. Bradley. 2,318,366; May 4.
Magnesium-base alloy. R. S. Dean and C. T. Anderson. 2,317,980; May 4.
Manganese-base alloy. R. S. Dean and C. T. Anderson. 2,317,979; May 4.
Manhole, Quick-opening. H. H. Gary. 2,318,151; May 4.
Maraca. S. Brief. 2,318,460; May 4.
Marking device for bags. H. Kluger. 2,318,234; May 4.
Match book. W. W. Carter. 2,318,289; May 4.
Material and resulting products, Treating a humous. E. F. Grether. 2,317,990; May 4.
Material, Applying luminescent. T. M. Cortese. 2,318,060; May 4.
Material disposal apparatus. S. M. Gooder. 2,318,154; May 4.
Material feeding device. F. Martindell. 2,318,508; May 4.
Material handling mechanism. P. H. Voth. 2,318,438; May 4.
Material, Luminescent. H. E. Mattin. 2,318,089; May 4.
Material treating process and apparatus. M. Cornell. 2,318,293; May 4.
Material, Treating strip. B. C. McFadden. 2,318,320; May 4.
Materials, Dehydrating water-containing. G. A. Sykes and A. L. Andrea. 2,318,027; May 4.
Mattress, Air. J. H. Johnson. 2,318,492; May 4.
Means for temporarily retaining members together. W. J. Whitehead and C. S. Whitehead. 2,318,548; May 4.
Mechanism for locomotive driving boxes, Adjusting. F. W. Martin. 2,318,507; May 4.
Mechanism for operating switches. S. H. Durbin. 2,318,300; May 4.
Mechanism for preparing postal matter. S. C. Herbert. 2,318,073; May 4.
Meter: *See*—
Phase meter.
Motor driving mechanism particularly for air propeller shafts, Multiple. F. Nallinger. 2,318,328; May 4.
Metal, Cementation process of treating. J. A. Parsons, Jr., and E. Ryder. 2,318,011; May 4.
Metering system. W. C. Bennett and W. Melas. 2,318,280; May 4.
Micrometer calipers, Attachment for. J. J. Brady. 2,318,285; May 4.
Mill: *See*—
Pulverizer mill.
Mixer: *See*—
Batter mixer.
Mixing and surfacing method. A. L. Stone. 2,318,339; May 4.
Mixing machine. F. R. Hoop. 2,318,158; May 4.
Monitoring means, Sound recorder. R. W. Benfer. 2,318,138; May 4.
Monorail tractor. A. F. Anjeskey. 2,318,354; May 4.
Mop. E. H. Petzold, Jr. and R. A. Cherry. 2,318,094; May 4.
Mop connector. A. L. Lowe. 2,318,087; May 4.
Mothproofing composition. W. Colman and H. L. J. Haller. 2,318,201; May 4.
Motor: *See*—
Spring motor.
Motor control and brake system. G. R. Purifoy. 2,318,330; May 4.
Motor control system. G. R. Purifoy. 2,318,331–2; May 4.
Motor protective device. F. J. Johns. 2,318,076; May 4.
Mount for machine gun. J. C. Trotter. 2,318,130; May 4.
Mounting: *See*—
Resilient wheel mounting.
Mounting for stuffing boxes, Wobbler or flexible. R. W. and P. B. Skinner. 2,318,428; May 4.
Musical instrument, Photoelectric. F. J. Darke, Jr. 2,318,144; May 4.
Mute. C. Spivak. 2,318,535; May 4.
Needle for making matted fabrics. E. M. Lapham. 2,318,235; May 4.
Nozzle, Suction. G. E. Lofgren. 2,318,317; May 4.
Nut lock. A. J. Earley. 2,318,473; May 4.
Nut process. A. F. Stagmeier. 2,318,265; May 4.
Nut, Self-locking. D. C. Hungerford. 2,318,398; May 4.
Nuts, Manufacture of self-locking. D. C. Hungerford. 2,318,397; May 4.
Oil product, Oiticica. H. A. Gardner, Jr. 2,318,304; May 4.
Oil well drilling bit. W. M. Burch. 2,318,370; May 4.
Opener, Can. M. J. Zimmer and R. B. Paysee. 2,318,350; May 4.
Operating mechanism and control, Counter. E. Caldwell. 2,318,372; May 4.
Operating mechanism for rolls and cylinders, Doctor. F. W. Lodding. 2,318,504; May 4.
Ophthalmic spectacles. H. Stolper. 2,318,537; May 4.
Optical system, Reversible. C. F. W. Forssberg. 2,317,988; May 4.
Optometrist tool. W. M. Wagoner. 2,318,270; May 4.
Package for tobacco or other articles. A. G. Rose. 2,318,101; May 4.
Package, Merchandising. E. Miller. 2,318,557; May 4.
Package, Suture. W. S. Davis and C. T. Davis. 2,318,379; May 4.
Packing, Propeller blade. W. S. Hoover. 2,318,486; May 4.
Pad: *See*—
Heating pad.
Pail, Milk. E. J. Sattler. 2,318,424; May 4.
Panel selector. P. Husta and W. O. Wagensell. 2,318,159; May 4.
Paste retainer, Battery. A. W. Keen. 2,318,498; May 4.
Phase meter. J. P. Minton. 2,318,248; May 4.
Phonograph apparatus. F. Rieber. 2,318,098; May 4.
Phonograph, Portable. B. Roberts. 2,318,183; May 4.
Photoelectric measuring device. G. L. Dimmick. 2,318,470; May 4.
Pick. M. Branham. 2,318,193; May 4.
Picker, Corn. H. C. Christiance. 2,318,291; May 4.
Pilot-wire supervisory circuit. M. A. Bostwick and R. M. Smith. 2,318,364. May 4.
Pin wheel feed, Dual. J. Q. Sherman and A. W. Metzner. 2,318,020; May 4.
Pincer device, Toe pulling. A. L. Russell and W. M. Watson. 2,318,104; May 4.
Pipe bends, Producing. E. H. Taylor. 2,318,113; May 4.
Pipe coupling. E. W. N. Boosey. 2,318,049; May 4.
Piston hammer for rock drills. E. B. Davey and E. N. Martinson. 2,318,063; May 4.
Piston ring. M. F. Thorn. 2,318,543; May 4.
Plaited material and making the same. R. A. Kassel. 2,318,497; May 4.
Planting and fertilizing means. O. F. Drennan. 2,318,205; May 4.
Planting attachment. J. L. Hipple. 2,318,392; May 4.
Plastic injection machine. M. A. Crosby. 2,318,203; May 4.
Platen mechanism. E. M. Lippert. 2,318,000; May 4.
Plug: *See*—
Electric plug. Spark plug.
Portable drill. M. A. Knight. 2,318,166; May 4.
Power transmission mechanism, Variable. P. B. Streich. 2,318,538; May 4.
Press: *See*—
Baling press. Punch press.
Heated press. Window pick-up press.
Printer, Telegraph. C. J. Fitch and K. R. Schneider. 2,318,303; May 4.
Printing means. R. G. Chollar. 2,318,465; May 4.
Printing telegraph apparatus. C. W. Swan. 2,318,026; May 4.
Printing telegraph apparatus. W. Y. Lang. 2,318,168; May 4.
Promoter, Method and product. E. F. Grether. 2,317,991; May 4.
Propeller, Aircraft. C. Keller. 2,318,233; May 4.
Protein, Treating. F. C. Bersworth. 2,318,046; May 4.
Pseudo steam puffing apparatus for toy trains. O. Bastiansen. 2,317,974; May 4.
Pulverizer hammer, Renewable tip. L. T. Harris. 2,318,219; May 4.
Pulverizer mill. E. E. Lynch. 2,318,175; May 4.
Pump: *See*—
Fluid pump. Rotary pump.
Intermittent gas lift pump.
Pump or motor, Fluid. T. N. Haines. 2,318,386; May 4.
Punch. C. F. Wolters. 2,318,446; May 4.
Punch press, High speed. G. B. Scheffey. 2,318,107; May 4.
Purification and drying of chlorine gas. I. R. McHaffie. 2,318,512; May 4.
Rack: *See*—
Lap storage rack.
Radial connecting rod. H. O. Eiane. 2,318,474; May 4.
Radiator shield, Vehicle. M. Berman. 2,318,189; May 4.
Radio director finder. E. J. Simon and E. J. Hefele. 2,318,338; May 4.
Radio signals, Receiving. E. H. Armstrong. 2,318,137; May 4.
Railway signaling apparatus. H. S. Young. 2,318,551; May 4.
Railway signaling system. H. A. Thompson. 2,318,542; May 4.
Railway traffic controlling apparatus. J. J. van Horn. 2,318,545; May 4.
Razor, Safety. E. B. Nelson. 2,318,324; May 4.
Reagent for resolving emulsions, Process and. T. B. Wayne. 2,318,035; May 4.
Record, Visible. A. M. Martin. 2,318,239; May 4.
Reed. J. C. Nemcek, Jr. 2,318,515; May 4.

Refrigerating system and apparatus. J. G. Scott. 2,318,532; May 4.
Refrigeration. E. Lodwig. 2,318,318; May 4.
Refrigeration apparatus. G. D. Heisler. 2,318,222; May 4.
Regulating system. L. G. Tubbs. 2,318,116; May 4.
Relay. W. J. Leveridge. 2,318,405; May 4.
Remote control device. J. M. Tewksbury. 2,318,541; May 4.
Resilient wheel mounting. T. A. Peterman. 2,318,257; May 4.
Reverberation system, Artificial. W. D. Phelps. 2,318,417; May 4.
Ring: *See*—
Piston ring.
Riveting mechanism. S. Bloomfield. 2,318,191; May 4.
Rock drill. L. Padley and G. A. Morgan. 2,318,326; May 4.
Rod: *See*—
Radial connecting rod.
Rod rotator, Polish. R. C. Johnston. 2,318,315; May 4.
Roller, Angle disk. W. C. MacGregor. 2,318,002; May 4.
Rotary pump. R. E. B. Wakefield. 2,318,346; May 4.
Saddle, Cycle. F. Mesinger. 2,318,246; May 4.
Safety stop, Crane and shovel boom. A. A. Johnson. 2,318,491; May 4.
Saw band, Metal cutting. J. W. Wilkie. 2,318,549; May 4.
Saw mill dog. M. Kahr. 2,318,163; May 4.
Scaffold, Portable. R. M. Johnson. 2,318,493; May 4.
Seal and eyelet for constructing the same, Glass-to-metal. S. H. Stupakoff and F. R. Prescott. 2,318,435; May 4.
Seal for floating tank roofs. J. H. Wiggins. 2,318,134–5; May 4.
Securing hard facing material to tubular members, Method of. F. C. Smith, Jr. 2,318,263; May 4.
Sedimentation tank. M. B. Tark. 2,318,436; May 4.
Selecting apparatus, Radio program. C. Horton. 2,318,312; May 4.
Selective automatic apparatus for reproducing images from records thereof. M. P. Warner and S. S. Liese. 2,318,118; May 4.
Self-locking freewheel clutch. G. Blackstock. 2,318,283; May 4.
Separator: *See*—
Coin and check separator.
Grain separator.
Sewing machine. D. H. Way, J. M. Naul, and C. R. Schenk. 2,318,442; May 4.
Sewing machine cabinet. W. R. West. 2,318,443; May 4.
Shaft bearing. D. Firth. 2,318,477; May 4.
Sharpener, Cutting chain. A. N. Blum. 2,318,456; May 4.
Shaver. A. Alexay. 2,318,351; May 4.
Shaver, Electric. L. E. Nichols. 2,318,255; May 4.
Sheet delivery. E. W. and F. R. Belluche. 2,318,451; May 4.
Sheet delivery mechanism. E. Kluge. 2,318,165; May 4.
Sheet feeder. C. W. Harrold. 2,317,993; May 4.
Shell forgings and the like, Producing. S. Findlater. 2,318,069; May 4.
Sheller, Tractor mounted picker. B. M. Hyman. 2,318,400; May 4.
Shingle unit, Gable trim. H. L. Owen. 2,318,413; May 4.
Shock absorber. C. B. Vickers. 2,318,437; May 4.
Shoe. N. Ettelbrick, Sr. and Jr. 2,318,148; May 4.
Shoemaking method. A. L. Russell and W. M. Watson. 2,318,103; May 4.
Shoes, Making. M. I. Rovick. 2,318,014; May 4.
Shovel. A. E. Yensen. 2,318,277; May 4.
Shutoff and control device, Safety. H. F. Alfery. 2,318,136; May 4.
Signaling system and apparatus, Selective. H. L. Krum. 2,317,995; May 4.
Ski. E. O. Ericson. 2,318,147; May 4.
Slicer, Bacon. W. Mahler. 2,318,003; May 4.
Slip. V. L. Sussberg. 2,318,539; May 4.
Snow removal machine. E. T. Stewart. 2,318,127; May 4.
Snow shield for automobile windows. H. A. Cutting. 2,318,143; May 4.
Snubber, Rope. J. P. Fox. 2,318,213; May 4.
Soil sampler. T. R. Dames. 2,318,062; May 4.
Space heater. R. B. Evans, E. F. Farrell, and G. M. Schueder. 2,318,476; May 4.
Spark plug. A. C. Wall. 2,318,440; May 4.
Speed indicating device. Z. E. House. 2,318,313; May 4.
Spindle construction. G. A. De Vlieg. 2,317,981; May 4.
Spindle control for drilling and tapping machines. L. L. Schauer and J. H. McKewen. 2,318,335; May 4.
Splice for joints. B. S. Calvert. 2,318,054; May 4.
Spraying device for paper machines. A. E. Broughton. 2,318,368; May 4.
Spreader. J. H. Delaney. 2,318,064; May 4.
Spreader, Manure. R. D. MacDonald. 2,318,406; May 4.
Spring and replacement thereof, Switch wiper. P. B. Drake. 2,318,383; May 4.
Spring motor. N. W. Bernard. 2,318,453; May 4.
Stabilization of styrene. S. G. Foord. 2,318,211–12; May 4.
Stacker, Can. H. W. Wilson. 2,318,444; May 4.
Stand: *See*—
Carrier and stand.
Dental equipment stand.
Static eliminator for vehicles. S. P. Thacher and G. G. Havens. 2,318,340; May 4.
Steam boilers, Treating. F. W. Miller. 2,318,247; May 4.
Stem, Air bag. J. C. Crowley. 2,318,376; May 4.
Stem connection for curing molds. J. C. Crowley. 2,318,377–8; May 4.
Sterilizing and packaging sutures and the like. W. S. and C. T. Davis. 2,318,380; May 4.
Stoker control. B. P. Pond. 2,318,012; May 4.
Stool, Kneeling. D. N. Peirce. 2,318,416; May 4.
Stop for counting machines, Automatic. N. S. Welk. 2,318,132; May 4.
Storage drawer assembly. E. H. Boddy. 2,318,363; May 4.
Storage mechanism. L. Lawrence, Jr. 2,318,316; May 4.
Storm window and screen, Concealed. W. B. Rood. 2,318,100; May 4.
Strain gauge, Rosette type. A. C. Ruge. 2,318,102; May 4.
Structural material and producing the same, Cellular. I. Harter, C. L. Norton, Sr. and Jr. 2,318,574; May 4.
Stylus head for recording and reproducing sound records. E. R. Harris. 2,318,308; May 4.
Submersible structure. T. G. Myers. 2,318,181; May 4.
Suction cleaning apparatus. E. F. Martinet. 2,318,088; May 4.
Suction-pressure-regulating valve. F. F. Heiser. 2,318,157; May 4.
Sulphanilamide derivatives. W. Hentrich, A. Kirstahler, and W. Kaiser. 2,318,556; May 4.
Sulphonates, Preparation of surface-active. J. H. Werntz. 2,318,036; May 4.
Surface rod line jack. W. J. Jones. 2,318,494; May 4.
Surface treating machine. L. Vavrik and K. C. C. Atkin. 2,318,117; May 4.
Suspender suit construction. S. Rossby. 2,318,528; May 4.
Suspension file. F. D. Jonas. 2,318,077; May 4.
Switch: *See*—
Electric switch.
Escapement type switch.
Switch for the control of electro-thermal apparatus, Combination. E. Challet. 2,318,055; May 4.
Switch operating means. R. M. Bailey. 2,318,355; May 4.
Swivel, Ball bearing streamlined. H. J. Westhaver. 2,318,119; May 4.
Table: *See*—
Hospital table.
Tabulating mechanism for accounting machines. W. A. Anderson. 2,318,448; May 4.
Tank: *See*—
Hydropneumatic tank.
Sedimentation tank.
Tap, Cube. W. P. Herman. 2,318,484; May 4.
Tapping machine. L. L. Schauer. 2,318,336; May 4.
Telephone line identification. R. Taylor and G. T. Baker. 2,318,267; May 4.
Television. P. C. Goldmark. 2,317,989; May 4.
Temperature measuring instrument. R. I. Bradley. 2,318,459; May 4.
Testing device, Friction and flexure. G. A. Lovell. 2,318,506; May 4.
Textile material, Treatment of. W. G. Cameron and T. H. Morton. 2,318,464; May 4.
Textile printing apparatus for printing one or both sides of fabrics. J. H. Coogan. 2,318,374; May 4.
Textiles, Manufacture of mixed. G. I. Thurmond, J. W. Jacokes, and E. Brenner. 2,318,544; May 4.
Thermostat. W. B. Griffith. 2,318,480; May 4.
Threading and turning machine, Hydraulically operated combined. S. W. Mathias. 2,318,177; May 4.
Thrust bearing. L. M. Tichvinsky. 2,318,114; May 4.
Timer for electrical systems. T. R. Arden. 2,317,969; May 4.
Timing system. H. D. Belock. 2,318,450; May 4.
Tool: *See*—
Bit tool.
Optometrist tool.
Carpenter's tool.
Universal tool.
Tool grinding fixture, Lathe. W. R. Landy. 2,317,996; May 4.
Towing device and hook-up. H. O. Foss. 2,318,150; May 4.
Toy pistol. G. Calabrse. 2,318,139; May 4.
Track and detachable grouser therefor. R. Mayne. 2,318,347; May 4.
Traction brake. H. E. Brey and H. E. Swanson. 2,318,286; May 4.
Tractor mower. N. D. Colvin and C. J. Frederiksen. 2,318,202; May 4.
Tractor mower. P. H. Westerlund. 2,318,274; May 4.
Tractor-trailer. S. B. Winn. 2,318,038; May 4.
Transfer sheet. F. A. Quick. 2,318,096; May 4.
Transformer, Antenna. W. Weiche. 2,318,271; May 4.
Transmission. H. R. Greenlee, L. D. Britton, and J. R. Bond. 2,318,481; May 4.
Transmission, Automatic. G. Schwarzbach. 2,318,186; May 4.
Transmission device, Hydraulic power. A. N. Thomas. 2,318,028; May 4.
Transmission, Frictional toroidal. A. Y. Dodge. 2,318,471; May 4.
Travel case. I. W. Rosenthal. 2,318,527; May 4.

Treatment of organic material and resulting product. E. F. Grether. 2,317,992; May 4.
Trimming machine. W. T. B. Roberts. 2,318,099; May 4.
True airspeed indicator. R. D. Gilson. 2,318,153; May 4.
Tubular structures, Flame hardening. F. C. Emery and E. F. Green. 2,318,145; May 4.
Tuning structure for radio sets. S. S. Cramer. 2,318,572; May 4.
Typewriter-punching machine, Intercontrolled. C. R. Doty. 2,318,299; May 4.
Typewriting and computing machine, Combined. V. F. Schneble. 2,318,425; May 4.
Typewriting machine. C. T. Jackson. 2,318,314; May 4.
Typewriting machine, Shorthand. C. C. M. Palanque. 2,318,519; May 4.
Undergarment for horseback riding. R. W. Clements. 2,318,199; May 4.
Union. C. K. Stillwagon. 2,318,112; May 4.
Universal tool. H. Long. 2,318,172; May 4.
Valve: *See*—
Delivery valve.
Water regulating valve.
Suction-pressure-regulating valve.
Valve. A. C. Layton. 2,318,236; May 4.
Valve. I. I. Tubbs. 2,318,115; May 4.
Valve control. E. J. Panish. 2,318,010; May 4.
Vapor-electric device. H. C. Myers. 2,318,091; May 4.
Varnish oil. I. J. Novak. 2,318,009; May 4.
Vegetables, Canning green. W. L. Schroder and T. A. Rogers. 2,318,426; May 4.
Vehicle: *See*—
Automotive vehicle.
Vehicle signal and switch mechanism. G. H. Bird. 2,318,281; May 4.
Vehicle stabilizer-forming apparatus. B. H. Urschel. 2,318,344; May 4.
Vibration dampener, Torsional. W. L. Fischer. 2,317,983; May 4.
Vise. F. Horn, Jr. 2,318,487; May 4.
Vise, Yoke. C. E. Wright. 2,318,566; May 4.
Visual indicator. W. R. Clark. 2,318,440; May 4.
Visual indicator. W. R. Clark. 2,318,197; May 4.
Vulcanization accelerators. R. S. Hanslick. 2,318,482; May 4.
Wall construction. D. L. Boeglen and E. P. Lockart. 2,318,362; May 4.
Wall joint construction. L. W. Brusse. 2,318,053; May 4.
Warm air furnace. A. Kamber. 2,318,496; May 4.
Washer: *See*—
Bottle washer.
Water regulating valve. R. W. Johnson and C. E. Zarwell. 2,318,161; May 4.
Waterproofing permeable material, Process of and composition for. C. F. Fabian and J. B. Lee. 2,318,302; May 4.
Welding apparatus. H. A. Strickland, Jr. 2,318,023–4; May 4.
Winding apparatus. P. J. Christman. 2,318,056; May 4.
Window shield, Heat-saving and/or black-out. I. Goldmerstein. 2,318,217; May 4.
Windrow pickup press. F. D. Jones. 2,318,229; May 4.
Windshield cleaning apparatus. O. W. Sailer. 2,318,529; May 4.
Wire straightener. C. D. Johnson. 2,318,160; May 4.
Yarn, Asbestos. K. E. Ripper. 2,318,560; May 4.
Yarns and filaments, Treatment of textile. W. Whitehead. 2,318,120; May 4.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

MAY 4, 1943

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CLASS 64

A.P.C. 345,249. Turnspring. Eric Latscher-Latka, Vienna, Germany. Published May 4, 1943.

A.P.C. 364,466. Elastic coupling device with rubber balls. Mario Dornig, Milan, Italy. Published May 4, 1943.

A.P.C. 368,023. Joint. Jakob Seib, Suhl, Germany. Published May 4, 1943.

A.P.C. 383,230. Spring band coupling of a variable reduced length for internal combustion engines. Alessandro Baj et al., Milan, Italy. Published May 4, 1943.

A.P.C. 383,882. Yieldable couplings. Raffaele Matteucci, Turin, Italy. Published May 4, 1943.

A.P.C. 405,633. Shaft journal. Josef Buchhart, Stuttgart, Germany. Published May 4, 1943.

CLASS 66

A.P.C. 115,412. Full fashioned hosiery. Hans Thierfelder et al., Auerbach I. Erzg, Germany. Published May 4, 1943.

A.P.C. 164,119½. Knitting machines and method of operating same for knitting fabrics. Max Nebel, Chemnitz, Germany. Published May 4, 1943.

A.P.C. 224,546. Stockings. Max Nebel, Chemnitz, Germany. Published May 4, 1943.

A.P.C. 224,550. Sinkers. Max Nebel, Chemnitz, Germany. Published May 4, 1943.

A.P.C. 241,255. Flat knitting machine. Max Nebel, Chemnitz, Germany. Published May 4, 1943.

A.P.C. 246,213. Machine for knitting cable coverings and the like. Franz Meiwald, Vienna, Germany. Published May 4, 1943.

A.P.C. 272,667. Production of loop-plush fabric. Max Nebel, Chemnitz, Germany. Published May 4, 1943.

A.P.C. 289,057. Non-ravelling knitted fabrics. Karl Maier, Troyes, France. Published May 4, 1943.

A.P.C. 312,595. Circular knitting machines. Robert Buck, Rottenburg, Germany. Published May 4, 1943.

A.P.C. 345,052. Flat knitting frames. William Welker, Oberfrohna, Germany. Published May 4, 1943.

A.P.C. 363,234. Method for enabling knitted fabrics to be mechanically printed in ordinary textile printing machines. Jan Just et al., Cerveny Kostelec, Bohemia. Published May 4, 1943.

A.P.C. 367,846. Method of producing welts. Oscar Worm, Chemnitz, Germany. Published May 4, 1943.

A.P.C. 385,164. Method of producing on a frame a knitted fabric highly elastic in both the longitudinal and the transverse directions, and to a device for performing the method. Rudolf Hilf et al., Stuttgart, Germany. Published May 4, 1943.

A.P.C. 400,724. Device for drawing goods from flat knitting machines. Fritz Flamig, Chemnitz, Germany. Published May 4, 1943.

A.P.C. 401,023. Needle bed for use in knitting machines. Alfred Morgenstern, Rottenburg on the Neckar, Germany. Published May 4, 1943.

A.P.C. 407,718. Stockings. Herbert Dietrich, Meinersdorf I. Erzg, Germany. Published May 4, 1943.

A.P.C. 418,869. Flat knitting machine. Max Nebel. Chemnitz, Germany. Published May 4, 1943.

A.P.C. 418,871. Humidifiers. Paul Hans Aurich, Chemnitz, Germany. Published May 4, 1943.

A.P.C. 425,210. Slackening the fabric rollers of flat knitting machines. Oscar Worm et al., Chemnitz, Germany. Published May 4, 1943.

CLASS 67

A.P.C. 314,536. Photographic cameras. Eugen Jorg, Stuttgart, Germany. Published May 4, 1943.

A.P.C. 323,200. Photographic cameras. Heinz Kuppenbender et al., Dresden, Germany. Published May 4, 1943.

A.P.C. 374,592. Flash lamp. Johannes Antonius Maria Van Liempt et al., Eindhoven, Holland Published May 4, 1943.

CLASS 68

A.P.C. 251,638. Machines for treating textile material. Marcel Casse, Essonnes, France. Published May 4, 1943.

A.P.C. 377,698. Method and apparatus for the chlorination of bast fibers. Helmuth Korte et al., Frankfurt-am-Main, Germany. Published May 4, 1943.

A.P.C. 440,704. Laundering machine. Christian Oskar Rasmussen, Copenhagen, Denmark. Published May 4, 1943.

CLASS 70

A.P.C. 414,869. Central lock systems. Gunnar Nimrod Pettersen, Oslo, Norway. Published May 4, 1943.

CLASS 71

A.P.C. 281,326. Production of fertilisers. Friedbert Ribber et al., Piesteritz, Germany. Published May 4, 1943.

A.P.C. 289,267. Process for the granulation of superphosphate. Bernhard Schatzel Saarau Kreis Schweidnitz Schlesien, Germany. Published May 4, 1943.
A.P.C. 308,170. Process of preparing a fertilizer. Friedbert Ribber et al., Piesteritz, Germany. Published May 4, 1943.
A.P.C. 310,759. Composition more particularly for agricultural use. Alberizzi Ernesto, Milan, Italy. Published May 4, 1943.
A.P.C. 313,298. Method for the utilization of potash-containing minerals as fertilizers. Antonius Foss et al., Heggeli, V. Aker, Norway. Published May 4, 1943.
A.P.C. 405,274. Method for manufacturing an improved granular fertilizer containing ammonium nitrate and calcium carbonate. Johannes Stephanus Antonius Joseph Maria Van Aken, Maurits laan, Netherlands. Published May 4, 1943.

CLASS 72

A.P.C. 238,682. Monolithic floor construction Ignatz Adolf Kirchner, Vienna, Germany. Published May 4, 1943.
A.P.C. 253,479½. Method for reducing deformations of ferroconcrete bearing constructions. Ewald Hoyer, Berlin-Halensee, Germany. Published May 4, 1943.
A.P.C. 253,935. Glass panels. Ugo Somigliana, Como, Italy. Published May 4, 1943.
A.P.C. 326,780. Reinforced-concrete structures serving to limit vibratory oscillations or to prevent the same. Waldemar Oelsner, Copenhagen, Denmark. Published May 4, 1943.
A.P.C. 398,484. Wall protecting structures. Walter Gasenzer, Berlin-Frohnau, Germany. Published May 4, 1943.

CLASS 73

A.P.C. 226,453. Method of ascertaining the moisture content of doughy masses. Willy Brandt, Gross-Harrie, bei Neumunster, Germany. Published May 4, 1943.
A.P.C. 268,499. Volumetric liquid meters. Henri Boutillon, Suresnes, France. Published May 4, 1943.
A.P.C. 274,851. Altimeters. Walter Springer, Berlin-Steglitz, Germany. Published May 4, 1943.
A.P.C. 284,328. Altimeter. Fritz Kohler et al., Syrau B/Plauen Vgtld, Germany. Published May 4, 1943.
A.P.C. 291,095. Apparatus for measuring heat consumption. Oscar Constantin Brun, Copenhagen, Denmark. Published May 4, 1943.
A.P.C. 297,878. Anemometric antenna for aircraft formed with two oppositely disposed pitot hoods. Augusto Baroni, Rome, Italy. Published May 4, 1943.
A.P.C. 331,408. Liquid operated electric control device. Walter Koeppe et al., Berlin-Spandau, Germany. Published May 4, 1943.
A.P.C. 336,361. Liquid level gage. Martin Rover, Jessnitz/Anh, Germany. Published May 4, 1943.
A.P.C. 342,488. Thermometer for deep well measurements. Oscar Martiensen, Kiel, Germany. Published May 4, 1943.
A.P.C. 353,148. Rate-of-climb indicator or the like for aircraft. Rudolf Roudnicky, Prague, Czechoslovakia. Published May 4, 1943.
A.P.C. 362,229. Device for exerting a constant returning torque on a rotatively movable unit, Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France. Published May 4, 1943.
A.P.C. 362,230. Automatic device for creating and maintaining in an enclosure a predetermined partial vacuum, and application of said device to the control of altimetric and barometric apparatus. Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France. Published May 4, 1943.
A.P.C. 362,231. Gauges indicating the level of a liquid of the gaseous bubbling type. Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France. Published May 4, 1943.
A.P.C. 385,174. Fluid level gauge. Wilhelm Barsties, Berlin, Germany. Published May 4, 1943.
A.P.C. 390,768. Instrument for measuring and indicating the intensity of a gas current. Wilhelm Rohn, Hanau-on-Main, Germany. Published May 4, 1943.
A.P.C. 419,661. Heat consumption meters. Oscar Constantin Brun, deceased, by Julie Frederikke Christine Elizabeth Brun, Charlottenlund, near Copenhagen, Denmark, widow. Published May 4, 1943.

CLASS 74

A.P.C. 282,309. Shift control mechanism for gear transmissions. Gustav Meyer, Friedrichshafen, Bodensee, Germany. Published May 4, 1943.
A.P.C. 285,330. Automatic transmission. Josef Buchhart, Stuttgart-Zuffenhausen, Germany. Published May 4, 1943.
A.P.C. 285,333. Operating arrangement, particularly for change-speed gearing for motor-vehicles. Theodor Kummich, Stuttgart, Germany. Published May 4, 1943.
A.P.C. 287,152. Speed drive for fast running machines especially for cycle dynamo machines. Alfred Rabl, Wiener-Neudorf, Germany. Published May 4, 1943.
A.P.C. 293,631. Epicyclic gear. Cornelis Andries Hefro Mulder, Utrecht, Netherlands. Published May 4, 1943.
A.P.C. 295,316. Power transmitting mechanism for motor vehicles. Karl Maybach et al., Friedrichshafen, Bodensee, Germany. Published May 4, 1943.
A.P.C. 304,651. Control mechanism for aircraft. Karl Henke, Bremen, Germany. Published May 4, 1943.
A.P.C. 304,835. Universal damper for the torsional vibrations of coaxially revolving shafts. Raffaele Matteucci, Turin, Italy. Published May 4, 1943.
A.P.C. 309,100. Transmission devices. Leo Robin et al., Sprimont, Belgium. Published May 4, 1943.
A.P.C. 312,692. Angular rate cyroscope for automatic steering. Guido Wunsch et al., Berlin, Germany. Published May 4, 1943.
A.P.C. 321,805. Device for controlling precessional forces in gyroscopes. Adolf Krussmann, Berlin-Wilmersdorf, Germany. Published May 4, 1943.
A.P.C. 323,041. Drive for mechanical sound-film recording equipment. Hugo Westerkamp, Koln-Braunsfeld, Germany. Published May 4, 1943.
A.P.C. 328,132. Power and speed transmissions for motor vehicles. Richard Lang et al., Ravensburg, Germany. Published May 4, 1943.
A.P.C. 330,323. Driving mechanism for two in opposite direction rotating air propellers by more than one motor. Fritz Nallinger, Stuttgart, Germany. Published May 4, 1943.
A.P.C. 333,561. Oscillations reducing device. Francois Marie Michel Bernard Salomon, Paris, France. Published May 4, 1943.
A.P.C. 334,745. Change speed gears. Theodor Kummich, Stuttgart, Germany. Published May 4, 1943.
A.P.C. 335,081. Oscillations reducing device. Francois Marie Michel Bernard Salomon, Paris, France. Published May 4, 1943.
A.P.C. 344,826. Automatic variable speed transmission. Adolphe Kregresse, Paris, France. Published May 4, 1943.
A.P.C. 345,771. Multi-throw crank shaft. Arthur Berger, Stuttgart-Oberturkheim, Germany. Published May 4, 1943.

A.P.C. 356,786. Driving belt. Andor Lenart et al., Budapest, Hungary. Published May 4, 1943.
A.P.C. 364,272. Starter device for internal combustion engines. Albert Calisen et al., Stuttgart-Botnang, Germany. Published May 4, 1943.
A.P.C. 365,530. Electrically driven gyroscope. Richard Schwarz et al., Berlin, Germany. Published May 4, 1943.
A.P.C. 366,846. Crankshaft for internal combustion engines. Otto Specht, Berlin-Spandau, Germany. Published May 4, 1943.
A.P.C. 374,642. Drive of auxiliary apparatuses for aircraft motors. Fritz Nallinger, Stuttgart, Germany. Published May 4, 1943.
A.P.C. 378,638. Transmissions. Pierre Brissonnet et al., Paris, France. Published May 4, 1943.
A.P.C. 378,984. Change speed gears with pairs of constantly meshing gear wheels. Alfred Graf von Soden-Fraunhofen et al., Friedrichshafen-Bodensee, Germany. Published May 4, 1943.
A.P.C. 379,065. Broadcast receiver apparatus for automatic press button tuning. Eugen Steffens, Berlin-Siemensstadt, Germany. Published May 4, 1943.
A.P.C. 381,604. Gyro control apparatus. Friedrich Lauck, Lubeck-Travemunde, Germany. Published May 4, 1943.
A.P.C. 384,016. Reversing gears for motor vehicles. Richard Lang et al., Ravensburg, Germany. Published May 4, 1943.
A.P.C. 387,794. Tubular remote control devices. Louis Herkert, Boulogne-sur-Seine, France. Published May 4, 1943.
A.P.C. 392,983. Mechanical energy transductor based on gyroscopic reaction. Giuseppe Zanarini, Turin, Italy. Published May 4, 1943.
A.P.C. 395,897. Device for ascertaining the output or input of a reciprocating engine. Maximilien Felix Reijnst, Eindhoven, Holland. Published May 4, 1943.
A.P.C. 401,472. Drive mechanism for crawler tractors. Fritz Huber, Mannheim, Germany. Published May 4, 1943.
A.P.C. 405,540. Combined hydro-mechanical gear. Helmut Benz et al., Heidenheim (Brenz), Germany. Published May 4, 1943.
A.P.C. 414,025. Infinately variable gear-drive. Reinhold Edelmann, Berlin, Germany. Published May 4, 1943.
A.P.C. 414,145. Method viz. a device of controlling change speed gears. Karl Wilfert, Sindelfingen, Germany. Published May 4, 1943.
A.P.C. 414,407. Mechanical synchronizing devices Wilhelm Scheppmann, Berlin, Germany. Published May 4, 1943.
A.P.C. 435,446. Starting device for internal combustion engines. Hermann Klein, Vaihingen-Rohr, Germany. Published May 4, 1943.

CLASS 75

A.P.C. 171,130. High speed steel. Franz Rapatz et al., Buderich, Germany. Published May 4, 1943.
A.P.C. 272,044. Process for the production of steel from pig iron. Franz Bartscherer et al., Duisburg-Hamborn, Germany. Published May 4, 1943.
A.P.C. 285,858. Purification of pig iron. Johannes Haag, Neunkirchen, Germany. Published May 4, 1943.
A.P.C. 288,900. Process for the production of first run metal or steel from steel pig iron or of a bessemer pig iron containing phosphorus. Franz Bartscherer et al., Duisburg-Hamborn, Germany. Published May 4, 1943.
A.P.C. 303,611. Magnesium alloys. Arthur Burkhardt et al., Berlin-Lichterfelde-West, Germany. Published May 4, 1943.
A.P.C. 327,066. Light metal alloys having a preponderating percentage of aluminium. Bernward Garre, Stuttgart, Germany. Published May 4, 1943.
A.P.C. 339,389. Purifying metals. Rene Perrin, Paris, France. Published May 4, 1943.
A.P.C. 345,176. Method of producing chromiferous steels. Johannes Haag, Neunkirchen (Saar), Germany. Published May 4, 1943.
A.P.C. 352,513. Method of and apparatus for operating shaft furnaces for roasting and the like. Bernhard Osann, Berlin-Lichterfelde, Germany. Published May 4, 1943.
A.P.C. 357,822. Method of manufacturing permanent magnets. Hans Neumann et al., Berlin-Siemensstadt, Germany. Published May 4, 1943.
A.P.C. 360,935. Reducing oxidic ores. Wilhelm Schwier, Dusseldorf, Germany. Published May 4, 1943.
A.P.C. 369,746. Magnesium base alloys. Franz Sauerwald et al., Breslau, Germany. Published May 4, 1943.
A.P.C. 377,754. Process for producing pure iron or iron alloys. Filippo Venzi et al., Rome, Italy. Published May 4, 1943.
A.P.C. 387,769. Light metals and their alloys. Henry Lepp, Paris, France. Published May 4, 1943.
A.P.C. 388,276. Iron oxides and method of producing same. Olav Moeklebust et al., Fredrikstad, Norway. Published May 4, 1943.
A.P.C. 409,751. Method for purifying bismuth. Leon Jean Baptiste Guyard, Paris, France. Published May 4, 1943.
A.P.C. 429,340. Slag-forming material for an arc-welding rod and method for the manufacture thereof. Josef Ter Berg, Eindhoven, Holland. Published May 4, 1943.

CLASS 76

A.P.C. 368,873. Stamping die. Roger Adolphe Leonard Seligmann, Paris, France. Published May 4, 1943.

CLASS 78

A.P.C. 418,834. Riveted joints. Friedrich Mayer et al., Regensburg, Germany. Published May 4, 1943.
A.P.C. 428,844. Methods of producing articles by hot pressing or extruding and apparatus for their performance. Fritz Von Opel, New York, N. Y., a citizen of Lichtenstein. Published May 4, 1943.

CLASS 80

A.P.C. 318,112. Method of rolling strip irons. Gerhard Zur Nedden et al., Peine, near Hannover, Germany. Published May 4, 1943.
A.P.C. 320,472. Screw-threading machines. Werner Plagemann et al., Berlin, Germany. Published May 4, 1943.
A.P.C. 358,173. Tube rolling system. Helmut Dorn, Riesa, Germany. Published May 4, 1943.
A.P.C. 360,152. Screw threading machines. Werner Plagemann, Berlin, Germany. Published May 4, 1943.
A.P.C. 367,878. Machine tools and the like. Wilhelm Wemhoner, Berlin-Karlshorst, Germany. Published May 4, 1943.
A.P.C. 371,079. Method and apparatus for sizing tubes. Muneshige Ichikawa, Omori-ku-Tokyo, Japan. Published May 4, 1943.

CLASS 81

A.P.C. 363,378. Combined nut wrench and free-running ratchet. Friedrich Wilhelm Thienes, Solingen, Germany. Published May 4, 1943.

A.P.C. 375,896. Power wrench. Julius Aron et al., Amsterdam, Netherlands. Published May 4, 1943.
A.P.C. 390,677. Parallel vise to be used with machine tools, etc. Georg Haase, Dresden, Germany. Published May 4, 1943.
A.P.C. 439,203. Adjustable spanners. Louis Parnet, Courbevoie, France. Published May 4, 1943.

CLASS 82

A.P.C. 314,080. Semi-automatic lathe. Fritz Richard Deuring, Munchen-Gladbach, Germany. Published May 4, 1943.
A.P.C. 345,336. Controlling mechanism for lathes. Hermann Schumacher, Coppingen (Wurttemberg), Germany. Published May 4, 1943.
A.P.C. 358,561. Device for actuating an automatic lathe, especially a spar bench. Johannes Wilberz. Hilden-on-the-Rhine, Germany. Published May 4. 1943.
A.P.C. 362,654. Multi-spindle automatic lathe with spindles horizontally removable in the spindle box. Ernst Gothe, Cologne-Poll, Germany. Published May 4, 1943.
A.P.C. 369,503. Arrangements for electrically controlling operation of machine tools. Hidezo Tutiya, Tokyo-si, Japan. Published May 4, 1943.
A.P.C. 377,252. Process for the manufacture of shaped metal products. Camille Cito, Uccle-Brussels, Belgium. Published May 4, 1943.
A.P.C. 390,058. Arrangement of the transverse-supports in automatic and semi-automatic lathes. Fritz Richard Deuring, Munchen-Gladbach, Germany. Published May 4, 1943.
A.P.C. 436,340. Tool mountings. Ernst Hijmans, The Hague, Netherlands. Published May 4, 1943.

CLASS 83

A.P.C. 233,862. Adjustable closed circuit grinding process. Aldo Bibolini, Turin, Italy. Published May 4, 1943.
A.P.C. 312,133. Lining for tube mills or crushing mills containing balls or similar crushing bodies. Jacques Fernand Henricot, Court-St.-Etienne, Belgium. Published May 4, 1943.
A.P.C. 319,802. A process for removing the skins or covering from seeds of castor oil beans. Felix Grandel et al., Emmerich/Rhein, Germany. Published May 4, 1943.
A.P.C. 340,800. Process for the degermination of seed. Felix Grandel et al., Emmerich/Rhein, Germany. Published May 4, 1943.
A.P.C. 355,397. Arrangements for shelling and cleaning of granular products. Sandor Nyiri. Berettyoujfalu, Hungary. Published May 4, 1943
A.P.C. 362,659. Process for the separation of valuable bran constituents. Guglielmo Muscari, Rome. Italy. Published May 4, 1943.
A.P.C. 364,826. Oscillation tube mill. Siegfried Klesskalt et al., Frankfurt-am-Main, Germany. Published May 4, 1943.
A.P.C. 367,286. Process and apparatus for comminuting liquid substances. Otto Landgraf, Frankfurt (Main), Germany. Published May 4, 1943.
A.P.C. 372,589. Device for disintegrating or homogenizing. Dittmar Bachmann, Frankfurt-am-Main, Germany. Published May 4, 1943.
A.P.C. 377,339. Slag cooling and granulation device. Josef Cermak, Hradec Kralove, Bohemia. Published May 4, 1943.

CLASS 84

A.P.C. 322,619. Accordions and similar musical instruments. Rio Parenti, Rome, Italy. Published May 4, 1943.
A.P.C. 341,184. Electro-magnetic organ. Alfredo Laurenti, Rome, Italy. Published May 4, 1943.
A.P.C. 382,433. Reed block for accordions. Karl Scherer, Trossingen, Germany. Published May 4, 1943.
A.P.C. 398,349. Chromatic harmonica. Karl Scherer, Trossingen (Wurtemberg), Germany. Published May 4, 1943.

CLASS 85

A.P.C. 241,476. Nuts. Martin Schmidt et al., Weende, near Gottingen, Germany. Published May 4, 1943.
A.P.C. 344,390. Screw-nut. Paul Schuttler, Berlin-Charlottenburg, Germany. Published May 4, 1943.
A.P.C. 374,464. Nut to be fixed by an adhesive. Josef Meisterhans, Gotha, Germany. Published May 4, 1943.
A.P.C. 431,625. Fastening devices. Fritz von Opel, New York, N. Y. Published May 4, 1943.

CLASS 88

A.P.C. 122,145. Film magazines for cinematograph cameras. Paul Storch, Berlin-Charlottenburg, Germany. Published May 4, 1943.
A.P.C. 254,738. Attachments for stereoscopic cameras. Otto Vierling et al., Dresden-Blasewitz, Germany. Published May 4, 1943.
A.P.C. 256,012. Auxiliary aerophotogrammetric surveying apparatus, including the obtainment of photographs of the sun and enabling the realization of a novel process of aerotriangulation. Ermenegildo Santoni, Florence, Italy. Published May 4, 1943.
A.P.C. 269,085. Backwards looking glass for automobiles and other vehicles. Miklos Rosner, Budapest, Hungary. Published May 4, 1943.
A.P.C. 284,005. Lens hoods for photographic cameras. Max Ruhland, Brunswick, Germany. Published May 4, 1943.
A.P.C. 292,748. Light reflector. Wilhelmus Hermsen et al., Paris, France. Published May 4, 1943
A.P.C. 296,483. System of treating surfaces of reflectors and similar articles. Gustav Kogel, Baden, Germany. Published May 4, 1943.
A.P.C. 306,518. Process and device for obtaining the projection of luminous letters and drawings, particularly for the purpose of publicity and signalling. Mario Fioroni, Rome, Italy. Published May 4, 1943.
A.P.C. 316,983. Apparatus for unwinding and winding up an endless film. Gustav Fries, Berlin-Charlottenburg, Germany. Published May 4, 1943.
A.P.C. 322,151. Signal device. Daniel Swarovski, Wattens, Tyrol, Germany. Published May 4, 1943.
A.P.C. 322,452. Ocular for microscopes. Arthur Selbert, Wetzlar, Germany. Published May 4, 1943.
A.P.C. 330,963. System for producing polarized light of predetermined vibratory condition. Heinz Ulffers, Dresden-A. 19, Germany. Published May 4, 1943.
A.P.C. 334,059. Photographic enlargers. Julien Tessier. Clamart, France. Published May 4, 1943.
A.P.C. 335,804. Projection screen. Rolf Moller et al., Kleinmachnow, near Berlin, Germany. Published May 4, 1943.
A.P.C. 340,190. Spectacles and goggles frames Giuseppe Ratti, Turin, Italy. Published May 4, 1943.
A.P.C. 342,801. Optical focussing systems. Joseph Dahl, Schwerin, Germany. Published May 4, 1943.
A.P.C. 348,349. Interpupillary distance gauge Otto Martin Israel Eppenstein. Jena, Germany. Published May 4, 1943.

A.P.C. 353,931. Production of stereoscopic motion pictures. Ernst Laubmann, Posen, Germany. Published May 4, 1943.
A.P.C. 354,220. Method and device for measuring the thickness of light transmitting layers. Harald W. Straub, Dresden, Germany. Published May 4, 1943.
A.P.C. 357,992. Photoelectric exposure meters. Laszlo Riszdorfer, Budapest, 1, Hungary. Published May 4, 1943.
A.P.C. 362,540. Process and apparatus to lower the reflection of optically active surfaces. Gustav Joseph Weissenberg, Berlin-Mariendorf, Germany. Published May 4, 1943.
A.P.C. 362,652. Bright optical system for colour photography. Vilem Smejkal, Prerau, Moravia. Published May 4, 1943.
A.P.C. 374,598. Optical element. Herre Rinia, Eindhoven, Holland. Published May 4, 1943.
A.P.C. 374,765. Optical system. Herre Rinia, Eindhoven, Holland. Published May 4, 1943.
A.P.C. 377,337. An arrangement of rotary shutters for stereophotogrammetric plotting. Johannes Seemann, Jena, Germany. Published May 4, 1943.
A.P.C. 386,195. Sound track of film. Mario Lamarchia, Milan, Italy. Published May 4, 1943.
A.P.C. 393,488. Method of synchronizing the pictures and the sound of independently arranged picture and needle sound reproduction devices. Hugo Westerkamp, Koln-Poll, Germany. Published May 4, 1943.
A.P.C. 396,380. Exposure meters. Ludwig Leitz, Wetzlar, Germany. Published May 4, 1943.
A.P.C. 398,769. Motion picture cameras. Walter Riedel, Dresden, Germany. Published May 4, 1943.
A.P.C. 399,076. Method for projecting stereophotographs by means of two pencils of light-rays of different color. Max Haase, Jena, Germany. Published May 4, 1943.
A.P.C. 399,247. Motion picture camera. Walter Riedel, Dresden, Germany. Published May 4, 1943.
A.P.C. 399,283. Sunshades. Hubert Nerwin, Dresden-Reick, Germany. Published May 4, 1943.
A.P.C. 399,443. Projection of images. Johan Sam Jacobson, S-Gravenhage, Holland. Published May 4, 1943.
A.P.C. 401,026. Film apparatus. Arnaud Cramwinckel et al., Eindhoven, Holland. Published May 4, 1943.
A.P.C. 415,360. Device for pointing in a variable altitude an optical apparatus. Pascal Carpentier, Paris, France. Published May 4, 1943.
A.P.C. 416,126. Multiple focus lenses and method of making same. Serge Clave et al., Paris, France. Published May 4, 1943.
A.P.C. 417,194. Stereoscopic motion picture device. Ramon Oriol, Manila, P. I. Published May 4, 1943.
A.P.C. 427,956. Equipments for the projection of stereoscopic views and films. Francois Savoye, Paris, France. Published May 4, 1943.
A.P.C. 440,103. Incandescent projection lamps with reflector. Jacques Louis Joseph Marette, Saint Germain En Laye, France. Published May 4, 1943.

CLASS 89

A.P.C. 166,172. Railroad guns. Felix Skora, Dusseldorf, Germany. Published May 4, 1943.
A.P.C. 176,335. Cartridge belts. Josef Vesely, Brno, Czechoslovakia. Published May 4, 1943.
A.P.C. 247,699. Spring recoil mechanisms for machine guns. Rudolf Niemann, Oberndorf on the Neckar, Germany. Published May 4, 1943.
A.P.C. 256,875. Process for the strengthening of shelter covers. Nicolas Zitkevic, Belgrade, Jugoslavia. Published May 4, 1943.
A.P.C. 278,498. Ammunition container for aircraft. Heinrich Hertel, Rodstock, Germany. Published May 4, 1943.
A.P.C. 309,858. Firing devices. Walter Lampel et al., Furth, Germany. Published May 4, 1943.
A.P.C. 313,395. Sighting device for air-target guns Werner Christian Lassen Haubroe, Copenhagen, Denmark. Published May 4, 1943.
A.P.C. 336,671. Gun-carriage. Roberto Antona Traversi, Genoa, Italy. Published May 4, 1943.
A.P.C. 340,618. Loading apparatus for rapidly supplying aircrafts with ammunition. Piero Magni et al., Milan, Italy. Published May 4, 1943.
A.P.C. 357,514. Aircraft back-turret cupola, Ettore Lanciani, Milan, Italy. Published May 4, 1943.
A.P.C. 357,976. Firing and carriage frame for large calibre shoulder rifles especially for tank rifles. Wolfgang Rossmanith, Solothurn, Switzerland Published May 4, 1943.
A.P.C. 362,261. Automatic shoulder fire-arm adapted to be used in a carriage. Wolfgang Rossmanith, Solothurn, Switzerland. Published May 4, 1943.
A.P.C. 382,632. Embrasure shutter for covering embrasure openings in the hood of combat places in airplanes. Johannes Linke et al., Berlin-Tegel, Germany. Published May 4, 1943.

CLASS 90

A.P.C. 222,743. Electric feeler controls for machine tools. Eduard Felix Muller, Leipzig, Germany. Published May 4, 1943.
A.P.C. 240,370. Method and a machine for the progressive cutting by generation of involute teeth. Jean Joseph Capelle, Clamart, France. Published May 4, 1943.
A.P.C. 322,679. Feed gears. Emil Panthoefer, Siegen, Germany. Published May 4, 1943.
A.P.C. 328,824. Machines for milling the flanges of airplane wing spars. Emile Julien Eugene Dewoitine, Neuilly-sur-Seine, France. Published May 4, 1943.
A.P.C. 335,780. Tracer control for machine tools. Paul Volk, Berlin-Charlottenburg, Germany. Published May 4, 1943.
A.P.C. 349,194. Feed apparatus for moving the feeler pin holder of copy milling machines. Hermann Ehrenberg, Langen (Hesse), Germany. Published May 4, 1943.
A.P.C. 352,035. Safety device for machine tools. Shinkuro Mikami, Tokyo, Japan. Published May 4, 1943.
A.P.C. 352,036. Safety device for machine tools using photo-electric tubes. Shinkuro Mikami, Tokyo, Japan. Published May 4, 1943.
A.P.C. 392,532. Gear shaping machines. Georg Gert Frederichs, Kassel-Brasselsberg, Germany. Published May 4, 1943.
A.P.C. 394,220. Milling machines. Carl Schmid. Leipzig, Germany. Published May 4, 1943.
A.P.C. 401,785. Tracer control for tool machines. Paul Volk, Berlin-Charlottenburg, Germany. Published May 4, 1943.
A.P.C. 415,230. Device making it possible to ensure the horizontality and locking of an overhanging arm moving vertically along a column. Charles William Berthiez, Paris, France. Published May 4, 1943.
A.P.C. 416,130. System of heat milling for steel ingots. Leonida Antonelli et al., Padova, Italy. Published May 4, 1943.
A.P.C. 417,826. Cutting frame for dividing apparatus. Rudolf Wilhelm Lipp, Berlin-Pankow, Germany. Published May 4, 1943.
A.P.C. 426,200. Copying machine. Kurt Zwick, Munchen, Germany. Published May 4, 1943.

A.P.C. 431,768. Milling machine for ingots. Leonida Antonelli et al., Este, Padova, Italy. Published May 4, 1943.

CLASS 91

A.P.C. 164,523. Textile finishing process. Kurt Quehl, Zwickau, Germany. Published May 4, 1943.

A.P.C. 181,966. Method of forming a bright metallic deposit on the surface of objects. Max Tischer, Bor U C Lipy, Czechoslovakia. Published May 4, 1943.

A.P.C. 206,083. Method of galvanizing metal tubes, sheets and the like. Bernhard Ulbright, Riesa-Groba on the Elbe, Germany. Published May 4, 1943.

A.P.C. 230,336. Process of protecting inaccessible surfaces and composition therefor. Eugen Hutzenlaub et al., Stuttgart, Germany. Published May 4, 1943.

A.P.C. 232,172. Process for spreading rust preventing media upon the inside of gas holder bells and apparatus therefor. Fritz Maurer et al., Stuttgart, Bad Cannstatt, Germany. Published May 4, 1943.

A.P.C. 233,292. Process for the improvement of textiles. Ernst Schubert et al., Kurot Jonsdorf, near Zittau, Germany. Published May 4, 1943.

A.P.C. 233,455. Method of coating pistons. Bernhard Berghaus et al., Berlin-Lankwitz, Germany. Published May 4, 1943.

A.P.C. 240,422. Granular, light building substance. Carl Fabritz, Konigsberg, Germany. Published May 4, 1943.

A.P.C. 261,155. Process for manufacturing homogenous plastic material by impregnation. Gaston Hubert Vulliet-Durand, Paris, France. Published May 4, 1943.

A.P.C. 291,348. Method for homogenously combining base materials of all kinds with nitro varnish and color films. Max Robitschek, Stuttgart, Germany. Published May 4, 1943.

A.P.C. 292,154. Treatment of yarns. Fritz Drechsel, Kufstein/Tyrol, Germany. Published May 4, 1943.

A.P.C. 298,508. Method of making insulated wire. Johannes Hoekstra et al., Eindhoven, Holland. Published May 4, 1943.

A.P.C. 304,193. Process and a device for impregnating condensers. Berthold Springer, Berlin, Germany. Published May 4, 1943.

A.P.C. 340,600. Apparatus for supplying adhesive. Constantin Friedrich Rober et al., Dresden-A. 28, Germany. Published May 4, 1943.

A.P.C. 343,178. Apparatus for manufacturing phonographic discs. Albert B. St. Hilaire, Paris, France. Published May 4, 1943.

A.P.C. 352,642. Treatment of glass-covered electric conductors. Angelo Vincenzo Folco, Turin, Italy. Published May 4, 1943.

A.P.C. 421,397. The manufacture of artificial sausage skins. Julius Wolff, Amstenrade, Holland. Published May 4, 1943.

A.P.C. 421,398. Device for the manufacture of artificial sausage skins. Julius Wolff, Amstenrade, Holland. Published May 4, 1943.

A.P.C. 441,151. Process for the preparation of textile threads. Leib Windschauer, Berlin, Germany. Published May 4, 1943.

CLASS 92

A.P.C. 122,076. Production of pure cellulose. Martin Gunther, Berlin, Germany. Published May 4, 1943.

A.P.C. 159,854. Control of paper-making machinery. Hermann Palm, Neukochen, Germany. Published May 4, 1943.

A.P.C. 216,306. Manufacture of materials, boards, articles or compositions of a fibrous stock. Heinrich Prufer, Vienna, Germany. Published May 4. 1943.

A.P.C. 219,840. Fibrous moulded bodies. Hermann Basler, Allgau, Germany. Published May 4, 1943.

A.P.C. 237,302. Process for removing printing ink from printed paper. Berthold Rassow, Leipzig, Germany. Published May 4, 1943.

A.P.C. 247,889. Process and apparatus for treating or improving cellulose material. Richard Jenke, Saalfeld, Germany. Published May 4, 1943.

A.P.C. 248,628. Process for the production of bleachable straw half stuffs and straw pulps. Kurt Hess et al., Berlin-Dahlem, Germany. Published May 4, 1943.

A.P.C. 254,567. Production of hard plates from vegetable fibre pulp. Hermann Basler, Leutkirch/Allgau, Germany. Published May 4, 1943.

A.P.C. 261,133. Process for obtaining cellulose from resinous pine woods. Francesco Carlo Palazzo, Firenze, Italy. Published May 4, 1943.

A.P.C. 261,154. Plastic materials and the manufacturing process of same. Gaston Hubert Vulliet-Durand, Paris, France. Published May 4, 1943.

A.P.C. 281,416. Process for the preliminary treatment of wood. Karl Miedler, Tharandt, Germany. Published May 4, 1943.

A.P.C. 291,499. Heat conducting fibre board. Hermann Basler, Berlin, Germany. Published May 4, 1943.

A.P.C. 292,749. Processes for the production of asbestos cement slate possessing increased bending and impact strength. Janos Albert, Budapest, Hungary. Published May 4, 1943.

A.P.C. 299,888. Processes of making high-grade cellulose. Wilhelm Overbeck, Mannheim-Waldhof, Germany. Published May 4, 1943.

A.P.C. 302,919. Screen for paper stock and the like. Otto Imset, Skoyen, near Oslo, Norway. Published May 4, 1943.

A.P.C. 305,403. Process for manufacturing sheets, felts and mats of glass fibres by the wet process. Secondo Marocco, Milan, Italy. Published May 4, 1943.

A.P.C. 314,030. Formation of hollow bodies. Pino Salvaneschi, Broni, Italy. Published May 4, 1943.

A.P.C. 323,052. Process for the production of acid-proof felts for paper making machines. Fritz Wilhelm Holl, Lambrecht/Rheinpfalz, Germany. Published May 4, 1943.

A.P.C. 326,496. Process of treating fibrous materials, more particularly bast fibres. Jacob Johan Zeehuisen, Scheveningen, Netherlands. Published May 4, 1943.

A.P.C. 326,498. Process of obtaining fibres from brushwood, in particular from spartium scoparium. Heinz Seger, Frankfurt-am-Main, Germany. Published May 4, 1943.

A.P.C. 330,469. Refined cellulose and method for obtaining the same. Erich Opfermann, Berlin, Germany. Published May 4, 1943.

A.P.C. 337,665. Distributing devices. Hermann Basler, Berlin-Dahlem, Germany. Published May 4, 1943.

A.P.C. 345,177. Method of producing hard fibre boards. Hermann Basler, Berlin-Dahlem, Germany. Published May 4, 1943.

A.P.C. 351,243. Process for the conversion of natural fibres. Karl Vieweg, Francfort-on-Main, Germany. Published May 4, 1943.

A.P.C. 366,764. A hollander. Helmuth Banning, Duren, Germany. Published May 4, 1943.

A.P.C. 367,059. Refined cellulose and method for obtaining the same. Erich Opfermann, Berlin-Charlottenburg, Germany. Published May 4, 1943.

A.P.C. 386,729. Beating engine. August Aeldert, Dusseldorf, Germany. Published May 4, 1943.

A.P.C. 402,868. Process for treating tomato plant stalks for the purpose of obtaining textile fibres and/or paper pulps. Augusto Mengoli, Bologna, Italy. Published May 4, 1943.

A.P.C. 428,674. Processes for the extraction of cellulosic fibres from vegetable material. Umberto Pomilio, Rome, Italy. Published May 4, 1943.

A.P.C. 443,390. Art of decorticating and preparing for spinning the supple fibre of fibrous plants. Dirk Ehrlich Fuld, Padalarang, near Bandoeng, Java, Netherlands East Indies. Published May 4, 1943.

CLASS 93

A.P.C. 396,114. Method and apparatus for making a bag with self-holding folds. Adolf Rambold, Dresden, Germany. Published May 4, 1943.

CLASS 94

A.P.C. 385,177. Device for dowelling transverse joints of concrete road pavements. Alexander Musall, Berlin, Germany. Published May 4, 1943.

A.P.C. 397,308. Rubber-covered paving-blocks. Marcel Tiberghein, Muizon, France. Published May 4, 1943.

CLASS 95

A.P.C. 165,091. Method and device for producing intensified colors or for intensifying the perception of colors. Ferdinand Leiber, Berlin-Friedrichshagen, Germany. Published May 4, 1943.

A.P.C. 268,418. Method of and apparatus for the continuous production of photoprints. Paul Konig et al., Berlin-Friedenau, Germany. Published May 4, 1943.

A.P.C. 280,046. Apparatus for the production of photoprints. Max Weisz, Wien, Germany. Published May 4, 1943.

A.P.C. 298,228. Rollfilm cameras. Heinz Kuppenbender et al., Dresden, Germany. Published May 4, 1943.

A.P.C. 301,266. Cameras. Heinz Kuppenbender et al., Dresden, Germany. Published May 4, 1943.

A.P.C. 304,702. View finders. Heinz Kuppenbender, Dresden, Germany. Published May 4, 1943.

A.P.C. 318,113. Photographic solution. Hans Diamant-Eerde, Richmond Hill, N. Y. Published May 4, 1943.

A.P.C. 318,344. Devices for making exposures on lenticular films. Anne Henri Jacques de Lassus Saint Genies, Versailles, France. Published May 4, 1943.

A.P.C. 323,472. Rollfilm cameras. Hubert Nerwin, Dresden, Germany. Published May 4, 1943.

A.P.C. 323,576. Production of light sensitive photographic material. Walther Kuhne, Mannheim, Germany. Published May 4, 1943.

A.P.C. 338,236. Process of making photographs. Otto Vierling, Dresden, Germany. Published May 4, 1943.

A.P.C. 339,812. Colour films. Anne Henri Jacques de Lassus Saint Genies, Versailles, France. Published May 4, 1943.

A.P.C. 340,691. Film feed mechanisms for photographic cameras. Hermann Friebe, Jena, Germany. Published May 4, 1943.

A.P.C. 340,750. Photographic cameras. Heinz Kuppenbender et al., Dresden, Germany. Published May 4, 1943.

A.P.C. 341,164. Rollfilm cameras. Hubert Nerwin et al., Dresden, Germany. Published May 4, 1943.

A.P.C. 344,143. Developing process. Johannes Rzymkowski, Jena, Germany. Published May 4, 1943.

A.P.C. 359,383. Filtering process. Istvan Rosos, Budapest, Hungary. Published May 4, 1943.

A.P.C. 365,903. Photographic shutters. Bruno Gehmlich, Freital, near Dresden, Germany. Published May 4, 1943.

A.P.C. 369,451. Method and material for making colored photographic prints. Johann Specht, Leverkusen-Kuppersteg, Germany. Published May 4, 1943.

A.P.C. 371,976. Device for adjusting objectives of different focal lengths in cameras. Hermann Bretthauer, Berlin-Lankwitz, Germany. Published May 4, 1943.

A.P.C. 372,031. Rollfilm cameras. Hubert Nerwin, Dresden, Germany. Published May 4, 1943.

A.P.C. 373,640. Process for taking photographs. Hans C. Deckel et al., Munchen-Solln, Germany. Published May 4, 1943.

A.P.C. 375,036. Film feed lock and shutter tensioning mechanism for cameras. August Nagel, Stuttgart-Degerloch, Germany. Published May 4, 1943.

A.P.C. 377,404. Process to manufacture light-sensitive, photographical material. Friedrich Lierg, Vienna, Germany. Published May 4, 1943.

A.P.C. 383,535. Photographic cameras. Heinz Kuppenbender, Dresden, Germany. Published May 4, 1943.

A.P.C. 384,199. Photographic justifying apparatus. Karl Werner Schade, Berlin, Germany. Published May 4, 1943.

A.P.C. 387,974. Copyfilms for lenticular sound tracks. Cornelis Johannes Dippel et al., Eindhoven, Holland. Published May 4, 1943.

A.P.C. 389,222. Colour couplers for photographic colour development. Honore Verkinderen et al., Mortsel, Belgium. Published May 4, 1943.

A.P.C. 394,217. Photographic cameras. Wilhelm Priesemann, Brunswick, Germany. Published May 4, 1943.

A.P.C. 394,290. Color couplers for color development. Pierre Bruylants et al., Winxele-Velthem (Lowen), Belgium. Published May 4, 1943.

A.P.C. 395,422. Automatic photoprinting device. Arthur Schade et al., Wiesbaden-Biebrich, Germany. Published May 4, 1943.

A.P.C. 397,730. Automatic working up of photographic papers and films. Rudolf Alfred Kremp, Leverkusen, Germany. Published May 4, 1943.

A.P.C. 402,643. Photographic focal plane shutters. Adam Wagner, Wetzlar, Germany. Published May 4, 1943.

A.P.C. 416,732. Photographic roll film cameras. Camillo Kallusch, Prerau, Moravia. Published May 4, 1943.

A.P.C. 418,502. Light sensitive systems and processes of making the same. Ostap Stasiw, Dresden-Strehlen, Germany. Published May 4, 1943.

A.P.C. 431,266. Production of sound records. Fritz Steube, Leipzig, Germany. Published May 4, 1943.

A.P.C. 431,269. Process for increasing the transparency difference of sound records in multi-layer materials. Wilhelm Schneider et al., Dessau, Germany. Published May 4, 1943.

A.P.C. 438,566. Production of color photographic images. Wilhelm Schneider et al., Dessau, Germany. Published May 4, 1943.

A.P.C. 444,353. Photographic positive material. Johann Specht, Leverkusen-Kuppersteg, Germany. Published May 4, 1943.

A.P.C. 444,354. Filter-screen. Johann Specht, Leverkusen-Kuppersteg, Germany. Published May 4, 1943.

CLASS 97

A.P.C. 399,875. Plough share. Torben Mohl, Copenhagen, Denmark. Published May 4, 1943.

CLASS 98

A.P.C. 360,856. Work bench for welding jobs and the like. Karl Koweindl, Vienna, Germany. Published May 4, 1943.

CLASS 99

A.P.C. 176,356. Process of ensuring normal curdling of milk and normal acidification of milk, cream, curd and cheese. Georg Friedel, Dresden, Germany. Published May 4, 1943.

A.P.C. 213,933. Process for the production of stable storable raw food. Alfred Kuhn, Radebeul-Dresden, Germany. Published May 4, 1943.

A.P.C. 229,716. Method for preventing the disagreeable odor occurring in the cooking of sea fish. Franz Siegfried Falticzek, Vienna, Germany. Published May 4, 1943.

A.P.C. 245,782. Production of grits or groats. Jorgen Petersen, Svendborg, Denmark. Published May 4, 1943.

A.P.C. 257,240. Process of separating albuminous products from milk good for beating and baking. Karl Kremers, Stuttgart, Germany. Published May 4, 1943.

A.P.C. 273,520. Process for the production of yeast preparations. Erwin Bumm, Koln-Mulheim, Germany. Published May 4, 1943.

A.P.C. 274,000. Egg yolk substitute. Karl Kremers, Stuttgart, Germany. Published May 4, 1943.

A.P.C. 296,136. Method for preservation of solid food. Shigeru Shirokisawa, Tokyo, Japan. Published May 4, 1943.

A.P.C. 296,157. Edible ice, and the production thereof. Anders Herlow, Grindsted, Denmark. Published May 4, 1943.

A.P.C. 307,337. Process for the production of gluten powder. Johan Ernst Nyrop, Hellerup, Copenhagen, Denmark. Published May 4, 1943.

A.P.C. 308,447. Process of savouring and flavouring. Georg Alexander Krause, Munchen, Germany. Published May 4, 1943.

A.P.C. 316,681. Process for the treatment of worts obtained from amylaceous materials. Firmin Boinot, Melle, Deux-Sevres, France. Published May 4, 1943.

A.P.C. 319,354. Process of making bread. Richard Bruhn et al., Chemnitz, Germany. Published May 4, 1943.

A.P.C. 321,084. Manufacture and bottling of carbonated milk beverages. Hans Griesbeck, Koln (Rhine), Germany. Published May 4, 1943.

A.P.C. 327,736. Process for improving the baking quality of flour. Ernst Waldschmidt et al., Prag, Moravia and Bohemia. Published May 4, 1943.

A.P.C. 332,396. Process of preparing pasty highly active cellulose containing masses peptisized by vegetable colloids. Waldemar Sklarz, Milan, Italy. Published May 4, 1943.

A.P.C. 332,583. Cereal product and process for obtaining same. Johann Georg Ferdinand Dombach. Bussum, Netherlands. Published May 4, 1943.

A.P.C. 334,978. Producing a pulverous substitute for the white of an egg. Andreas Rugamer et al., Hamburg, Germany. Published May 4, 1943.

A.P.C. 336,292. Method for preparing a therapeutically efficacious product from foodstuffs and articles of consumption capable of being roasted. August Heisler et al., Konigsfeld I. Schwarzwald, Germany. Published May 4, 1943.

A.P.C. 339,827. Preserves or canned foods and the production thereof. Holger Jorgensen, Copenhagen, Denmark. Published May 4, 1943.

A.P.C. 352,622. Method and apparatus for the fermentationless conservation of fruit- grape- and greens-juices. Ernst Leon Victor Emile Lizeray, Paris, France. Published May 4, 1943.

A.P.C. 358,093. Foodstuffs-preserving in bottles, tins or the like. Adolf Bargeboer, The Hague, Netherlands. Published May 4, 1943.

A.P.C. 360,503. Enriching beer with vitamins. Fritz Lux et al., Berlin-Wilmersdorf, Germany. Published May 4, 1943.

A.P.C. 369,359. Processes for sterilizing milk and milk products. Jules Doms, Brussels, Belgium. Published May 4, 1943.

A.P.C. 373,692. Method and apparatus to freeze fruit, vegetables, and the like. Wilhelm Petrelli, Dusseldorf, Germany. Published May 4, 1943.

A.P.C. 376,698. Process for the treatment of milk and other alimentary and especially globular liquids to improve their preservation and render them more easily digestible, apparatus and product relative to the same. Silvio Benigno Crespi, Milan, Italy. Published May 4, 1943.

A.P.C. 386,189. Method of preparing cocoa and chocolate products. Johan Ernst Nyrop, Copenhagen, Denmark. Published May 4, 1943.

A.P.C. 389,746. Method of producing baker's ware by means of the fermentation of yeast dough. Friedrich von Viditz, Wien, Germany. Published May 4, 1943.

A.P.C. 390,422. Method of preparing valuable materials with the aid of invertebrates. Engbert Harmen Reerink et al., Bussum, Holland. Published May 4, 1943.

A.P.C. 390,847. Red pepper surrogate. Anton Ruther, Pfaffstatten, Germany. Published May 4, 1943.

A.P.C. 394,221. Process for the manufacture of dry vegetable products. Balint Moskovits, Budapest, Hungary. Published May 4, 1943.

A.P.C. 395,359½. Food composition. Michel Hendrikx et al., Antwerp, Belgium. Published May 4, 1943.

A.P.C. 397,867. Nutrient materials. Fredrik Andre Moller, Haren b/Groningen, Netherlands. Published May 4, 1943.

A.P.C. 404,619. Preserved foodstuffs. Eibert den Herder, Harderwijk, Netherlands. Published May 4, 1943.

A.P.C. 421,393. Method of improving artificial sausage skins. Julius Wolff, Amstenrade, Netherlands. Published May 4, 1943.

A.P.C. 439,293. Method of preserving vegetables, fruits, and similar vegetable food by drying and briquetting. Aage Gernow, Copenhagen, Denmark. Published May 4, 1943.

CLASS 100

A.P.C. 200,282. Toggle lever press. Adolf Schneider et al., Karlsruhe (Baden), Germany. Published May 4, 1943.

A.P.C. 387,735. Method of preparing bales. Carlo Pizzi, Alessandria, Italy. Published May 4, 1943.

A.P.C. 397,971. Hydraulic press. Shigeto Yokogawa, Yodobashi-ku, Tokyo-shi, Japan. Published May 4, 1943.

CLASS 101

A.P.C. 226,467. Printing mechanisms for bookkeeping machines. Kurt Aurbach, Bielefeld, Germany. Published May 4, 1943.

A.P.C. 329,909. Film printing screens and a method of manufacturing them. Franz Nestelberger, Frankfurt-am-Main-Hoechst, Germany. Published May 4, 1943.

A.P.C. 356,190. Method for the production of printing plates, especially flat printing and offset printing plates. Fritz Hermann Hausleiter, Munich, Germany. Published May 4, 1943.

A.P.C. 373,664. Method to manufacture coloured pictures, especially the yellow part-pictures in the colourphotography or colour-cinematography respectively. Franz Lejeune, Vienna, Germany. Published May 4, 1943.

A.P.C. 385,581. Process and device for printing fabrics of all kind. Bruno Sonnino, Milan, Italy. Published May 4, 1943.

CLASS 102

A.P.C. 249,225. Devices for the self-mooring of mines and buoys. Enrico Olmo, Milan, Italy. Published May 4, 1943.

A.P.C. 250,209. Armour piercing projectiles. Frantisek Janecek et al., Praha-Nusle II, Czechoslovakia. Published May 4, 1943.

A.P.C. 276,093. Projectile for perforating bore hole casings. Marcel Schlumberger, Paris, France. Published May 4, 1943.

A.P.C. 285,850. Equipment for subaqueous arms destined to bring about the firing of same when traversed by a galvanic contact current. Pasquale Borracci, Firenze, Italy. Published May 4, 1943.

A.P.C. 295,135. Armour-piercing projectiles. Walter Reinecken, Dusseldorf-Gerresheim, Germany. Published May 4, 1943.

A.P.C. 323,985. Percussion fuze for artillery. Cesare del Prato, Naples, Italy. Published May 4, 1943.

A.P.C. 340,193. Cartridge case and method of making same. Adriaan Jan Jurriaan Lambeek, Dordrecht, Holland. Published May 4, 1943.

A.P.C. 346,639. Percussion fuse for rifled artilleries. Cesare Del Prato, Naples, Italy. Published May 4, 1943.

A.P.C. 357,504. Spring mechanism for the release of a firing pin or similar movable part. Ernst Weiss et al., Nuremberg, Germany. Published May 4, 1943.

A.P.C. 377,309. Means for keeping ammunitions sustained in the air. Alberto Jona, Rome, Italy. Published May 4, 1943.

A.P.C. 384,215. Aerial mine. Andor de Hertelendy, Paris, France. Published May 4, 1943.

A.P.C. 387,324. Time safety device for direct action percussion. Helmut Junghans, Schramberg-Sulgen, Eckenhof, Germany. Published May 4, 1943.

A.P.C. 390,242. Projectiles particularly intended for small calibre fire-arms of very flat firing. Bernard Long, Paris, France. Published May 4, 1943.

CLASSIFICATION OF PATENTS

ISSUED MAY 4, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Designs	38—No.	135,647 to No.	135,684, inclusive.
Total	822		

Notice

See page xxxi for list of applications published by the Alien Property Custodian.

Adjudicated Patents

(C. C. A. Ill.) Cross patent, No. 1,758,146, for domestic heating system, *Held* infringed. *Mid-Continent Inv. Co.* v. *Mercoid Corporation,* 133 F.(2d) 803.

(C. C. A. Ill.) Freeman patent, No. 1,813,732, for furnace control, claims 1, 4, 6, and 9 *Held* valid and infringed. *Mercoid Corporation* v. *Minneapolis-Honeywell Regulator Co.,* 133 F.(2d) 811.

(C. C. A. Conn.) Tonnies patent, No. 1,982,406, for exposure meter, claims 3, 4, 5, 7, 8, and 13 *Held* invalid. *Weston Electrical Instrument Corp.* v. *Dejur-Amsco Corp.,* 133 F.(2d) 778.

(C. C. A. N. Y.) Wallace and Hand patent, No. 2,236,387, for perspiration inhibiting composition, *Held* invalid. *Wallace* v. *F. W. Woolworth Co.,* 133 F.(2d) 763.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,131,720, E. St. Pierre, Knitted fabrics and method of making the same, decided March 25, 1943, claims 1, 4, 5, and 6.

Pat. 2,286,569, L. Pollack, Process for producing light polarizing bodies, decided April 13, 1943, claims 2, 6, 9, 11, 12, 13, 14, 15, 19, and 20.

Disclaimer

2,304,186.—*Charles V. Litton,* Redwood City, Calif. Velocity Modulated Tube. Patent dated December 8, 1942. Disclaimer filed April 19, 1943, by the assignee, *International Standard Electric Corporation.*

Hereby enters this disclaimer to claim 4 in said specification.

Important Information

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings, as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)
Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)
Original application. (Facsimile petition, specification, oath, and drawings at present time.)
Specification as originally filed. (As received in Office.)
Specification as amended. (With amendments entered.)
Specification as allowed. (As passed by the Examiner for issue.)
Original specification. (Facsimile at present time.)
File-wrapper. (File-wrapper only.)
File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)
File-wrapper contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)
Assignment. (Give the liber and page of the record as well as the name of the inventor.)
Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Conditions of Applications Under Examination at Close of Business April 24, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,820; Trade-Mark Division, 1,043. Oldest new case, June 13, 1942; oldest amended, June 13, 1942.)
(The dates given are 1942 except where † indicates 1941)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Nov. 20	Dec. 14	324
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textiles Wringers; Butchering.	Feb. 8	Dec. 15	222
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	June 26	July 2	944
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Nov. 6	Nov. 13	392
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Aug. 25	Aug. 22	522
6. GENIESSE, E. W., Carbon Chemistry (part)	Aug. 19	Aug. 9	1013
7. JARBOE, C. G., Optics, Photography	Sept. 30	Sept. 22	399
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Oct. 7	Oct. 12	606
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Sept. 16	Sept. 5	733
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Nov. 17	Nov. 17	374
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Nov. 17	Nov. 9	356
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Oct. 20	Oct. 19	647
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 12	Dec. 31	429
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Oct. 30	Oct. 15	670
16. SPENCER, C. J., Telegraphy; Telephony	Sept. 11	Sept. 3	625
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 11	July 3	715
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 13	Sept. 1	546
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Aug. 7	Aug. 6	669
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Nov. 16	Nov. 11	435
21. THOMPSON, T. J., Textiles	Nov. 23	Oct. 28	288
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	July 17	July 21	1682
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 13	Nov. 10	135
24. LUSBY CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Dec. 3	Dec. 5	556
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 2	Oct. 17	627
26. YOUNG, R. R., Electricity—Generation and Motive Power	Oct. 1	Oct. 12	597
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 8	Sept. 28	585
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 13	June 15	611
29. SHKLARIN, J. B., Bargage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 8	Dec. 22	339
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 8	†Jan. 8	316
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Nov. 2	Nov. 2	1364
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 26	Sept. 21	643
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Dec. 1	Dec. 2	621
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Oct. 22	Oct. 23	397
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Dec. 3	Nov. 9	608
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Nov. 14	Sept. 30	373
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 14	Oct. 15	409
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Oct. 5	Oct. 9	635
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	†Jan. 8	†Jan. 2	384
40. DRUMMOND, E. J., Receptacles	†Jan. 8	†Jan. 9	324
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 14	Oct. 14	410
42. MARANS, H., Electric Signaling	Nov. 21	Dec. 17	332
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	July 3	July 1	883
44. HARVEY, L. P., Refrigeration	Sept. 16	Sept. 14	335
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Oct. 19	Nov. 14	721
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Sept. 18	Sept. 18	472
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Sept. 24	Oct. 8	1008
48. ROEPKE, O. B., Electricity, General Applications; Igniters	June 13	June 13	705
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Oct. 24	Oct. 29	594
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Sept. 28	Sept. 28	1224
51. BACKUS, C. D., Radiant Energy	Oct. 8	Oct. 8	987
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Oct. 27	Oct. 20	646
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Feb. 13	Dec. 30	197
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Sept. 29	Sept. 30	442
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	Aug. 20	Aug. 20	758
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Oct. 9	Oct. 9	786
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 25	Aug. 1	434
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 21	Nov. 12	534
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	June 25	July 7	1279
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Aug. 18	Aug. 18	414
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Sept. 26	Sept. 30	575
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Dec. 2	Oct. 9	458
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Aug. 5	Aug. 12	964
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Nov. 11	Nov. 10	1092
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Sept. 15	Sept. 18	657
Trade Marks: RICHMOND, F. A	†Mar. 24	†Apr. 9	1043
Designs: KALUPY, H. H	†Mar. 22	†Apr. 8	308

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

VI-JON LABORATORIES, INC.
v.
LENTHERIC INCORPORATED

No. 4,659. Decided February 3, 1943

[— F.(2d) —]

TRADE-MARKS—CONFUSING SIMILARITY.

Applicant's trade-mark comprising the words "Night in Shanghai," printed in letters simulating Chinese characters, the word "Shanghai" being disclaimed, which mark applicant applies to perfumes and face and hand lotions, *Held* confusingly similar to opposer's mark "Shanghai" used by opposer on toilet articles, such as perfume, toilet water, sachet, talcum powder, bath powder and bath oil.

APPEAL from the Patent Office. Affirmed.

Mr. A. W. Murray for Vi-Jon Laboratories, Inc.
Mr. Frank Wilen for Lentheric Incorporated.

HATFIELD, *J.*:

This is an appeal in a trade-mark opposition proceeding from the decision of the Commissioner of Patents affirming the decision of the Examiner of Interferences sustaining appellee's notice of opposition and holding that appellant was not entitled to the registration, under the Trade-Mark Act of February 20, 1905, of a trade-mark comprising the words "Night in Shanghai," printed in letters simulating Chinese characters, for use on "perfumes and face and hand lotions."*

The geographical term "Shanghai" has been disclaimed by appellant apart from the mark as shown.

Appellant's application for registration was filed November 8, 1939, and it is stated therein that appellant has used its mark since May 1937.

No evidence was introduced by appellant.

Appellee's trade-mark consists of the geographical term "Shanghai."

It appears from the evidence introduced by appellee that appellee has used its trade-mark continuously on toilet articles, such as perfume, toilet water, sachet, talcum powder, bath powder, and bath oil, since at least as early as September 15, 1936; that it has expended large sums of money in advertising its goods and its trade-mark "Shanghai"; and that its goods are sold to the purchasing public through drug stores and department stores throughout the United States. It further appears from the evidence introduced by appellee that although appellee's products are manufactured in the United States, certain "essence compounds," used as ingredients therein, are produced in France.

It is apparent from the record that appellee is the prior user of the term "Shanghai," and that the goods of the parties possess the same descriptive properties.

Although it is contended by counsel for appellant that the geographical term "Shanghai" is used on appellee's labels in such manner as to lead the public to believe that appellee's goods are produced in Shanghai, that Shanghai is one of the various addresses of appellee, or that appellee's products are popular in Shanghai, we find nothing on appellee's labels of record to support those contentions.

It is argued by counsel for appellant that the word "Shanghai" is a geographical term and, therefore, is not susceptible of exclusive ownership by appellee.

The right of appellee to oppose the registration of appellant's mark does not depend upon the exclusive ownership by appellee of its trade-mark "Shanghai." It is only necessary that appellee establish that it would probably be damaged by the registration of appellant's mark. *California Cyanide Co.* v. *American Cyanamid Co.*, 17 C. C. P. A. (Patents) 1198, 40 F.(2d) 1003, 399 O. G. 212; *Trustees for Arch Preserver Shoe Patents* v. *James McCreery & Co.*, 18 C. C. P. A. (Patents) 1507, 49 F.(2d) 1068, 410 O. G. 541; *Helzberg* v. *Katz & Ogush, Inc.*, 22 C. C. P. A. (Patents) 768, 73 F.(2d) 626, 452 O. G. 253; *The Pep Boys, Manny, Moe and Jack* v. *The Fisher Brothers Company* (cross appeals), 25 C. C. P. A. (Patents) 818, 94 F.(2d) 204, 492 O. G. 247. Accordingly, the only remaining issue to be determined is whether the marks in question, when used concurrently by the parties on their respective goods, would be likely to cause confusion or mistake in the mind of the public or deceive purchasers. In considering that issue and the right of appellant to register its mark, it should be understood that it is not of vital importance that appellant in its application for registration has disclaimed the term "Shanghai" apart from its mark as shown. *Walgreen Co.* v. *Godefroy Manufacturing Co.*, 19 C. C. P. A. (Patents) 1150, 58 F.(2d) 457, 422 O. G. 4; *Gillette* v. *Gillette Safety Razor Co.*, 20 C. C. P. A. (Patents) 1177, 65 F.(2d) 266, 436 O. G. 5; *Helzberg* v. *Katz & Ogush, Inc.*, supra.

We have given careful consideration to the arguments presented here by counsel for appellant that considering the marks as a whole they are not confusingly similar. However, we are not persuaded that counsel is right in his contentions. On the contrary, we are of opinion that those of the purchasing public who are familiar with appellee's mark "Shanghai" might readily believe that appellant's goods sold under the trade-mark "Night in Shanghai" were produced by appellee, and that the

* This cause was originally decided by this court on the first day of December 1942. Thereafter, counsel for appellee filed a petition for rehearing, requesting that the court revise certain language in its decision which, it was contended, was not necessary to a decision in the case. The rehearing was granted, January 29, 1943, solely for the purpose of permitting the court to revise the language in its decision to which counsel for appellee had directed the court's attention.

concurrent use by the parties of their marks on their respective goods would be likely to cause confusion or mistake in the mind of the public or deceive purchasers.

For the reasons stated, we are of opinion that the tribunals of the Patent Office were right in sustaining appellee's notice of opposition and holding that appellant is not entitled to have its mark registered.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

JONES
v.
WINSOR

No. 4,649. Decided December 26, 1942. Motion for leave to file addition to petition for rehearing, and petition for rehearing denied February 26, 1943

[— F.(2d) —]

1. INTERFERENCE—ESTOPPEL.

Under the circumstances that the parties J and W were both in the employ of the U. S. Navy; that they executed nonexclusive licenses under their respective applications to the U. S.; that each had separate and adverse interests remaining; that J requested the Judge Advocate General of the Navy to take over the prosecution of his application after he had learned that W was seeking to have the same official prepare an application upon the same invention; that prior to the issuance of a patent to J, W had no knowledge of the J application and of its prosecution by the Judge Advocate General; and that the W application, although earlier prepared for filing by the Judge Advocate General, was not filed until after the issuance of the said J patent *Held* that no estoppel in the form of res judicata, estoppel by election, or equitable estoppel existed against W, and *Held* that the question of actual priority of invention between J and W was properly considered by the Examiner of Interferences and the Board of Appeals.

2. SAME—PRIORITY.

Evidence reviewed and *Held* that W, the junior party and applicant, had proved beyond a reasonable doubt that he both conceived and reduced to practice the invention in issue prior to the filing date of J, the senior party and patentee, and *Held* that priority properly was awarded to W.

APPEAL from the Patent Office. Affirmed.

Mr. M. E. Jones for Jones.

Mr. J. F. Mothershead and *Mr. Carl D. McManamy* for Winsor.

LENROOT, *J.*:

This appeal brings before us for a review a decision of the Board of Appeals of the United States Patent Office in an interference proceeding, affirming the decision of the Examiner of Interferences awarding to appellee priority of invention with respect to all of the counts of the interference, seven in number.

Count 1 is illustrative of the subject matter of the counts and reads as follows:

1. In combination with a source of electrical energy having a driving motor, means to establish an operating circuit from said source, said circuit also being the stopping and starting circuit for the driving motor, said means including a switch, and means also energized from said source operable to automatically close and hold said switch closed through the action of a load in the circuit of the source of electrical energy and automatically open said switch after removal of the load for a predetermined time.

The interference is between a patent issued to appellant on December 3, 1935, upon an application filed October 25, 1932, and an application of appellee filed January 23, 1936.

All of the counts were copied by appellee from appellant's patent for purposes of interference. Inasmuch as appellee's application was filed subsequent to the issuance of appellant's patent, the burden was upon appellee to establish priority of invention beyond a reasonable doubt.

As stated in the decision of the Examiner of Interferences the invention

* * * relates to arc-welding wherein the welding arc is supplied with current by a motor-generator set which is started automatically upon striking the arc to the work and which will be stopped after a short predetermined interval after the arc-welding is discontinued by removing the arc from the work.

Appellant's Preliminary Statement alleged conception of the invention about May 1, 1929, disclosure to others during the month of June, 1929, and reduction to practice on July 17, 1929, and again on December 14, 1932.

Appellee's Preliminary Statement alleged conception of the invention about February 17, 1932, and its reduction to practice on or about February 19, 1932.

Only the junior party, Winsor, took testimony.

It appears from such testimony that at all the times hereinafter stated the appellant Jones, employed in Washington, D. C., was a technical electrical assistant in the Bureau of Construction and Repair of the United States Navy; and that appellee Winsor, an electrical engineer, was in charge of the electrical laboratory at the Puget Sound Navy Yard, Bremerton, Washington.

Thus it appears that both of the parties hereto were in the employ of the United States. Jones filed his application through an outside attorney, but subsequently at his request made on July 19, 1934, his ex parte application was prosecuted by the Judge Advocate General's Office of the Navy.

It appears that on said July 19, 1934, Jones addressed a letter to the Secretary of the Navy "Via: Chief of the Bureau of Construction and Repair," the pertinent portion of which reads as follows:

1. An application for patent on automatically controlled electric circuits, Serial No. 639,491, was filed by me on October 25, 1932. As the Navy Department is using devices to accomplish the same purpose on arc welding motor generators, I am desirous of permitting the Government to use my device.
2. It is requested, therefore, that the Department prosecute the subject application and transact all future business relative to the same. In this connection, a Power of Attorney is enclosed. In consideration of this I agree to execute a form of license satisfactory to the Secretary of the Navy, granting to the United States the right to manufacture and use this device for any and all governmental purposes, reserving to myself the commercial and foreign rights.

The record also contains the following letter:

July 27, 1934.

From: Bureau of Construction and Repair.
To: Secretary of the Navy.
Via: The Judge Advocate General.
Subject: James L. Jones—Application for Patent on Automatically Controlled Electric Circuit, Serial No. 639,491. (James L. Jones letter of 19 July 1934.)
Enclosure: (herewith)
(A) Power of Attorney
1. The attached letter and enclosure (A) are forwarded for necessary action. Mr. James L. Jones, engineer (electrical) is employed in this Bureau.
2. The Bureau considers that the device mentioned is of sufficient value to make it advisable to protect the Government's rights therein by Letters Patent, and it is requested that the Office of the Judge Advocate General prosecute this application and transact all future business relative to the same.
3. It will be noted that Mr. Jones agrees to execute license granting the United States all of the usual rights covering governmental use, reserving to himself the commercial and foreign rights under the patent and has executed the necessary Power of Attorney.

A. H. VAN KEUREN,
By direction.

It also appears from the record that on April 26, 1934, Winsor addressed a letter to the Secretary of the Navy, paragraphs 1 and 3 of which read as follows:

1. Under the provisions of General Order #195, reference (*a*), it is requested that the Department institute patent application covering the automatic starting and stopping device described herein.
3. It is believed that this invention falls under classification (*b*) of General Order #195. I am prepared to convey to the Government a nonexclusive, irrevocable, and unlimited right to make and use, and have made for the Government's use, devices embodying the invention and to sell such devices as provided for by law regarding the sale of public property.

Paragraph 2 of said letter describes in a general way the invention here involved, and references are made in the paragraph to diagrams enclosed and other correspondence between the Commandant of the Puget Sound Navy Yard and the Bureau of Construction and Repair, which it is stated give the details of the invention.

The record also shows that on August 6, 1934, the Assistant Secretary of the Navy addressed a letter to the Judge Advocate General of the Navy, which reads as follows:

August 6, 1934.

From: The Assistant Secretary of the Navy.
To: The Judge Advocate General of the Navy.
Subject: Invention of Arc Welder Automatic Start Stop Device by Thomas W. Winsor—Request for Patent application.
1. It is requested that the necessary steps be taken to protect the Government's interest in the subject Invention by Letters Patent if same are obtainable.

H. L. ROOSEVELT.

CC to: Bucon, Nyd P. S.

Nowhere in the record does it appear that prior to the issuance of the Jones patent Winsor had any knowledge that the United States was prosecuting the Jones application, or that Winsor knew that any such application was in existence.

Upon final hearing before the Examiner of Interferences, Jones contended that Winsor was estopped from claiming the involved invention because of the fact that the disclosures of the Winsor and Jones applications were being concurrently considered by the Judge Advocate General's Office and that the Jones application was permitted to mature into a patent.

This contention is stated in appellant's brief before us as follows:

1. The question of priority of invention is res adjudicata in favor of Jones.
2. Regardless of dates of conception and reduction to practice, actual or constructive, Winsor by agreement and in law has conceded priority to Jones.
3. The action of common attorneys in issuing the Jones patent while having control of the inventions and evidence of both parties, and which attorneys in turn were in the employ of and controlled by the common licensee constituted an election or concession of priority by which the parties are bound.
4. The United States Government having issued a patent to Jones while charged with knowledge and control of the evidence of both parties cannot issue a valid patent thereafter to Winsor.

The record shows that in May 1934 Jones was aware of the fact that the matter of an application for a patent by Winsor was being considered by the Navy Department for prosecution, and did not turn his (Jones') application over to the United States for prosecution until after it appeared that Winsor's application would probably be prepared and prosecuted. Furthermore, the record shows that Jones suggested to Commander Wade, Jones' superior, that a letter from Winsor disclosing the invention should not be forwarded to the proper parties for the purpose of preparing a patent application in behalf of Winsor.

Upon this point Commander Wade testified as follows:

Q. 43. During the period from the 19th of May 1934 to July 20, 1934, while the Winsor letter of Exhibit 1 was in the Electrical-Mechanical Section of the Bureau of Construction and Repair, have you any reason to believe that Mr. James L. Jones, the opposing party to this interference, knew that this letter was in the Electrical-Mechanical Section, and had knowledge of its contents?

A. I do.

* * * * * * *

Q. 44. Will you please explain your reason for believing that, at that time, Mr. Jones knew of this Winsor letter of Exhibit 1, and had knowledge of its contents.

* * * * * * *

A. I do, for the reason that it was during this period that Mr. Jones brought the letter to me and advised me that he had a similar patent pending in the hands of an outside attorney, and that it was his opinion that Bureau personnel should be given prior rights in applications for patents, for which reason he did not think this letter should be forwarded for patent application. I informed Mr. Jones that I was unable to comply with his request, and that, to whom the patent ultimately was to be granted was not a decision that I could make.

Although at the taking of said testimony Jones was represented by private counsel, there was no cross-examination with respect to the above quoted testimony.

With respect to this contention of estoppel against Winsor, the Examiner of Interferences held:

1. That upon the facts set forth in the record there was no estoppel against Winsor; and
2. That "this question of estoppel may not be considered at final hearing" since it had not been previously raised by way of a motion to dissolve the interference under rule 122 of the Rules of Practice of the United States Patent Office.

The Examiner of Interferences further held that the issuance of the Jones patent in so far as this interference is concerned had no importance other than to place upon Winsor the burden of proving priority of invention beyond a reasonable doubt.

Upon the merits of the case, the Examiner held that Winsor conceived and reduced to practice the invention prior to February 27, 1932, and as Jones upon the record is entitled only to the date of his application, October 25, 1932, for conception and constructive reduction to practice of the invention, priority thereof was awarded to Winsor.

Upon appeal to the Board of Appeals, the decision of the Examiner of Interferences was affirmed, the Board holding that upon the facts of record no estoppel existed against Winsor, and that the evidence shows that Winsor conceived the invention

and reduced it to practice prior to February 27, 1932.

The Board did not discuss the holding of the Examiner that the question of estoppel against Winsor may not be considered, because of Jones' failure to move to dissolve the interference under the provisions of rule 122, supra, but the general affirmance by the Board of the Examiner's decision operated to affirm this holding of the Examiner also. *In Re Wagenhorst*, 20 C. C. P. A. (Patents) 991, 64 F.(2d) 78.

While it is our opinion that had the Patent Office tribunals declined to consider Jones' claim of estoppel against Winsor upon the ground of Jones' failure within the motion period to move to dissolve the interference we would feel constrained to affirm such holding, in view of the peculiar facts in this case we prefer to rule upon the question based upon the evidence in the record.

[1] That the United States is not in the position of an assignee of both applications is plain. It is only a nonexclusive licensee and the parties, Winsor and Jones, each have separate and adverse interests. Consequently the doctrine of election by a common assignee has no application here, and the cases relied upon by Jones are not applicable.

As to the application of the general principle of equitable estoppel, we find nothing whatever in the record upon which an estoppel against Winsor could be based.

As hereinbefore stated, while Jones was aware that Winsor was seeking a patent upon the invention, it does not appear that at the time the Jones patent was issued, Winsor had any knowledge of Jones' application or of his claim to have invented the subject matter of the counts.

Under these circumstances, it would be most unconscionable to hold that Winsor should not be permitted to prove that he was the first inventor, and if he could establish that fact, receive an award of priority in this proceeding.

The Jones application should not have been prosecuted to issue in 1935 under the circumstances of this case, but action thereon should have been suspended until an application could be filed on behalf of Winsor, and an interference declared between the Winsor and Jones applications.

It appears that the prosecution of both applications was in charge of Commander Robert A. Lavender, who was Chief of the Patents Division of the Office of the Judge Advocate General of the Navy from July 1935 until February 1938. This witness testified that he realized that there was interfering subject matter between the Jones application and the application of Winsor, which was ready for filing; that he had many conferences with Jones on the prosecution of his case; that he nevertheless permitted the Jones patent to issue before the Winsor application was filed. Upon this point the witness testified as follows:

> Q. * * * You stated that you questioned Jones relative to these sketches and commenced the investigation to which you have just testified, in December 1935 or January 1936, as I remember your answer; the Jones patent, as the official files show, was issued December 3d, 1935; was the questioning of Jones relative to his original sketches prior to or after the issue of his patent?
>
> A. I don't remember the exact dates, but I do remember that in determining the general procedure, the question of whether to allow the Jones patent to come out was considered and I knew that I could put the Winsor application into interference with either a patent or application, so that there was no object, one way or the other, of holding the Jones application in the Patent Office until after an interference was declared. * * *

This is a most surprising statement of the witness. It would seem that he should have known that his action was very beneficial to Jones and detrimental to Winsor, inasmuch as such action placed the burden upon Winsor of proving priority of invention beyond a reasonable doubt. Jones has not been injured by any of the proceedings appearing in the record, but on the contrary he has received a patent for an invention to which it now appears from the record before us he was not entitled.

It should be here noted that there is not a scintilla of evidence in the record that either Commander Lavender or any other person associated with him prior to the issue of the Jones patent on December 3, 1935, ever formed or expressed an opinion upon the facts as to which of the parties, Jones or Winsor, was the first inventor.

Commander Lavender testified as follows:

> Having received evasive answers and having had Mr. Jones being unable to explain his own invention, rather embarrassed me in the settlement of the situation, inasmuch as the power of attorney and the license agreement between both Winsor and Jones and the Government gave me the right to settle all interferences and I didn't desire, in view of all of the circumstances in the case, to exercise that right. Accordingly, when the papers were sent over to the Department of Justice, who appears before the Patent Office in all interference proceedings, I requested the Department of Justice to appoint different attorneys to represent Winsor and Jones, and suggested that a skilled attorney in one of the Patent Sections of the War Department, represent one of the parties, in order that there would be as great a separation as possible of the interests of the two parties. This was done by the Department of Justice and a Mr. Roach, of the War Department was appointed as attorney for Jones. I was further satisfied with this selection, inasmuch as the brother of Mr. Jones, a patent attorney, was given full opportunity to be present at all hearings and all conferences on this subject.

With respect to the appointment of Mr. Roach, referred to in the above quotation, Jones' counsel in his brief states that Mr. Roach is deceased and the Government refused to further represent Jones.

There is nothing in the record to substantiate these statements, but it is pertinent to observe that Jones was represented by his present private counsel when the first testimony was taken in this interference proceeding on July 12, 1938, in the city of Washington. It also appears that since said time his present counsel has represented him, except that when the testimony was taken in the state of Washington no counsel appeared in behalf of Jones.

In support of his contention that estoppel lies against Winsor, Jones relies, in part, upon the case of *Cold Metal Process Co.* v. *United Engineering and Foundry Co.*, 107 F.(2d) 27, in which two patent applications by different persons for the same invention were being prosecuted by the same firm of attorneys before the Patent Office. Neither party knew what claims, if any, were contained in the other's application. Upon realizing the conflict of interest and without disclosing to either party the contents of the application of the other, said attorneys suggested to the owners of the respective applications that a meeting be held to see if any agreement could be entered into to protect the interests of both parties and to avoid litigation. Such a meeting was held, and an agreement was entered into, signed by the parties, in which it was agreed that claims for the common subject matter should be made in only one of the applications, and that if a patent was issued therefor the other party should be granted a license to make, use and sell the device covered by such claim.

The court found the agreement above referred to was a valid subsisting contract.

Obviously said decision has no application to the facts in the case at bar. It is interesting to note, however, that the parties in the case last cited were involved in prior litigation relative to the same subject matter. *Cold Metal Process Co.* v. *United Engineering and Foundry Co.*, 3 F. Supp. 120.

From the case last above cited, it appears that the evidence established full disclosure of the situation by the common attorneys to the respective parties, and an offer by said attorneys to withdraw as attorneys for both parties was made but declined and both parties directed the attorneys to prosecute both applications.

Here Winsor, so far as appears from the record, had no knowledge of Jones' application or any claim to the invention by him prior to the issue of the Jones patent, while Jones had knowledge of Winsor's claim to the invention and tried to persuade his superior to take no steps in behalf of Winsor toward making an application for a patent for the invention. There never was any contract between the parties hereto made directly or through counsel.

Neither appellant nor appellee has cited any authorities applicable to the facts of this case, and we have found none. The reason for such lack of authority may be that probably never before has it been urged in any court that estoppel exists against a party upon facts akin to the facts in this case.

We are in full agreement with the Patent Office tribunals that no estoppel in the form of res judicata or otherwise exists against Winsor, and that the question of actual priority of invention was properly considered by such tribunals.

[2] Considering next the evidence in the case relating to priority of invention, we would first observe that we must accept as a fact that Winsor was the first to conceive the invention. Both of the Patent Office tribunals so found, and Jones' reasons of appeal before us do not challenge such finding, but only that there was no reduction to practice by Winsor of the invention prior to Jones' filing date, October 25, 1932.

Upon this question of reduction to practice, both of the Patent Office tribunals found that the invention was reduced to practice by Winsor prior to February 27, 1932.

We have examined the evidence upon which these findings were based. In our opinion it establishes beyond any reasonable doubt that Winsor was not only the first to conceive the invention, but reduced it to practice prior to February 27, 1932, as held by the Patent Office tribunals.

This evidence is so clear and convincing that we do not deem it necessary to further comment upon it.

Appellant's brief states:

> If the first machine of Winsor were a reduction to practice, then his lack of diligence has extended over practically a period of four years since Jones was in the field and his invention was known to Winsor's attorney, (the common attorney), which in law, was knowledge to Winsor.

We are unable to understand upon what theory appellant's counsel contends that there was any duty of diligence resting upon Winsor after reducing the invention to practice. It is elementary in patent law that after a party has reduced an invention to practice, he is not chargeable with diligence, unless a subsequent conceiver has reduced the invention to practice prior to its reduction by the first conceiver.

This is so well established that no citation of authorities is required.

It is true that after one has conceived an invention and reduced it to practice, he may lose any rights to an award of priority by suppression and concealment of the invention. *Mason* v. *Hepburn*, 84 O. G. 147, 13 App. D. C. 86, is the leading case upon this subject, and while it is cited in appellant's brief, there are no facts in this case which could possibly make that doctrine applicable.

One further matter requires brief comment.

Appellant's 7th reason of appeal reads as follows:

> 7. That the Board of Appeals erred in not holding that Winsor and privies had suppressed and failed to produce various pieces of evidence exclusively under their control creates the conclusive presumption that their production would have been adverse to Winsor.

In his brief appellant's counsel stresses this reason of appeal, but it is sufficient to say that there is no evidence in the record indicating that any evidence was suppressed. Counsel for appellant did make such a statement, but this, of course, cannot take the place of evidence. The only evidence in the record in any way bearing upon the subject is the testimony of Commander Lavender, who testified that Jones could not satisfactorily explain the operation of the circuit shown in his sketches, and Commander Lavender further testified as follows:

> At that time, Mr. Jones had no explanation for the inoperativeness of the circuit and requested that he be allowed to take the original sketches home with him, that he may have an opportunity to study them over, and, he assured me, that by the next day he could tell me how his circuits operated. I refused to allow him to have his original sketches on the ground that they had become part of the official records of the case, but furnished him with photostats of the circuits.

The above testimony related to a time long before this interference was declared, and there is no

evidence that in this proceeding Jones ever made a demand upon the Government or upon opposing counsel herein which was refused for the production of the originals or photostatic copies of any papers relating to Jones' application for a patent.

As we do not find any reversible error in the decision appealed from it is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,405,633, M. O. Smith, Fuel vaporizer for carburetors; 1,477,724, same, Vaporizer, appeal filed Mar. 19, 1943, C. C. A., 8th Cir., Doc. 12/569, *The Gasifier Mfg. Co.* v. *General Motors Corp.*

1,452,043, C. W. Harold, Inking mechanism; 1,930,429, G. A. Rutkoskie, Process of producing wax carbon spots on paper by impression on an ordinary printing press; Re. 18,931, same, Apparatus for producing wax carbon spots on paper by impression; 1,961,828, same, Process for producing wax carbon spots; 1,961,827, same, Rotary press for printing wax carbon spots on paper; 1,985,839, same, Sheet fed rotary press; 2,061,984, same, Apparatus for presses for producing wax carbon spots on paper; 2,086,191, same, Attachment for rotary web press for printing wax carbon spots on paper; Re. 19,642, Rutkoskie & Welk, Printing press for producing wax carbon spots on paper, D. C., S. D. N. Y., Doc. 8/103, *The McBee Co.* v. *Transkrit Corp.* Dismissed (notice Mar. 20, 1943).

1,477,724. (See 1,405,633.) 1,511,824. (See 1,773,079.)

1,536,627. (See 1,994,189.)

1,614,455. (See 1,773,079.)

1,675,599. (See Re. 17,279.)

1,738,420, E. E. Charlton, Method of preparing electric discharge devices; 2,185,832, same, Electric discharge device and method of manufacture; 1,790,153, A. W. Hull, Electrical discharge device and method of operation; 1,874,753, same, Controlled-arc discharge apparatus; 1,880,092, same, Electron discharge device; 2,054,030, Charlton & Whelan, Electric discharge device and method of manufacture, D. C. N. J., Doc. 1396, *General Electric Co.* v. *United Electronics Co.* Dismissed Mar. 8, 1943.

1,753,437, H. G. Lykken, Material reducing and means therefor; 1,756,254, same, Fluidizer and method of fluidizing; 1,760,245, same, Device for reducing and feeding reduced material; 1,768,621, same, Fluidizer; 1,793,705, same, Fuel device; 1,814,395, same, Material reducing and classifying device; 1,838,560, same, Reducing mill, D. C. N. J., Doc. 5476, *H. G. Lykken et al.* v. *International Pulverizing Corp. et al.* Judgment for defendants July 15, 1941.

1,756,254. (See 1,753,437.) 1,760,245. (See 1,753,437.)

1,768,091, G. N. Adair, Sugar dispenser; 2,072,760, C. L. Ludwig, Measuring and dispensing appliance, D. C., S. D. Calif., C. Div., Doc. 2524, *C. L. Ludwig et al.* v. *West Disinfecting Co.* Dismissed without prejudice Mar. 22, 1943.

1,768,621. (See 1,753,437.) 1,790,153. (See 1,738,420.)

1,773,079, 1,773,081, C. Birdseye, Refrigerating apparatus; 1,822,121, J. J. Barry, same; 1,823,123, Birdseye & Hall, same, D. C. Del., Doc. E1267, *Booth Fisheries Corp.* v. *General Foods Corp. et al.* Claims 10, 13, and 17 of 1,773,079 held valid and infringed, injunction granted, claims 1, 4, 5, 6, 14, 16, 18, and 26 of the same patent held invalid; claims 9, 11, 19, 20, 24, and 26 of 1,773,081 held invalid; claims 6 to 12 inclusive of 1,822,121 held invalid. Patents in counterclaim: claims 1, 3, 4, 7, 8, 14, 16, 17, 19, 20, 24, and 26 to 30 inclusive of 1,614,455 held invalid; claims 1 and 2 of 1,773,080 held invalid; claims 5, 6, 7, 10, 11, 13, 16, and 17 of 1,905,131 held invalid; 1,511,824 and 1,955,484 withdrawn and dismissed (notice Feb. 17, 1943).

1,773,080. (See 1,773,079.) 1,773,081. (See 1,773,079.)

1,790,603, M. A. Sisk, Surface drain; 2,216,300, R. H. Shenk, Interceptor, D. C., W. D. Pa., Doc. 30, *Josam Mfg. Co. et al.* v. *J. A. Zurn Mfg. Co.* Defendant restrained from infringing claims 14 and 15 of 1,790,603, and plaintiff restrained from infringing claim 2 of 2,216,300 (notice Mar. 15, 1943).

1,793,705. (See 1,753,437.)

1,794,537, R. C. Palmer, Process of treating decolorizing agents; 1,794,539, same, Process of revivifying absorbent material; 1,810,222, same, Process of purifying and decolorizing rosin; 1,807,599, R. C. Palmer et al., Process of purifying rosin, filed Apr. 2, 1943, D. C., S. D. Miss. (Biloxi), Doc. 129, *Newport Industries, Inc.*, v. *Crosby Naval Stores, Inc., et al.*

1,794,539. (See 1,794,537.) 1,807,599. (See 1,794,537.)

1,810,222. (See 1,794,537.) 1,814,395. (See 1,753,437.)

1,822,121. (See 1,773,079.) 1,823,123. (See 1,773,079.)

1,838,560. (See 1,753,437.) 1,874,753. (See 1,738,420.)

1,880,092. (See 1,738,420.)

1,894,367, L. L. Corcoran, Automatic control device; 1,972,815, R. E. Anneren, same, D. C. Del., Doc. 173, *U. S. Gauge Co.* v. *Desco Corp.* Stipulation of counsel dismissing action (notice Mar. 31, 1943).

1,905,131. (See 1,773,079.) 1,930,429. (See 1,452,043.)

1,955,484. (See 1,773,079.) 1,961,827. (See 1,452,043.)

1,961,828. (See 1,452,043.) 1,985,839. (See 1,452,043.)

1,972,815. (See 1,894,367.)

1,994,189, F. L. Brown, Life preserver jacket; 1,536,627, T. I. Potter, Life preserver, D. C., S. D. N. Y., Doc. 15/106, *The American Pad & Textile Co.* v. *Cluff Fabric Products, Inc.* Judgment (notice Apr. 7, 1943).

1,997,351, 2,047,911, O. N. Tevander, Bottle capping machine; 2,097,076, J. H. Nelson, Hood cap applying machine, D. C. N. J., Doc. 2680, *Package Machinery Co.* v. *Standard Cap & Seal Corp.* Dismissed Mar. 24, 1943.

2,047,911. (See 1,997,351.) 2,054,030. (See 1,738,420.)

2,055,734. (See 2,267,764.) 2,061,984. (See 1,452,043.)

2,063,062. (See 2,267,764.) 2,086,191. (See 1,452,043.)

2,066,346, W. Greig, Manifold record supply packet; 2,120,161, H. Stevens, Unitary manifolding assembly, D. C., S. D. N. Y., Doc. 19/336, *American Sales Book Co., Inc.*, v. *Alfred Allen Watts Co., Inc.* Consent judgment (notice Apr. 8, 1943).

2,072,760. (See 1,768,091.)

2,095,411, Everest & Jennings, Folding wheel chair; 2,181,420, same, Folding propulsion wheel chair, D. C., N. D. Ill., E. Div., Doc. 4045, *H. A. Everest et al.* v. *Roosevelt Chair & Supply Co.* Patents held valid and infringed, injunction Feb. 1, 1943.

2,097,076. (See 1,997,351.)

2,119,486, B. F. Muldoon, Flash light; Des. 108,922, same, Flashlight casing, D. C. N. J., Doc. 5925, *H. Hyman et al.* v. *Bright Star Battery Co.* Dismissed Mar. 8, 1943.

2,120,161. (See 2,066,346.) 2,181,420. (See 2,095,411.)

2,152,093, W. Rubinstein, Collar; 2,204,152, same, Collar, cuff, and the like, appeal filed Mar. 6, 1943, C. C. A., 8th Cir., Doc. 12555, *E. Greensfelder* v. *The Goodall Co.*

2,156,073. (See Re. 21,117.)

2,185,832. (See 1,738,420.)

2,187,528, R. T. Wing, Fountain pen; 2,223,541, M. S. Baker, same; Des. 116,097, Des. 116,098, Parker & Baker, same, D. C., N. D. Ill., E. Div., Doc. 4069, *The Parker Pen Co. et al.* v. *W. A. Sheaffer Pen Co.* Dismissed with prejudice Mar. 12, 1943.

2,201,068, G. Wintritz, Manufacture of slide fasteners; 2,221,740, F. Ulrich, same, filed Mar. 6, 1943, D. C. N. J., Doc. 2778, *L. Staff* v. *Conmar Products Corp.*

2,202,712. (See 2,202,713.)

2,202,713, 2,202,712, 2,300,305, S. Myerson, Artificial tooth; 2,230,164, same, Method of making artificial teeth, filed Dec. 18, 1941, D. C., S. D. N. Y., Doc. 17/16, *Simon Myerson et al.* v. *Dentists' Supply Co. of New York.*

2,204,152. (See 2,152,093.) 2,216,300. (See 1,790,603.)

2,220,675, F. Boehm, Rotameter; 2,230,973, A. K. Fischer, same, D. C., E. D. Pa., Doc. 1649, *Schutte & Koerting Co.* v. *Fischer & Porter Co.* Judgment finding patents invalid Apr. 1, 1943.

2,221,740. (See 2,201,068.) 2,223,541. (See 2,187,528.)

2,230,164. (See 2,202,713.) 2,230,973. (See 2,220,675.)

2,244,868 (*a*), E. W. Dunbar, Manufacture of shoes; Re. 21,267, C. A. Thurston, Method of shaping heel parts to shoe uppers, D. C. Mass., Doc. 1840, *Cambridge Rubber Co. et al.* v. *The Superior Fibre Counter Co.* Patent held valid and infringed Mar. 5, 1943.

2,244,868 (*b*), E. W. Dunbar, Manufacture of shoes; 2,245,235, C. A. Thurston, Method of making shoe parts, D. C. Mass., Doc. 1841, *Cambridge Rubber Co. et al.* v. *The Strager Counter Co., Inc.* Patent held valid and infringed Mar. 5, 1943.

2,245,235. (See 2,244,868 (*b*).)

2,267,764, C. H. Taylor, suction cleaner; 2,055,734, 2,063,062, C. H. Sparklin, same, filed Mar. 23, 1943, D. C., E. D. Ill. (Danville), Doc. 331–D, *The Hoover Co. et al* v. *Westinghouse Electric & Mfg. Co. et al.*

2,300,305. (See 2,202,713.)

Re. 17,278. (See Re. 17,279.)

Re. 17,279 (of Re. 17,278 and 1,675,599), L. G. Copeman, Sharp freezing container for mechanical refrigerators, filed Mar. 4, 1943, D. C., N. D. Ill., E. Div., Doc. 43C246, *Copeman Laboratories Co.* v. *General Plastics Corp. et al.*

Re. 18,931. (See 1,452,043.)

Re. 19,642. (See 1,452,043.)

Re. 21,117, A. R. Visitacion, Hair curler; 2,156,073, Wallace & Leisy, Hair curling device, appeal filed Mar. 15, 1943, C. C. A., 2d Cir., Doc. —, *Hollywood Comb Curler, Inc.*, v. *The Glemby Co., Inc. et al.*

Re. 21,267. (See 2,244,868 (*a*).)

Des. 105,071, T. L. Hand, Fruit juice extractor; Des. 105,335, J. M. Majewski, Jr., Fruit press, D. C., W. D. Mo. (Kansas City), Doc. 937, *Rival Mfg. Co.* v. *Sears, Roebuck & Co.* Patents held valid and infringed, injunction Mar. 16, 1943.

Des. 105,335. (See Des. 105,071.)

Des. 108,922. (See 2,119,486.)

Des. 116,097. (See 2,187,528.)

Des. 116,098. (See 2,187,528.)

T. M. 94,714, Cointreau Pere et Fils, Liqueur; T. M. 328,869, Societe A Responsabilite Limitee Cointreau, Cordials and liqueurs, D. C., N. D. Ill., E. Div., Doc. 678, *Societe A Responsabilite Limitee Cointreau* v. *D. J. Bielzoff Products Co. et al.* Judgment favor plaintiff, enjoining defendant Mar. 2, 1943.

T. M. 328,869. (See T. M. 94,714.)

Trade-Mark Registrations Canceled

211,145. Heat insulating containers or receptacles. John E. O'Brien, Brooklyn, N. Y. Registered April 6, 1926. Canceled March 30, 1943.

254,746. Piston pins. The Defiance Screw Machine Products Company, Defiance, Ohio. Registered March 26, 1929. Canceled April 8, 1943.

379,962. Light-colored coated artificial board. Wood Conversion Company, Cloquet, Minn. Registered July 30, 1940. Canceled March 30, 1943.

383,200. Lipsticks and Lip Rouge. Ever-Dry Corporation, Los Angeles, Calif. Registered November 26, 1940. Canceled April 8, 1943.

388,117. Tooth paste and tooth powder. Milton Brown, New York, N. Y. Registered June 10, 1941. Canceled March 30, 1943.

390,885. A hairdressing. Petges, Inc., New York, N. Y. Registered October 7, 1941. Canceled April 8, 1943.

393,258. Smoked cheese. Pine Island Smoked Cheese Company, Pine Island, Minn. Registered January 27, 1942. Canceled March 30, 1943.

394,209. Mixed cotton and rayon piece goods, wool and rayon piece goods, etc. Mooresville Cotton Mills, Mooresville, N. C. Registered March 24, 1942. Canceled March 30, 1943.

Interference Notices

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

The Circus Sally Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered March 3, 1925, No. 195,692, to The Circus Sally Company, 227 W. Austin Ave., Chicago, Ill., and the notice of such proceeding sent by registered mail to said The Circus Sally Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Circus Sally Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

Unicy Marshmallow Co., Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered Oct. 22, 1929, No. 262,792, to Unicy Marshmallow Co., Inc., 404 Platt St., Rochester, N. Y., and the notice of such proceeding sent by registered mail to said Unicy Marshmallow Co., Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Unicy Marshmallow Co., Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

William B. Fundis, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered Sept. 15, 1931, No. 287,072, to William B. Fundis, 837 W. North Ave., Pittsburgh, Pa., and the notice of such proceeding sent by registered mail to said William B. Fundis at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said William B. Fundis, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

Jamestown Brewing Company, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Fox Head Waukesha Corporation, Waukesha, Wis., to effect the cancellation of trade-mark registration of Jamestown Brewing Company, Jamestown, N. Y., No. 305,465, dated August 15, 1933, and the notice of such proceeding sent by registered mail to the said Jamestown Brewing Company at the said address having been returned by the post office with the notation "Out of Business" endorsed thereon, notice is hereby given that unless said Jamestown Brewing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 22, 1943.*

James Hatsuto Yamada, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by James L. Younghusband, 30 West Hubbard Street, Chicago, Ill., to effect the cancellation of trade-mark registration of James Hatsuto Yamada, 1736 Divisadero Street, San Francisco, Calif., No. 277,432, dated Nov. 11, 1930, and communications addressed to said James Hatsuto Yamada at the above address and 1690 Post Street, San Francisco, Calif., having been returned by the post office as undeliverable, notice is hereby given that unless said James Hatsuto Yamada, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 11, 1943

[VOL. 550. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 458,312. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Feb. 3, 1943.

MAZEIN

Applicant is the owner of Reg. No. 323,143, Apr. 2, 1935.

FOR EXTRACT FROM CORN GLUTEN FOR THE MANUFACTURE OF PLASTICS, ADHESIVES, AND VARNISHES IN THE NATURE OF RAW OR PARTLY PREPARED MATERIALS.

Claims use since May 13, 1942.

Ser. No. 458,986. LOCKPORT COTTON BATTING CO., Lockport, N. Y. Filed Mar. 9, 1943.

REX

FOR WOOL AND COTTON BATTS OR BATTING.

Claims use since May 29, 1940.

Ser. No. 458,987. LOCKPORT COTTON BATTING CO., Lockport, N. Y. Filed Mar. 9, 1943.

SUNRISE

FOR WOOL AND COTTON BATTS OR BATTING.

Claims use since Oct. 3, 1940.

CLASS 2

RECEPTACLES

Ser. No. 455,659. LAWRENCE A. LOCKWOOD, doing business as Lockwood Products, Chicago, Ill. Filed Sept. 21, 1942.

THER-MO-PACK

No claim is made to the word "Pack" alone.

FOR INSULATED CONTAINERS ADAPTED TO HOLD A QUART FRUIT JAR AND TO RETAIN THE CONTENTS OF SAID JAR HOT OR COLD FOR AN EXTENDED PERIOD.

Claims use since July 1, 1936.

Ser. No. 457,688. S & F COMPANY, Hartford, Conn. Filed Dec. 31, 1942.

CLO-PIN-TAINER

The word "Pin" is disclaimed apart from the mark.

FOR CLOTHESPIN BAGS MADE OF CLOTH AND WIRE.

Claims use since Apr. 15, 1940.

Ser. No. 458,529. THE COOLERATOR COMPANY, Duluth, Minn. Filed Feb. 15, 1943.

Coolerator

FOR METALLIC TOOL CHESTS AND BOXES, TOTE BOXES, STACK BINS, STOCK AND PARTS RACKS, AND WASTE BASKETS.

Claims use since Mar. 19, 1941.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 454,353. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed July 20, 1942.

WEST-CRAFT

The word "West" is disclaimed except as herein used with the word "Craft."

FOR SUIT CASES, OVERNIGHT CASES, VANITY CASES, PULLMAN CASES, HAT CASES, SHOE CASES, COMBINATION HAT AND SHOE CASES, SINGLE AND MULTIPLE WARDROBES, AND GLADSTONE BAGS.

Claims use since July 8, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 459,069. CANTOL WAX COMPANY, Bloomington, Ind. Filed Mar. 13, 1943.

PULL-CHAMP

FOR BELT DRESSING, BELT PRESERVATIVE, AND BELT TREATMENT COMPOSITION IN LIQUID AND SOLID FORM.
Claims use since Feb. 23, 1943.

CLASS 5

ADHESIVES

Ser. No. 458,236. DRITZ-TRAUM COMPANY, INC., New York, N. Y. Filed Jan. 30, 1943.

IRONTEX

FOR COATED FABRIC SWATCHES AND TAPE RENDERED ADHESIVE BY HEAT AND USED FOR MENDING PURPOSES.
Claims use since Jan. 19, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 451,655. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 16, 1942.

HEMABIN

FOR VITAMIN CAPSULES.
Claims use since Jan. 1, 1942.

Ser. No. 457,675. CHATHAM PHARMACEUTICALS, INC., Newark, N. J. Filed Dec. 31, 1942.

ALUMINOID
COLLOIDAL ALUMINA

No claim is made to the words "Colloidal Alumina" apart from the mark.
FOR COLLOIDAL ALUMINUM HYDROXIDE IN POWDER FORM SUPPLIED IN GELATIN CAPSULES FOR ORAL ADMINISTRATION IN THE TREATMENT OF GASTRIC ULCERS AND HYPERACIDITY.
Claims use since May 14, 1940.

Ser. No. 458,609. EMERGENCY PRODUCTS, LIMITED, London, England. Filed Feb. 18, 1943.

KIN

FOR CHEMICAL COMBINATION IN TABLET FORM FOR USE AS A FUEL.
Claims use since Nov. 25, 1942.

Ser. No. 458,747. VITAMIN CORPORATION OF AMERICA, Newark, N. J. Filed Feb. 24, 1943.

VCA

FOR VITAMIN PREPARATIONS, CAPSULES AND TABLETS, AND VITAMIN CONCENTRATES AND THE LIKE USED IN THE TREATMENT OF VITAMIN DEFICIENCIES.
Claims use since June 10, 1942.

Ser. No. 458,830. AMERICAN POTASH & CHEMICAL CORPORATION, New York, N. Y. Filed Mar. 1, 1943.

AGRIBOR

FOR BORAX USED IN FERTILIZER AND WEED CONTROL PREPARATIONS.
Claims use since Aug. 28, 1942.

Ser. No. 458,916. PETER R. FRIEDLAND, doing business as The Peter R. Friedland Co., New York, N. Y. Filed Mar. 5, 1943.

PETER'S RE-FIL

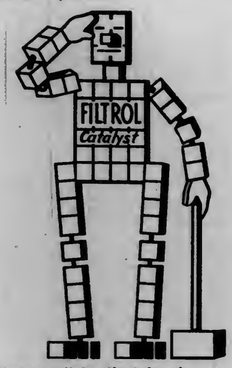
The word "Re-Fil" is disclaimed apart from the mark.
FOR LIPSTICKS.
Claims use since Jan. 21, 1943.

Ser. No. 458,924. E. R. SQUIBB & SONS, New York, N. Y. Filed Mar. 5, 1943.

DISPADAL

FOR VITAMINIC PREPARATIONS.
Claims use since Feb. 23, 1943.

Ser. No. 458,936. FILTROL CORPORATION, Los Angeles, Calif. Filed Mar. 6, 1943.



The word "Catalyst" is disclaimed.
FOR CHEMICALLY-TREATED MONTMORILLONITE CLAY, ADAPTED FOR USE AS AN ADSORBENT AND AS A CATALYST.
Claims use since Feb. 7, 1943.

Ser. No. 458,997. WILLIAM T. BRENNAN, doing business as The Miner's Medicine Company, Beckley, W. Va., and Columbus, Ohio. Filed Mar. 10, 1943.

THE MINER'S FRIEND



The photograph is that of the applicant.
FOR LIQUID HERB LAXATIVE.
Claims use since Oct. 10, 1941.

Ser. No. 459,090. EDNA SHRIEVES, doing busines as Osyth Laboratories, New York, N. Y. Filed Mar. 13, 1943.

OSYTH

FOR SALVE FOR TREATING PIMPLES AND OTHER IRRITATIONS.
Claims use since Feb. 8, 1943.

Ser. No. 459,193. CUNNINGHAM CHEMICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 18, 1943.

SPARGO

FOR FIRE-EXTINGUISHING COMPOUND.
Claims use since November, 1942.

Ser. No. 459,197. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo. Filed Mar. 18, 1943.

BO-MONT

FOR VITAMIN CAPSULES.
Claims use since Feb. 26, 1943.

Ser. No. 459,226. THE MOTHTONE COMPANY, Needham, Mass. Filed Mar. 19, 1943.

Mothcium

FOR MOTH-PROOFING MATERIALS TO BE USED IN PAINTS AND OTHER COATING COMPOSITIONS.
Claims use since Mar. 13, 1943.

Ser. No. 459,243. HYMAN KARNO, doing business as Altone Chemical Co., New Orleans, La. Filed Mar. 20, 1943.

CHERALTO

FOR COUGH SYRUP.
Claims use since 1902.

Ser. No. 459,275. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed Mar. 22, 1943.

ORAMINE

FOR NUTRITIVE SUBSTANCE COMPOSED LARGELY OF AMINO ACIDS, A PROTEIN SUBSTITUTE.
Claims use since Mar. 13, 1943.

Ser. No. 459,277. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed Mar. 22, 1943.

PARENAMINE

FOR NUTRITIVE SUBSTANCE COMPOSED LARGELY OF AMINO ACIDS, A PROTEIN SUBSTITUTE.
Claims use since Mar. 13, 1943.

CLASS 7

CORDAGE

Ser. No. 456,238. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio. Filed Oct. 16, 1942.

DAYTEX

FOR TREATED TEXTILE CORD.
Claims use since Jan. 20, 1940.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 440,452. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Feb. 8, 1941.

DEVEL-O-RITE

FOR DEVELOPING INK THAT IS APPLIED TO AN EXPOSED PHOTOGRAPHIC PLATE TO MAKE THE IMAGE VISIBLE TO THE EYE AND TO CREATE A GREASY BASE ON THE IMAGE PORTION OF THE PLATE TO WHICH THE LITHOGRAPHIC INK WILL ADHERE.
Claims use since Nov. 30, 1940.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 442,377. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Apr. 7, 1941.

FORTIFIED

FOR ASPHALT ROOFING SHINGLES.
Claims use since June, 1939.

Ser. No. 458,824. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 27, 1943.

BLENDTEX

FOR INSULATION BOARD.
Claims use since January, 1937.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 439,741. THE AEROQUIP CORPORATION, Jackson, Mich. Filed Jan. 17, 1941.



FOR HOSE FITTINGS AND PIPE COUPLINGS FOR FLUIDS.
Claims use since Sept. 21, 1940.

Ser. No. 454,795. THE BILLINGS & SPENCER COMPANY, Hartford, Conn. Filed Aug. 8, 1942.



FOR CHAINS AND HOIST HOOKS.
Claims use since Aug. 31, 1870.

Ser. No. 458,383. THE BAHNSON COMPANY, Winston-Salem, N. C. Filed Feb. 8, 1943.

Economizer

FOR ATOMIZERS FOR INDUSTRIAL USE.
Claims use since Feb. 1, 1943.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 456,463. CURTISS-WRIGHT CORPORATION, New York and Buffalo, N. Y., Columbus, Ohio, and St. Louis, Mo. Filed Oct. 27, 1942.



The drawing is lined to indicate the colors yellow, blue, and brown.
FOR AIRPLANES, AND STRUCTURAL PARTS THEREOF.
Claims use since August, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 458,845. RALPH VICTOR MORAN, doing business as Vic Moran, Bradford, Pa. Filed Mar. 1, 1943.

Bubble Bank

No claim is made to the word "Bank" apart from the mark.
FOR TOY COIN BANKS.
Claims use since Aug. 27, 1940.

Ser. No. 458,846. RALPH VICTOR MORAN, doing business as Vic Moran, Bradford, Pa. Filed Mar. 1, 1943.
No claim is made to the word "Change" apart from the mark.

CHANGE
FOR THE NEW BABY

FOR TOY COIN BANKS.
Claims use since Oct. 2, 1942.

Ser. No. 459,248. THE VEEP COMPANY, INC., Hanover, N. H. Filed Mar. 20, 1943.

DU-RATION

FOR BOARD GAMES.
Claims use since Feb. 27, 1943.

Ser. No. 459,260. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y. Filed Mar. 22, 1943. Under 10-year proviso.

DURKEE

The drawing is lined for red.
FOR SHARK HOOKS, EEL SPEARS, HARPOONS, DART SHANTS, SWORD FISH GAFFS, NET HOOPS, DIP NET BOWS, TRAWL ROLLERS, NET LEADS, AND LEAD SINKERS.
Claims use since 1870.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 458,633. MACALASTER BICKNELL COMPANY, Cambridge, Mass. Filed Feb. 19, 1943.

M B Co

FOR LABORATORY, EXPERIMENTAL, HOSPITAL, CLINICAL, CHEMICAL, AND SCIENTIFIC GLASSWARE.
Claims use since Dec. 14, 1942.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 458,535. GEM PRODUCTS, INC., Milwaukee, Wis. Filed Feb. 15, 1943.

SPRUSUP

FOR MOPS AND DUSTERS.
Claims use since Dec. 31, 1942.

Ser. No. 459,007. HYGIENOL COMPANY, INC., New Rochelle, N. Y. Filed Mar. 10, 1943.

Duchess

FOR POWDER PUFFS.
Claims use since 1924.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 445,835. BURTON-DIXIE CORPORATION, Chicago, Ill. Filed Aug. 1, 1941.

insulatex

FOR STUFFING AND PADDING USED IN MATTRESSES, BOX-SPRINGS, COUCHES, AND CUSHIONS.
Claims use since Jan. 24, 1940.

Ser. No. 457,421. THE PACIFIC LUMBER COMPANY, San Francisco, Calif. Filed Dec. 15, 1942.

Palconia

FOR MATTRESSES, PILLOWS, AND UPHOLSTERY PADDING.
Claims use since Dec. 4, 1942.

CLASS 33

GLASSWARE

Ser. No. 458,143. ANCO CORPORATION, Pittsburgh, Pa. Filed Jan. 25, 1943.

HOM-PAK

The word "Pak" is disclaimed apart from the mark.
FOR GLASS FRUIT JARS.
Claims use since June 25, 1942.

Ser. No. 458,740. PITMAN-DREITZER AND CO., INC., New York, N. Y. Filed Feb. 24, 1943.

COLONY
CRYSTAL

Applicant disclaims the word "Crystal" apart from the mark.
FOR GLASS TABLEWARE.
Claims use since Dec. 27, 1939.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 458,085. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Jan. 21, 1943.

MULTI-FLEX

FOR DUCT HOSE COMPRISING A FABRIC BASE TREATED WITH A SEALING MATERIAL USED BY AIRCRAFT ENGINEERS AS BOOTS TO PROTECT RECIPROCATING RODS FROM DIRT AND GRIT AND SEALS FOR CONTROL RODS, AS CHUTES FOR EJECTED MACHINE GUN SHELLS, ETC.
Claims use since Oct. 13, 1942.

Ser. No. 459,299. CHARLES A. CORNELL, doing business as The Technical Rubber Company, Johnstown, Ohio. Filed Mar. 24, 1943.

TECH FLEX

FOR TIRE PATCHES.
Claims use since June 6, 1937.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 442,470. THE WILCOX-GAY CORPORATION, Charlotte, Mich. Filed Apr. 10, 1941.

RECORDO

FOR PHONOGRAPHS FOR REPRODUCING VOICE, MUSIC, AND SOUND GENERALLY; PHONOGRAPHIC RECORDING INSTRUMENTS FOR RECORDING VOICE, MUSIC, AND SOUND GENERALLY ON PHONOGRAPH RECORD BLANKS; AND PHONOGRAPH RECORD BLANKS.
Claims use since Mar. 18, 1941.

CLASS 37

PAPER AND STATIONERY

Ser. No. 452,029. SPRINGFIELD COATED PAPER CORPORATION, Camden, N. J. Filed Mar. 30, 1942.
The word "Leatherette" is disclaimed.

CHAMELEON LEATHERETTE

FOR BOOK COVER PAPER, SAMPLE CARD PAPER, DESK PAD COVER PAPER, DISPLAY CARD PAPER, PHOTOGRAPHIC MOUNT PAPER, PENCIL BOX COVER PAPER, FILE BOX COVER PAPER, GREETING CARD PAPER, AND LAMP SHADE PAPER.
Claims use since Mar. 13, 1941.

Ser. No. 455,945. THE ALLING & CORY COMPANY, Rochester, N. Y. Filed Oct. 3, 1942. Under 10-year proviso.
Applicant is the owner of Reg. No. 152,335, effected under the 10-year proviso.

STANDARD LEDGER

FOR LEDGER PAPER.
Claims use since Jan. 1, 1890.

Ser. No. 458,501. UNITED AUTOGRAPHIC REGISTER CO., Chicago, Ill. Filed Feb. 12, 1943.



The word "Pack" is disclaimed apart from the mark.
FOR STRIPS OF ZIGZAG FOLDED PRINTED CONTINUOUS BLANK FORMS—NAMELY, INVOICE FORMS, PURCHASE ORDER FORMS, FACTORY ORDER FORMS, CUSTOMER'S ORDER FORMS, SHIPPING ORDER FORMS, BILLS OF LADING, EXPRESS RECEIPT FORMS, BLANK COLLECTION FORMS, ACKNOWLEDGMENT FORMS, INTER-OFFICE CORRESPONDENCE FORMS, AND MEMORANDA.
Claims use since Feb. 1, 1941.

Ser. No. 458,689. MARATHON PAPER MILLS COMPANY, Menasha, Wis. Filed Feb. 22, 1943.

TRAYTEX

FOR PAPER FOR INTERLEAVING OR LINING TRAYS.
Claims use since May 27, 1941.

Ser. No. 458,761. PRUDENTIAL PAPER PRODUCTS COMPANY, New York, N. Y. Filed Feb. 25, 1943.

Sky-Bound

FOR STATIONERY—NAMELY, WRITING PAPER AND ENVELOPES.
Claims use since Oct. 1, 1942.

Ser. No. 458,954. UNION BAG & PAPER CORPORATION, New York, N. Y. Filed Mar. 6, 1943.



FOR WRAPPING PAPER.
Claims use since Jan. 12, 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 448,435. MUSIC YOU ENJOY, INC., New York, N. Y. Filed Nov. 6, 1941.

Listen-Look

FOR SERIES OF CHILDREN'S BOOKS ADAPTED FOR USE WITH PHONOGRAPH RECORDS.
Claims use since Sept. 26, 1941.

Ser. No. 456,250. LOUIS H. SILBERKLEIT, New York, N. Y. Filed Oct. 16, 1942.

AIR-AGE

FOR BI-MONTHLY PUBLICATION RELATING TO AVIATION, OF A PICTORIAL AND SEMI-TECHNICAL NATURE.
Claims use since Oct. 1, 1942.

Ser. No. 456,333. BOTANY WORSTED MILLS, Passaic, N. J. Filed Oct. 22, 1942.

THE BOTANY MODEL OF THE MONTH CLUB

Applicant disclaims the words "Model of the Month" apart from the mark.
FOR PUBLICATION PUBLISHED PERIODICALLY.
Claims use since September, 1942.

Ser. No. 458,355. HOWARD R. GARIS, East Orange, N. J. Filed Feb. 5, 1943.



UNCLE WIGGILY

FOR PRINTED AND ILLUSTRATED BOOKS FOR CHILDREN.
Claims use since Mar. 1, 1920.

Ser. No. 459,050. THE NATIONAL TOOL COMPANY, Cleveland, Ohio. Filed Mar. 12, 1943.

Blueprints OF THE FUTURE

FOR MONTHLY MAGAZINE.
Claims use since Jan. 19, 1943.

CLASS 39

CLOTHING

Ser. No. 451,631. SCHOLNICK SHOE CORP., Jamaica Plain, Boston, Mass. Filed Mar. 14, 1942.



The name "George Benton" and the words "A Shoe" are disclaimed apart from the mark.
FOR SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF.
Claims use since Feb. 2, 1942.

Ser. No. 452,112. TRIMFOOT COMPANY, St. Louis, Mo. Filed Apr. 2, 1942.



The words "Back" and "Heel Construction" are disclaimed apart from the mark.
FOR INFANTS' AND CHILDREN'S HIGH SHOES MADE OF LEATHER AND FABRIC AND COMBINATIONS OF THE SAME.
Claims use since Jan. 10, 1941.

Ser. No. 455,514. CIRO MEROLA & COMPANY, Bayonne, N. J. Filed Sept. 14, 1942.

MEREST

FOR COATS FOR MEN AND BOYS ESPECIALLY COATS WITH ADJUSTABLE COLLARS.
Claims use since June 18, 1941.

Ser. No. 455,996. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed Oct. 6, 1942.

Linden

FOR GIRLS' COATS.
Claims use since Sept. 14, 1942.

Ser. No. 455,997. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed Oct. 6, 1942.

Scottwood

FOR WOMEN'S BLOUSES.
Claims use since Sept. 1, 1942.

Ser. No. 457,504. THE MUNICIPAL SHOE CO., INC., Brooklyn, N. Y. Filed Dec. 18, 1942.



The drawing is lined for red and yellow.
FOR BOYS' AND GIRLS' LEATHER AND FABRIC SHOES.
Claims use since Oct. 28, 1942.

Ser. No. 457,848. DAVEGA-CITY RADIO, INC., New York, N. Y. Filed Jan. 11, 1943.

Leedall

FOR MEN'S AND BOYS' PAJAMAS, UNDERWEAR, NECKTIES, NEGLIGEE SHIRTS, AND SPORT SHIRTS, AND SHOES OF LEATHER, FABRIC, AND RUBBER AND COMBINATIONS THEREOF.
Claims use since Nov. 3, 1942.

Ser. No. 458,014. JORDAN MARSH COMPANY, Boston, Mass. Filed Jan. 19, 1943.

SAF-T-CHARMER

No claim is made to the notation "Saf-T" except in association with the other features of the mark.
FOR WOMAN'S HAT OR CAP.
Claims use since Dec. 4, 1942.

Ser. No. 458,461. HOWARDS FIFTH AVE., INC., New York, N. Y. Filed Feb. 10, 1943.

THE Defense Dickey BY HOWARD OF FIFTH AVENUE

Exclusive use of the words "Dickey," "By" and "Of Fifth Avenue" are disclaimed.
FOR WOMEN'S COLLARS, VESTEES, DICKEYS, AND SCARVES.
Claims use since September, 1942.

Ser. No. 458,479. SIMON POLLOCK, doing business as American Lingerie Co., New York, N. Y. Filed Feb. 11, 1943.

Straight-Flush

The word "Straight" is disclaimed apart from the mark.
FOR WOMEN'S UNDERGARMENTS—NAMELY, SLIPS.
Claims use since Dec. 30, 1942.

Ser. No. 458,820. STELZER BROTHERS, INC., New York, N. Y. Filed Feb. 27, 1943.

FOREVER IN MY ARMS

FOR WOMEN'S BELTS IN THE NATURE OF GARMENT ACCESSORIES.
Claims use since Feb. 18, 1943.

Ser. No. 458,881. NORMANDIE COAT CORP., New York, N. Y. Filed Mar. 3, 1943.



The picture is fanciful. The word "Junior" is disclaimed apart from the mark.
FOR MISSES' AND JUNIOR MISSES' COATS, SUITS, COAT AND SUIT ENSEMBLES, JACKETS AND SKIRTS.
Claims use since Nov. 24, 1931.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 452,620. A. M. PERLMAN, INC., New York, N. Y. Filed Apr. 27, 1942.



The phrase "Prints of" and the two maps are disclaimed except as shown.
FOR TEXTILE FABRICS IN THE PIECE OF RAYON, SILK, COTTON, AND COMBINATIONS THEREOF.
Claims use since January, 1942.

Ser. No. 455,120. HOLLAND COTTON PRODUCTS COMPANY, Holland, Mich. Filed Aug. 26, 1942.



FOR MATTRESS PADS, MATTRESS PROTECTORS, QUILTS, TABLE PADS, AND FURNITURE PADS.
Claims use since Jan. 1, 1942.

Ser. No. 455,203. CANTOR GREENSPAN CO., INC., New York, N. Y. Filed Aug. 31, 1942.

WHIPSHIRE

FOR RAYON PIECE GOODS.
Claims use since Apr. 14, 1941.

Ser. No. 456,477. STERN & STERN TEXTILE IMPORTERS INC., New York, N. Y. Filed Oct. 27, 1942.

UGAYSHEER

FOR PIECE GOODS OF SHEER RAYON AND RAYON.
Claims use since Sept. 1, 1942.

Ser. No. 457,721. CONTINENTAL LITHOGRAPH CORPORATION, Cleveland, Ohio. Filed Jan. 2, 1943.

Conti-Glo

No claim is made to the word "Conti" except as shown.
FOR PIECE GOODS OF SILK, RAYON, AND COTTON, SOLD AS YARDAGE, OR IN THE FORM OF FLAT, SHAPED PIECES FOR DECORATIVE AND INDUSTRIAL PURPOSES.
Claims use since Sept. 5, 1940.

Ser. No. 457,995. ROSENSTEIN BROTHERS, Paterson, N. J. Filed Jan. 18, 1943.

Satwill

FOR PIECE GOODS OF RAYON AND COTTON AND MIXTURES THEREOF.
Claims use since Sept. 1, 1942.

Ser. No. 458,605. I. A. WYNER & CO. INC., New York, N. Y. Filed Feb. 17, 1943.

CORDUSUEDE

FOR PIECE GOODS MADE OF COTTON, RAYON, WOOL, MOHAIR, ALPACA AND COMBINATIONS THEREOF, AND PILE FABRICS.
Claims use since Feb. 2, 1942.

Ser. No. 458,649. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Feb. 20, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

TECODA

FOR RAYON PIECE GOODS.
Claims use since Feb. 11, 1943.

Ser. No. 458,931. COHN-HALL-MARX CO., New York, N. Y. Filed Mar. 6, 1943.

RAIN-WARDEN

FOR COTTON, RAYON, AND/OR SILK PIECE GOODS OR COMBINATIONS THEREOF.
Claims use since Feb. 5, 1943.

CLASS 43

THREAD AND YARN

Ser. No. 457,826. DURENE ASSOCIATION OF AMERICA, New York, N. Y. Filed Jan. 9, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

DURENE

FOR YARNS.
Claims use since June 1, 1929.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 458,166. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Jan. 25, 1943.



FOR SUSPENSORIES.
Claims use since 1930.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 453,568. PALMERTON COCA-COLA BOTTLING CO., Palmerton, Pa. Filed June 9, 1942.



FOR NON-ALCOHOLIC MALTLESS BEVERAGES.
Claims use since May 20, 1942.

Ser. No. 457,441. KOGAR PRODUCTS CO., INC., New York, N. Y. Filed Dec. 16, 1942.

KONGA

FOR CONCENTRATES, SYRUPS, FLAVORS, COMPOUNDS, AND EXTRACTS FOR USE IN THE MANUFACTURE OF NON-ALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS.
Claims use since January, 1938.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 451,328. U. S. SLICING MACHINE COMPANY, La Porte, Ind. Filed Feb. 28, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

DELICATED

FOR CUT FRESH MEATS, STEAKS, AND SMALL IRREGULAR CUTS OF MEATS.
Claims use since May, 1940.

Ser. No. 453,149. AMERICAN LECITHIN COMPANY, Cleveland, Ohio. Filed May 21, 1942.

LEXOL

The applicant is the owner of trade-mark registration No. 393,954.
FOR LECITHIN PRODUCTS CONSISTING ESSENTIALLY OF THE PHOSPHATIDE WITH AN EDIBLE CARRIER OF OTHER MATERIALS SUCH AS SUGAR, MILK POWDER, ETC., FOR USE IN ICE CREAM MIXES, AND OTHER FROZEN CONFECTIONS.
Claims use since Dec. 12, 1941.

Ser. No. 457,291. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Dec. 8, 1942.

V·A·N

FOR NUTRITIVE FOOD SUPPLEMENT USED AS A SUPPLEMENT FOR OR EXTENDER OF EGG YOLKS AND COMPRISING VEGETABLE PROTEINS AND ARTIFICIALLY MODIFIED FATS.
Claims use since Nov. 25, 1942.

Ser. No. 458,247. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Jan. 30, 1943.

RY-BLEN-DO

The expression "Ry-Blen" is disclaimed apart from the mark.
FOR RYE FLOUR AND WHEAT FLOUR MIXTURE.
Claims use since Dec. 14, 1942.

Ser. No. 458,299. GEORGE ZANINOVICH, doing business as Zaninovich Bros., Dinuba, Calif. Filed Feb. 1, 1943.



No claim is made to the representation of the fruit, to the wording other than "Circle," or to the representation of the label apart from the mark.
FOR FRESH CITRUS FRUITS.
Claims use since Nov. 26, 1941; and since July 23, 1941, on "Orange Circle."

Ser. No. 459,035. GEORGE G. YOUNG, doing business as Midland Laboratories, Kansas City, Mo. Filed Mar. 11, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

OV-AL-LOY

FOR EGG EMULSIFIER CONSISTING OF CEREALS, SKIM MILK SOLIDS, LECITHIN, POWDERED EGG YOLKS, VEGETABLE OIL, MINERAL AND ORGANIC SALTS AND DEXTROSE.
Claims use since May 1, 1941.

Ser. No. 459,160. W. B. CARTWRIGHT, LIMITED, Rawdon, near Leeds, England. Filed Mar. 17, 1943.

MOORLAND

FOR COMPRESSED TABLETS AND LOZENGES AND PASTILLES, BEING SWEETS.
Claims use since Feb. 1, 1913.

CLASS 47

WINES

Ser. No. 459,154. SCHENLEY IMPORT CORPORATION, New York, N. Y. Filed Mar. 16, 1943.

MIMOSA

FOR WINES.
Claims use since Sept. 4, 1941.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 459,296. CAMDEN COUNTY BEVERAGE COMPANY, Camden, N. J. Filed Mar. 24, 1943.



FOR BEER.
Claims use since Apr. 15, 1933.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 459,169. DILLINGER DISTILLERIES, INC., Ruffsdale and Philadelphia, Pa. Filed Mar. 17, 1943. Under 10-year proviso.



FOR WHISKEY.
Claims use since 1834.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 11, 1943

401,312. ALKALINE EFFERVESCENT TABLETS HAVING AN ANALGESIC-ANTIPYRETIC ACTION. EFFERVESCENT PRODUCTS, INC., Elkhart, Ind.
Filed March 29, 1940. Serial No. 430,126. PUBLISHED MARCH 2, 1943. Class 6.

401,313. SALVE USEFUL IN THE TREATMENT OF HEAD AND CHEST COLDS, NASAL CONGESTION, AND AS AN ANTISEPTIC DRESSING FOR MINOR CUTS OR INSECT BITES. ROCH D. KAWERK, doing business as Victory Chemical Co., Birmingham, Ala.
Filed March 15, 1941. Serial No. 441,577. PUBLISHED JUNE 17, 1941. Class 6.

401,314. INHIBITOR FOR USE IN ACID SOLUTIONS IN METAL PICKLING AND HARD WATER SCALE REMOVAL OPERATIONS. TURCO PRODUCTS, INC., Los Angeles, Calif.
Filed April 16, 1941. Serial No. 442,641. PUBLISHED MARCH 2, 1943. Class 6.

401,315. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,896. PUBLISHED MARCH 2, 1943. Class 15.

401,316. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,890. PUBLISHED MARCH 2, 1943. Class 15.

401,317. PLASTIC AND ELASTIC SUBSTANCE USEFUL AS A RUBBER SUBSTITUTE. ARMIN JOSEPH KRAUS, North Bergen, N. J.
Filed November 25, 1941. Serial No. 448,914. PUBLISHED MARCH 2, 1943. Class 1.

401,318. DUPLICATING CARBON PAPER. STANDARD MAILING MACHINES COMPANY, Everett, Mass., now, by change of name, Standard Duplicating Machines Corporation.
Filed November 29, 1941. Serial No. 449,069. PUBLISHED MARCH 2, 1943. Class 11.

401,319. CASTOR OIL. ROCH D. KAWERK, doing business as Victory Chemical Co., Birmingham, Ala.
Filed December 16, 1941. Serial No. 449,524. PUBLISHED DECEMBER 15, 1942. Class 6.

401,320. COMBINATION BEVERAGE COOLERS AND DISPENSERS, REACH-IN COOLERS AND REFRIGERATORS, WALK-IN REFRIGERATOR CABINETS, BACK REFRIGERATOR SECTIONS AND BOTTLE AND KEG COOLERS. OTTO J. VINCENT, doing business as Bemco Mfg. Co., Seattle, Wash.
Filed January 9, 1942. Serial No. 450,129. PUBLISHED MARCH 2, 1943. Class 31.

401,321. ELASTIC COMPOUND IN THE NATURE OF PUTTY OR GLAZING COMPOSITION FOR SETTING GLASS IN WOOD SASH. PLASTIC PRODUCTS COMPANY, Detroit, Mich.
Filed January 10, 1942. Serial No. 450,145. PUBLISHED MARCH 2, 1943. Class 16.

401,322. TOBOGGANS. THE NEW ENGLAND BOX COMPANY, Greenfield, Mass.
Filed January 14, 1942. Serial No. 450,209. PUBLISHED MARCH 2, 1943. Class 22.

401,323. PNEUMATIC VEHICLE TIRES. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed January 15, 1942. Serial No. 450,227. PUBLISHED MARCH 2, 1943. Class 35.

401,324. CANNED FISH, CANNED FRUITS, CANNED FRUIT JUICES FOR FOOD PURPOSES, CANNED FRUIT SALADS, CANNED SOUPS, CANNED VEGETABLE, CANNED VEGETABLE JUICES, AND CANNED SPICES. GRISTEDE BROS. INC., New York, N. Y.
Filed April 21, 1942. Serial No. 452,474. PUBLISHED MARCH 2, 1943. Class 46.

401,325. SAVINGS BANKS. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed May 7, 1942. Serial No. 452,872. PUBLISHED JULY 28, 1942. Class 25.

401,326. FRUIT COATING SOLUTIONS OF WAXY MATERIAL IN A VOLATILE SOLVENT. FOOD MACHINERY CORPORATION, San Jose, Calif.
Filed May 28, 1942. Serial No. 453,327. PUBLISHED MARCH 2, 1943. Class 15.

401,327. BUBBLE BATH PREPARATION. PRINCE MATCHABELLI INC., New York, N. Y.
Filed June 2, 1942. Serial No. 453,424. PUBLISHED JULY 28, 1942. Class 6.

401,328. MAKE-UP CREAM, COMPLEXION CREAM, COMPLEXION POWDER, COMPLEXION BASE, FACE POWDER, FACIAL MASQUE, DRY ROUGE, CREAM ROUGE, LIPSTICK, LIQUIFYING CLEANSER, EYELID CREAM, PORE PASTE, SKIN FRESHENER, LIQUID FACE POWDER, LIQUID BODY SKIN MAKE-UP, MASCARA, EYE SHADOW, COLOGNE AND DEODORANT. COSMETICS INC., Nashville, Tenn.
Filed June 17, 1942. Serial No. 453,717. PUBLISHED MARCH 2, 1943. Class 6.

401,329. CELLULOSE SAUSAGE CASINGS. SYLVANIA INDUSTRIAL CORPORATION, Fredericksburg, Va., and New York, N. Y.
Filed July 10, 1942. Serial No. 454,155. PUBLISHED MARCH 2, 1943. Class 2.

401,330. CELLULOSE SAUSAGE CASINGS. SYLVANIA INDUSTRIAL CORPORATION, Fredericksburg, Va., and New York, N. Y.
Filed July 10, 1942. Serial No. 454,156. PUBLISHED MARCH 2, 1943. Class 2.

401,331. TIRES COMPOSED WHOLLY OR PRINCIPALLY OF RUBBER. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed July 21, 1942. Serial No. 454,368. PUBLISHED FEBRUARY 23, 1943. Class 35.

401,332. CATHETERS. EUGENE B. BAEHR & SONS, New York, N. Y.
Filed September 5, 1942. Serial No. 455,362. PUBLISHED MARCH 2, 1943. Class 44.

401,333. TOILET TISSUE AND PAPER TOWELS. A. P. W. PAPER COMPANY, INC., Albany, N. Y.
Filed September 11, 1942. Serial No. 455,469. PUBLISHED NOVEMBER 24, 1942. Class 37.

401,334. TOY MONOPLANES ADAPTED TO BE PROJECTED INTO FLIGHT BY MEANS OF A CATAPULT OR SLING. THE WRIGHT-DAYTON COMPANY, Dayton, Ohio.
Filed September 15, 1942. Serial No. 455,550. PUBLISHED MARCH 2, 1943. Class 22.

401,335. FIRE EXTINGUISHING PREPARATIONS. AMERICAN-LAFRANCE-FOAMITE CORPORATION, Elmira, N. Y.
Filed October 1, 1942. Serial No. 455,878. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,336. ADVERTISING SIGNS MADE OF CARDBOARD PRINTED, PAINTED, STAMPED, OR OTHERWISE MARKED. THE AMERICAN ART WORKS, INC., Coshocton, Ohio.
Filed October 17, 1942. Serial No. 456,256. PUBLISHED MARCH 2, 1943. Class 50.

401,337. FOOD PRODUCTS—NAMELY, DEHYDRATED SOUP MIX, CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, FRESH CITRUS FRUITS, FRESH FRUITS—NAMELY, FRESH GRAPES. THE LOGIN CORPORATION, San Francisco, Calif.
Filed October 21, 1942. Serial No. 456,315. PUBLISHED MARCH 2, 1943. Class 46.

401,338. METAL DEGREASING AND METAL WASHING COMPOUNDS, AND CHEMICAL COMPOUNDS USED FOR PROTECTIVE COATINGS AND RUST PREVENTIVE COATINGS FOR METAL AND OTHER SPECIAL METAL TREATMENT. HERBERT VAN STRAATEN, doing business as Van Straaten Chemical Co., Chicago, Ill.
Filed October 22, 1942. Serial No. 456,348. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,339. CASTER HAND TRUCKS FOR MOVING HEAVY LOADS. FERNANDO CARRARA, New York, N. Y.
Filed October 26, 1942. Serial No. 456,417. PUBLISHED MARCH 2, 1943. Class 19.

401,340. ROOFING CEMENT, BITUMINOUS BASE COATING COMPOSITIONS FOR ROOFS AND OTHER CONSTRUCTION PURPOSES, PITCH, ASPHALT AND TAR FOR ROOFING, ROAD AND OTHER CONSTRUCTION PURPOSES; ETC. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y.
Filed October 28, 1942. Serial No. 456,484. PUBLISHED MARCH 2, 1943. Class 12.

401,341. THERAPEUTIC FOOD PREPARATION CONTAINING VITAMINS AND MINERALS IN A CARRIER COMPRISING GROUND FRUITS, NUTS, CEREALS, AND A SWEETENING AGENT. THOMAS J. RYAN, JR., doing business as Ryan Products Company, New York, N. Y.
Filed October 31, 1942. Serial No. 456,567. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,342. CHILI SAUCE. SAFEWAY STORES, INC. OF NEVADA, also doing business as Table Products Company, Reno, Nev., and Oakland, Calif.
Filed October 31, 1942. Serial No. 456,570. PUBLISHED MARCH 2, 1943. Class 46.

401,343. DENTAL CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed October 24, 1942. Serial No. 456,680. PUBLISHED MARCH 2, 1943. Class 6.

401,344. FLAT WALL FINISH PAINT IN DRY, PASTE, AND READY MIXED FORM. HALL HARDWARE COMPANY, Minneapolis, Minn.
Filed November 13, 1942. Serial No. 456,798. PUBLISHED MARCH 2, 1943. Class 16.

401,345. LUMBER IMPREGNATED TO PROTECT IT AGAINST FIRE, DECAY, AND INSECT ATTACK. PROTEXOL CORPORATION, Kenilworth, N. J.
Filed November 13, 1942. Serial No. 456,807. PUBLISHED MARCH 2, 1943. Class 12.

401,346. EMPTY COMPACT CASES FOR BOTH LOOSE AND CAKED POWDER, MADE IN WHOLE OR IN PART OF BASE METAL. LUCIEN LELONG, INC., Chicago, Ill.
Filed November 16, 1942. Serial No. 456,851. PUBLISHED MARCH 2, 1943. Class 2.

401,347. VITAMIN AND MINERAL MIXTURE TO BE ADDED TO FLOUR. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed November 18, 1942. Serial No. 456,912. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,348. GAUZE BANDAGES AND ABSORBENT COTTON FOR SURGICAL AND HOSPITAL USE. MARSALES CO. INC., New York, N. Y.
Filed November 20, 1942. Serial No. 456,946. PUBLISHED MARCH 2, 1943. Class 44.

401,349. COMPOUND FOR APPLICATION TO CARPETS AND UPHOLSTERY TO PREVENT STAINS BY DOGS AND CATS. WENDELL WALKER, doing business as Kaynine Products, Chicago, Ill.
Filed November 23, 1942. Serial No. 456,997. PUBLISHED MARCH 2, 1943. Class 6.

401,350. PARTS KITS FOR MAKING SETS OF MODEL AIRPLANES. JOE OTT MANUFACTURING CO., Chicago, Ill.
Filed November 25, 1942. Serial No. 457,047. PUBLISHED FEBRUARY 23, 1943. Class 22.

401,351. PAINT BRUSHES. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed November 25, 1942. Serial No. 457,048. PUBLISHED FEBRUARY 23, 1943. Class 29.

401,352. PLASTICIZED COUMARONE-INDENE POLYMER COMPOSITIONS ADAPTED FOR THE WEATHERPROOFING OF TEXTILE FABRICS. THE NEVILLE COMPANY, Neville Island, Pittsburgh, Pa.
Filed November 26, 1942. Serial No. 457,066. PUBLISHED MARCH 2, 1943. Class 6.

401,353. CONTROL HANDLES FOR AIRCRAFT INCLUDING ELECTRICAL SWITCHES DIRECTLY CARRIED THEREBY, AND FOR CONTROL WHEELS FOR AIRCRAFT INCLUDING ELECTRICAL SWITCHES DIRECTLY CARRIED THEREON. GUARDIAN ELECTRIC MANUFACTURING CO., Chicago, Ill.
Filed November 30, 1942. Serial No. 457,119. PUBLISHED MARCH 2, 1943. Class 19.

401,354. OINTMENT FOR EXTERNAL USE FOR VARIOUS INFECTIONS OF THE SKIN, BOTH OF A SUPERFICIAL AND A SECONDARY NATURE. FELLOWS MEDICAL MANUFACTURING COMPANY, INC., New York, N. Y.
Filed December 4, 1942. Serial No. 457,200. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,355. MEDICINAL COMPOUNDS OF MULTIPLE VITAMIN FACTORS. CECILIA SALAZAR, New York, N. Y., assignor to Santiago Development Corporation, New York, N. Y., a corporation of Delaware.
Filed December 4, 1942. Serial No. 457,210. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,356. GLASSWARE FOR TABLE, CULINARY, AND HOUSEHOLD PURPOSES. IMPERIAL GLASS CORPORATION, Bellaire, Ohio.
Filed December 7, 1942. Serial No. 457,244. PUBLISHED MARCH 2, 1943. Class 33.

401,357. FRESH VEGETABLES—NAMELY, LETTUCE. O. R. RECKER, doing business as O. R. Recker Packing Co., Phoenix, Ariz.
Filed December 9, 1942. Serial No. 457,300. PUBLISHED MARCH 2, 1943. Class 46.

401,358. PACKAGED WOODEN, PLASTIC, AND METALLIC STRUCTURAL ELEMENTS FOR ASSEMBLY INTO HOUSING UNITS, SAID ELEMENTS COMPRISING SILL MEMBERS, JOIST MEMBERS, FLOORING MEMBERS, DOORS AND THEIR CASINGS, BULKHEAD PANELS, WALL PANELS, AND EAVE SECTIONS. PACIFIC HUTS, INC., Seattle, Wash.
Filed December 11, 1942. Serial No. 457,342. PUBLISHED MARCH 2, 1943. Class 12.

401,359. CONCENTRATION OF NATURAL VEGETABLE OILS CONTAINING ALPHA, BETA, AND GAMMA TOCOPHEROLS IN OIL (VITAMIN E CONCENTRATE). U. S. VITAMIN CORPORATION, New York, N. Y.
Filed December 11, 1942. Serial No. 457,353. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,360. MAGNESIUM AND MAGNESIUM ALLOYS. DIAMOND MAGNESIUM COMPANY, Painesville, Ohio.
Filed December 12, 1942. Serial No. 457,361. PUBLISHED MARCH 2, 1943. Class 14.

401,361. TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS, AND STRIPS. HOYLAND STEEL COMPANY, INCORPORATED, New York, N. Y.
Filed December 12, 1942. Serial No. 457,363. PUBLISHED MARCH 2, 1943. Class 14.

401,362. CANNED FRUITS AND VEGETABLES. COMSTOCK CANNING CORPORATION, Newark, N. Y.
Filed December 15, 1942. Serial No. 457,413. PUBLISHED MARCH 2, 1943. Class 46.

401,363. MONEY BELTS. SOL SHERMAN, doing business as Sherman Bows, New York, N. Y.
Filed December 18, 1942. Serial No. 457,516. PUBLISHED FEBRUARY 23, 1943. Class 3.

401,364. SALVE FOR TREATMENT OF SORE MUSCLES, ACHES, AND PAINS DUE TO NEURALGIA AND EXPOSURE, AND FOR EXTERNAL APPLICATION IN THE TREATMENT OF COLDS. GOODWILL INDUSTRY, DR. J. Q. A. MARTIN, INCORPORATED, New Bern, N. C.
Filed December 21, 1942. Serial No. 457,545. PUBLISHED MARCH 2, 1943. Class 6.

401,365. MAYONNAISE, OIL SALAD DRESSINGS, SANDWICH SPREADS, AND TARTAR SAUCE. JOSEPH P. KUERTZ, doing business as Kuertz Food Products Co., Cincinnati, Ohio, assignor to Frank Poynter, Cincinnati, Ohio.
Filed December 21, 1942. Serial No. 457,546. PUBLISHED MARCH 2, 1943. Class 46.

401,366. COMPLETELY WASHABLE OINTMENT BASE. J. LÆON LASCOFF & SON, New York, N. Y.
Filed December 23, 1942. Serial No. 457,576. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,367. PREPARATION IN SOLID BLOCK FORM FOR APPLICATIONS TO THE FACE AFTER SHAVING, HAVING REFRESHING, SOOTHING, AND ANTISEPTIC QUALITIES. THE IRA J. SHAPIRO CO. INC., New York, N. Y.
Filed December 23, 1942. Serial No. 457,578. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,368. MEDICINAL PREPARATION FOR RELIEF OF INDIGESTION AND OTHER GASTRIC DISTURBANCES OF THE STOMACH. LYLE W. MILLS, doing business as Hill's Laboratories, Silver Spring, Md.
Filed December 24, 1942. Serial No. 457,589. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,369. VAGINAL JELLY. JULIUS SCHMID, INC., New York, N. Y.
Filed December 24, 1942. Serial No. 457,592. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,370. AGRICULTURAL INSECTICIDE CONTAINING A DINITRO-PHENOL COMPOUND AS THE ACTIVE INGREDIENT. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed December 26, 1942. Serial No. 457,604. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,371. DENTAL MATERIALS FOR REPAIRING TEETH—NAMELY, RESINOUS PLASTIC MATERIALS USED IN CONNECTION WITH AND FOR CROWNS, INLAYS AND FACINGS, BRIDGES AND DENTURES. AMERICAN DENTAL COMPANY, Cleveland, Ohio.
Filed December 28, 1942. Serial No. 457,621. PUBLISHED MARCH 2, 1943. Class 44.

401,372. PRODUCT FOR NEUTRALIZING AN ACID INGREDIENT IN THE MANUFACTURE OF COMMERCIAL FERTILIZERS. THE NATURAL LIME & STONE COMPANY, Findlay, Ohio.
Filed December 28, 1942. Serial No. 457,630. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,373. PERFUMES AND TOILET WATER. RENOIR PARFUMS, LTD., New York, N. Y.
Filed December 30, 1942. Serial No. 457,656. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,374. PERFUMES AND TOILET WATER. RENOIR PARFUMS, LTD., New York, N. Y.
Filed December 30, 1942. Serial No. 457,658. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,375. MUSICAL INSTRUMENT STRINGS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 30, 1942. Serial No. 457,662. PUBLISHED FEBRUARY 23, 1943. Class 36.

401,376. PACKAGED GERMICIDE FOR CONTROL OF PULP AND PAPER MILL SLIMES. THE HAMILTON LABORATORIES, INC., Hamilton, Ohio.
Filed December 31, 1942. Serial No. 457,679. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,377. TOY CARDS, A COMBINABLE IN VARIOUS RELATIONS TO PROVIDE DIFFERENT DESIGNS OR FIGURES. HAYES N. PEDERSEN, Racine, Wis.
Filed January 1, 1943. Serial No. 457,708. PUBLISHED MARCH 2, 1943. Class 22.

401,378. BRAZING FLUXES. SCAIFE COMPANY, Oakmont, Pa.
Filed January 1, 1943. Serial No. 457,710. PUBLISHED FEBRUARY 23, 1943. Class 6.

401,379. STARCH TABLETS. BLUE SUDS COMPANY, Detroit, Mich.
Filed January 2, 1943. Serial No. 457,716. PUBLISHED MARCH 2, 1943. Class 6.

401,380. DENTAL IMPRESSION AND RELINE MATERIAL OF METHACRYLATE COMPOSITION. CORALITE DENTAL PRODUCTS COMPANY, Chicago, Ill.
Filed January 4, 1943. Serial No. 457,740. PUBLISHED MARCH 2, 1943. Class 44.

401,381. MINERAL TANNING MATERIAL. RÖHM & HAAS COMPANY, Philadelphia, Pa.
Filed January 6, 1943. Serial No. 457,782. PUBLISHED MARCH 2, 1943. Class 6.

401,382. GERMICIDAL COMPOSITIONS. WALLACE & TIERNAN PRODUCTS, INC., Belleville, N. J.
Filed January 7, 1943. Serial No. 457,799. PUBLISHED MARCH 2, 1943. Class 6.

401,383. BEVERAGE COOLERS. MURRAY M. FIBUS, doing business as Steel City Manufacturing Co., Youngstown, Ohio.
Filed January 9, 1943. Serial No. 457,827. PUBLISHED MARCH 2, 1943. Class 31.

401,384. APPLES. VICTOR JOSEPH CO., New York, N. Y.
Filed January 9, 1943. Serial No. 457,831. PUBLISHED MARCH 2, 1943. Class 46.

401,385. PRODUCT WHICH COMPRISES THE COMBINATION OF A BACTERIAL VACCINE AND A TOXOID, WHICH, WHEN INJECTED INTO THE PATIENT, PRODUCES AND/OR STIMULATES ANTITOXIC AND ANTIBACTERIAL SUBSTANCES. THE NATIONAL DRUG COMPANY, Philadelphia, Pa.
Filed January 14, 1943. Serial No. 457,920. PUBLISHED MARCH 2, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,386. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) McCREARY TIRE & RUBBER COMPANY, Borough of Indiana, Pa. Filed Mar. 10, 1943. Serial No. 459,011.



FOR AUTOMOBILE TIRES MADE OF RUBBER AND FABRIC.
Claims use since Dec. 1, 1941.

401,387. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE FIRESTONE TIRE & RUBBER CO., Akron, Ohio. Filed Feb. 26, 1943. Serial No. 458,778.

PLASTICORD

FOR FISHING AND CASTING LINES.
Claims use since Jan. 2, 1942.

401,388. (CLASS 27. HOROLOGICAL INSTRUMENTS.) KELBERT WATCH COMPANY, New York, N. Y. Filed Jan. 26, 1943. Serial No. 458,176.

Kelbert

FOR WATCHES, WATCH MOVEMENTS, AND WATCH PARTS.
Claims use since Oct. 15, 1938.

401,389. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DAVID LIPPEY, doing business as The LIPPEY COMPANY,, Los Angeles, Calif. Filed Jan. 16, 1943. Serial No. 457,958.

Silkin

FOR SHOELACES.
Claims use since June, 1940.

401,390. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DAVID LIPPEY, doing business as The LIPPEY COMPANY, Los Angeles, Calif. Filed Jan. 16, 1943. Serial No. 457,957.

NEOHIDE

FOR SHOE LACES.
Claims use since June, 1941.

401,391. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LERON OF PARIS, New York, N. Y. Filed Apr. 18, 1942, Serial No. 452,431.

Léron

FOR PERFUMES, EAUX DE COLOGNE, DENTIFRICES, AND COSMETICS, COMPRISING HAND, SKIN, AND FACE LOTIONS, SKIN AND EYELASH OILS, ASTRINGENTS, NAIL POLISH, ROUGES, TOILET CREAMS, MASQUES, TOILET POWDERS, EYEBROW PENCILS, AND LIPSTICKS.
Claims use since September, 1941.

401,392. (CLASS 17. TOBACCO PRODUCTS.) JAMES J. HENNESSY, Waterbury, Conn. Filed Mar. 7, 1942. Serial No. 451,467.



The drawing is shaded to indicate green.
FOR CIGARS AND TOBACCO CLIPPINGS.
Claims use since Dec. 11, 1936.

401,393. (CLASS 31. FILTERS AND REFRIGERATORS.) THE MARLEY COMPANY, INC., Kansas City, Kans. Filed Mar. 5, 1942. Serial No. 451,415.

"PLASTICLAD"

FOR LIQUID COOLING TOWERS AND PARTS THEREOF.
Claims use since Feb. 27, 1942.

401,394. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE ALUMINUM COOKING UTENSIL COMPANY, New Kensington, Pa. Filed Dec. 31, 1941. Serial No. 449,879.

WESTMORLAND STERLING

FOR STERLING SILVER FLATWARE, HOLLOW WARE, AND TABLEWARE.
Claims use since Nov. 15, 1941.

401,395. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Dec. 30, 1941. Serial No. 449,856.



FOR PROPELLERS AND PARTS THEREOF.
Claims use since Oct. 30, 1941.

401,396. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Dec. 30, 1941. Serial No. 449,855.



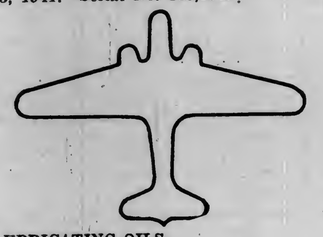
FOR PROPELLERS AND PARTS THEREOF.
Claims use since Oct. 30, 1941.

401,397. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OCEANIC SALES COMPANY, Seattle, Wash. Filed Nov. 27, 1941. Serial No. 448,982.

SANBORN'S

FOR CANNED SALMON.
Claims use since Aug. 8, 1936.

401,398. (CLASS 15. OILS AND GREASES.) THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Nov. 25, 1941. Serial No. 448,894.



FOR LUBRICATING OILS.
Claims use since Nov. 25, 1937.

401,399. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MONROE AUTO EQUIPMENT COMPANY, Monroe, Mich. Filed Nov. 12, 1941. Serial No. 448,572.

MONROE

FOR AIRPLANE TYPE SHOCK ABSORBERS AND SHOCK ABSORBER PARTS.
Claims use since Oct. 31, 1941.

401,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZENOBIA ROSALAK, New York, N. Y. Filed Jan. 20, 1940. Serial No. 427,917.

POLANKA

FOR PREPARATION FOR USE IN ALLEVIATING SIMPLE DIGESTIVE DISTURBANCES.
Claims use since Oct. 1, 1938.

401,401. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE ROBERT PARKINSON, New York, N. Y. Filed Mar. 30, 1940. Serial No. 430,194.

"Jean Louis LECOURT"

FOR PERFUMES.
Claims use since Dec. 15, 1939.

401,402. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) BEN S. RHODES, Normal, Ill. Filed Feb. 19, 1941. Serial No. 440,790.

RHODES ROAD KIT

FOR APRON TOILET KIT, THE SAME BEING A FOLDED CONTAINER FOR TOILET ARTICLES UNFOLDABLE FOR USE AS AN APRON WITH THE ARTICLES AVAILABLE FOR USE OF THE WEARER.
Claims use since Dec. 10, 1940.

TRADE-MARK REGISTRATIONS RENEWED

23,632. **"BEE" AND DRAWING.** TOILET SOAP. Registered September 19, 1893. COLGATE & Co., New York, N. Y. Re-renewed September 19, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee by mesne assignments.

164,657. **"B" IN REPRESENTATION OF A SQUARE.** PARAFFIN. Registered February 27, 1923. BARNSDALL REFINING COMPANY. Renewed February 27, 1943. to Bareco Oil Company, Tulsa, Okla., a corporation of Delaware, assignee by mesne assignments.

164,907. **"DIME BANK" AND DRAWING.** CIGARS. Registered February 27, 1923. MAZER CIGAR MANUFACTURING COMPANY. Detroit, Mich. Renewed February 27, 1943, to J. C. Winter & Company, Inc., Red Lion, Pa., a corporation of Pennsylvania

165,142. **JOY-SYNTH.** SHAVING CREAMS USED BEFORE SHAVING, AND SHAVING STICKS USED BEFORE SHAVING. Registered March 6, 1923. WEICHSEL LABORATORIES. Renewed March 6, 1943, to Wirt Davis, Dallas, Tex., successor.

165,674. **TUC-A-WAY.** MEN'S, LADIES', AND BOYS' HATS. Registered March 20, 1923. J. T. ASCH & SONS. Renewed March 20, 1943, to Ogus, Rabinovich & Ogus, Inc., New York, N. Y., a corporation of New York, assignee.

165,684. **"NUTMEG" AND DRAWING.** NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. Registered March 20, 1923. COCA-COLA BOTTLING CO. Renewed March 20, 1943, to Nutmeg Club Beverage Company, New London, Conn., a firm, successor.

165,803. **O. L. R.** TONIC FOR USE IN THE TREATMENT OF RHEUMATISM, PAINS AND SWELLINGS IN THE JOINTS, AND DISEASES OF THE BLOOD. Registered March 20, 1923. O. L. ROBERTS, Gary, Ind. Renewed March 20, 1943, to Oscar Lee Roberts, Hubbard, Ohio

166,083. **"YE OLDE BRICK" AND DRAWING.** MISSES', BOYS', AND CHILDREN'S SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS OF LEATHER AND FABRIC. Registered March 27, 1923. JORDAN MARSH COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed March 27, 1943.

166,135. **"WICHITA IMPERIAL MILLS" AND DRAWING.** WHEAT FLOUR. Registered March 27, 1923. THE IMPERIAL FLOUR MILLS CO., Wichita, Kans., a corporation of Kansas. Renewed March 27, 1943.

166,146. **"HAPPY ANN" AND DRAWING.** SELF-RISING WHEAT FLOUR. Registered March 27, 1923. CITY MILLS COMPANY, Columbus, Ga., a corporation of Georgia. Renewed March 27, 1943.

166,274. **MAGNETIC BOND.** WRITING PAPER AND ENVELOPES. Registered March 27, 1923. THE MIAMISBURG PAPER CO., Miamisburg, Ohio. Renewed March 27, 1943, to Empire Paper Company, Chicago, Ill., a corporation of Illinois, assignee.

166,452. **"LA NAPOLETANA" AND DRAWING.** CANNED PEELED TOMATOES, ROASTED PEPPERS, AND TOMATO SAUCE. Registered April 3, 1923. P. PASTENE & CO., INC., Boston, Mass. Renewed April 3, 1943, to Pastene & Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

166,460. **HUMBLE.** CERTAIN NAMED OILS AND GREASES. Registered April 3, 1923. HUMBLE OIL & REFINING COMPANY, Houston, Tex., a corporation of Texas. Renewed April 3, 1943.

166,496. **SEASIDE.** CERTAIN NAMED PETROLEUM PRODUCTS. Registered April 3, 1923. SEASIDE OIL COMPANY, Summerland, Calif. Renewed April 3, 1943, to Seaside Oil Company, Santa Barbara, Calif., a corporation of California.

166,586. **LUSTERN.** CERTAIN NAMED ARTICLES MADE WHOLLY OR IN PART OF GOLD OR SILVER OR OF GOLD PLATE OR SILVER PLATE. Registered April 10, 1923. LOUIS STERN COMPANY, Providence, R. I., a corporation of Rhode Island. Renewed April 10, 1943.

167,713. **WETORDRY.** ABRASIVE PAPER. Registered May 8, 1923. MINNESOTA MINING & MANUFACTURING COMPANY. Renewed May 8, 1943, to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware, assignee.

168,865. **"LA BIANCOLINA" AND DRAWING.** WASHING FLUID. Registered May 29, 1923. FLUID CHEMICAL COMPANY. Renewed May 29, 1943, to Filippo Benedetti, Newark, N. J., assignee.

168,908. **WARWICK.** NONSKID CHAINS, HOOKS, AND PARTS THEREFOR. Registered May 29, 1923. NEWHALL CHAIN FORGE & IRON CO., New York, N. Y. Renewed May 29, 1943, to Newhall Chain Forge & Iron Co., Westwood, N. J., a corporation of New Jersey.

169,130. **"JUMBO" AND DRAWING.** RUBBER TIRES, TIRE CASINGS, AND INNER TUBES. Registered June 12, 1923. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed June 12, 1943.

169,141. **WESTERN GIANT.** PNEUMATIC VEHICLE TIRES COMPOSED OF RUBBER OR FABRIC AND RUBBER AND INNER TUBES. Registered June 12, 1923. THE INDIA TIRE AND RUBBER COMPANY, Akron and Mogadore, Ohio. Renewed June 12, 1943, to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio, assignee by mesne assignments.

169,288. **LAVA PATCH.** CEMENTS, PARTICULARLY FOR USE IN CONNECTION WITH REFRACTORY PARTS AND CONSTRUCTIONS. Registered June 12, 1923. LAVA CRUCIBLE COMPANY OF PITTSBURGH, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed June 12, 1943.

169,476. **AVONA.** HOT-WATER BOTTLES, HOT-WATER BAGS, AND SYRINGES. Registered June 19, 1923. JORDAN MARSH COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed June 19, 1943.

169,618. **DOLLY VARDEN.** CERTAIN NAMED TOILET PREPARATIONS. Registered June 26, 1923. MARIETTA B. WILLATS, doing business as "Dolly Varden Co.", Los Angeles, Calif. Renewed June 26, 1943.

169,763. **COPLEY.** CERTAIN ARTICLES OF CLOTHING. Registered July 3, 1923. JORDAN MARSH COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed July 3, 1943.

169,770. **JUNE FOX.** LADIES', MISSES', AND CHILDREN'S DRESSES. Registered July 3, 1923. NICKELS MANUFACTURING COMPANY, Bristol, Va. Renewed July 3, 1943, to Nickels Manufacturing Co., Inc., Bristol, Tenn., a corporation of Tennessee, successor.

169,779. **MENTHA PEPSIN.** MEDICAL COMPOUND FOR DISEASES OF THE STOMACH. Registered July 3, 1923. CHARLES F. DARE & SON, INC., Bridgeton, N. J. Renewed July 3, 1943, to International Laboratories, Inc., Rochester, N. Y., a corporation of New York, assignee by mesne assignments.

169,874. **RED DEVIL.** CERTAIN NAMED TOOLS, KNIVES, AND MACHINES. Registered July 3, 1923. SMITH & HEMENWAY COMPANY, INC., New York, N. Y., and Irvington, N. J. Renewed July 3, 1943, to Landon P. Smith, Inc., Irvington, N. J., a corporation of New Jersey, assignee.

171,164. **NATIONAL CUP.** COFFEE AND TEA. Registered July 31, 1923. THE EAGLE TEA & COFFEE COMPANY, INC. Renewed July 31, 1943, to Old Dutch Mills, Inc., New York, N. Y., a corporation of New York, successor.

171,815. **NIK-O-LOK.** COIN-CONTROLLED LOCKS. Registered August 14, 1923. MICHIGAN COIN LOCK COMPANY, Renewed August 14, 1943, to The Nik-O-Lok Company, Indianapolis, Ind., a corporation of Indiana, successor.

172,013. **AMERTRAN.** TRANSFORMERS USED IN RADIO APPARATUS AND PARTS THEREFOR. Registered August 21, 1923. AMERICAN TRANSFORMER COMPANY, Newark, N. J., a corporation of New Jersey. Renewed August 21, 1943.

172,017. **SECURITY.** TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. Registered August 21, 1923. FORT HOWARD PAPER COMPANY, Green Bay, Wis., a corporation of Wisconsin. Renewed August 21, 1943.

172,084. **NILE QUEEN.** TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. Registered August 21, 1923. FORT HOWARD PAPER COMPANY, Green Bay, Wis., a corporation of Wisconsin. Renewed August 21, 1943.

172,245. **REPRESENTATION OF A BOY AND SLATE.** LUBRICATING GREASE. Registered August 28, 1923. THE NATIONAL REFINING COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed August 28, 1943.

172,301. **"MAGNETIC HOUSECLEANER" AND DRAWING.** ELECTRIC VACUUM CLEANERS. Registered August 28, 1923. BIRTMAN ELECTRIC COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,339. **COMET.** GOLF BALLS. Registered August 28, 1923. JORDAN MARSH COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed August 28, 1943.

172,425. **"W" IN REPRESENTATION OF A CIRCLE.** METAL PUNCHING TOOLS AND DIES. Registered August 28, 1923. WHITNEY METAL TOOL COMPANY, Rockford, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,567. **"EXTOL" AND DRAWING.** HAIR TONIC. Registered September 11, 1923. JOHN J. FOX, Hancock, Mich. Renewed September 11, 1943, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, assignee by mesne assignments.

172,739. **CHLORYLEN.** MEDICINAL PRODUCTS FOR TREATING NEURALGIC AND CONVULSIVE AFFECTIONS. Registered September 11, 1923. C. A. F. KAHLBAUM CHEMISCHE FABRIK GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Adlershof-Berlin, Germany. Renewed September 11, 1943, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey, assignee by mesne assignments.

172,744. **ABASIN.** REMEDY TO BE USED AS A SEDATIVE OR HYPNOTIC. Registered September 11, 1923. FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed September 11, 1943, to Winthrop Chemical Company, Inc., New York N. Y., a corporation of New York, assignee.

172,925. **EVERCHENE.** CERTAIN NAMED PIECE GOODS. Registered September 11, 1923. TURNER & WALLS. Renewed September 11, 1943, to Albert H. Vandam Co., Inc., New York, N. Y. a corporation of New York, assignee by mesne assignments.

172,933. **HOMESTEAD.** BLANKETS AND COMFORTERS OF COTTON OR WOOL, OR A COMBINATION THEREOF. Registered September 11, 1923. FULD BROTHERS, New York, N. Y., a firm. Renewed September 11, 1943.

172,946. **McNASBY OYSTER CO. FAMOUS PEARL.** RAW OYSTERS AND OYSTERS IN THE SHELL. Registered September 11, 1923. MCNASBY OYSTER COMPANY, Annapolis, Md., a firm. Renewed September 11, 1943.

173,104. **SNOWFLUFF.** TOILET POWDER. Registered September 18, 1923. E. FOUGERA & CO., INC., New York, N. Y., a corporation of New York. Renewed September 18, 1943.

173,124. **NEPRO.** BOTTLE CLOSURES OF THE CROWN TYPE. Registered September 18, 1923. NEW PROCESS CORK COMPANY, Brooklyn, N. Y. Renewed September 18, 1943, to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York, assignee.

173,135. **DAIRYLEA.** CONDENSED MILK AND EVAPORATED MILK. Registered September 18, 1923. DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Renewed September 18, 1943, to Dairymen's League Cooperative Association, Inc., New York, N. Y., a corporation of New York

173,142. **"AMERICAN LARSON" AND DRAWING.** INDUSTRIAL VENTILATORS FOR BUILDINGS, MANUFACTURING AND INDUSTRIAL PLANTS, AND STRUCTURES REQUIRING VENTILATION. Registered September 18, 1923. AMERICAN LARSON VENTILATING COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed September 18, 1943.

173,150. **IODOL.** CERTAIN NAMED PHARMACEUTICAL PRODUCT. Registered September 18, 1923. KALLE & Co., AKTIENGESELLSCHAFT, Biebrich-on-the-Rhine, Germany. Renewed September 18, 1943, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, assignee.

173,165. **OPTIMUS.** CERTAIN NAMED MEDICINAL PREPARATIONS. Registered September 18, 1923. STEWART & HOLMES DRUG CO., Seattle, Wash. Renewed September 18, 1943, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, successor.

173,177. **"TROGON" AND DRAWING.** HOSIERY AND SWEATERS, SCARFS, CAPS, BOOTEES, AND KNIT SETS. Registered September 18, 1923. A. B. FRANK COMPANY, San Antonio, Tex., a corporation of Texas. Renewed September 18, 1943.

173,205. **LADY ASTER.** HOSIERY. Registered September 18, 1923. DAYTON HOSIERY MILLS, Dayton, Tenn., a corporation of Tennessee. Renewed September 18, 1943.

173,240. **OPTIMUS.** CERTAIN NAMED CHEMICAL AND MEDICINAL PREPARATIONS. Registered September 18, 1923. STEWART & HOLMES DRUG CO., Seattle, Wash. Renewed September 18, 1943, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, successor.

173,261. **MEADOW-GOLD.** MILK AND CREAM. Registered September 18, 1923. BEATRICE CREAMERY COMPANY, Chicago, Ill., and Topeka, Kans. Renewed September 18, 1943, to Beatrice Creamery Company, Chicago, Ill., a corporation of Delaware.

173,295. **DERRICKBOR.** BITS AND AUGERS. Registered September 18, 1923. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed September 18, 1943.

173,296. **ENDBOR.** BITS AND AUGERS. Registered September 18, 1923. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed September 18, 1943.

173,297. **CARBOR.** BITS AND AUGERS. Registered September 18, 1923. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed September 18, 1943.

173,314. **"PETITE" AND DRAWING.** DOLLS. Registered September 18, 1923. AMERICAN CHARACTER DOLL CO., INC. Renewed September 18, 1943, to American Character Doll Corporation, New York, N. Y., a corporation of New York, successor.

173,315. **TAPBOR.** BITS AND AUGERS. Registered September 18, 1923. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed September 18, 1943.

173,316. **SMOOTHBOR.** BITS AND AUGERS. Registered September 18, 1923. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed September 18, 1943.

173,317. **SHIPBOR.** BITS AND AUGERS. Registered September 18, 1923. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed September 18, 1943.

173,340. **"DEXTRO MALTO DE MEAD" AND DRAWING.** SPECIALLY PREPARED FOOD FOR INFANTS. Registered September 25, 1923. MEAD JOHNSON & COMPANY, Evansville, Ind., a corporation of Indiana. Renewed September 25, 1943.

173,395. **"NIGHTINGALE" AND DRAWING.** LADIES' HOSIERY OF SILK, COTTON, AND COMBINATION OF SILK AND COTTON. Registered September 25, 1923. BEN LEVENE INC. Renewed September 25, 1943, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

173,430. **OXFORD.** HOSIERY. Registered September 25, 1923. THE POWELL KNITTING CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 25, 1943.

173,434. **NETTLEFOLDS.** SCREWS, BOLTS, NUTS, RIVETS, NAILS, AND CERTAIN OTHER ARTICLES OF HARDWARE. Registered September 25, 1923. GUEST, KEEN & NETTLEFOLDS LIMITED, Smethwick, England, a British company. Renewed September 25, 1943.

173,461. **NOVIBE.** LUBRICATING OILS AND GREASES. Registered September 25, 1923. CATO OIL AND GREASE CO., Oklahoma City, Okla., a corporation of Oklahoma. Renewed September 25, 1943.

173,468. **"CPCO" AND DRAWING.** LUBRICATING OILS AND GREASES. Registered September 25, 1923. GRACE B. CARRAN, doing business as Central Petroleum Company. Renewed September 25, 1943, to Central Petroleum Company, Cleveland, Ohio, a corporation of Ohio, assignee.

173,491. **SURE-NUF.** SELF-RISING FLOUR. Registered September 25, 1923. J. ALLEN SMITH & COMPANY, Knoxville, Tenn., a corporation of Maine. Renewed September 25, 1943.

REISSUES

MAY 11, 1943

22,308
PRODUCTION OF COLORED PHOTOGRAPHIC PICTURES

Béla Gáspár, Hollywood, Calif., assignor to Chromogen, Incorporated, a corporation of Nevada

No Drawing. Original No. 2,270,118, dated January 13, 1942, Serial No. 179,591, December 13, 1937. Application for reissue August 29, 1942, Serial No. 456,695. In Great Britain December 14, 1936

53 Claims. (Cl. 95—6)

1. In the process of producing a photographic dyestuff image in a photographic emulsion uniformly dyed by an azo-dye and also comprising a metal image, the step of treating said metal image with a solution containing a substance capable of selectively destroying said azo-dye by reduction in the presence of said metal image, said solution also comprising a small amount of a reducible organic accelerating substance selected from the group of those reducible substances, the reduction products of which are reoxidizable during the treatment of said metal image with said solution to the original reducible substance, the composition of said solution being such that the reduction products of said reducible substance are reoxidizable during the treatment of said metal image and said solution being initially substantially free of reducing substances capable of being converted into said reducible substance by oxidation.

41. In a process of producing a dyestuff image in a photographic emulsion comprising a metal image and an azo dyestuff, the step of treating said azo dyestuff in the presence of said metal image with an agent which in the presence of said metal image is capable of selectively destroying said azo dyestuff by reduction, said treatment being carried out in the presence of a quantity of a reducible organic accelerating substance sufficient to accelerate the selective destruction of said azo dyestuff, the said accelerating substance being selected from the group of those reducible substances, the reduction products of which are reoxidizable during said treatment of said azo dyestuff in the presence of said metal image to the original reducible substance, said treatment with said organic reducible accelerating substance being initiated in the absence of reducing substances capable of being converted into said reducible substances by oxidation and the conditions of said treatment being such that the reduction products of said reducible substance are reoxidizable during said treatment of said azo dyestuff.

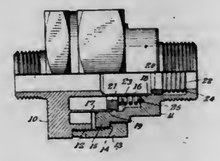
22,309
COUPLING

Stephen Guarnaschelli, Mount Vernon, N. Y., assignor to Packless Metal Products Corporation, New York, N. Y., a corporation of New York

Original No. 2,301,038, dated November 3, 1942, Serial No. 408,448, August 27, 1941. Application for reissue December 18, 1942, Serial No. 469,463

12 Claims. (Cl. 285—120)

9. A coupling connection for interconnecting sections of a pipe line carrying fluid under pressure comprising a thick walled rigid member having a cylindrical bore therein, a second member having a thin walled resilient cylindrical sleeve in tight engagement with said bore and rotatable



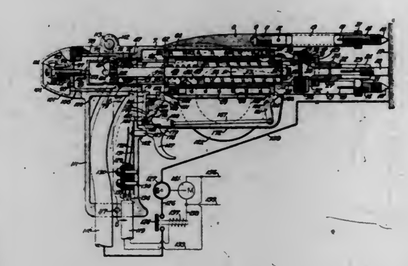
therein, the fluid in said pipe line exerting a pressure on the inside of said sleeve to maintain said tight engagement.

22,310
MECHANISM FOR BUTT WELDING

Edward F. Nelson, Vallejo, Calif.

Original No. 2,217,964, dated October 15, 1940, Serial No. 233,872, October 7, 1938. Application for reissue July 25, 1942, Serial No. 452,348

20 Claims. (Cl. 219—4)

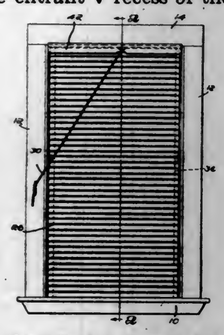


6. Apparatus for welding a first member forming a fixed electrode of an electric welding circuit to a second member forming another electrode of said welding circuit, comprising a support, said second member being mounted on said support and movable from and toward said first member, and unitary means for moving said second member relative to said first member, primarily, in a direction away from the first member to establish an arc gap between said members and, secondarily, in a direction toward said first member to close said arc gap.

12. In a welding apparatus, a casing, a ram slidably mounted in said casing, a spring for moving the ram axially in either direction, a pair of latches for restraining the action of the spring, means for releasing one of the latches to permit the spring to move the ram in one direction, and time controlled means initiated by the releasing means for releasing the other latch to permit the spring to move the ram in the other direction.

22,311
LOUVER BLIND
Walter L. Roy, Saugus, Mass., assignor to Litecontrol Corporation, Boston, Mass., a corporation of Massachusetts
Original No. 2,305,559, dated December 15, 1942, Serial No. 460,190, September 30, 1942. Application for reissue February 20, 1943, Serial No. 476,562
16 Claims. (Cl. 160—34)

1. A blind, comprising a plurality of elongated slats in superposed relation vertically, each slat comprising two side walls hinged together on an axis extending longitudinally of the slats and the slats being adapted to collapse into substantially flat superposed relation with the two walls of each slat in closely adjacent and substantially parallel planes, and means connecting each slat adjacent to and along its said axis to one wall of the slat thereabove along a line parallel with and spaced from its said axis, the slats being adapted each to assume an inverted V-shape with the hinge axis apex of each slat located within the re-entrant V recess of the slat there-



above when the blind is supported by the top slat.

PLANT PATENTS

GRANTED MAY 11, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

582
ROSE PLANT
Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana
Application January 20, 1942, Serial No. 427,507
1 Claim. (Cl. 47—61)

The new and useful variety of hybrid tea rose plant as shown and described, characterized particularly by its prolific production of flowers; its very long flower stems; and the splendid lasting qualities, exceptional, and abundant fragrance, and delicate but bright pink color of its flowers as indicated.

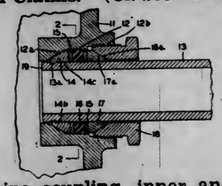
583
ROSE PLANT
Stanley Byron Roberts, Madison, N. J.
Application October 17, 1942, Serial No. 462,384
1 Claim. (Cl. 47—61)

A new and distinct variety of Rose plant of the hybrid tea class, characterized as to novelty by its habits of growth, its improved foliage, and the color and size of its blossoms, substantially as shown and described.

PATENTS

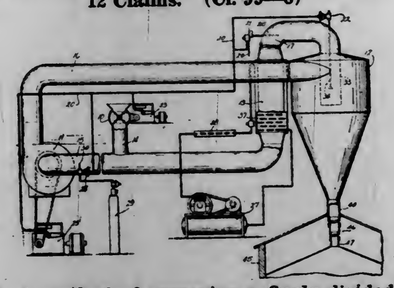
GRANTED MAY 11, 1943

2,318,575
PIPE COUPLING
George E. Armington, South Euclid, and Raymond Q. Armington, Shaker Heights, Ohio, assignors to The Euclid Road Machinery Company, Euclid, Ohio, a corporation of Ohio
Application December 21, 1940, Serial No. 371,193
4 Claims. (Cl. 285—165)



1. In a pipe coupling, inner and outer telescoping tubular members, a deformation in the outer wall of said inner member where it lies within the outer member, a lock ring lying between said members and engaging said deformation, said lock ring having internal dimensions permitting it to pass over the end of said inner member lying in the outer member, said lock ring also being adapted to be slipped on the end of said inner member and past said deformation, a packing nut embracing said inner member and having threaded engagement with said outer member for drawing said nut toward said lock ring, and an annular ring of compressible sealing material snugly fitting between said members and compressed between said nut and said lock ring, said inner tubular member being free to slide relative to said outer tubular member in member-separating direction, whereby said lock ring will compress said sealing material.

2,318,576
ART OF PRESERVING ELEMENTS OF ORGANIC MATERIALS
Gerald D. Arnold, Wauwatosa, Wis.
Application October 19, 1940, Serial No. 361,807
12 Claims. (Cl. 99—8)



1. A method of preparing a finely divided organic material for storage, consisting in commingling the material with a stream of relatively cool non-oxidizing fluid and maintaining the stream in continuous circulation from the point of commingling to a point of separation, introducing inert gas into the stream to replace air introduced therein with the material and regulating both the rate of material feed into the stream and the rate at which inert gas is introduced into the stream in a predetermined correspondence with temperature changes of the stream at a point remote from the point of material introduction, and separating the material from the stream and from the inert gas which is not intersticially contained by the material.

2,318,577
NITROGUANIDINE
Kenneth D. Ashley, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application June 27, 1941, Serial No. 400,128
1 Claim. (Cl. 260—564)

A continuous process for preparing finely divided nitroguanidine which comprises preparing an initial 4 to 7.5% aqueous solution of nitroguanidine at 90° to 100° C., spraying this solution in the form of minute drops into a chamber, passing a countercurrent of air at room temperature and atmospheric pressure through the chamber to cool the sprayed solution by evaporation of water from the surface of the drops and by their concentration to a point of supersaturation at which incipient precipitation of nitroguanidine crystals is effected, preventing further and excessive growth of the precipitated crystals in the sprayed drops by washing down the latter with a dilute solution of nitroguanidine, collecting the crystalline nitroguanidine by filtration, recycling a portion of the filtrate to form the initial aqueous solution and the remainder of the filtrate to serve as the dilute solution of nitroguanidine for washing down the crystals in the sprayed drops.

2,318,578
METHOD OF PREPARING POLISHING MATERIAL FOR TUMBLING BARRELS
William G. Balz, Kalamazoo, and Leo Richard Davidson, Sturgis, Mich.; said William G. Balz assignor to Louise M. Balz, Kalamazoo, Mich.
No Drawing. Application April 19, 1940, Serial No. 330,468
1 Claim. (Cl. 51—293)

The method of finishing including the step of tumbling work in a mixture including an abrasive, an emulsifiable oil, and fragments of limestone of widely varying irregular outline and sizes having the sharp point and edges thereof previously removed without destroying the shape thereof, and having substantially smooth surfaces.

2,318,579
TUMBLING MATERIAL FOR POLISH FINISHING METAL ARTICLES AND METHOD
William G. Balz, Kalamazoo, and Leo Richard Davidson, Sturgis, Mich.; said William G. Balz assignor to Louise M. Balz, Kalamazoo, Mich.
No Drawing. Application June 22, 1940, Serial No. 341,968
5 Claims. (Cl. 51—282)

1. A tumbling material for polishing metal articles comprising irregular fragments of crushed limestone of a plurality of sizes and shapes and roughly of the order of one-eighth inch to one and a half inches in longer dimensions, steel balls, and soap and water, the fragments of limestone and the steel balls being in approximately the proportion of two-thirds crushed limestone

and one-third steel balls and the water and soap being of such proportion as to provide a substantial flooding volume of soapy water.

2,318,580
METHOD AND MATERIAL FOR POLISHING METAL ARTICLES
William G. Balz, Kalamazoo, and Leo Richard Davidson, Sturgis, Mich.; said William G. Balz assignor to Louise M. Balz, Kalamazoo, Mich.
No Drawing. Application October 20, 1941, Serial No. 415,774
6 Claims. (Cl. 51—282)

2. The method of finishing including the steps of tumbling the work in a mixture including water and an abrasive, and such quantity of irregular fragments of fractured granite of widely varying shapes and sizes as will submerge the work with the work and the granite fragments freely movable relative to each other while being tumbled, the granite fragments having the sharp points and angles thereof previously removed, washing to remove the abrasive, and thereafter further finishing the work by tumbling the same in a mixture including such quantity of irregular fragments of fractured limestone of varying shapes and sizes and having the corners and angles thereof previously removed and having smooth surfaces, and steel balls approximating one-half the weight of the limestone fragments and a soapy solution, the mixture being of such quantity as will submerge the work, and with the limestone fragments and steel balls freely movable relative to each other.

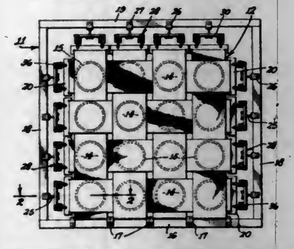
2,318,581
MATERIALS FOR USE IN TUMBLING BARREL POLISHING AND FINISHING AND METHOD OF PRODUCING SAME
William G. Balz, Kalamazoo, and Leo Richard Davidson, Sturgis, Mich.; said William G. Balz assignor to Louise M. Balz, Kalamazoo, Mich.
No Drawing. Application October 20, 1941, Serial No. 415,828
4 Claims. (Cl. 51—164.5)

1. The method of treating limestone fragments of widely varying irregular outlines and widely varying sizes which are in substantially the condition resulting from the fracturing of the limestone which comprises tumbling such fragments in the presence of an abrasive until the sharp points and edges have been removed therefrom without destroying the irregular outlines thereof, washing the same to remove the abrasive and thereafter subjecting such fragments to tumbling in the presence of an abrasive and an emulsifiable oil until a substantial amount of the oil has been absorbed by the fragments and they have smooth surfaces.

2,318,582
PROCESS OF REFINING HYDROCARBON OILS
Carl William Berger, McPherson, Kans., assignor to Globe Oil and Refining Company, Wichita, Kans., a corporation of Kansas
No Drawing. Application January 28, 1942, Serial No. 428,504
13 Claims. (Cl. 196—30)

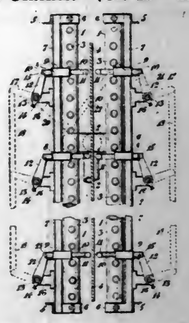
1. A process of refining a hydrocarbon oil which comprises contacting said oil with an alkali metal hydroxide solution having dissolved therein an alkali metal salt of a thio acid of phosphorus.

2,318,583
SUSPENSION UNIT
Samuel S. Bernstein, Los Angeles, Calif.
Application August 11, 1941, Serial No. 406,330
6 Claims. (Cl. 155—179)



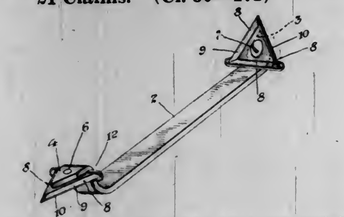
1. In a furniture seat construction or the like, a seat frame; a spring supporting webbing including a plurality of flexible strips; a clamp plate secured at the end of each strip; an anchor member mounted on said frame opposite the end of each strip and extending inwardly of the frame; and a plurality of suspension units connecting said anchor members with the respectively opposite clamp plates at the ends of the strips, said units each comprising a base detachably secured to the anchor member and a pair of spaced helical coil springs mounted on the base and detachably secured to the clamp plate.

2,318,584
APPARATUS FOR TEMPERING FLAT GLASS
George William Terence Bird, Prescot, England, assignor to The American Securit Company, Wilmington, Del., a company of Delaware
Application March 6, 1940, Serial No. 322,598
In Great Britain March 7, 1939
6 Claims. (Cl. 49—45)



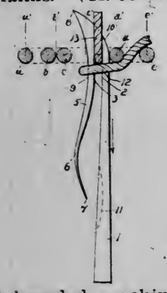
3. Apparatus for cooling a sheet of glass for tempering it, comprising two cooling medium supply frames, in fixed spaced relationship on opposite sides of the sheet of glass, each provided with jet holes adapted to direct cooling medium against the surfaces of the sheet, means for oscillating the two frames relatively to the sheet of glass, two peg frames, connected respectively with the two supply frames, so as to oscillate with them, a plurality of pegs mounted on each peg frame having ends of small cross-section with a capacity for movement relatively to the connected supply frame from a position in which their tips are substantially in the plane of the jet holes into a position in which their tips are close to but out of contact with the glass sheet, means connecting all the pegs of at least one peg frame adapted to effect the said movement of all the pegs on said last-mentioned frame simultaneously, and means for independently adjusting the position of the last-mentioned individual pegs relative to the plane of the jet holes.

2,318,585
SCRAPING TOOL
Alfred W. Abrahamsen, Hempstead, N. Y.
Application March 6, 1939, Serial No. 260,026
21 Claims. (Cl. 30—171)



1. A plaster crack cleaning tool comprising a handle having its end bent at an angle to the handle, a blade secured to the angularly bent end and comprising a back and a triangular-shaped skirt formed at an angle to the back with its free edge ground at an angle to the back, the triangular point of the blade in position for use projecting beyond the handle and substantially coinciding with the lengthwise axis of the bent end of the handle, the area of the back being materially greater than any one side of the triangular skirt whereby the width of each skirt is relatively narrow as compared with its back so that chattering and vibration are prevented.

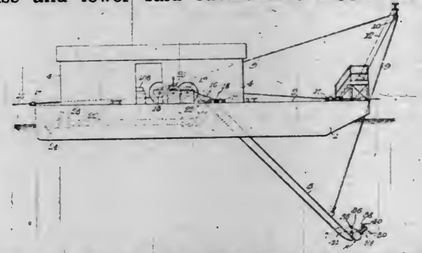
2,318,586
POINTED BEARDED KNITTING MACHINE NEEDLE
Roy C. Amidon, Reading, Pa., assignor to Vanity Fair Mills, Inc., a corporation of Pennsylvania
Application June 25, 1942, Serial No. 448,482
3 Claims. (Cl. 66—119)



1. A pointed bearded machine knitting needle having a throat to receive the thread, the closed end of the throat lying adjacent the penetrating end of the needle, the point of the needle projecting over the beard side of the needle a distance greater than the width of the throat.

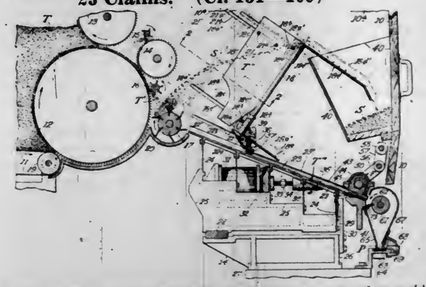
2,318,587
SUBAQUEOUS GRADING APPARATUS
James D. Andrews, Jr., United States Army, San Francisco, Calif.
Application January 3, 1942, Serial No. 425,507
6 Claims. (Cl. 37—78)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A subaqueous grader comprising a vessel, a submersible supply pipe having one end pivoted to said vessel, a header carried by the free end of said submersible member, said header being arranged transversely to said supply pipe, a nozzle pivotally attached to said header, means to raise and lower said submersible supply pipe,



means to adjust said nozzle to a predetermined vertical angle while said submersible supply pipe is in its raised position, means to oscillate said nozzle in a plane parallel to said header while submerged, and means to force fluid from said nozzle.

2,318,588
TOBACCO FEED FOR CIGARETTE MACHINES
Charles Arelt, Richmond Hill, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application May 28, 1937, Serial No. 145,236
23 Claims. (Cl. 131—109)

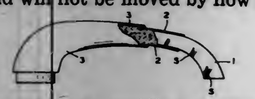


1. In a tobacco feeding device for a cigarette machine provided with spaced sides, a flat corrugated stationary tobacco distributing surface extending across said machine from side to side thereof, means spaced from said surface for projecting a continuous shower of tobacco against said surface, said corrugations preventing lateral movement of said tobacco, a single inclined conveyor of a width corresponding to that of said surface positioned beneath said surface for receiving tobacco in a continuous stream directly from said surface, and means for imparting diagonal vibratory movement to said conveyor to advance said stream as a continuous layer of undiminished width into said machine.

2,318,589
METHOD OF MAKING ARTICLES OF MANUFACTURE
Le Roy T. Barnette, Detroit, Mich., assignor to The Standard Products Company, Port Clinton, Ohio, a corporation of Ohio
Application August 2, 1940, Serial No. 349,671
10 Claims. (Cl. 18—59)

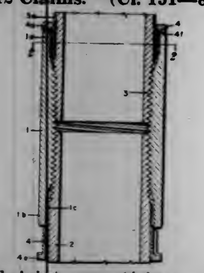
1. In injection molding of thermal-setting or thermoplastic materials of relatively translucent or transparent character over or around bases or cores, the improvement comprising conceal-

ing undesirable surface effects on the base or core surface prior to the molding operation with material which will withstand molding temperatures without substantial change in surface appearance and will not be moved by flow of plastic



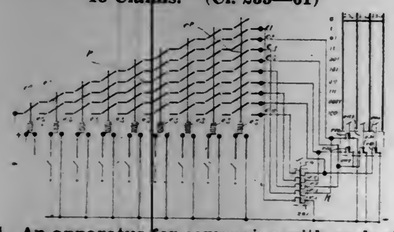
material thereover at molding pressures, then placing the base or core, treated as aforesaid, in a mold and then injecting relatively translucent or transparent material into the mold upon at least a portion of the core.

2,318,590
THREAD LOCK
Alexander Boynton, San Antonio, Tex.
Application November 28, 1938, Serial No. 242,778
12 Claims. (Cl. 151—8)



1. A locked joint comprising an end to end threaded connection between a pair of tubular members, the end of one of the members concentrically surrounding the other of the members, one of the members being reduced in cross section to form a recess therebetween, and arcuate thread lock segments filling said recess and having staggered inwardly and outwardly extending tapered teeth displacing metal from the opposed surfaces and entering the recesses formed thereby.

2,318,591
APPARATUS CALLING FOR A MATERIAL REPRESENTATION OF NUMBERS
Pierre Louis Couffignal, Brest, Finistere, France; vested in the Alien Property Custodian
Application March 26, 1937, Serial No. 133,276
In Belgium March 27, 1936
13 Claims. (Cl. 235—61)

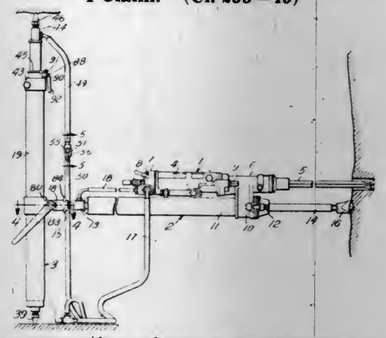


1. An apparatus for comparing with each other two numbers of the binary system, which comprises, in combination, two binary numeral devices including each a plurality of electric circuits, each corresponding to one of a sequence of binary orders, respectively and means for opening or closing said circuits, respectively, according to the representation, in each binary order, of the number to be expressed in the binary system by each of said binary numeral devices, two conductors corresponding each to one of said binary numeral devices respectively, a series of movable contact devices each associated with responsive to the opening and closing of two circuits of the same order of said numeral devices, respectively, and means for feeding electric current to the first of said series of contact devices, said contact devices being so constructed that each of them is adapted to transmit the current from the preceding one to the next one as long as the circuits corresponding to the contact device that is considered are either both open or both closed and to transmit the current to one of said conductors when one of the two last mentioned circuits is closed and the other open.

2,318,592
ELECTRODEPOSITION
Martin E. Cupery, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1940, Serial No. 320,566
4 Claims. (Cl. 204—49)

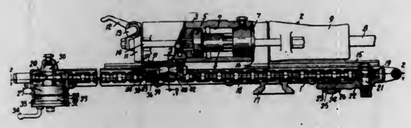
3. In a process for the electrodeposition of a metal selected from the group consisting of nickel, copper, and lead, the step comprising effecting deposition by passing an electric current through an aqueous electrolyte consisting essentially of the metal cation and the anion—$SO_3 \cdot NH_2$.

2,318,593
SUPPORT
John C. Curtis, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application March 23, 1940, Serial No. 325,490
1 Claim. (Cl. 255—45)



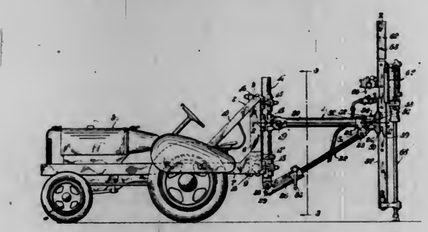
In a supporting column, in combination, a cylinder having a plurality of piston chambers therein, pistons reciprocable in said piston chambers and connected against movement relative to each other, a piston rod attached to one of said pistons and terminating in an abutment engaging point extending beyond one end of said cylinder, an abutment engaging point on the other end of said cylinder, means for supplying pressure fluid to said piston chambers for effecting relative movement of said abutment engaging points firmly into engagement with extraneous abutments, said last mentioned means including passage means extending through said piston rod, and a fluid supply line connected to said piston rod and communicating with said passage means, and means controlled by said pistons for venting pressure fluid from each of said piston chambers on predetermined movement of said abutment engaging points relative to each other.

2,318,594
ROCK DRILL
John C. Curtis, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application May 31, 1940, Serial No. 338,026
13 Claims. (Cl. 255—45)



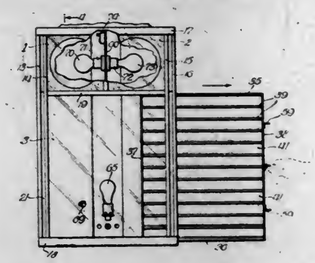
1. In a rock drill, the combination of a guide providing a guideway, a pressure fluid actuated drill motor of the reciprocating piston type slidably mounted on the guideway of said guide, means controlled by vibrations set up within said motor for effecting feed of the latter along said guideway, said motor feed effecting means comprising a flexible control element having parallel strands extending longitudinally of said guide, rotatable members at the ends of said motor guide for guiding said flexible control element, means for rigidly attaching one end of said flexible control element to said drill motor, pressure fluid actuated means carried by said drill motor and attached to the other end of said flexible control element for increasing the tension on the latter, and means for controlling the supply of pressure fluid to said pressure fluid actuated means.

2,318,595
DRILL MOUNTING
John C. Curtis, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application July 5, 1941, Serial No. 401,150
12 Claims. (Cl. 255—51)



1. In combination, in a portable drilling apparatus, an elongated upright pivot member, means for supporting the same for rotation upon an upright axis with the lower end thereof depending in a position spaced from the surface on which said drilling apparatus is supported, a boomlike member connected at one end to said pivot member at a point spaced from either end of the latter and supported by said pivot member for rotation about said upright axis and for pivotal movement on a horizontal axis, a drill guide carried by the other end of said boomlike member, and extensible means pivotally connected to said upright pivot member at the lower end of the latter and to said boomlike member for adjusting the angle of the latter to the vertical and holding the same in different fixed positions.

2,318,596
ELECTRIC SIGN
Frank G. Davenport, Chicago, Ill., assignor to A. C. Davenport and Son, Inc., Chicago, Ill., a corporation of Illinois
Application May 15, 1941, Serial No. 393,520
2 Claims. (Cl. 40—132)



1. In an electric sign, a casing divided into two upper compartments and a lower compartment, a transparent pane of glass closing the front of the lower compartment, a removable display panel located behind said pane and carrying the words of a message, a lamp for illuminating said panel, two glass panes closing the fronts of the two upper compartments and carrying words appropriate to the message on said panel, two lamps located in said two upper compartments, respectively, circuit means for continuously lighting the lamp in the lower compartment to display said message, and means for lighting the other two lamps alternately to display said words and thereby attract attention to said message.

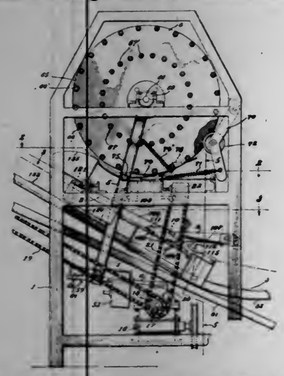
2,318,597
PHOTOGRAPHIC PRINTING MATERIAL
Edward P. Davey and Edward B. Knott, Wealdstone, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 23, 1941, Serial No. 411,977. In Great Britain January 3, 1941
8 Claims. (Cl. 95—7)

1. A photographic printing material comprising a mixture of two silver chloride emulsions at least one of the emulsions containing a sensitizing dye so that the emulsions have different spectral sensitivities, one of the emulsions having a contrast at least 2.5 times greater than that of the other emulsion, the emulsion of lower contrast having a speed to violet light at least twice as great as the speed to violet light of the emulsion of higher contrast, the emulsion of lower contrast containing silver bromide in a concentration equal to not more than about 5 percent by weight of the silver halide in the emulsion of lower contrast.

2,318,598
CASE FILLING MACHINE
Allan C. Davis, Baltimore, Md., assignor to F. A. Davis & Sons, Baltimore, Md., a partnership
Application February 13, 1939, Serial No. 256,068
29 Claims. (Cl. 226—14)

24. In a machine for filling cases with bottles, having a bottle conveyor, a case conveyor below said bottle conveyor and extending at right angles thereto; an oscillatable member pivoted on a horizontal axis vertically spaced from and in substantial vertical alignment with the line along which the bottle conveyor moves, means to oscil-

late said member on its pivot, a bottle engaging element and a case engaging element, both of said elements being directly connected to said



oscillatable pivoted member to be actuated on the same stroke of the latter to respectively move bottles from said bottle conveyor and advance cases on said case conveyor.

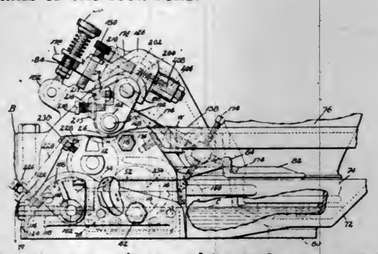
2,318,599
MULTIPLE FIRING X TYPE FOUR CYCLE INTERNAL COMBUSTION ENGINE
Alvin Gilbert Davis, Long Beach, Calif.
Application July 16, 1940, Serial No. 345,779
6 Claims. (Cl. 123—55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An internal combustion engine comprising an eight-throw crank shaft having adjacent throws disposed in planes normal to one another, and having each pair of throws lying in the same plane projecting in opposite directions, four rows of radially disposed, equally spaced, regularly arranged cylinders, each cylinder provided with a slidable piston, the pistons in each pair of opposing cylinders being connected to one of each of said crank throws, and valved fuel admission and ignition means for each of said cylinders, whereby to effect simultaneous firing of one-fourth of the cylinders at 180° intervals.

2,318,600
CEMENTING MACHINE FOR THIN MATERIAL
Paul H. Dixon, Wenham, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application September 11, 1939, Serial No. 294,248
17 Claims. (Cl. 91—50)

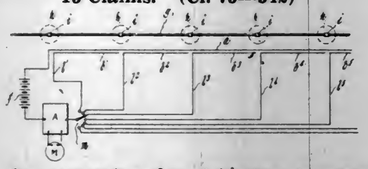
1. A machine for applying cement to sheet material comprising a frame, an applying roll mounted for rotation thereon, a pair of feed rolls, one of which is mounted for rotation on said frame adjacent the applying roll, means for tilting the axis of the upper roll in horizontal and vertical planes to bring the upper roll into parallel alinement with the lower roll, and means for moving the upper roll in an arc about the lower roll to change the angle of the plane passing through the axis of the feed rolls.



11. In a cementing machine, a frame, an applying roll journaled therein, the ends of said roll having conical recesses, baffles between the conical ends of the roll and the bearings, and spiral flanges on said baffles, the edges of the spiral flanges being equidistant from the conical ends of the roll at all points.

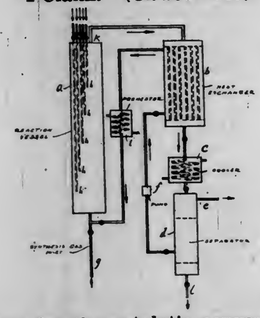
12. In a cementing machine of the kind in which cement is transferred from one to the other of coacting rolls, means at the end of one roll to divert cement from the end of said roll to the peripheral surface of the other roll, said means having an edge a portion of which lies close to the end surface of said one of the rolls and a portion of which conforms to and lies close to the peripheral surface of said other of the rolls at an end thereof, the rotation of said one roll being such that the cement picked up by said first-named portion of said means is delivered successively to said second-named portion and the peripheral surface of said other roll.

2,318,601
ELECTRICAL MEANS FOR INDICATING TEMPERATURE CONDITIONS
Frank C. Doble, Cambridge, Mass., assignor to Doble Engineering Company, Medford, Mass., a corporation of Massachusetts
Application June 22, 1939, Serial No. 280,549
15 Claims. (Cl. 73—342)



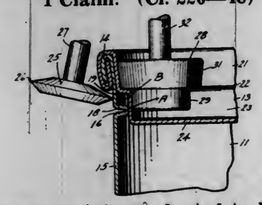
11. An apparatus for detecting temperature conditions affecting electric cables and the like contained in a duct, comprising an elongated conductor extending through the duct and electrically insulated from the conductors of such cable or the like, a number of conductors insulated from the first conductor and from each other located close to the first conductor in series beside different portions of the length thereof, the conductors of said series being insulated from the first named conductor by insulation containing an added medium of suitable character and in suitable quantity to cause measurable changes in the insulating value of such insulation with changes of temperature affecting the insulation, a switch having isolated contacts in electrical connection exclusively with the several conductors of the said series of conductors, and a source of electrical potential and an indicator responsive to electric current connected in series with said switch and one of the terminals of the first named conductor.

2,318,602
SYNTHESIS OF HYDROCARBONS
Franz Duftschmid, Heidelberg, and Eduard Linckh and Fritz Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors to Standard Catalytic Company, a corporation of Delaware
Application June 1, 1939, Serial No. 276,856
In Germany June 2, 1938
1 Claim. (Cl. 260—449)



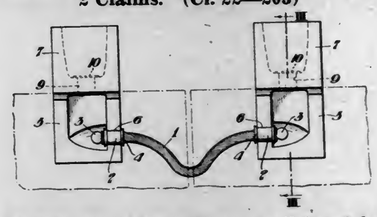
A process for the catalytic conversion of carbon monoxide with hydrogen into hydrocarbons with more than one carbon atom in the molecule in the presence of fixed catalysts, which comprises continuously circulating through the reaction space, co-currently with the reaction gas, a liquid medium preheated to about the desired reaction temperature, injecting into the reaction zone at spaced points along the passage of the said gases additional regulated amounts of the same liquid medium, at temperatures substantially below said reaction temperature so as to maintain the temperature throughout the reaction space within the desired limits, and employing as the said liquid medium an oil obtained by a previous conversion, said oil containing a considerable amount of constituents which are gaseous or vaporous under the reaction conditions.

2,318,603
CONTAINER
George C. Erb, Forest Hills, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 19, 1940, Serial No. 346,420
1 Claim. (Cl. 220—48)



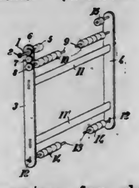
A sanitary container adapted to be opened by a cutting tool without contact with the contents, comprising a body member, a closure member, an end seam uniting said members along their marginal portions, an inwardly formed reinforcing and spacing bead in said body member having close parallel wall parts extending inwardly of and substantially normal to said body member, closely spaced from said seam, said bead extending continuously around said body member, a wall portion of said closure member extending from said seam and adapted to engage said bead throughout its length in a tight frictional contact to form a closed annular space between said members, and a portion of said body member forming a wall enclosing said annular space and adapted to be cut through by said cutting tool, the cutting edge of said tool penetrating into said annular space between said seam and said bead during the opening operation, the bead at such time serving as a support to facilitate the cutting operation.

2,318,604
RAIL BOND
Harold H. Febrey, South Orange, N. J., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application October 17, 1941, Serial No. 415,492
2 Claims. (Cl. 22—203)



2. A method of installing a rail bond by the exothermic welding method, and which is characterized by the steps of applying a terminal to the rail bond conductor strand which provides a projection beyond the end of said strand, and arranging said terminal respecting the mold into which the exothermic welding metal is cast so that said metal is cast around said projection, the latter being in the form of a thin tongue arranged in a vertical plane so as not to interfere with the natural flow of said metal and which curves inwardly toward the axis of said strand.

2,318,605
APPARATUS FOR DEVELOPING PHOTOGRAPHIC FILMS
Emil Fess, Dessau, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application July 6, 1939, Serial No. 283,015
In Germany July 7, 1938
4 Claims. (Cl. 271—2.3)



1. In an apparatus for developing photographic films, a driving mechanism having a frame, a driven shaft carried by said frame, a toothed roller for driving said film and connected with said driven shaft for rotation at the same angular velocity as that of said shaft, an idler shaft also carried by said frame and spaced from said driven shaft, said frame having slots in which said idler shaft is movable towards and away from said driven shaft, pinions fastened to the ends of said idler shaft and racks mounted on said frame adjacent said slots, said racks being engaged by said pinions and maintaining said idler shaft parallel to said driven shaft regardless of movement of said idler shaft towards and away from said driven shaft, each of said shafts carrying rollers for guiding the film

around said shafts, the guide rollers on said driven shaft being mounted thereon for rotation therewith until there is a certain amount of friction on their peripheries, said guide rollers having a diameter slightly greater than that of the pitch circle of said toothed roller to compensate for slippage between said driven shaft and guide rollers and to equalize the tension in said film.

2,318,606

CORROSION INHIBITION

Max T. Goebel, Lakewood, Ohio, and Isaac F. Walker, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 31, 1941, Serial No. 404,832
15 Claims. (Cl. 148—6)

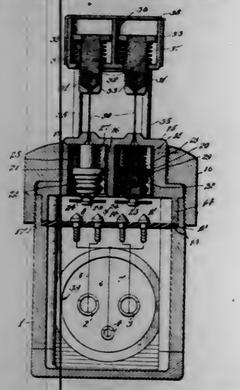
1. The process for the prevention of atmospheric corrosion of metal surfaces capable of corrosion, which comprises treating the said surfaces with a long chain amine salt of ortho-phosphoric acid, said long chain being a hydrocarbon chain.

2,318,607

THERMORESPONSIVE DEVICE

Harry C. Grant, Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey

Application June 29, 1940, Serial No. 343,271
16 Claims. (Cl. 200—142)



1. A thermo-responsive device comprising in combination, electrical current conducting means composed of a plurality of separately additive portions forming an operative unitary whole, electrical circuit contacts associated with each of said portions, means urging said subdivisions into an ultimate desired position with respect to said contacts, and a separate substantially identical thermo-responsive member associated with each of said portions normally restraining said subdivisions from assuming said ultimate position, whereby upon the exposure of said members to predetermined temperature conditions all of said portions assume the desired position with respect to said contacts to complete a desired operative position of said conducting means.

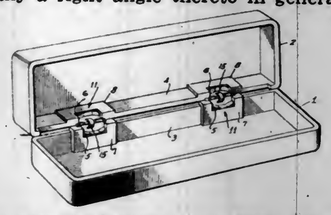
2,318,608

BOX AND HINGE STRUCTURE

Edwin G. Hempel, Cranston, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island

Application May 17, 1939, Serial No. 274,168
4 Claims. (Cl. 217—56)

1. In a hinge structure for a box and a cover having the rear portions of the box proper and the cover provided with corresponding recesses or open pocket portions with upright end walls and extending respectively down upon the rear portion of the box toward the bottom thereof and up upon the rear portion of the cover with the recesses fully open throughout the extent of their respective depth or height, the combination, with a pair of pivotally connected flat leaves individually fitted into and retained in said recesses, of an anchoring portion upon the outer edge of each leaf extending integrally at substantially a right angle thereto in general par-



allelism with the bottom and toward the interior of the box or the top of the cover, as the case may be, and having the ends of each anchoring portion terminating in two oppositely and substantially longitudinally extending wedging lugs for wedging directly against the two opposite upright end walls of the recess involved exteriorly of the leaf proper therein exposed to the interior of the box and cover so as to tend toward being aligned with the remaining portion of the respective anchoring member from which they extend in extreme wedged position of said lugs in order to hold the hinge in assembled relation with the box and cover.

2,318,609

DEGRADATION PRODUCTS CONTAINING CARBOXYL GROUPS FROM COMPOUNDS OF THE OESTRANE SERIES AND A METHOD OF MAKING THE SAME

Walter Hohlweg, Hohen Neuendorf, near Berlin, and Hans Herloff Inhoffen, Berlin-Wilmersdorf, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application December 14, 1938, Serial No. 245,594. In Germany December 18, 1937
17 Claims. (Cl. 260—397.1)

1. Process for the manufacture of degradation products containing carboxyl groups from compounds of the oestrane series, comprising subjecting a 3,17-dihydroxy-dehydro-oestrane compound to the action of an oxidizing agent.

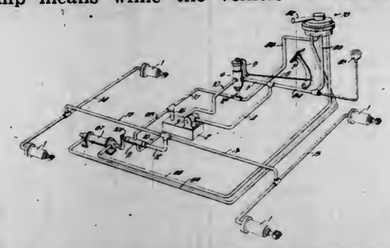
2,318,610

HYDRAULIC SYSTEM FOR MOTOR VEHICLES

Louis C. Hyatt, Albany, and Ernest Heyman, Hampton Manor, N. Y., assignors to Consolidated Car-Heating Company, Inc., Albany, N. Y., a corporation of New York

Application October 10, 1940, Serial No. 360,598
12 Claims. (Cl. 303—6.1)

1. In a hydraulic, control system for a vehicle comprising a door, and brake mechanism for the vehicle wheels, pressure-operated means operatively connected to the brake mechanism of said vehicle and arranged to release the brakes when liquid under pressure is admitted thereto, mechanical means for applying the brakes when the liquid pressure so admitted to said pressure-operated means is reduced, a pipe system having a liquid therein and being operatively connected with said pressure-operated means, said liquid being substantially the sole work-performing medium in said system, pump means in said system adapted to develop and maintain a liquid pressure in said system, means for operating said pump means while the vehicle is stationary,



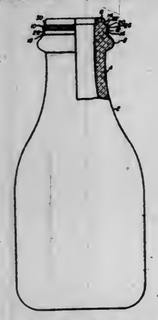
means for controlling the liquid pressure in said pressure-operated means, and means for reducing the liquid pressure in said pressure-operated means when the door of said vehicle has been opened whereby to prevent a release of the brakes if otherwise applied.

2,318,611

CONTROLLED DRIP MILK BOTTLE

Bruce A. Jackson, Oakland, Calif.

Application March 10, 1941, Serial No. 382,528
6 Claims. (Cl. 215—31)



1. A glass milk bottle having a neck, means for controlling drip thereof comprising a continuous shelf formed integral with the neck and having a thickness not exceeding .12" as measured .02" inwardly from the outer periphery of the shelf, said shelf having an upper surface joining an upstanding neck portion subjacent the mouth rim of the neck and a lower surface extending inwardly to the bottle neck and including a portion with a downwardly inwardly slope not exceeding 22 degrees with the horizontal, said portion forming with the lower corner of the shelf edge a line of pouring departure, said lower corner of the shelf edge being substantially horizontal, and a bumper roll integral with said bottle neck and spaced below and from the shelf sufficiently to clear a poured liquid and disposed for protecting the bottle rim and shelf.

2,318,612

WELL SURVEYING DEVICE

Gottdank L. Kothny, Strafford, Pa., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware

Application June 29, 1940, Serial No. 343,183
2 Claims. (Cl. 200—33)

1. An electrical timing means comprising a plurality of chambers, means for controlling flow of electrically conductive liquid from one chamber to another, the latter chamber having internal conductive walls adapted to make electrical contact with said liquid, and electrode means ar-



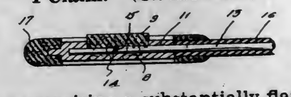
ranged in the latter chamber to be electrically connected by said liquid after occurrence of a predetermined flow, and to be disconnected electrically after occurrence of a further predetermined flow.

2,318,613

TRUSS

Frank B. Lane, Paragould, Ark., assignor to Lifetime Truss Company, Inc., Jonesboro, Ark.

Application June 11, 1941, Serial No. 397,610
1 Claim. (Cl. 128—121)



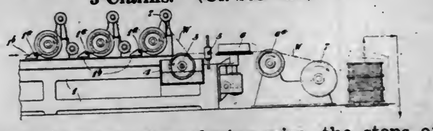
A truss comprising a substantially flat annular pad including a perforated rigid body, a resilient pad member secured at the center to one surface of the body, a resilient pad member secured to the edges of the body, an elongated member having one end freely inserted into the rigid body and projecting from one edge thereof, said member having a notch therein, and a pin anchored in the body and disposed transversely of the member for seating in the notch to prevent removal of the member, said member being disengaged from the notch upon a partial rotary movement of the member.

2,318,614

ART OF PRODUCING WIRE

William E. Leonard, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

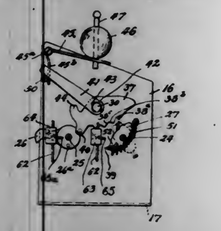
Application June 6, 1940, Serial No. 339,193
3 Claims. (Cl. 205—21)



1. In the art of producing wire, the steps of applying dry drawing lubricant to wire stock, drawing the stock to produce wire with its surface contaminated by the dry drawing lubricant, wetting the wire with a metallic salt to wet the dry drawing lubricant contaminating its surface and to plate its surface with the metal of the salt,

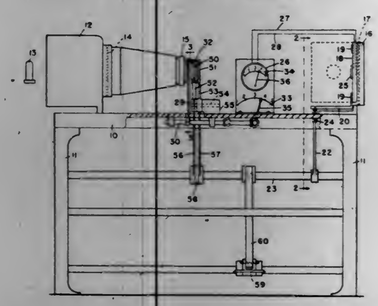
and wet drawing the wire while wetted with the metallic salt to produce wire with its surface clean, the metal plated on the wire's surface and the metallic salt solution serving to lubricate the wire during the wet drawing.

2,318,615
COIN CONTROLLED TIME OPERATED SIGNALING MECHANISM
Charles H. Martin, Springfield, Mass.
Application June 29, 1938, Serial No. 216,609
6 Claims. (Cl. 161—15)



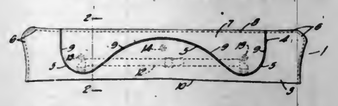
1. An apparatus of the character described, comprising, in combination, a time controlled spring actuated mechanism having a spring winding member, a plurality of coin controlled units, actuating means for said spring winding member common to and operable by said coin controlled units for conditioning the time controlled mechanism for operation, means operable by said coin controlled units for starting the time controlled mechanism, a signal shiftable between signaling and non-signaling positions, and instrumentalities for operatively interconnecting said signal with the actuating means and time controlled mechanism for controlling shifting of the signal incident to the operation of the time controlled mechanism.

2,318,616
LIGHT CONTROL MECHANISM
Alvin L. Mayer, Cincinnati, Ohio, and Hans R. Kossman, New York, N. Y.; said Kossman assignor to said Mayer
Application November 14, 1940, Serial No. 365,677
3 Claims. (Cl. 88—24)



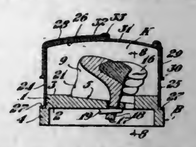
1. In a photographic device, a film support, a paper support, a projection lens between said film support and said paper support, a projection screen normally disposed between said lens and said paper support in parallel adjacency to the plane of the paper supported thereby, a shutter for said lens, light sensitive means disposed on said projection screen in the field of projection of said lens, means for moving said screen and light sensitive means out of the field of projection of said lens, a meter operatively connected to said light sensitive means for visually indicating variations in the intensity of the projected beam on said screen, means for controlling the intensity of said beam and manually operable means for coordinating said last mentioned means relative to said meter indication for standardizing the intensity of the projected beam regardless of the particular density of the particular film being projected, and means interconnected with said screen moving means for closing said shutter incident to movement of said screen from the field of projection then opening said shutter to expose said paper to projection and then closing said shutter incident to movement of said screen back into the field of projection.

2,318,617
GARMENT
Harry Miller, Amsterdam, N. Y.
Application September 12, 1940, Serial No. 356,475
4 Claims. (Cl. 2—98)



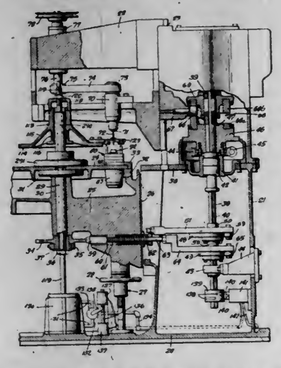
1. In a garment, a collar fastened to said garment and adapted to be overfolded or raised to an upstanding position about the neck of a wearer of said garment, said collar comprising an outer thickness of material, a flap of less length than said outer thickness stitched thereto along the free edge of said collar and being adapted to be folded flat against the inner side of said outer thickness of material whereby to be concealed when the collar is overfolded and to be extended in upstanding position to overlie the ears of the wearer, the ends of said flap being inwardly spaced from the ends of said collar and outer thickness of material, and an inner thickness of material arranged adjacent and underlying the inner side of said outer thickness of material and being substantially coextensive therewith but cut out to lie about and adjacent said flap when said flap lies adjacent said outer thickness; said inner thickness of material being stitched to said outer thickness of material along the ends of said collar and along the free edge of said collar substantially to the flap, and said flap and inner thickness of material being of like thickness whereby to provide a collar of substantially uniform thickness throughout.

2,318,618
RECEPTACLE
Simon Myerson and Martin Myerson, Brookline, and Irvin W. Evans, Newton, Mass.; said Martin Myerson and said Evans assignors to said Simon Myerson
Application May 15, 1940, Serial No. 335,370
10 Claims. (Cl. 206—83)



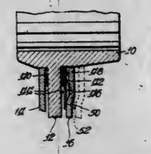
1. A shipping and display receptacle for an arched holder having artificial teeth mounted thereon, said receptacle comprising a substantially rigid base, and a hollow housing of stiff, light weight shape-retaining material removably mounted on the base and cooperating with the latter to provide a substantially dust-proof chamber for the reception and protection of the holder with the teeth mounted thereon, a portion at least of the wall of the housing being transparent, the base being provided with holder-positioning means including a forwardly and downwardly sloping surface engageable with the end portions of the holder and operative so to position the holder relatively to the base that it arches upwardly and tilts forwardly so that the teeth on the holder are disposed at a desirable angle for observation through the transparent wall of the housing, and means including a releasable retaining element engageable with parts of the holder and base, respectively, and operative removably to attach the holder to the base whereby the receptacle may be moved or even inverted without displacing the holder relatively to the base.

2,318,619
MULTIPLE SPINDLE DRILL PRESS
Alfred J. Noel, Stratford, Conn., assignor to The Bodine Corporation, Bridgeport, Conn., a corporation of Connecticut
Application August 1, 1940, Serial No. 349,144
28 Claims. (Cl. 77—24)



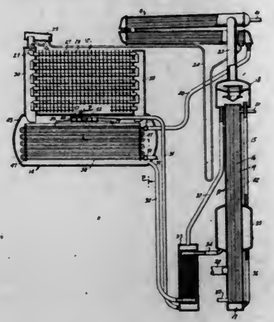
1. In a multiple spindle drill press having a series of tool-carrying spindles, an intermittently operated rotary member; a plurality of work holders carried by said member; intermittent rotation of said member moving said work holders progressively into successive positions opposite said series of tool-carrying spindles; automatic reciprocating means for moving said spindles into position for operation of the tools carried thereby upon the work carried by said work holders after completion of each intermittent rotary movement of said rotary member, and for retracting said spindles prior to the succeeding rotary movement of said member; means for aligning said work holders with said spindles comprising means for engaging said work holders in each of said successive positions and for rigidly retaining them against displacement during said engagement; and automatic means operated in timed relation with said spindle-reciprocating means for moving said aligning means in work-holder-engaging direction in advance of corresponding movement of said spindles in work-engaging direction, said aligning means engaging said work holders during ensuing operation of the tools, and for releasing said work holders from said aligning means after said operation of the tools prior to the succeeding rotary movement of said rotary member.

2,318,620
FRICTION CLUTCH
Harold Nutt, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application January 16, 1942, Serial No. 426,935
7 Claims. (Cl. 192—68)



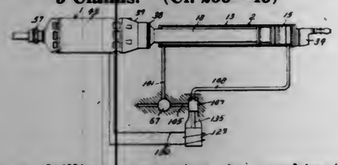
7. In a friction clutch plate, a hub having a radial flange member, an annular member adapted to be associated in torsionally fixed relationship to a friction facing, and torsional vibration dampening means interposed between said members, said dampening means including a friction washer and a Belleville washer spring interposed in series between said members, said washer spring being in direct braking contact with said friction washer and stressed from its normally conical shape capable of having only a circular line contact with said friction washer at one of its edges; to a form in which it has full surface to surface contact with said friction washer, whereby to provide one of the pairs of braking surfaces of said dampening means and at the same time to provide resilient axial pressure for developing the braking action.

2,318,621
REFRIGERATION
William L. O'Brien, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application September 16, 1941, Serial No. 410,965
8 Claims. (Cl. 62—119)



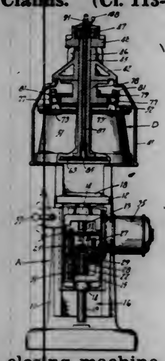
2. Refrigeration apparatus of the absorption type including structure for effecting gas and liquid contact including a plurality of elements disposed one above the other, structure for delivering liquid onto one of said elements to produce and maintain a liquid film on a surface thereof, drop formers at a bottom part of said one element at which regions drops of liquid form and drop onto the next lower element, said drop formers utilizing a layer of surface material shaved from and still a part of said one element, the shaved surface material being shaped to provide said drop formers spaced such a distance apart that spreading of liquid on a surface of the next lower element is promoted.

2,318,622
DRILLING APPARATUS
Win W. Paget, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 5, 1940, Serial No. 368,693
5 Claims. (Cl. 255—45)



1. In a drilling apparatus, in combination, a motor for rotating a drill bit, fluid actuated feeding means for the drill bit, valve means for controlling the flow of fluid under pressure to said feeding means, valve means for controlling the venting of fluid from said feeding means, electromagnetic means varying in strength within certain predetermined limits in accordance with certain load changes on said motor for controlling said first mentioned valve means, and said electromagnetic means increasing in strength over said predetermined limits when said load changes on said motor are exceeded for controlling said second mentioned valve means to effect venting.

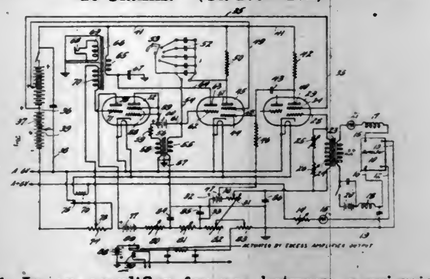
2,318,623
CAN CLOSING MACHINE
Howard B. Peterson, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 9, 1940, Serial No. 334,256
4 Claims. (Cl. 113—24)



1. In a can closing machine, the combination of a rotatable seaming head including a chuck for securing covers to cans to close them, a support movable relative to said head for supporting a can to be closed, a high torque reversible electric motor, gearing directly connecting said motor and said support, means to operate said motor to cause said support to clamp and hold the can against said chuck during the can closing operation so that cans of various heights may be readily closed without adjustment of said support, and means for varying the torque of said motor to obtain a predetermined pressure on the can during the closing operation.

3. In a can closing machine having a rotatable seaming head for securing can covers to cans to close the same and having means for rotating said head, the combination of a support movable relative to said head for holding a can to be closed, means for moving said support toward the head to carry a can of any one of various heights into closing position relative to the head and for holding the can in said position during a can closing cycle, means included in said head and engageable by a can on said support when the latter is in can closing position for actuating said head rotating means, to rotate the head through a can closing cycle to secure a cover to the can, and means for moving said support and the closed can thereon away from said seaming head.

2,318,624
AUTOMATIC VOLUME CONTROL FOR RECORDER AMPLIFIERS
Olive S. Petty and Josephus O. Parr, Jr., San Antonio, Tex.; said Parr assignor to said Petty
Application August 19, 1939, Serial No. 291,080
16 Claims. (Cl. 179—171)



1. In an amplifier for use between a seismic wave detector and a recorder, the combination of a plurality of thermionic tubes, means associating said tubes for cascade seismic frequency amplification, an automatic volume control tube responsive to the output of one of said tubes, means associating said A. V. C. tube with one of said amplifier tubes to control the gain of the latter, and means to prevent blocking of a subsequent tube only in said cascade by the signals flowing thereto, said means being limited to operation when the signals applied thereto exceed a predetermined threshold value.

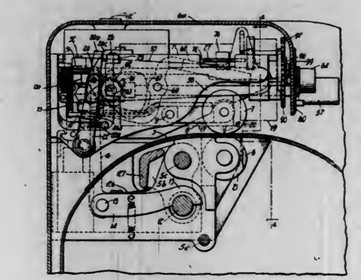
2,318,625
PRODUCTION OF LUBRICATING OILS
Mathias Pier, Heidelberg, and Friedrich Christmann, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application October 6, 1937, Serial No. 167,554.
5 Claims. (Cl. 196—78)

3. Process of producing liquid oils comprising subjecting a straight chain paraffin wax to the action of a halogenating agent under conditions adapted to convert it into halogen derivatives of substantially the same number of carbon atoms, and subjecting the thus treated product to the action of a chemical condensing agent in the presence of a bleaching earth to make high V. I. oils.

2,318,626
PRODUCTION OF PRODUCTS RICH IN UNSATURATED HYDROCARBONS
Mathias Pier, Heidelberg, and Ernst Donath, Mannheim, Germany; vested in the Alien Property Custodian
No Drawing. Application September 24, 1938, Serial No. 231,612. In Germany September 30, 1937
2 Claims. (Cl. 260—449)

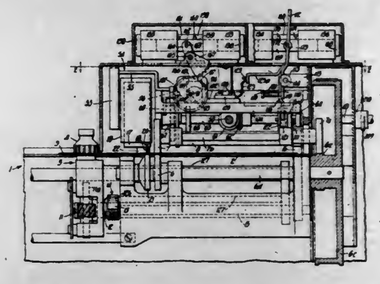
1. In the production of hydrocarbon products by the catalytic conversion of carbon monoxide and hydrogen in which a mixture of carbon monoxide and hydrogen is passed through a reaction chamber containing a catalyst for the said reaction, the improved method for producing a hydrocarbon product rich in unsaturated hydrocarbons, which comprises passing a gas mixture which contains less than 2 parts by volume of hydrogen for each part by volume of carbon monoxide into the inlet end of the reaction chamber, adding further hydrogen to the reaction mixture at spaced points along the reaction chamber in such amounts that there are less than 2 parts by volume of hydrogen for each part by volume of carbon monoxide in every part of the said reaction chamber, the total volume of hydrogen supplied to the chamber being substantially twice the volume of carbon monoxide supplied to the chamber.

2,318,627
SOUND RECORDING AND REPRODUCING
Barton A. Proctor, Larchmont, N. Y., assignor to B. A. Proctor Company, Inc., New York, N. Y., a corporation of New York
Application June 29, 1939, Serial No. 281,811
5 Claims. (Cl. 74—206)



1. In a dictation machine including a record support and a feed wheel for frictionally driving a record, in combination, control means operable step by step to engage the feed wheel with the record and to disengage the feed wheel from the record at alternate steps, and means under the control of the operator for actuating the control means step by step comprising an electromagnet, a cam shaft driven thereby, and electrical circuit means including a pair of parallel conductors through either of which the electromagnet may be energized, a first switch means under the control of the operator for connecting the respective parallel conductors with a source of electrical energy at alternate operations of such switch means, a second switch means for connecting the respective parallel conductors with the electromagnet at alternate operations of the second switch means, and control means for the second switch means operated by the cam shaft at each step of cam shaft advance to disconnect the electromagnet from the parallel conductor which is then connected to the source of electrical energy by the first switch means and to set it in connected relation with the parallel conductor which is not then connected to the source of electrical energy by the first switch means but which will be connected to the source of electrical energy by the next operation of the first switch means operator for energizing the electromagnet, and switch means under the control of the cam shaft for making different portions of said circuit means alternatively operative.

2,318,628
SOUND TRANSLATING MACHINE
Barton A. Proctor, Larchmont, N. Y., assignor to B. A. Proctor Company, Inc., New York, N. Y., a corporation of New York
Application March 19, 1940, Serial No. 324,774
12 Claims. (Cl. 274—12)



11. In a dictation machine which includes a record support, record driving means, a recording unit comprising a recording stylus, and a reproducing unit comprising a reproducing stylus, in combination, means for placing the styluses alternatively in engagement with the record comprising a common operating member for the recording and reproducing units, a reversible motor for driving the operating member in one direction to a recording position and in the other direction to a reproducing position, control circuit means for the motor including a manual control member, automatic circuit control means operated by the operating member to open circuit the motor as the operating member arrives in either recording or reproducing position with the control member in a corresponding circuit making position, and to alter the circuit means so that the control member is required to be operated to the other of its circuit making positions in order to bring about further operation of the operating member, and means actuated by the common operating member for rendering the record driving means ineffective as either stylus is disengaged from the record and for rendering the record driving means effective as either stylus is moved into engagement with the record.

2,318,629
LUBRICATING COMPOSTION
Carl F. Prutton, Cleveland Heights, Ohio, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application March 4, 1938, Serial No. 193,960
28 Claims. (Cl. 252—46)

1. An extreme pressure lubricating composition characterized by having a high film strength at least one and one-half times that of the mineral oil of which it is predominantly composed, comprising a major portion of mineral oil and from an effective amount to 20%, based on the amount of mineral oil, of an organic sulphur compound of the type which when included in the lubricant, will not show a substantial increase in reactivity with iron at temperatures below about 100° C. but will show such an increase in reactivity at temperatures below 250° C.

2,318,630
LUBRICATING COMPOSITION
Carl F. Prutton, Cleveland, Ohio, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application August 8, 1938, Serial No. 223,694
5 Claims. (Cl. 252—45)

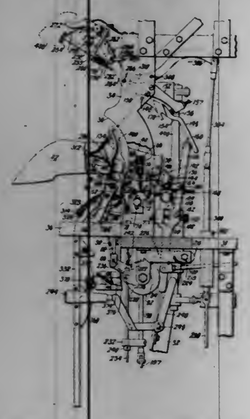
1. An improved lubricating composition comprising a major proportion of mineral lubricating oil the film strength of which is increased by the inclusion therein of a liquid, oil-miscible organic sulphur compound selected from the class consisting of the organic sulphides and organic disulphides.

2,318,631
MASONRY DRILL
Richard H. Quillin, Aberdeen Proving Ground, Md.
Application February 5, 1942, Serial No. 429,691
1 Claim. (Cl. 255—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



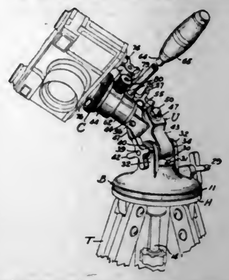
A masonry drill comprising a shank and a tapering body ending in a sharp point, a helical thread on the surface of the tapering body and extending substantially to the end thereof and a narrow parallel sided slot bifurcating the end of the body and extending through two or more of the threads to feed the cutting edges of the slot to their work.

2,318,632
ASSEMBLING MACHINE
Edward Quinn, Saugus, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 6, 1941, Serial No. 413,750
In Great Britain May 17, 1941
97 Claims. (Cl. 12—1)



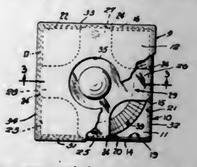
1. In a machine for assembling uppers and counters, means for supporting an upper in a predetermined heightwise position and a counter carrier operable to advance the counter from a loading station in which the counter extends forwardly from the carrier through a path confined to a plane common to the longitudinal median line of the supported upper and into predetermined heightwise relation to the upper.

2,318,633
INSTRUMENT MOUNTING DEVICE
Park J. Ries, Los Angeles, Calif.
Application August 13, 1940, Serial No. 352,369
9 Claims. (Cl. 248—183)



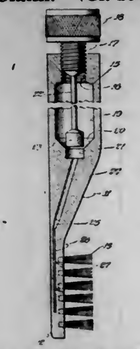
6. An instrument mounting device comprising: a base member composed of two sections one of which is adapted to be secured to a support and is provided with a post; the other section having a hub receiving the post and a recess rotatably receiving a portion of said one of the sections for co-action therewith in providing annular bearing shoulders between the sections; means yieldingly securing the sections together and maintaining said bearing shoulders in frictional contact for relative rotation of the sections; means for securing the sections against relative rotation; a connector adapted to be secured to an instrument; means mounting said connector on said other section of the base member for adjustment to occupy various tilted positions and including a socket in which said connector can be rotatably mounted; means for confining the connector against axial displacement from the socket while leaving the connector free for rotation in the socket; and means by which the connector can be secured in the socket against rotation.

2,318,634
FLY TRAP
David H. Robinot, New York, and Alex Weil, Jamaica, N. Y.
Application April 26, 1941, Serial No. 390,460
14 Claims. (Cl. 43—114)



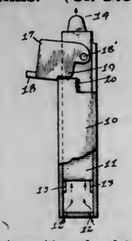
1. A fly-trap comprising a casing having opposed top and bottom walls, and side walls, with a substantially centrally positioned opening in said top wall for the passage into the interior of the casing of insects and of light, a baffle member within said casing and extending crosswise thereof and spaced intermediate of said top wall and bottom wall and presenting a substantially central area thereof below said opening for receiving light entering the case through said opening and other portions thereof below those parts of the top wall that extend about said opening, said other portions being shielded by said parts of said top wall against material illumination thereof, whereby said central area receives maximum light through said opening and said other portions of said baffle member are in contrast to said central area relatively dark, said central area of maximum light of said baffle member having the characteristic of transmitting light therethrough and said other portions thereof that are relatively dark having means forming a passage for insects to the space between said baffle member and said bottom wall, whereby said passage-forming means are located in a region relatively dark as compared to the light intensity of said central area, said central area of said baffle member, due to its light-transmitting characteristic and due to light it receives through said opening, acting by way of the contrast to the dark region of said passage-forming means to attract insects within said last-mentioned space away from said passage.

2,318,635
FOUNTAIN TOOTHBRUSH
Fred Salinger, Chicago, Ill.
Application December 19, 1940, Serial No. 370,864
1 Claim. (Cl. 15—137)



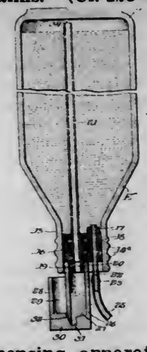
In a fountain tooth brush having a hollow handle containing a dentifrice reservoir and a delivery duct to the brush head, a tapped and relatively wide inlet passage in the rear end of the handle, a cup-shaped reduction of the front end of the reservoir communicating with said delivery duct, and a control for said reservoir comprising a screw shank threaded in said passage, an external finger knob for said screw shank, a relatively-thin rod integral with and extending forwardly from the screw shank into the reservoir space, and a head carried by the forward end of the rod and adapted to seat in said reduction as a shut-off for said duct when the knob is turned to advance the screw shank, the unscrewing of the screw shank from said rear end enabling said control to be removed as a unit and afford a spacious filler opening into the reservoir by way of said passage.

2,318,636
APPARATUS FOR SWEETENING BREATH
Louis W. Schaaff, Elmhurst, N. Y.
Application June 27, 1938, Serial No. 216,018
12 Claims. (Cl. 128—201)



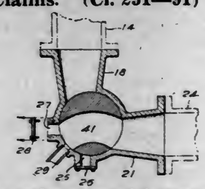
6. A device for treating bad breath which comprises an outer casing open at one end, an inner casing slidable within the outer casing and providing at one end a mouth piece having a discharge opening, a cover means on one of said casings, the other end of the inner casing and the related end of the outer casing having air inlet openings, means cooperating with the cover and one of the casings to move the inner casing partly out of the outer casing when the cover is moved to uncover the discharge opening, and a relatively large area carrier within the inner casing impregnated with an aromatic material of low volatility.

2,318,637
LIQUID DISPENSING DEVICE
Martin C. Schwab, Chicago, Ill.
Application August 23, 1938, Serial No. 226,269
10 Claims. (Cl. 128—214)



1. Liquid dispensing apparatus comprising a container housing liquid to be dispensed and operable upon inversion, a stopper disposed in the neck of said container, a plurality of bores extending vertically through said stopper, a liquid dispensing tube removably inserted in one of said bores, an air inlet tube removably inserted in another of said bores and extending farther into said container than said liquid dispensing tube, and an air washing assembly removably secured to and depending from said stopper outside of said container and communicating with said air inlet tube, said assembly comprising an air washing chamber and an overflow chamber open to the atmosphere and connected to said air washing chamber, said air washing chamber being adapted to receive and retain a portion of the liquid to be dispensed upon inversion of the container, said liquid portion serving as a washing medium for the incoming air.

2,318,638
VALVE
Charles H. Scott, Westport, Conn., assignor to The Dorr Company, Inc., New York, N. Y., a corporation of Delaware
Application March 10, 1942, Serial No. 434,053
6 Claims. (Cl. 251—91)



6. A plug type valve comprising a valve housing

having an inlet connection and an outlet connection disposed at an angle with respect to each other, and having clean-out opening means outside said angle and substantially opposite to said inlet and outlet connections, a rotatable plug operatively seated in said valve housing and having a transverse port, and being turnable to normally open and close the valve, and also turnable to one clean-out position whereby one end of said port registers with said clean-out opening means and the other end of the port registers with said inlet connection, said plug being furthermore turnable to another clean-out position whereby one end of the port registers with said clean-out opening means and the other end of the port registers with said outlet connection, said clean-out opening means together with each of said inlet and outlet connections at a time constituting a passage, one connection being open while the other connection is closed by said plug.

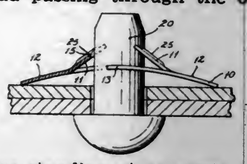
2,318,639
SMOKING PIPE
Lewis R. Sibert, Kansas City, Mo.
Application August 26, 1941, Serial No. 408,378
3 Claims. (Cl. 131—211)



1. A smoking pipe comprising a bowl in which the tobacco is burned, said bowl having a depressed smoke passage, a relatively large diameter stem projecting from one side of said bowl, the interior of said stem providing substantial space between its top wall and its bottom wall with a portion of said bottom wall substantially on a level with said smoke passage, a saliva cup within said stem with its top closed by the top wall of the stem and with its bottom substantially spaced above the bottom wall of the stem, said stem tapering to a bit accommodating terminal, a bit inserted in said terminal, a tube projecting from the forward end of said bit and communicating with the bore of the bit, said tube projecting through the interior of said stem and into said saliva cup, and means providing smoke transit from the interior of the stem into the upper part of said saliva cup and into said tube, said means comprising a second and larger diameter tube spacedly surrounding the first tube, said second tube having a forward portion inserted through an opening formed in the side wall of said saliva cup and said first tube having an enlarged head inserted in said forward portion and formed with a smoke duct establishing limited communication between the interior of said saliva cup and the interior of said second tube, said second tube being formed with a relatively large downwardly facing opening communicating with the interior of the stem.

2,318,640
SPRING FASTENER
Oliver E. Simmonds, London, England, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application June 18, 1940, Serial No. 341,197
In Great Britain September 7, 1939
4 Claims. (Cl. 85—36)

4. A fastener comprising a sheet metal plate bowed upwardly in the mid-region so that such mid-region is higher than the ends of the plate, an opening through the plate in the mid-region, and longitudinal corrugations made by bending the plate upwardly to produce opposed trough-like portions having their ends in position to engage a stud passing through the opening, the



corrugations standing at an acute angle to the plane against which the fastener rests, whereby the movement of said mid-region of the fastener toward said plane causes the ends of the corrugations to bite increasingly into the stud.

2,318,641
FERMENTATION PROCESS FOR THE PRODUCTION OF 5-KETOGLUCONIC ACID
Joseph J. Stubbs, Washington, D. C., and Lewis B. Lockwood, Alexandria, and Edward T. Roe and George E. Ward, Arlington, Va., assignors to Henry A. Wallace, as Secretary of Agriculture of the United States of America, and his successors in office
No Drawing. Application July 8, 1940, Serial No. 344,381
4 Claims. (Cl. 195—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

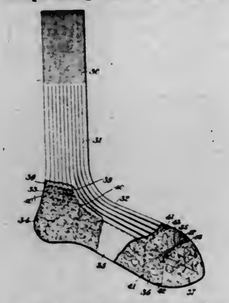
4. A process for the production of 5-ketogluconic acid, which comprises inoculating a nutrient solution containing a gluconate salt with bacteria of the genus Acetobacter; thence aerating and agitating the inoculated mass, the while maintaining the same under superatmospheric pressure of gases containing substantial quantities of oxygen, and cultivating the bacteria in a submerged state thereby producing 5-ketogluconic acid.

2,318,642
COATED METAL ARTICLE AND METHOD OF MAKING SAME
John S. Thompson, Detroit, Mich., assignor to Parker Rust Proof Company, Wayne County, Mich.
No Drawing. Application April 25, 1941, Serial No. 390,337
38 Claims. (Cl. 148—6.5)

1. An article of metal selected from the class consisting of iron, steel and zinc and having formed thereon a thin continuous adherent protective and bonding coating composed essentially of an oxide of the metal and of an oxide of another metal below magnesium and above hydrogen in the electromotive series, said coating being formed by reaction of the metal of the article with an acidulous aqueous solution of an oxidizing agent for said metal and a salt of said other metal, and having a siccative coating covering said coating formed by reaction of the metal.

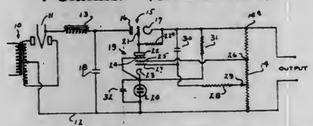
2,318,643
ARTICLE OF HOSIERY, INCLUDING TERRY FABRIC
Paul L. Thurston, Martinsburg, W. Va., assignor to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey
Application January 17, 1942, Serial No. 427,124
7 Claims. (Cl. 66—178)

1. An article of hosiery comprising leg and instep portions formed of inwardly facing stitches and outwardly facing stitches and an integral sole portion comprising thread knit to form the



base of the fabric and additional thread forming terry loops providing a soft cushioning surface for said sole portion.

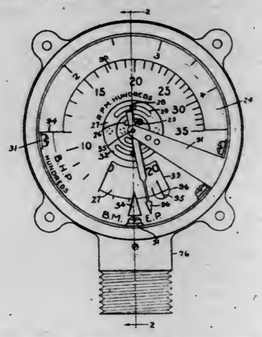
2,318,644
VOLTAGE REGULATION AND SUPPLY
Ernest A. Tubbs, Long Island City, N. Y., assignor to National Television and Manufacturing Corporation, a corporation of Delaware
Application December 24, 1938, Serial No. 247,721
7 Claims. (Cl. 171—312)



1. A voltage regulating system comprising, in combination, a rectified supply circuit, an electronic relay having a cathode, an anode, and a control electrode, and having a variable resistance space path connected in series in the current supply path, means for controlling the resistance of said path in a manner to maintain a substantially constant output voltage, said means comprising a circuit having a pair of branches across said supply circuit, one branch having therein a portion having different impedances for direct and alternating current, the other branch having in parallel with a portion thereof, a resistance and condenser in series, the values of said resistance and condenser being such that the impedance of said condenser is low relative to said resistance at low frequencies, a second electronic relay having a cathode, an anode and a control electrode, said cathode being connected to an intermediate point in the first branch, and the control electrode being connected between said resistance and condenser in said second branch, and a connection between said anode and the control electrode of the first relay.

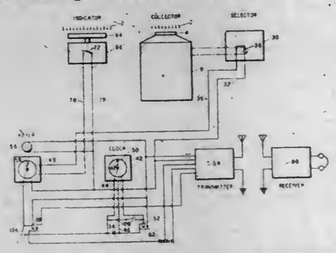
2,318,645
HORSEPOWER METER
Cloyd D. Waldron, Newport News, and Robert F. Selden, Hampton, Va.
Application June 25, 1940, Serial No. 342,310
2 Claims. (Cl. 265—26)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A horsepower meter comprising a rotatable dial having graduations thereon indicating horsepower; non-circular intermeshing gears for rotating said dial; means responsive to the torque of the engine for rotating said gears, the curvature of said gears being such as to rotate said dial with a motion proportional to the logarithm of the torque being transmitted; a pointer cooperating with the graduations on said dial; non-circular intermeshing gears for rotating said pointer in a direction opposite to that of said dial; means responsive to the speed of the engine for rotating said last mentioned gears, the



curvature of said last mentioned gears being such as to rotate said pointer with a motion proportional to the logarithm of the rotative speed of the engine, means for adjusting the degree of angular travel of said rotatable dial in accordance with the torque developed by the engine, and a lost motion connection between said speed responsive means and said pointer for delaying the movement of the latter during low engine speeds.

2,318,646
TELEMETRIC SYSTEM
Jud E. White, Knoxville, Tenn.
Application August 1, 1940, Serial No. 349,360
2 Claims. (Cl. 177—380)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A telemetric system for measuring and transmitting measurements and phase of material which may be collected in more than one phase, having in combination (*a*) circuit elements forming a plurality of mensuration circuits adapted to be opened and closed by a rotatable member, (*b*) means for moving said member in accordance with the fluctuation of a variable quantity of said material, (*c*) circuit elements forming a phase circuit adapted to be opened and closed by a contact member which is responsive to a change in phase of said material, (*d*) means for energizing said circuits, (*e*) means for transmitting a radio frequency signal, (*f*) means energized by said mensuration circuits for periodically modifying the transmitted radio frequency signal to indicate the value of the variable quantity, and (*g*) means energized by said phase circuit for periodically

modifying the transmitted radio frequency signal to indicate the phase of the body of the material producing the variable quantity.

2,318,647
CONNECTING SLEEVE
Jesse M. White, Philadelphia, Pa., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application April 2, 1938, Serial No. 199,579
19 Claims. (Cl. 173—328)



10. A connector including, a single piece housing of insulating material having an opening therein, a lug within the opening including a pair of spaced apart shoulders, an insert insertable into the opening and disposed substantially entirely within the confines of the opening, said insert having spaced apart individual means for receiving conductors, notches provided in said insert between said conductor receiving means receiving said lug, and said insert having a pair of spaced apart independently operable yieldable projections engaging the said shoulders for holding the insert in place.

2,318,648
CONNECTOR
Charles S. Penfold, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application January 30, 1939, Serial No. 253,698
32 Claims. (Cl. 173—328)



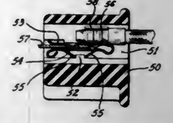
21. An electrical connector including, an outer body of insulating material having an opening therein, said body having abutment means therewithin, an insert part arranged in said opening having means to which a plug conductor may be connected, said means consisting of a split receptacle having a pair of spreadable portions between which the plug conductor is adapted to be inserted and resiliently held by said spreadable portions, said insert also having a generally tubular conductor receiving means spaced from said spreadable portions, stop means provided adjacent said conductor receiving means and extending outwardly with reference thereto engaging one side of the abutment means for holding the insert part against movement in one direction in said body, and each of the spreadable portions of said insert also having a yieldable tongue portion spaced longitudinally within the opening from said stop means and extending laterally with reference to the remainder of each spreadable portion engaging the other side of said abutment means for holding the insert part against movement in the opposite direction in said body, said yieldable tongue portions being adapted to yield when passing over the abutment means and snap into engagement with said other side of said abutment means when the insert part is projected into the opening, and said stop means and said tongue portions straddling portions of the material between said abutment means.

2,318,649
ELECTRICAL CONNECTION MEANS
Charles S. Penfold, Bronson, Mich., assignor to H. A. Douglas Manufacturing Co., Bronson, Mich., a corporation of Michigan
Application March 29, 1939, Serial No. 264,830
16 Claims. (Cl. 173—328)



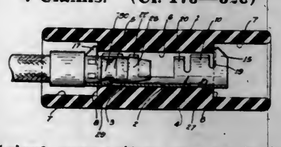
8. In an electrical connector for association with a pair of terminals, the combination of an outer body having a bore extending therethrough, said body having a holding part extending radially into said bore intermediate the ends thereof and defining axially spaced shoulders, a contact of split tubular form received in said bore, said contact having a plurality of bendable fingers arranged in axially spaced relation adjacent the respectively opposite meeting edges of said contact, certain of said fingers being disposed to interlock behind said shoulders to hold said contact in place within said body, and others of said fingers being disposed to yieldingly engage said terminals when the latter are projected into said contact.

2,318,650
ELECTRICAL CONNECTION MEANS
Charles S. Penfold, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application April 1, 1940, Serial No. 327,143
5 Claims. (Cl. 173—328)



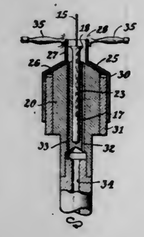
1. Electrical connection means including, a substantially U-shaped elongated terminal receptacle, a generally tubular receptacle, integrally connected to one of the legs of said U-shaped receptacle, means projecting into one of said receptacles from said one leg providing a detent for a terminal, and oppositely disposed resilient tongues provided on the other leg of said U-shaped receptacle for locking said connection means with respect to a support.

2,318,651
ELECTRICAL CONNECTION MEANS
Charles S. Penfold, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application October 11, 1941, Serial No. 414,572
7 Claims. (Cl. 173—328)



1. Electrical connection means including, an insulator having a hole therein, a lug on the insulator projecting into the hole, insert means insertable into either end of the hole and disposed in the hole providing means to which a conductor may be secured, said insert means being provided with a pair of longitudinally extending yieldable portions projecting at an angle with reference to the axis of the member cooperating with and pressing against one side of said lug, and a pair of similar portions cooperating with the other side of said lug for holding the insulator and insert means assembled.

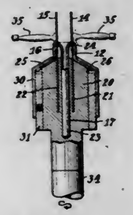
2,318,652
MAKING LAMP STEMS
Charles Wiener, Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 30, 1938, Serial No. 248,418
2 Claims. (Cl. 49—78)



1. The method of making a stem for a lamp comprising disposing a vitreous flare tube having a frusto-conical portion and a generally cylindrical collar portion around a vertically disposed vitreous exhaust tube having its upper end portion open and flared, with the frusto-conical portion of the flare tube encircling an intermediate portion of said exhaust tube and the generally cylindrical collar portion extending above the upper flared end portion of said exhaust tube, disposing lead-in conductor means between said collar and flared portions, applying heat adjacent the upper edge of said collar portion sufficient only to draw said upper edge portion inwardly and unite it by fusion with said open flared end portion of said exhaust tube, to form a seal, and rounding and thinning the fused vitreous seal between said portions by applying fluid pressure between said exhaust tube and collar, whereby the junction therebetween is thinned to approximately the normal thickness of the parts.

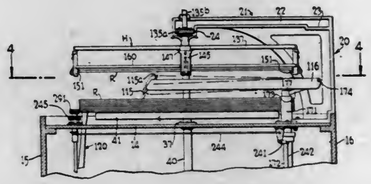
2,318,653
DISCHARGE LAMP AND STEM THEREFOR
Charles Wiener, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application December 30, 1938, Serial No. 248,418. Divided and this application June 30, 1942, Serial No. 449,059
5 Claims. (Cl. 250—27.5)

1. A stem for a lamp comprising a frusto-conical glass element from the inner peripheral portion of which extends a substantially cylindrical portion, a glass exhaust tube portion disposed within said substantially cylindrical portion, an arched annular glass portion uniting the corresponding end portions of said substantially cylindrical and exhaust tube portions, and lead conductor means disposed in the annular space between said substantially cylindrical and glass tube portions and passing through said annular



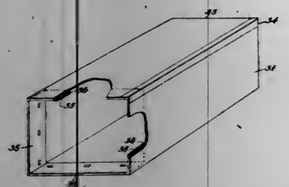
glass portion, the thickness of said glass being substantially uniform throughout said stem.

2,318,654
AUTOMATIC PHONOGRAPH
Benjamin F. Wissner, New York, N. Y.
Application May 9, 1941, Serial No. 392,740
23 Claims. (Cl. 274—10)



14. An automatic phonograph of the character described comprising a vertical shaft, a turntable mounted thereon and keyed thereto, said turntable being adapted to carry a stack of records, a holder mounted on said shaft and keyed thereto, and disposed above the turntable, means for repeatedly lifting the turntable a predetermined distance from initial position and lowering the same on said shaft, means on the holder to take off the topmost record on the turntable each time the turntable is lifted, and means for alternatingly rotating said shaft in opposite directions after each lifting and lowering movement of the turntable, an arm carrying a downwardly pointing playing needle and an upwardly pointing playing needle, means to move the arm into position for the downwardly pointing needle to engage the outer groove of the upper side of the topmost record on the turntable to play said side of said record while the turntable is in lowered position, and to then move said arm up to disengage said needle from said record after said record has been played, and then to move said arm to one side beyond said records to permit said turntable to be lifted, and to then move said arm to a position for the upwardly pointing needle to engage the underside of said record after it is taken off the turntable by the taking off means of the holder to play the underside of said record, and then to lower said arm to disengage said upwardly pointing needle from said underside of said record, and then to move said arm to one side beyond said records, and then to lower said arm and again position said arm to bring the downwardly pointing needle into the outer groove of the upper side of the then topmost record on the turntable to play said side thereof, and to repeat said movements of said arm in phase with the lifting and lowering means and with the rotating means.

2,318,655
CONTAINER
Philip Zalkind, New York, N. Y.
Original application September 21, 1933, Serial No. 690,360, now Patent No. 2,118,011, dated May 17, 1938, which is a division of application Serial No. 631,682, September 3, 1932, now Patent No. 1,946,516, dated February 13, 1934. Divided and this application December 14, 1937, Serial No. 179,765. Renewed November 3, 1938
3 Claims. (Cl. 229—37)



1. In a file case, a shell of fiber board, said shell having its top, bottom and side members extended and folded in to provide reinforcements for the front end thereof, the folded portions of the top and bottom members fitting between those of the side members and being of sufficient thickness to lock the side folds in place.

2,318,656
COATED METAL ARTICLE AND METHOD OF MAKING SAME
John S. Thompson, Detroit, Mich., assignor to Parker Rust Proof Company, Wayne County, Mich.
No Drawing. Original application April 25, 1941, Serial No. 390,337. Divided and this application September 14, 1942, Serial No. 458,333
13 Claims. (Cl. 148—6)

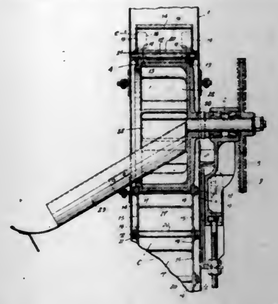
1. An article with a surface containing zinc carrying a chemically bound coating which is predominantly oxide and contains zinc oxide, and which also contains hexavalent chromium.

2,318,657
DEPOSITED LATEX ARTICLE
Robert Oliff Alexander, Pawtucket, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 30, 1940, Serial No. 363,545
8 Claims. (Cl. 117—139)

1. The method of increasing the tensile strength of a vulcanized, deposited latex article which comprises soaking a vulcanized, deposited latex article for at least a half hour in a liquid bath consisting of an alcohol from the group consisting of mono- and di-hydric alcohols having not more than six carbon atoms, removing said article, and drying the same.

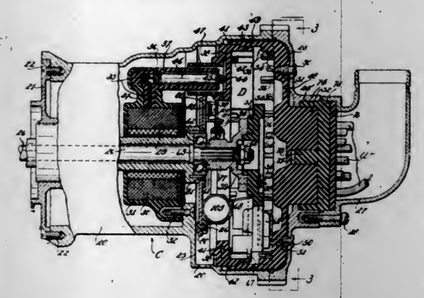
2,318,658
BUCKET CONVEYER
John M. Alvey, Glendale, Mo., assignor to Alvey Conveyor Manufacturing Co., St. Louis, Mo., a corporation of Missouri
Application September 8, 1941, Serial No. 409,945
6 Claims. (Cl. 198—142)

1. A bucket conveyer comprising hollow cylindrical sprocket drums that are closed at one end and open at the other end, supporting shafts for the respective drums located at the closed ends only thereof substantially entirely clear of the interior thereof, said drums having circumferentially spaced longitudinal grooves in their peripheral surfaces and plain radial openings through their cylindrical walls alternating with said grooves, and an endless sprocket chain com-



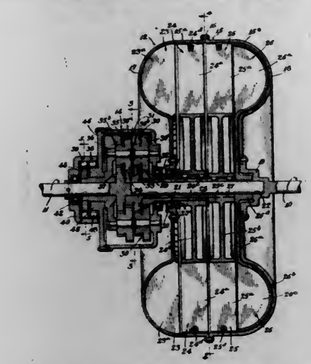
prising buckets and pins directly connecting adjacent buckets and adapted for operative engagement with the longitudinal peripheral grooves in said drums, said buckets opening on the inside of said chain and being adapted to register with and cover the radial openings therein.

2,318,659
DISTRIBUTOR
Robert V. Atwood, Springfield, and Sidney K. Smart, Longmeadow, Mass., assignors to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts
Application May 13, 1942, Serial No. 442,842
8 Claims. (Cl. 200—21)



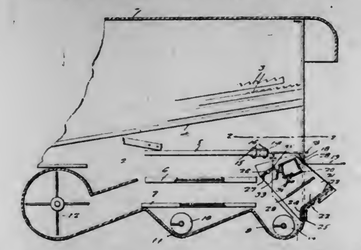
1. A distributor, comprising, a casing, a shaft mounted therein, a first circular series of contacts mounted in said casing in coaxial relation with said shaft and located between two parallel planes transverse to the axis of said shaft, a second circular series of contacts also mounted in said casing in coaxial relation with said shaft and located between two other parallel planes transverse to said shaft and spaced axially from the first-named planes, an electrical connection between all the contacts of the first series and adapted for connection to a source of supply of electricity, connections for spark plug wires leading one from each contact of the second series, a rotor arm fixed to said shaft, an electrical connector fixed to and insulated from one end of said arm and adapted intermittently to connect contacts of the first series one at a time to contacts of the second series.

2,318,660
AUTOMATIC HYDRAULIC TRANSMISSION
Edward L. Barrett, La Grange, Ill., assignor to Barrett Engineering Company, Chicago, Ill., a corporation of Illinois
Application October 2, 1940, Serial No. 359,303
3 Claims. (Cl. 74—189.5)



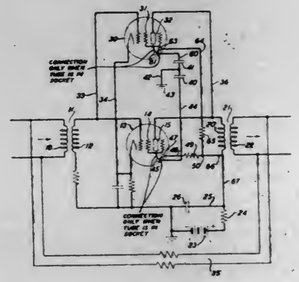
1. A variable speed transmission of the hydrodynamic type comprising, in combination with revoluble driving and driven members, a rotatable fluid impeller connected to said driving member for rotation thereby, a series of fluid-impelled driven units disposed for rotation coaxially with said impeller, a torque multiplication gear train having a plurality of relatively rotatable gear elements and in which the overall torque multiplication of the gearing is dependent upon the relative speeds of rotation of the elements of the train, means connecting said driven units to successive elements of said train, a fluid-tight casing enclosing said impeller and said driven units, said impeller and said driven units having means thereon cooperating as an incident to rotation of said impeller for establishing a sequential hydrodynamic coupling between said impeller and successive ones of said units, one after another, to effect rotation of the units at speeds relative to each other and to said impeller proportional to the ratio of torque load on said driven member to torque input on said driving member, and means for connecting said driven member in driven relation with the last one of the series of said driven units.

2,318,661
THRESHING MACHINE
Raymond T. Beckmann, Kiel, Wis., assignor of one-half to Roland E. Beckmann, Kiel, Wis.
Application August 13, 1942, Serial No. 454,714
5 Claims. (Cl. 130—27)



1. In a thresher, the combination with a housing having an open rear end, a horizontal chaffer spaced inwardly from said end, a tailings trough at the bottom and rear end of said housing, and a cleaner fan for directing an air blast upwardly and rearwardly relative to said chaffer and out of said end, of a tailings rake extending rearwardly from said chaffer out of said rear end, and having an intermediate downwardly and rearwardly inclined drop extending across the housing, and means in said housing forming with said drop a passageway for grain to drop through protected from said air blast to find its way to said trough.

2,318,662
VACUUM TUBE AMPLIFYING APPARATUS
Charles H. Bidwell, Riverdale, and Paul V. Koos, Manhasset, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 17, 1941, Serial No. 411,100
7 Claims. (Cl. 179—171)

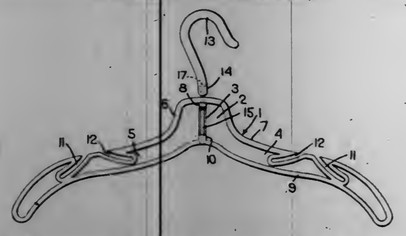


1. In combination in electrical apparatus, a pair of vacuum tubes, circuit means to connect said tubes in parallel such that only one tube is normally in circuit, each tube embodying a screen grid and an anode, a source of direct potential included in said circuit means to energize said anodes, and means responsive to said source and said tubes during the insertion of a second tube in circuit and the withdrawal of the one tube therefrom to apply varying amounts of potential to the screen grids of the individual tubes.

2,318,663
COMPOSITION AND METHOD FOR TREATING BOILER WATER TO PREVENT CAUSTIC EMBRITTLEMENT
Paul G. Bird, Western Springs, and Wilson Evans, Hinsdale, Ill., and Carlyle Harmon and Jörgen Richter Salvesen, Wausau, Wis., assignors to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin, and National Aluminate Corporation, Chicago, Ill., a corporation of Delaware, jointly
No Drawing. Application March 4, 1941, Serial No. 381,762
13 Claims. (Cl. 210—23)

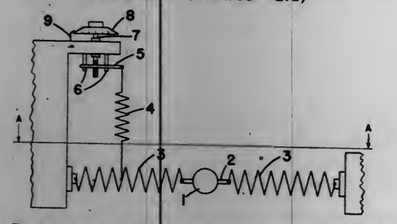
1. The method of treating boiler water used in steam boilers which comprises adding to the normal feed water containing caustic alkalinity producing compounds a mixture of a sulphite selected from the group consisting of alkali and alkaline earth metal sulphites and a colloidal sulphonated organic compound selected from the group consisting of alkali and alkaline earth lignin sulphonates and sulphite cellulose liquors in sufficient proportions to inhibit caustic embrittlement and thereafter introducing the water in a boiler.

2,318,664
GARMENT HANGER HAVING SUSPENSION MEMBERS OF PLASTIC MATERIAL
John Bolten, Andover, Mass., and Henry Spitz, Great Neck, N. Y.
Application February 3, 1942, Serial No. 429,392
4 Claims. (Cl. 223—92)



1. A garment hanger comprising a body having outwardly and downwardly curved arms extending in opposite directions from the central portion thereof and a hook-shaped suspension member of substantially circular cross section formed of rigid thermoplastic material having a straight lower end portion in substantial alinement with the center of the hookedly curved portion, a straight metal rod of relatively smaller diameter than that of said suspension member having a deformed end portion firmly embedded in said straight lower portion of the hook member, and means securing said shank vertically to said central portion of the body to permit rotation of said shank about its axis but to prevent withdrawal of the shank from the body or other longitudinal displacement of said shank.

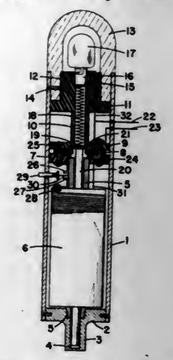
2,318,665
MEASURING DEVICE
Frank G. Boucher, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 7, 1941, Serial No. 377,817
4 Claims. (Cl. 265—1.4)



1. In a system for measuring a force acting torsionally on a helical torsion spring having an anchored end and an end subjected to said force, means for applying to a turn of said spring at a point closer to the anchored end than to the other end thereof a second force in opposition to said first mentioned force and means to indicate a value proportional to the amount of said second mentioned force.

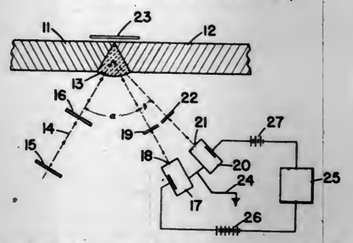
2,318,666
MAGNETIC PERMEABILITY INDICATOR
William A. Bruce, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 12, 1940, Serial No. 365,175
1 Claim. (Cl. 175—183)

A hand device for testing welds comprising a pair of concentric tubular members, a head on said members having a metal surface adapted to be placed against the weld to be tested, a well in said head member in alignment with said inner tubular member, a soft iron core slidably mounted in said inner tubular member and extending into said well, a spring normally holding the end of



said core spaced from the end of said well, a coil for magnetizing said core arranged around said inner tubular member, a signaling means arranged in said casing, an electrical circuit for operating said means and a switch in said circuit adapted to be operated by movement of said magnetic element into said well.

2,318,667
METHOD FOR TESTING WELD JOINTS
William A. Bruce, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 23, 1942, Serial No. 432,033
2 Claims. (Cl. 250—83.6)

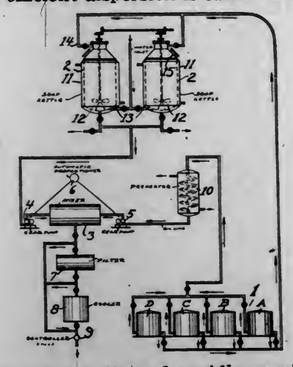


1. In the cooling of a weld joint the steps of exposing said joint to a beam of X-rays while the metal is still substantially at welding temperatures, cooling the joint while observing the shift in the first order reflection of the X-rays as the metal changes from an austenite to a pearlite condition, and quenching the joint when the change is substantially complete.

2,318,668
GREASE MANUFACTURE
Austin E. Calkins, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 24, 1940, Serial No. 342,081
14 Claims. (Cl. 252—39)

1. Continuous process of grease making which comprises continuously mixing together proportioned amounts of heated preformed soap stock and a heated oil in a high-speed mixer in which the soap stock and oil are brought into contact with each other in a hightly turbulent zone;

whereby efficient dispersion is obtained by means



of the shearing action of rapidly moving parts.

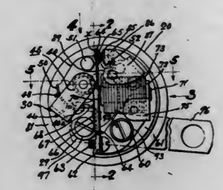
2,318,669
METHOD FOR OXIDIZING WAX
Donald E. Carr, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application April 8, 1940
Serial No. 328,509
7 Claims. (Cl. 260—78)

1. A process for producing rubber-like materials from waxes which comprises partially oxidizing said wax with an oxygen-containing gas at a temperature of approximately 250–350° F. for a period of time sufficient to produce a mixture of unoxidized wax and hydroxy and fatty acids having an acid number of approximately 100, extracting said partially oxidized wax with a solvent adapted to dissolve said unoxidized wax and fatty acids but to leave hydroxy acids as an undissolved fraction, separating the solution of solvent, unoxidized wax and fatty acids from the undissolved hydroxy acids, separating fatty acids from said solution, commingling said fatty acids with said hydroxy acids and oxidizing said mixture at an elevated temperature of approximately 500° F. until said mixture assumes rubber-like characteristics.

2,318,670
METHOD FOR MAKING COMPOSITE MATERIALS
Thomas F. Carruthers, South Charleston, and William N. Stoops, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application May 21, 1940,
Serial No. 336,356
17 Claims. (Cl. 28—75)

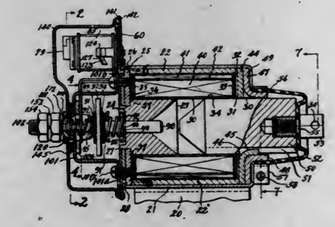
1. In the process of making composite textile materials having good shape retention, crease resistance and strength, wherein vinyl resin fibers are combined with other textile fibers, the steps which comprise mixing the vinyl resin fibers with said other fibers while the former contain an at least partially water-soluble vinyl resin plasticizer, in amount sufficient to lower the fusion temperature of the vinyl resin fibers, heating the mixed fibers to a temperature at which said vinyl resin fibers are at least partially fused but insufficient to injure the other fibers thereby imparting crease resistance and crease permanence to the resultant composite textile material, and then washing the mixed fibers in water to remove a substantial proportion of the said plasticizer contained in the vinyl resin fibers, thereby raising the fusion temperature of the vinyl resin fibers in said composite textile material.

2,318,671
ELECTRIC SWITCH
Edward M. Claytor, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 2, 1941, Serial No. 386,493
11 Claims. (Cl. 200—87)



1. An electric switch having a magnetizable resilient armature blade carrying a contact, a stationary contact engaged thereby and connected with a terminal, means for controlling the position of the blade with respect to its contact making-and-breaking status, and electromagnetic means for retaining the blade in contact making position and including a magnet coil, a core, a magnetizable bracket supporting the core and one end of the armature blade; and a flux carrying block attached to the armature near its fixed end and on the side thereof remote from the core, thus permitting the armature blade to seal against the pole face of the core so as to produce a wiping action between the contacts and bend beyond the block when the magnet coil is energized.

2,318,672
SOLENOID SWITCH
Edward M. Claytor and John Edward Antonidis, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 26, 1941, Serial No. 420,600
1 Claim. (Cl. 200—111)



A solenoid switch comprising the combination of a solenoid sub-assembly, a movable contact sub-assembly, a fixed contact sub-assembly, a plate and a housing attached to the plate and cooperating therewith to enclose the contacts; said solenoid sub-assembly including magnet windings, a magnetizable enclosure therefor having an end wall, providing a surface for receiving one side of the plate, a centrally apertured magnetizable core located within the enclosure and

supported by the end wall, and a magnetizable armature movable relative to the core and supported by the enclosure; the movable contact sub-assembly including an endwise movable rod extending through the aperture of the magnet core and a movable contact insulatingly supported thereby; said fixed contact sub-assembly comprising a bracket having mounting parts located against the side of the plate remote from the solenoid end wall and fixed contacts providing terminals insulatingly supported thereby; common means for securing the bracket and the plate to the solenoid end wall; a spring located between the bracket and the movable contact sub-assembly to maintain the movable contact normally spaced from the fixed contacts; said plate extending beyond the periphery of the solenoid enclosure; terminals for the solenoid magnet windings insulatingly supported by the plate exterior to the housing; said housing having apertures clearing the terminals of the fixed contacts; and means within the housing for making electrical connections between the windings and their terminals.

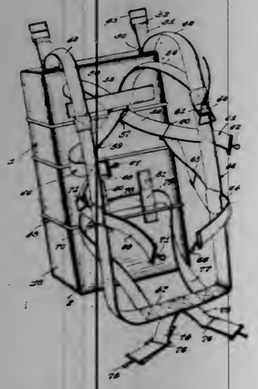
2,318,673

PARACHUTE HARNESS AND PACK

George Gusters Coleman, Greenville, Miss., assignor to Zeppo Parachute Attachment Company, a corporation of Mississippi

Application April 9, 1941, Serial No. 387,725

6 Claims. (Cl. 244—148)



1. In a parachute harness and container, a harness having a body strap provided with shoulder portions, a strap connected between the container and the body strap and being shiftable with respect to the container for automatically adjusting the harness to fit about the body of an aviator, and an adjusting loop adjustably connecting said strap with the container.

2,318,674

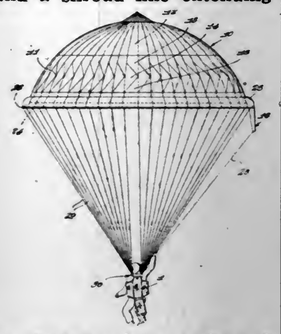
PARACHUTE

George Gusters Coleman, Greenville, Miss., assignor to Zeppo Parachute Attachment Company, a corporation of Mississippi

Application April 9, 1941, Serial No. 387,726

6 Claims. (Cl. 244—142)

1. A parachute including a body, a tail carried by the body and having a flap, shroud lines connecting the body with a harness and pack assembly, and a shroud line extending from the



flap for manipulation by an aviator for steering the parachute during descent thereof.

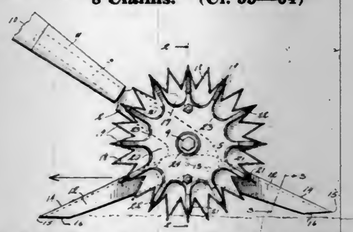
2,318,675

STRAWBERRY RUNNER CUTTER

Henry A. Congdon, Kingston, R. I.

Application December 17, 1940, Serial No. 370,551

8 Claims. (Cl. 55—64)



1. A cutting device of the character described, comprising a frame, a handle attached to the frame, a cutting blade fixed to the frame and adapted, in the use of the implement, to have an inclined relation to the surface of the ground with its cutting edge directed upwardly, a cutting disk rotatably mounted upon the frame at one side of the blade and having radially directed pointed cutting teeth the side edges of which cooperate with the cutting edge of the blade, and ground penetrating traction means disposed at a side of the cutting disk in the circular area of the disk between the points of the teeth and the gullets thereof for engagement with the earth to impart rotary movement to the cutting blade when the implement is moved over the ground.

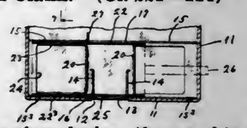
2,318,676

DISPENSING DEVICE

Benjamin Deland, Cleveland, Ohio

Application October 24, 1941, Serial No. 416,363

1 Claim. (Cl. 221—114)



In a dispensing device, the combination of a container having a delivery opening, in the bottom thereof, a casing arranged in said container over said opening in the bottom of the container, a measuring chamber formed in said casing, said measuring chamber having an inlet port communicating with the interior of the container, a valve slidable through the measuring chamber and having inlet and outlet ports adapted to register with the inlet and outlet ports of the casing, respectively, as the valve is shifted from one operative position to the other operative position, a plate hinged to the underside of the bottom of the container and arranged to close the delivery opening in the bottom of the container when swung up against the bottom of the container and form a delivery chute when swung down, said plate carrying means adapted to engage the valve when the plate is swung up and lock the valve against movement.

2,318,677

WAR BOND CREDIT RATION WALLET WITH ENVELOPES

Louis E. Delson, Chicago, Ill.

Application August 12, 1942, Serial No. 454,508

3 Claims. (Cl. 129—15)



3. The combination of a wallet and envelopes carried therein, all of proper shape and size for storing war bonds in said envelopes, said wallet consisting of a substantially rectangular sheet of material folded over and providing front and rear parts which are integral at one end part and which include cooperating means for detachably closing the other end part, the sides of the wallet being open, the wallet and the envelopes being provided each with a pair of notches on the edge parts and positioned to bring all the pairs of notches in register, and fastening means including a band and an element securing one end thereof onto the wallet and positioned to engage in all of said notches and wound around the wallet and have its outer part engaged onto said element, thereby securing the envelopes with their contents firmly in the wallet and preventing any movement of the envelopes longitudinally of the wallet even tho said detachable end closing means is open or inoperative.

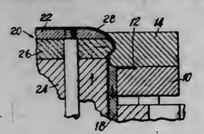
2,318,678

METHOD OF SHAPING SHOE UPPERS

Paul H. Dixon, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Original application October 18, 1940, Serial No. 361,733. Divided and this application April 2, 1941, Serial No. 386,396

5 Claims. (Cl. 12—142)



1. That method of making prewelt shoes which comprises initially molding the forepart of an upper off the last including inwardly flanging the lasting margin, attaching a welt to the lasting margin of the premolded upper, mounting the welted upper upon a last, completing the shaping of the upper, and bottoming the shoe.

2,318,679

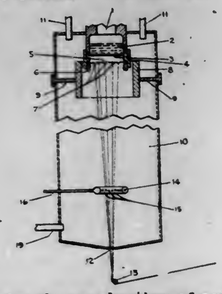
PRODUCTION OF ARTIFICIAL FILAMENTS, FILMS, AND LIKE MATERIALS

Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

Application July 18, 1941, Serial No. 402,941

In Great Britain August 5, 1940

4 Claims. (Cl. 18—54)



1. Process for the production of artificial textile and like shaped materials, which comprises shaping a fused composition comprising a synthetic thermoplastic fibre- or film-forming polyamide, which in the absence of other agents requires a temperature of the order of at least 200° C. for shaping in the molten condition, and a solvent medium therefor in such proportions that the composition is fusible at a temperature which does not substantially exceed 100° C., but is solid at temperatures up to 35° C., the said shaped composition being introduced directly from a shaping device into an inert atmosphere maintained at a temperature of the order of that of the shaped composition, and, after a short period of travel therein and while still in said inert atmosphere, subjected to the action of an inert liquid medium maintained at a temperature at least 50° C. below that of the shaped materials at the time when they encounter it.

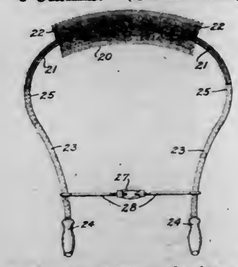
2,318,680

BACK SCRUBBING BRUSH

Flora H. Ellinger, Chicago, Ill.

Application January 26, 1942, Serial No. 428,255

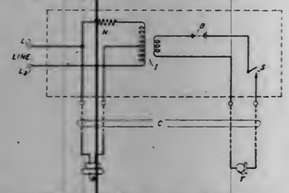
6 Claims. (Cl. 15—222)



1. In a back scrubbing device, an elongated brush rigidly connected at its opposite ends to a pair of relatively rigid but resilient arms, each arm being permanently bowed outwardly away from the adjoining brush end immediately adjacent thereto and then being directed inwardly toward the other arm and having its free end per-

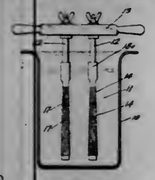
manently bent to an oblique angle with respect to the common plane of the brush and arms, and a rigid handle firmly secured to the obliquely extending portion of each arm.

2,318,681
TELEPHONE SET
Frank Fairley, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 14, 1941, Serial No. 383,401
In Great Britain April 5, 1940
8 Claims. (Cl. 179—81)



1. An amplifier unit comprising a container, an electromechanical amplifier comprising a receiver element and a microphone element, a first and a second transformer, a primary winding of one transformer being connected to terminals on the container and a secondary winding of said one transformer being connected to said receiver element, a winding of the second transformer being connected to terminals on said container, and another winding of said second transformer being connected to a series circuit including said microphone element, means for adjusting current flow through said microphone element, two pairs of additional terminals on said container and direct circuit connections between said pairs of additional terminals.

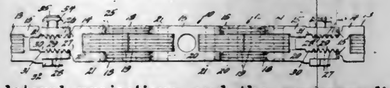
2,318,682
HANDLE GRIP
Thomas L. Fawick, Akron, Ohio
Application July 11, 1940, Serial No. 344,931
1 Claim. (Cl. 273—81)



A seamless tubular handle-grip member composed at least chiefly of a substance having substantially the resilient deformability of fully vulcanized soft rubber and having its wall flared outward toward an open end thereof for facility of application of the member to a handle.

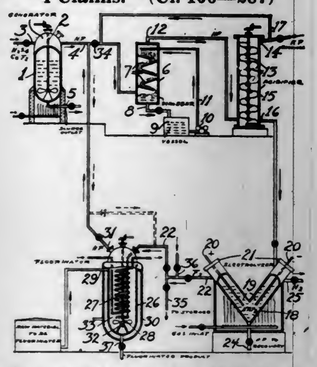
2,318,683
TRACTION DEVICE
Camille P. Galanot, Alliance, Ohio, and James A. Watson, Jr., Silver Spring, Md., assignors to themselves and Charles L. Galanot, Alliance, Ohio, and Harold F. Watson, Silver Spring, Md., as trustees
Application August 20, 1941, Serial No. 407,634
5 Claims. (Cl. 305—10)

1. Connecting means for the sections of sectional belts, comprising complementary connecting elements at the respective ends of each section, each said element having lateral projections for tension-transmitting engagement with mating recesses of the complementary connecting element of the adjacent section, and means for securing the connecting elements of adjacent sections in interlocking relation, one of



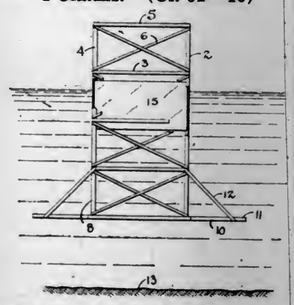
said lateral projections and the corresponding recess of a mating pair of elements being given a complementary form differing from that of the remaining projections and recesses, whereby said mating pair may only be assembled in one predetermined relation.

2,318,684
IMPREGNATING AND PLASTICIZING COMPOSITION
Peter J. Gaylor, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Original application January 11, 1934, Serial No. 706,230. Divided and this application July 1, 1939, Serial No. 282,409
4 Claims. (Cl. 106—287)



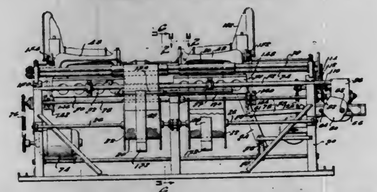
1. An impregnating and plasticizing composition comprising a fluorinated organic compound boiling above 400° F., in which the fluorinated organic compound contains from 5 to 60% of fluorine.

2,318,685
PORTABLE MARINE FOUNDATION
Henry Emmett Gross, College Station, Tex.
Application November 16, 1939, Serial No. 304,646
4 Claims. (Cl. 61—46)



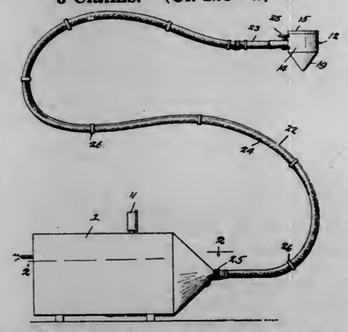
1. A portable marine foundation including a framework, a footing thereon to support said framework, a pontoon within said framework, and hydraulically operable means to pump liquid or fluid into and out of said pontoon so as to move said pontoon upwardly relative to the framework so as to float the framework or to deposit it as a foundation, said framework comprising detachable section having legs to serve as a trackway for said pontoon.

2,318,686
POCKET-SEWING MACHINE
Hubert B. Hathaway, Windsor, Ontario, Canada, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich., a corporation of Michigan
Application April 11, 1940, Serial No. 329,025
1 Claim. (Cl. 112—2)



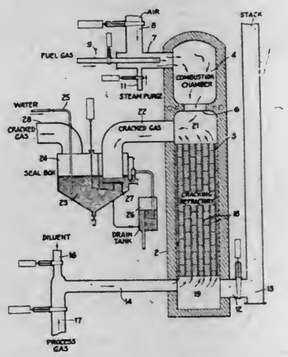
In a machine to sew fabric material, a working surface adapted to receive the fabric material, a sewing head including a sewing needle movable across the working surface, a driving shaft, means driven by the driving shaft to move the sewing head across the fabric material, ratchet worm gear driving means driven by the driving shaft to move the sewing head relative to the fabric when the sewing needle is out of engagement with the fabric material, and intermittent motion mechanism including segmental gear drive means to move the fabric material a substantially predetermined distance relative to the sewing head each time the sewing head approaches one extreme position in its movement across the working surface.

2,318,687
MEANS FOR DETERMINING THE SEX OF CHICKS
Jerry F. Hamlin, Medford, Oreg.
Application January 7, 1941, Serial No. 373,515
3 Claims. (Cl. 128—2)



1. In a device for determining the sex of chickens, a head having an opening so dimensioned and shaped as to be applicable, for suction purposes, to the anal vent of a chicken, the head having means for connecting it with a suction source, and means carried by the head for illuminating so much of the anus of a chicken as can be seen within the boundary of the opening.

2,318,688
REGENERATIVE FURNACE FOR MANUFACTURE OF ACETYLENE BY PYROLYSIS
Rudolph Leonard Hasche and William B. Hincke, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 18, 1941, Serial No. 411,418
6 Claims. (Cl. 23—277)



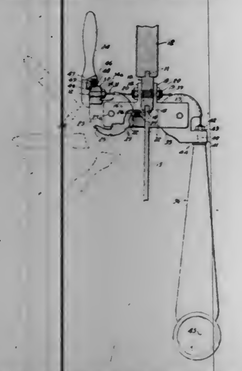
1. An apparatus for use in carrying out high temperature pyrolysis processes above 1200° C. which comprises a housing, a plurality of silicon carbide refractory members not greater than one and one-half inches thick positioned within the housing to form a plurality of elongated slot passageways ¼ to ⅜ inch thick, approximately 7½ to 30 feet long and several feet wide, the ratio of the area, on a cross-section through the apparatus, of slot to area of refractory being between 1:3 to 1:4, the ratio of the surface of any one of the passageways expressed in square feet to the volume of the passageway expressed in cubic feet being greater than 30, and conduits for feeding the materials to be pyrolyzed and for withdrawing the products formed, associated with the apparatus.

2,318,689
TRACING GAS THROUGH UNDERGROUND FORMATIONS
Louis R. Hodell and John J. Heigl, Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 27, 1941, Serial No. 424,614
1 Claim. (Cl. 166—21)



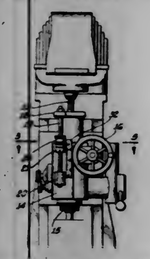
In the process of producing fluids from an underground reservoir, the steps of injecting a gas into the reservoir at a plurality of points, adding a different gaseous tracing agent to the gas injected at each separate point, producing the reservoir from a plurality of points substantial distances from the points of injecting gas in said reservoir, and analyzing the production for the presence of each of said tracing agents.

2,318,690
TRAFFIC SIGNAL FOR MOTOR VEHICLES
Shelley B. Humphrey, Huntington Park, Calif.
Application December 19, 1941, Serial No. 423,671
8 Claims. (Cl. 116—52)



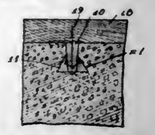
1. In a signal structure of the kind described, a mounting strip supportable in a window opening of an automobile, a pair of brackets, said brackets abutting against opposite sides of said strip, a tubular bolt extending through said strip and through a portion of each of said brackets, means cooperating with said bolt to secure said brackets to said strip, an operating lever mounted on the bracket which is located at the inner side of the car window to swing in two different planes applies traction to said shaft and thereby mounted on the bracket which is on the outer side of the car window and a flexible shaft extending through said tubular bolt, said shaft operatively connecting said lever and arm whereby swinging said lever in one of the aforesaid planes applies traction to said shaft and thereby swings said arm laterally, and swinging said lever in the other of the aforesaid planes acts tortionally upon said shaft and thereby turns axially said arm about its longitudinal axis.

2,318,691
MICROMETER STOP
Leo Benjamin Huthsing, Los Angeles, Calif., assignor to Machinery Manufacturing Co., Los Angeles, Calif., a corporation of California
Application March 2, 1942, Serial No. 433,015
10 Claims. (Cl. 77—33)



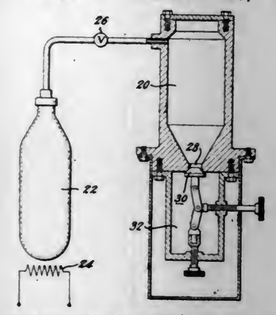
5. In a micrometer stop, a screw, a nut on the screw, an externally grooved abutment fitting within a portion of the nut, and an expansion spring fitting within the groove frictionally engaging the interior of the nut enabling the nut and spring to turn relative to the abutment while retaining the abutment and nut in firm engagement longitudinally of the screw.

2,318,692
ANCHOR GROOVE FORMING DEVICE FOR CONCRETE STRUCTURES
William C. Johnson, Winterset, Iowa
Application February 27, 1942, Serial No. 432,592
3 Claims. (Cl. 25—131)



1. An anchor groove forming device for concrete walls, comprising a central strip member, a strip member at each side thereof adjacent the inner edge of the central strip and a coat of hardened easily breakable material adhering to and surrounding the sides of the strip for the combined purpose of holding the strips together and minimizing the adherence of concrete thereto.

2,318,693
METHOD OF SHREDDING RUBBER
William J. Joyce and Harvey D. Geyer, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 29, 1939, Serial No. 306,636
2 Claims. (Cl. 260—767)

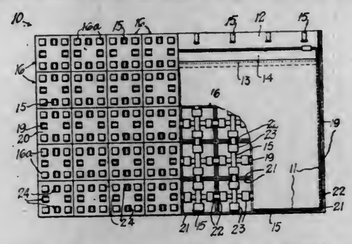


1. The process of shredding non-porous rubber-like material taken from the class consisting of crude rubber, compounded rubber, vulcanized rubber, unvulcanized rubber, reclaimed rubber, polymerized chloroprene and polymerized isoprene comprising the steps of, dissolving ammonia in rubber-like material under high pressure, and then substantially instantaneously reducing the pressure and thereby reducing the solubility of the ammonia in the rubber-like material for causing the ammonia to be released from the rubber under explosive conditions, for breaking up the rubber-like material into small particles.

2,318,694
HANDBAG
Ludwig Kaphan, Brooklyn, N. Y., assignor of one-half to Joseph Friedman and one-half to Rudolph Lobel, both of New York, N. Y.
Application November 20, 1942, Serial No. 466,532
8 Claims. (Cl. 150—28)

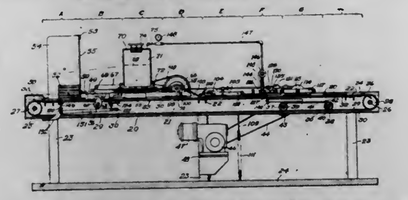
1. A device including a handbag having a bag body having opposed walls interconnected at their ends, a plurality of decorative elements for each wall, and lacing interconnecting the elements and also interconnecting the handbag walls at an end thereof, each element being hollow to form a marginally flanged wall structure open toward the adjacent handbag wall, the flanges nearest to

an end of the bag body having slots wholly open at the free edges of the flanges, and eye portions connected to the wall structures and lying in the hollow thereof and in alignment with respective



slots, said lacing passing through the eye portions to mount the decorative elements and lying partially, adjustably in the slots whereby the lacing is protected at the said end of the bag body.

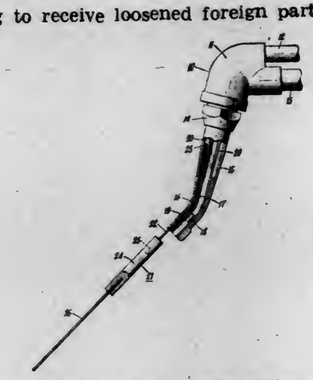
2,318,695
ASSEMBLING MACHINERY
Arthur Klammt, New York, N. Y., and George W. Kretzschmar, Garfield, N. J., assignors to W. M. Ritter Lumber Company, a corporation of West Virginia
Application October 28, 1939, Serial No. 301,716
15 Claims. (Cl. 144—279)



1. In an assembling machine for tongue and groove slats in which said slats normally lie in a horizontal plane in combination, means for shifting pluralities of said slats into vertical planes with the grooves uppermost, spotting means to simultaneously deposit adhesive in said last-mentioned grooves, shifting means cooperative with said spotting means and in timed relation therewith for again shifting said pluralities of slats to said horizontal plane, and means to associate said slats together in tongue and groove relation and thereby form a composite block.

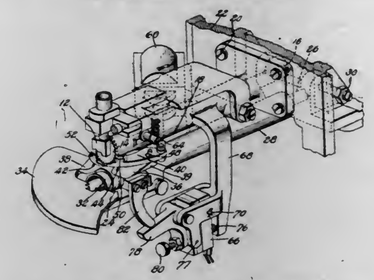
2,318,696
NOZZLE CLEANING TOOL
Walter R. Linden, Palisades Park, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York
Application October 3, 1940, Serial No. 359,530
3 Claims. (Cl. 15—104)

1. A tool for cleaning both straight and curved gas passages in blowpipe nozzles, said tool comprising a single piece of substantially round stock of solid material constituting a handle for the tool and having an axial socket in one end thereof; and a piece of multi-strand flexible metal cable having one end thereof projecting into said socket and permanently secured to such one-piece handle, a portion of said cable extending back from its other end having a diameter slightly smaller than the remainder of said cable to facilitate insertion of the cable in a gas passage, the strands of said cable being twisted to provide longitudinal grooves between adjacent strands serving to receive loosened foreign particles for



removing the latter from a gas passage in a nozzle.

2,318,697
FEEDING MEANS FOR SHOE SOLE TREATING MACHINES
Wilbur L. MacKenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 16, 1940, Serial No. 361,434
10 Claims. (Cl. 91—25)

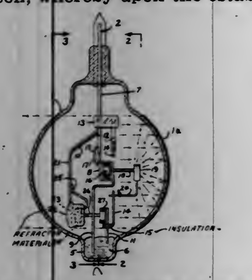


1. In a machine for operating upon work pieces, a device engaging the periphery of the work piece, a device engaging a marginal portion of one face of the work piece, one of said devices being constructed and arranged to apply a force acting to advance the work piece and to swing it laterally, a sensing device responsive to changes in thickness of the marginal portion of the work piece, and means connected to said sensing device controlling the force component by means of which the work piece is swung laterally as it is advanced.

2,318,698
ELECTRIC SWITCH MECHANISM
Ira E. McCabe, Chicago, Ill.
Application March 19, 1940, Serial No. 324,795
15 Claims. (Cl. 200—122)

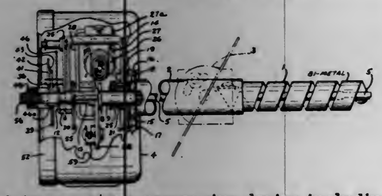
7. A thermally actuated switch responsive to the radiant energy of light, including a stationary electrode, a movable electrode to open and close the switch, a releasable latch normally holding the movable electrode in closed position, a thermally responsive mechanism for releasing the latch, including an electric resistance heater interposed in the stationary electrode, a coil of thermal metal having a fixed outer free end arranged to respond to the presence or absence of heat from said heater, a shaft fixed and sup-

ported by the inner end of said thermal coil, an oppositely responsive thermal coil secured at its inner end to the other end of said shaft, the outer free end of said second thermal coil mounting a latch release, a concave reflector mounted to concentrate rays of visible light falling upon it on said second coil, whereby upon the establishment



of a circuit through said switch and rays of visible light fall upon the reflector, the thermal coils will respond equally to their respective sources of heat and remain inoperative but, upon failure of said light, the electric heater responsive coil will rotate the shaft and cause the latch release to engage the latch and release the movable electrode to open the switch.

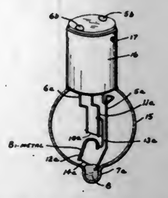
2,318,699
TEMPERATURE RESPONSIVE ELECTRIC SWITCH
Ira E. McCabe, Chicago, Ill.
Application April 14, 1941, Serial No. 388,424
9 Claims. (Cl. 200—138)



1. A temperature responsive device including a tiltable mercury tube switch, an operating shaft, a thermal member for operating the shaft, a tiltable bracket, means transmitting movement imparted to the shaft to the bracket, a switch actuator operated by the tiltable bracket, adjustable means for determining the time of switch operation and means upon the switch actuator adapted to abut said adjustable means when the actuator is operated by the tiltable bracket and upon continued movement of the bracket thereafter to cause the actuator to tilt the switch including means to limit the tilt of the switch and the movement of the bracket after operating the switch, and yielding means incorporated in said transmitting means allowing continued movement of the shaft beyond the limited movement of the bracket.

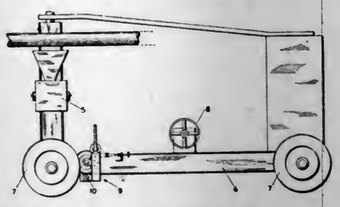
2,318,700
COMBINED INCANDESCENT LAMP AND FLASHER SWITCH
Ira E. McCabe, Chicago, Ill.
Application April 27, 1942, Serial No. 440,684
4 Claims. (Cl. 176—24)

1. A combined incandescent lamp and flasher switch including the provision of means for retaining a pool of mercury, extending one of the leading in wires of the lamp to terminate with its end submerged in the pool of mercury, connecting the other leading in wire to one end of the lamp filament and interposing between the other end of the lamp filament and pool of mercury, a temperature responsive mechanism normally



closing the circuit within the lamp bulb and upon the establishment of an electric circuit therethrough, the passage of the current through the filament increases the temperature thereof to actuate the said mechanism to open the circuit through the lamp bulb.

2,318,701
X-RAY MACHINE MOVING DEVICE
Martin A. Mikesh, Lawrenceville, N. J., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application August 28, 1941, Serial No. 408,603
1 Claim. (Cl. 280—3)

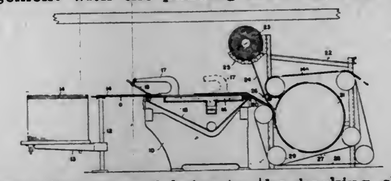


In combination with a portable X-ray machine having a frame and wheels supporting the same, a housing pivotally attached at its lower end to one side of said frame adjacent one of said wheels, an internally threaded member pivotally attached to the upper end of said housing, a feed-screw supported from said frame and adapted to rotate freely in its support, said feed-screw cooperating with said internally threaded member to rotate said housing toward and away from said wheel, a crank-operated driving shaft and a driven shaft journaled in said housing, a gear train connecting said shafts, and a friction-wheel secured to said driven shaft, said friction-wheel being movable into and out of operating engagement with the periphery of said wheel by means of said feed-screw.

2,318,702
UPHOLSTERY
John R. Millar, Reno, Nev., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application March 27, 1939, Serial No. 264,475
4 Claims. (Cl. 154—33)

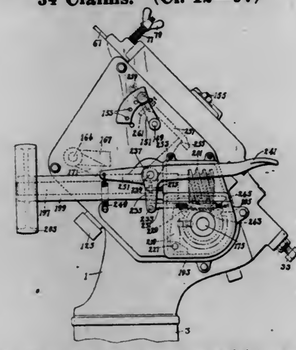
1. The method of making upholstery material having a cover fabric, a backing sheet, padding between the cover fabric and backing sheet and stitching connecting the cover fabric to the backing sheet; comprising the steps of advancing padding material into surface to surface engagement with the back of a continuous strip of resilient

material having attached in surface to surface relation to the front face thereof a series of individual cover fabrics, then advancing a continuous backing sheet into surface to surface engagement with the padding material, and then



sewing the cover fabrics to the backing sheet along laterally spaced lines to provide completed upholstery material whereof the continuous strip and sheet may be severed along lines extending between adjacent cover fabrics to provide individual upholstery units.

2,318,703
SHOE UPPER FLANGING MACHINE
Wilfrid Thomas Minett, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 28, 1941, Serial No. 376,277
In Great Britain January 31, 1940
34 Claims. (Cl. 12—97)

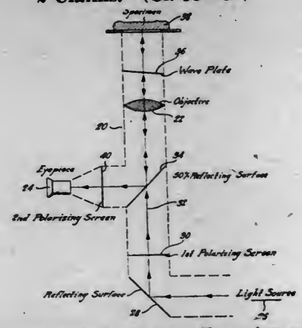


1. A shoe upper flanging machine comprising an inner mould, about which an end portion of an upper to be flanged is placed, outer moulds, for clamping the upper against the inner mould, a slide to which the outer moulds are pivotally connected, means for moving the slide, a movable bar to which the outer moulds are also connected and friction means which act, by retarding movement of the bar, to cause the outer moulds to swing towards each other about their pivotal connections to the slide, during movement of the slide, until they engage the upper.

2,318,704
PRODUCTION OF ARTIFICIAL FILAMENTS, FOILS, AND LIKE SHAPED ARTICLES
Robert Wighton Moncrieff and Charles William Sammons, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application February 27, 1941, Serial No. 380,814. In Great Britain April 2, 1940
3 Claims. (Cl. 18—54)

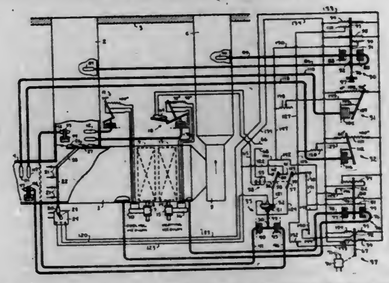
1. Process for the production of artificial filaments, threads, yarns, films, foils and like shaped articles, which comprises shaping a solution of a highly polymeric fibre- or film-forming polyamide in a phenolic solvent, and setting it in an organic liquid medium which comprises from 70 to 96%, based on the weight of the components of said medium which exert no substantial swelling action on said polyamide, of at least one substance selected from the group consisting of acetone, methyl ethyl ketone, chloracetone, acetol, acetol methyl ether and acetol acetate.

2,318,705
METALLOGRAPHIC FILTERING SYSTEM
Harry C. Morgan, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 9, 1941, Serial No. 373,814
2 Claims. (Cl. 88—39)



1. A microscope for use in the microscopic examination of opaque specimens by normal illumination, comprising; a light source, an objective, an eyepiece, polarizing means consisting of crossed polarizing screens disposed between the light source and the objective and between the objective and the eyepiece, said screens normally being capable of filtering out all light from the light source to the eyepiece, and means consisting of a wave plate interposed between the objective and the specimen for rotating light reflected from a specimen so that said light passes through said second polarizing screen whereby the image of the specimen is visible in the eyepiece and reflected light from the objective is substantially filtered out.

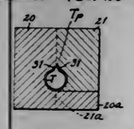
2,318,706
AIR CONDITIONING SYSTEM
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 27, 1941, Serial No. 376,034
17 Claims. (Cl. 257—3)



15. In an air conditioning system for cooling a space, in combination, means for supplying fresh air to said space, flow control means for controlling the supply of fresh air to said space,

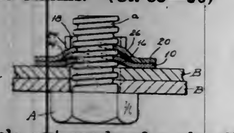
means responsive to the occupancy of said space for controlling said flow control means in a manner to increase its flow of fresh air upon increase in occupancy of the space, and means controlling said flow control means conjointly with said occupancy responsive means in a manner to increase the flow of fresh air to a maximum irrespective of the occupancy when outside air is cooler than the air in said space.

2,318,707
MANUFACTURE OF T'S FROM METAL TUBING
Charles A. Nichols and George L. Weiser, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 27, 1941, Serial No. 385,518
4 Claims. (Cl. 29—157)



1. The method of forming a flanged side opening in a piece of metal tubing preparatory to forming a T which comprises inwardly deforming the tubing to form two spaced crimped portions in longitudinal alignment and an intermediate outwardly bulged portion, forming a hole in the bulge and forming the metal of the bulge which surrounds the hole into an outwardly extending annular flange.

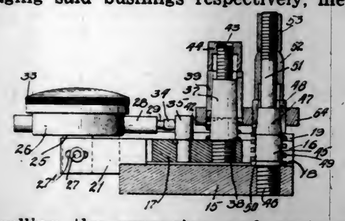
2,318,708
SHEET METAL NUT
Bernard Arthur Parr, East Sheen, London, England, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application August 22, 1942, Serial No. 455,793
In Great Britain May 14, 1942
18 Claims. (Cl. 85—36)



1. A multiple nut made of a plurality of separate superposed sheet metal members, the base of an upper member being rigidly supported by the base of a lower member, each member being formed with an opening and opposed thread-engaging edges about the opening, and means for holding said nut members together as a unit.

2,318,709
GAUGE FOR METALLIC CARTRIDGE BELT LINKS
Per O. Persson, Chicago, Ill., assignor to Quality Hardware and Machine Corporation, Chicago, Ill., a corporation of Illinois
Application February 18, 1942, Serial No. 431,335
3 Claims. (Cl. 33—174)

1. A test gauge for metallic cartridge belt links which have two circular loops the distance between whose parallel axes should be of predetermined standard, comprising a stationary post structure having a frusto-conical seat and an expansible and contractible bushing engaging said seat, a movable post structure having a frusto-conical seat and an expansible and contractible bushing engaging said seat, said post structures being adapted to be set for the standard distance between their axes, measuring and indicating means adapted to follow the movement of said movable post structure, said post structures after such setting adapted to receive a link to be tested with the loops of the link engaging said bushings respectively, means for

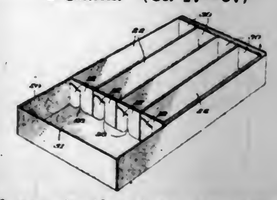


controlling the expansion and contraction of said bushings on said frusto-conical seats for accurate engagement of the bushings in the link loops, said measuring and indicating means functioning to measure and indicate any variation of the distance between said post structure axes from the standard distance when a link to be tested is applied to the post structures.

2,318,710
GUM INHIBITOR
Albert A. Persyn, Associated, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 12, 1940, Serial No. 318,589
2 Claims. (Cl. 196—150)

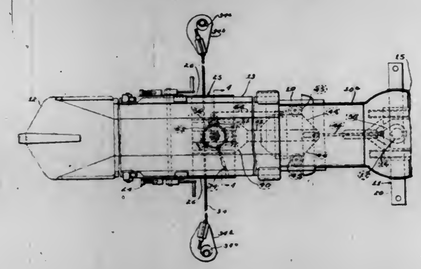
1. The process of suppressing the formation of gum in cracked, polymerized, and other pyrolytic gasolines intended for use as fuel for an internal combustion engine and of the type tending to deposit gum during storage, which consists in removing such gum inhibitor compounds from straight run petroleum fractions within the boiling range 350°–450° F. by treatment with a selective solvent of the type which dissolves the more aromatic hydrocarbons and other compounds, and adding the selective solvent extract to such gasoline in an amount between 2% and 10% of the gasoline, thereby the octane number of the gasoline is not materially altered but the time of formation of gum in the gasoline during storage is greatly lengthened, said extract boiling at temperatures below 450° F. and hence being volatile when carbureted in the internal combustion engine.

2,318,711
SEED GERMINATING TRAY
Louis V. Phelan, Wayland, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application May 1, 1941, Serial No. 391,428
1 Claim. (Cl. 47—37)



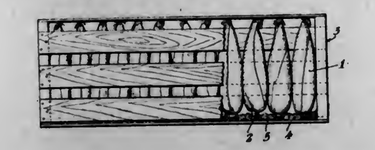
A seed germinating tray comprising a blank foldable along predetermined lines to provide side walls and a bottom, said bottom being wider in the blank than in the tray and bendable to provide a raised bottom providing a water circulating channel underneath the tray, and interlocking means on said side walls for supporting the folded blank in tray formation and providing end walls, said interlocking means comprising extensions of said side walls projecting beyond the ends of the bottom wall and lying flatwise against the ends of the bottom, and said bottom being provided with bulging end edges with said end walls bending firmly thereagainst.

2,318,712
SHAKER CONVEYER
Charles A. Pratt, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 13, 1941, Serial No. 418,907
6 Claims. (Cl. 198—220)



1. In a shaker conveyer, a reciprocating trough section, an extensible trough section mounted for telescopic movement with respect to said reciprocating trough section, means for telescopically moving said extensible trough section with respect to said reciprocating trough section, and means operated by movement of the conveyer for laterally feeding said reciprocating and extensible trough sections including a winding member slidably mounted on said reciprocating trough section and held from reciprocable movement with said trough section, and means operatively connected with said reciprocating trough section and actuated by reciprocable movement thereof for rotatably moving said winding member.

2,318,713
METHOD OF PRESERVING AND SHIPPING CORN
Andrew Y. Preble, El Centro, Calif.
Application February 4, 1942, Serial No. 429,516
6 Claims. (Cl. 99—154)

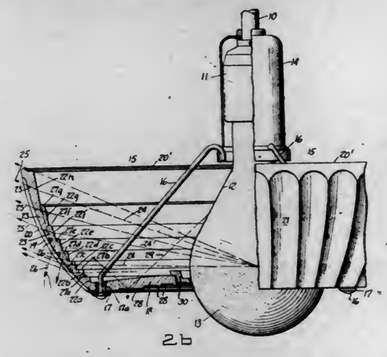


1. A method of preserving corn on the cob, which consists in cutting the corn so that it presents a stem extending from the ear and maintaining a fibrous material moistened with a saccharine solution in contact with the end of the stem.

2,318,714
EMULSION
Harold J. Robertson, Tulsa, and Thomas G. Wisherd, Sand Springs, Okla., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 24, 1940, Serial No. 315,382
2 Claims. (Cl. 252—330)

1. The process for the separation of petroleum from "oil-in-water" emulsions of crude oil and brine which comprises adding to the emulsion a small amount of aluminum chloride.

2,318,715
LUMINAIRE
Thomas W. Rolph, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application October 5, 1940, Serial No. 359,868
7 Claims. (Cl. 240—93)

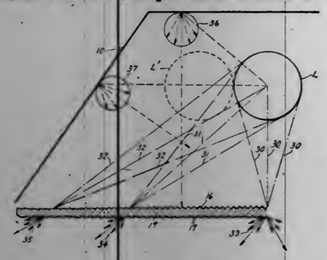


1. A semi-indirect luminaire adapted to be suspended below the ceiling and comprising a concentrated light source, a substantially concentric hemispherical, opaque, specular reflector below the source with its upper edge at the level of the source so that no direct light from the source escapes downwardly below the horizontal, and an upwardly flaring band refractor extending upwardly from substantially the horizontal plane through the source to a substantial distance above the source to occupy an angle of substantially 25° above the horizontal and intercepting the corresponding direct light, said band refractor also intercepting the light reflected upwardly by the corresponding upper zone of the reflector and being open at the top to permit higher angle direct and reflected light to escape and having annular prisms of progressively changing width and refracting power for refracting said light rays and elevating them into substantial parallelism with the lowest angle direct light emitted over the top of the band refractor whereby the refracted light is directed onto the ceiling closer to the suspension.

2,318,716
LUMINAIRE
Thomas W. Rolph, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application July 5, 1941, Serial No. 401,089
6 Claims. (Cl. 240—93)

6. A luminaire comprising a rectilinear light source of substantial width, and a light redi-

recting cover parallel with and substantially wider than the source and comprising a plurality of flat rectangular pressed glass plates arranged end to end to form a flat area coextensive with the length of the source, the plates having abutting end flanges forming a part of the exposed light emitting surface of the luminaire; the area of the plates between the flanges



having longitudinally extending prisms to alter the divergence of light, the end flanges being provided with prisms extending transversely of the faces thereof and of substantially the same prism formation as the areas adjacent them to similarly alter the divergence of light and give the flanges the same lighted appearance as the body of the cover.

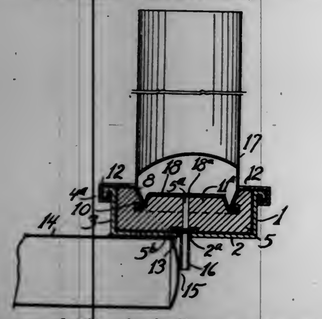
2,318,717

SNAP-ON ATTACHMENT CAP

William H. Rose, Jersey City, N. J., assignor to Stanco Incorporated

Application December 30, 1939, Serial No. 311,830

5 Claims. (Cl. 299—88)



5. A spray device including a cap member comprising a shell having an opening in the top wall thereof, a cap insert member secured in the shell having a top portion and an annular side wall portion, a siphon tube member extending outwardly from the opening, a conduit passage through the insert member communicating with the tube member, a receptacle in the insert member extending across the passage, and a disk of absorbent material in the receptacle.

2,318,718

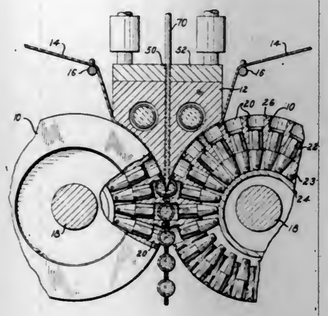
METHOD AND APPARATUS OF FABRICATING FILLED CAPSULES

Robert P. Scherer, Detroit, Mich.

Application December 5, 1939, Serial No. 307,666

24 Claims. (Cl. 18—21)

12. Capsule forming mechanism comprising, in combination, a pair of die rolls mounted on parallel axes, a feeder head for delivering filler substance to the capsules being formed, said head having two side faces converging to a common edge, said feeder head mounted with said edge entering the narrowing space between the die rolls, means for feeding bands of plastic capsule forming material between the die rolls and said faces of the feeder head, said two converging faces of said feeder head having a concave curvature conforming generally to the curvature of the die rolls so that the faces may press the bands into close contact with the die rolls as they converge together therebetween, the center of curvature of each concave face on the feeder head being slightly offset with respect to the axis of the die roll against which it presses the band of capsule forming material in such that a direction that the space between the die roll and feeder head tapers gradually to a minimum distance at said edge of the feeder head whereby the feeder head exerts a gradually increasing pressure on the band fed through said last mentioned space.



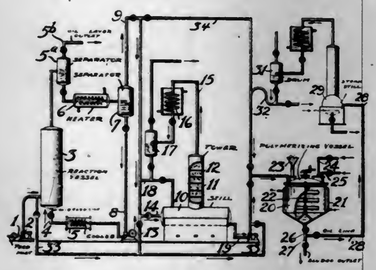
2,318,719

METHOD FOR POLYMERIZING OLEFINS TO LUBRICATING OILS

Helmuth G. Schneider and Lewis A. Bannon, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 20, 1938, Serial No. 210,792

15 Claims. (Cl. 196—10)



1. An improved process for producing lubricating oils from isobutylene comprising conducting the polymerization in a series of separate successive steps so as to increase the molecular weight progressively in successive steps up to the lubricating oil range a first step of polymerization being accomplished with a non-volatile mineral acid catalyst and the products of said first step being re-polymerized to lubricating oils by means of a Friedel-Crafts type catalyst.

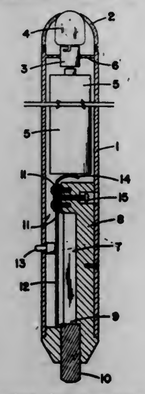
2,318,720

MAGNETIC PERMEABILITY INDICATOR

Benjamin W. Sewell, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 12, 1940, Serial No. 365,181

4 Claims. (Cl. 175—183)



1. A hand device for testing welds comprising a tubular casing, a permanent magnet mounted in said casing, an outlet for the flux of said magnet extending from one end of said casing to one pole of said magnet and adapted to be placed against the weld to be tested, a signalling device mounted within said casing, an electrical circuit for operating said signaling device, and a switch in said circuit including a spring arm adapted to be held in closed position by said magnet and to open upon the leakage of magnetic flux from said magnet.

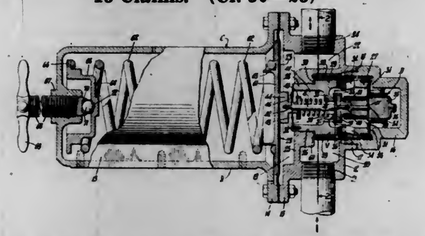
2,318,721

FLUID PRESSURE REGULATOR

Chester A. Siver, United States Navy, assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application January 11, 1941, Serial No. 374,072

13 Claims. (Cl. 50—23)



1. A fluid pressure regulator comprising, in combination, a casing having inlet and outlet openings for fluid; a valve seat between said openings; a valve movable toward and away from said valve seat; a valve stem associated with said valve, said valve stem being free of any substantial frictional resistance to its movement; centering means within said casing on one side of said seat engaging said valve stem; a stationary support on the opposite side of said valve seat having a passage therethrough; two bellows aligned with said valve and secured to opposite sides of said support in fluid-tight relation thereto, said bellows being connected together through said passage; fluid filling said bellows; means operatively connecting said valve to one of said bellows, said means including a plunger within said last-named bellows fitting loosely in said passage for centering said valve with respect to said valve seat; and means responsive to the fluid pressure in one of said openings engaging said valve stem for controlling said valve.

2,318,722

HIGHWAY-ILLUMINATING SYSTEM

Ferdinand O. Smith, Hamden, and William V. Hirschfeld, New Haven, Conn., assignors to The Guidalite Corporation, Meriden, Conn., a corporation of Connecticut

Substituted for abandoned application Serial No. 56,612, December 30, 1935. This application January 18, 1939, Serial No. 251,562

3 Claims. (Cl. 88—82)



1. A highway illuminating system comprising two series of reflector-illuminating units arranged in couples in gate-like relation substantially opposite each other on opposite sides of the right of way and equidistant from the center thereof, the units of each series being longitudinally equidistant on the straightaway and separated longitudinally by a distance greater than the width of the road and combining to form a reflector-lighted corridor, each vertical unit of both series extending vertically in a zone above the normal headlight-level and below the normal driving eye-level of the highway, the reflector-illuminator units on each side of the roadway being provided on one side or face with a series of reflectors of crystal clear character and on the opposite side or face with a series of reflectors consisting of amber reflectors alternating with crystal clear reflectors, the series of uncolored reflectors on one side of the road facing in a direction opposite to that of the series of uncolored reflectors on the opposite side of the road, the double series of reflector-lighted units forming a lighted zone having a substantially uniform relation to the highway in the lateral, longitudinal and vertical directions, capable of reflecting light projected thereon by a headlight approaching the rear of a pedestrian on the highway.

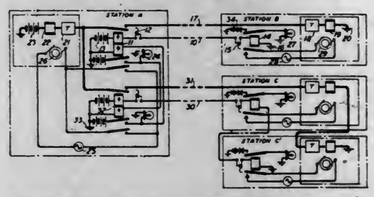
2,318,723

COMMUNICATION SWITCHING SYSTEM

Burdette S. Swezey, Floral Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 16, 1940, Serial No. 345,701

13 Claims. (Cl. 178—2)



1. A signaling system comprising a main station, a plurality of other stations, a normally de-energized circuit and a normally energized circuit connecting each of said other stations with said main station, switching means near opposite ends of each of said normally energized circuits and forming parts thereof, and other means compris-

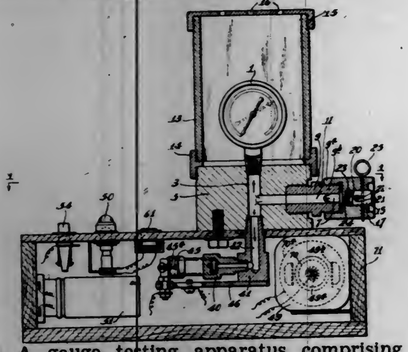
ing contacts responsive to the operation of either or both of the switching means forming part of one of said normally energized circuits for rendering the normally deenergized circuit associated with said one circuit, energized for signaling purposes.

2,318,724

APPARATUS FOR TESTING PRESSURE GAUGES

Robert Temple, Swissvale, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc., a corporation of Delaware

Application October 19, 1940, Serial No. 361,921
7 Claims. (Cl. 73—51)



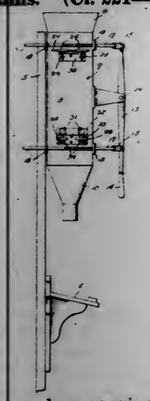
1. A gauge testing apparatus comprising a means adaptable to receive and detonate a confined explosive charge and having a pasage to be connected to the inlet of a gauge to be tested, the passage having a minimum volume so that the impulse or surge effect of confined rapid expansion of gases is transferred to the gauge, and an indicating means connected to the means to record the maximum pressure condition including the impulse or surge effect to which the gauge is subjected comprising a pressure responsive means connected to the passage and an electrical indicator energized by action of the responsive means.

2,318,725

SACKING AND MEASURING DEVICE

Claude C. Thomas, Birmingham, Ala., assignor of one-half to E. H. Clements, Roanoke, Va.

Application November 17, 1941, Serial No. 419,481
3 Claims. (Cl. 221—113)



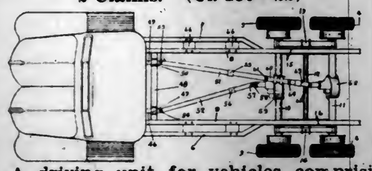
1. In a sacking and measuring device, a vertically disposed receptacle having material receiving and discharge ends, gates for opening and closing said ends of the receptacle and defining therebetween within said receptacle a measuring area, operating means for opening and closing said gates, a partition in said receptacle between the gates for dividing said area into vertically arranged spaces of different size from each other, regulators in said spaces for increasing and decreasing the size thereof and each including a vertically arranged plate and a horizontally disposed plate hinged to the upper end of the vertical plate and slidable through a wall of the receptacle, and means for adjusting said vertical and horizontal plates independently of each other and horizontally of the spaces.

2,318,726

POWER DRIVEN TRUCK

Harold A. Wagner, Portland, Oreg.

Application August 18, 1941, Serial No. 407,302
2 Claims. (Cl. 180—22)



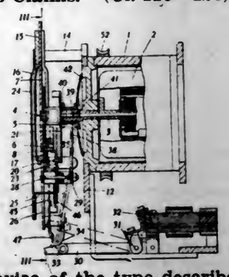
1. A driving unit for vehicles comprising a frame, a pair of similar independent combustion engines, means mounting said engines upon the forward end of said frame in a side by side relation, a pair of independent driving axles supporting the rear end of said frame, driving connections for said axles extending forwardly substantially centrally thereof, a drive shaft including a pair of universal joints connecting the first of said engines with the driving connection of the foremost of said driving axles, a second drive shaft connecting the second of said engines with the driving connection of the rearmost of said driving axles, said driving shafts converging toward each other rearwardly of said vehicle, a bearing means supporting the second of said drive shafts upon the foremost of said driving axles, said second drive shaft including a pair of universal joints on each of the opposite sides of said bearing means.

2,318,727

INDICATOR FOR SYNCHRONOUS ELECTRICAL CONTROL SYSTEMS

Christopher Frederick Webb and Norman Ernest Brewerton, Uxbridge, England, assignors to Bell Punch Company Limited, London, England, a British company

Application February 13, 1941, Serial No. 378,782
In Great Britain February 6, 1940
3 Claims. (Cl. 116—124)



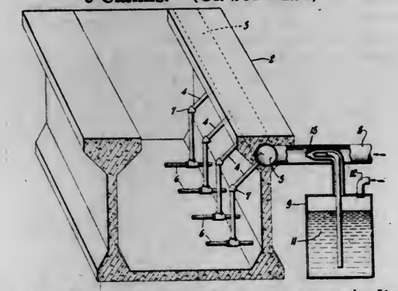
1. In a device of the type described, an angularly movable rotor, a main pointer, means through which the rotor moves said main pointer in accordance with the angular movements of said rotor, an auxiliary pointer, and mechanical amplifying means for effecting magnified angular movements of said auxiliary pointer with respect to said main pointer only when said main pointer is in a predetermined range of its movement, said mechanical amplifying means comprising a driving pin having angular movements substantially proportional to the rotor movements and a pivoted member connected to said auxiliary pointer and provided with a slot receiving said driving pin closely adjacent its pivot to effect an angular movement of said pivoted member substantially greater than the corresponding driving angular movement of the pin when there exists said closely adjacent relationship of the pin and pivot.

2,318,728

DIFFUSION OF GASES INTO LIQUIDS

Leroy C. Werking, Cleveland, Ohio, assignor to National Carbon Company, Inc., a corporation of New York

Application February 2, 1940, Serial No. 316,933
9 Claims. (Cl. 261—122)



1. A diffuser for introducing gases into liquids comprising, in combination, a body of porous material having the pores thereof coated with a thin, semi-permanent, surface film of a non-drying oleaginous material and atomizing means for applying to said body by impregnation a dispersion of said non-drying oleaginous material in admixture with the gas for diffusion.

2,318,729

PROCESS FOR MAKING AMINO-ALKYL COMPOUNDS

Alexander L. Wilson, Sharpsburg, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application May 24, 1941, Serial No. 395,024
14 Claims. (Cl. 260—383)

1. Process for preparing beta-aminoalkyl nitrogen derivatives which comprises reacting a 1, 2 alkylene imine with essentially only a non-acylated basic amine having at least one reactive hydrogen atom attached to an amino nitrogen atom.

2,318,730

PROCESS OF MAKING ALKYLENE POLYAMINES

Alexander L. Wilson, Sharpsburg, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application May 24, 1941, Serial No. 395,025
10 Claims. (Cl. 260—583)

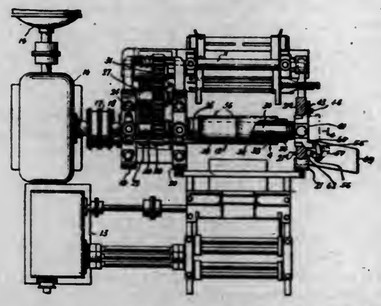
1. Process for making alkylene polyamines which comprises reacting ammonia with a 1,2-alkylene imine.

2,318,731

SLITTER

Frank J. Wood, Riverside, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application April 11, 1942, Serial No. 438,521
7 Claims. (Cl. 164—60)



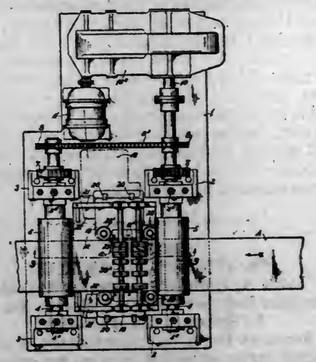
3. In an apparatus of the class described, a frame, a power driven arbor, a rotatable work performing member mounted on said arbor, bearing means for mounting opposite ends of said arbor in opposite sides of said frame, said bearing means at one end of said frame being mounted on said frame for slidable removal therefrom in an endwise direction, so said bearing means may be removed from said arbor in an endwise direction and said work performing member may be removed from said arbor and frame in an endwise direction, and the mounting for said bearing means at one side of said frame including a block slidably movable into said frame and a supporting linkage connection for supporting said block on said frame in such a manner that said block and bearing means may be slidably removed from said frame in a plane parallel to the axis of said arbor and may then be swung outwardly with respect thereto, and be supported by said frame in such a position, said linkage connection including a pair of links pivotally connected together and pivotally connected between said frame and one side of said bearing block.

2,318,732

MACHINE FOR OPERATING ON THE SIDE EDGES OF SHEET METAL STOCK

Carl M. Yoder, Lakewood, Ohio

Application July 25, 1939, Serial No. 286,375
19 Claims. (Cl. 90—24)



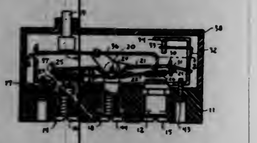
1. In a machine of the class described, the combination with a support, of a frame mounted

thereon for movement freely laterally in opposite directions, means for feeding sheet stock over said frame, pairs of guides mounted on said frame for engaging the opposite side edges of the stock during feeding thereof and arranged to coact with the side edges due to camber in the stock to move said frame laterally, and spaced cutting tools mounted on said frame for removing metal from the side edges of the stock during feeding thereof.

2,318,733
PLANT TREATMENT COMPOSITION
George S. Avery, Jr., New London, Conn., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application January 18, 1941, Serial No. 375,017
11 Claims. (Cl. 47—58)

10. A method for simultaneously controlling plant parasites and regulating plant growth which comprises applying to the aerial portion of the plant a composition comprising a synthetic plant auxin and a parasiticide selected from the class consisting of sulfur, lime sulfur, metallic arsenates and arsenites, and inorganic copper compounds.

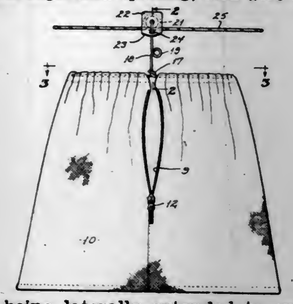
2,318,734
SNAP ACTION SWITCH
Albert E. Baak, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 7, 1939, Serial No. 307,991
19 Claims. (Cl. 200—67)



1. In a device of the character described, a pivoted lever, a movable contact carried thereby, a stationary contact, spring means exerting a compressive force on said lever, the direction of said force being at an angle of less than 45° with respect to said lever and such as to tend to separate said contacts, a resilient arm engaging said lever, means for building up a force in said arm, said last named force being of sufficient magnitude to rotate said lever against the action of said spring means and hence reduce the angle between the direction of said force and said lever, the reduction in the angle at which said spring means exerts its force over compensating the spring rate of said resilient arm, and means limiting the rotation of said lever to prevent the direction of application of force by said spring means ever being aligned with said lever whereby said spring means is operative to return said lever to its original position upon a reduction of the force applied to said arm.

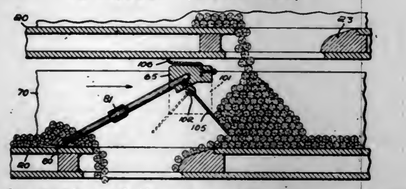
2,318,735
CLOTHESPIN CARRIER
John A. Bickford, Cleveland, Ohio
Application October 31, 1941, Serial No. 417,339
4 Claims. (Cl. 150—1.8)

1. A support for a bag comprising a pulley, an embracing strap therefor, a wire mounted on the strap and forming a journal to the pulley, one leg of the strap having an outward extension with an opening through it and the wire extending downwardly through said opening, said wire below the



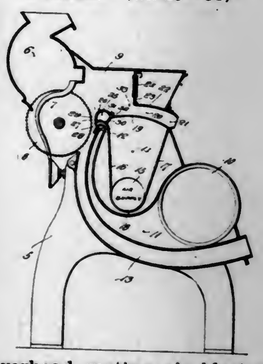
opening being laterally extended to engage the bag adjacent its top.

2,318,736
ART OF TREATING FOOD PRODUCTS
Clarence Birdseye, Gloucester, Mass., assignor to Mechanical Research, Inc., Providence, R. I., a corporation of Rhode Island
Application July 19, 1940, Serial No. 346,376
26 Claims. (Cl. 62—114)



1. Apparatus of the class described including in its structure a plurality of refrigerated plates, means for advancing a product along the surface of said plates successively, and means for leveling the product upon the plates in layers of predetermined thickness.

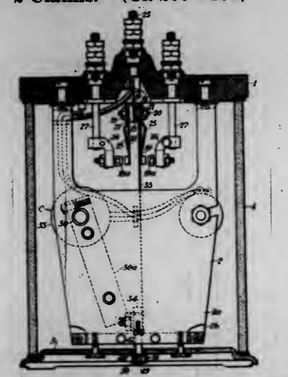
2,318,737
PNEUMATIC MOTE REMOVER
Aubrey C. Blaylock, Blytheville, Ark.
Application September 4, 1940, Serial No. 355,393
1 Claim. (Cl. 19—58)



In an overhead moting air blast cotton gin having a saw, a mote chamber above and behind the saw, and a downwardly directed air blast nozzle adjacent the saw for removing lint therefrom, a mote discharge duct leading from the chamber, air jet means above the nozzle adjacent the saw

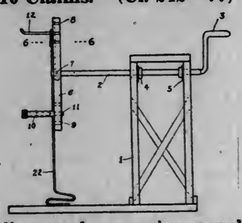
and directed rearwardly from the saw into said discharge duct to convey motes thereinto, there being a clearance space between said jet means and the saw periphery, and air conduit means opening from a part of the gin interior not under pneumatic pressure into said clearance space immediately above the air blast nozzle to nullify down suction in the chamber behind the saw.

2,318,738
HOLDING MEANS FOR INSTRUMENTS
Herman G. Blosser, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original application November 16, 1939, Serial No. 304,811. Divided and this application February 18, 1942, Serial No. 431,399
2 Claims. (Cl. 200—104)



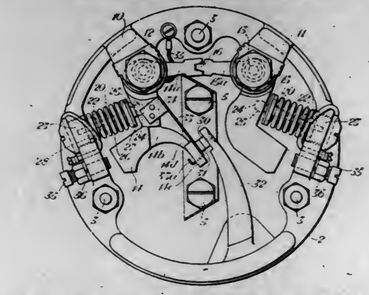
2. The combination with a relay comprising a rocker mounted for swinging movement between two positions, a pendulum-armature secured to said rocker by means of a flat spring and cooperating with electromagnetic means for causing swinging movement of said rocker between its two positions, contacts operated by the movement of said rocker, and a casing enclosing all of said parts, of means for preventing movement of said pendulum-armature during shipment comprising a screw extending through a clearance hole in said casing and screwed into a threaded hole provided in said pendulum-armature; a bracket secured to said casing and provided with a split portion which receives the outer end of said screw, and means for causing said split portion to grip said screw in a manner to prevent movement of said screw in all directions.

2,318,739
WRAPPING AND WINDING MACHINE
Thomas J. Boles, Chattanooga, Tenn.
Application May 22, 1942, Serial No. 444,085
10 Claims. (Cl. 242—77)



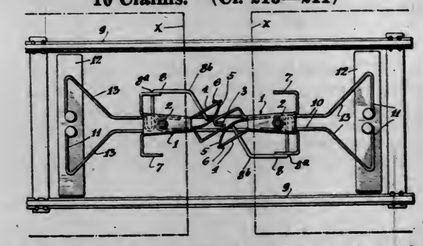
1. A winding and wrapping machine of the character described comprising a frame, a carriage rotatably carried by said frame, said carriage being movable from one position to a position at right angles thereto, whereby to first wind rope thereon and later to wrap the rope that has been wound.

2,318,740
SPEED RESPONSIVE DEVICE
Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 8, 1942, Serial No. 438,107
8 Claims. (Cl. 200—80)



1. A speed responsive device comprising a rotatable supporting element, a centrifuge member pivotally supported on said supporting element for movement toward and away from the axis of rotation of said supporting element, and a contact finger secured to said centrifuge member and carrying a contact button which cooperates with a fixed contact button mounted on said supporting element to form a contact, said contact finger being disposed substantially on the radial line extending from the axis of rotation of said supporting element to the pivotal axis of said centrifuge member and the button carried by said finger being disposed substantially at the axis of rotation of said supporting element to eliminate the effect of centrifugal force on the contact parts.

2,318,741
UNCOUPLING MEANS FOR THE CARS OF TOY TRAINS
Billi Bowen and Russell L. Houghton, New York, N. Y., assignors to Ideal Aeroplane & Supply Co., Inc., New York, N. Y.
Application July 31, 1941, Serial No. 404,806
10 Claims. (Cl. 213—211)



1. In uncoupling means for the couplers of toy trains, a coupler including a drawbar mounted on a vertically extending pivot, and laterally spaced outwardly projecting knuckle and guide members, together with a stationary ramp composed of yieldable spaced parallel wires, a bent rod extended from said drawbar, said rod having an angled terminal portion normally spaced lat-

erally of the adjacent wire of the ramp and adapted to be guided, by engagement with means provided on said stationary ramp, into position to movably engage and hold said wire under lateral tension, whereby upon backing up a coupled car the drawbar will be shifted laterally to cause uncoupling of coupled cars.

2,318,742

PURIFICATION OF PARTIALLY OXIDIZED STYRENE BY TREATING WITH SODIUM BISULPHITE

Edgar C. Britton and Walter J. Le Fevre, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application August 31, 1938, Serial No. 227,846

1 Claim. (Cl. 260—669)

The method which comprises treating styrene, which has been partially oxidized by exposure to air, with an aqueous sodium bisulphite solution, whereby the oxygen and organic oxidation products react with the sodium bisulphite to form compounds which are readily separable from the vinyl-aromatic compound and removing the products of this reaction to recover the vinyl-aromatic compound in purified condition.

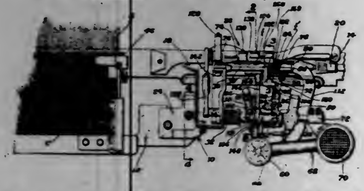
2,318,743

AUTOMATIC LOOM

Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application July 12, 1941, Serial No. 402,214

25 Claims. (Cl. 139—256)



24. In an automatic filling replenishing loom having a support for a bobbin carrying a supply of filling, means arranged to move into engagement with a bobbin tip and pneumatic suction producing means operated in timed relation to said first mentioned means for withdrawing an end portion of said filling from said bobbin upon engagement of said first mentioned means therewith.

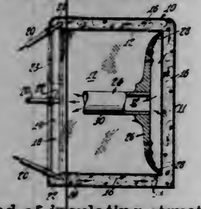
2,318,744

METHOD OF INSULATING

George B. Brown, Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application November 30, 1939, Serial No. 306,812

10 Claims. (Cl. 226—19)



1. A method of insulating structures including walls defining an insulation-receiving space therebetween, said method comprising conveying insulating material within said space and withdrawing air from said space at successive locations of deposition of said insulating material by moving air-exhausting means along said space in substantially timed relationship to the deposition of the insulating material.

2,318,745

RUBBER COMPOUNDING

Theodore A. Bulifant, Hackensack, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York

No Drawing. Application November 13, 1939, Serial No. 304,166

2 Claims. (Cl. 260—759)

1. The process of compounding rubber which comprises mixing with the rubber sulfur vulcanizing agent, an activatable vulcanizing accelerator and a rubber compounding material constituted of a blend of coal tar distillate and from 3 to 10 per cent by weight, based on the weight of the distillate, of tar bases containing the pyridine nucleus capable of activating said accelerator, said tar bases boiling above about 210° C., said distillate being substantially free from crystalline material at 25° C., having a specific gravity of not less than 1.06 at 38° C. and boiling above 200° C., said blend being employed in amount such that the rubber contains from .1 to .6 per cent of said tar bases based on the weight of the rubber hydrocarbon, and vulcanizing the rubber.

2,318,746

PROCESS OF COMPOUNDING RUBBER

Theodore A. Bulifant, Hackensack, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York

No Drawing. Application November 13, 1939, Serial No. 304,167

5 Claims. (Cl. 260—758)

1. A process of vulcanizing rubber which comprises mixing with the rubber sulfur vulcanizing agent, an activatable vulcanizing accelerator and a blend of rubber softener with from 2 to 10 per cent by weight of aromatic base material containing the pyridine nucleus capable of activating said accelerator, said base material boiling above about 210° C., said softener being employed in amount such that the rubber contains from .1 to .6 per cent of said aromatic base material based on the weight of the rubber hydrocarbon, and vulcanizing the rubber.

2,318,747

PROVITAMIN A EXTRACTION PROCESS

Loran O. Buxton, Harrison, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application February 8, 1939, Serial No. 255,219

9 Claims. (Cl. 167—81)

1. A process for preparing a provitamin A extract from palm oil containing provitamin A, which comprises cooling a solution of said oil in an inert normally liquid organic solvent therefor to a temperature sufficiently low to cause free fatty acids and saturated glycerides, together with any nitrogenous compounds contained in the material, to solidify, and separating the solidified constituents from the remaining solution.

2,318,748

REFINING AND CONCENTRATING THE UNSAPONIFIABLE FRACTION OF FATS AND OILS

Loran O. Buxton, Belleville, N. J., and Eric J. Simons, New York, N. Y., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application May 3, 1940, Serial No. 333,114

22 Claims. (Cl. 167—81)

1. In a process of separating the unsaponifiable fraction from a fatty material the steps which comprise admixing, in the presence of a saponifying catalyst, a fatty material selected from the class consisting of oils and fats having a lesser quantity of a water-immiscible organic solvent dissolved therein with at least the stoichiometrical quantity of alkali required to react completely with the saponifiable portion of said fatty material, stirring the mass to form a heavy supersolvented emulsion and breaking the emulsion by means of heat to flocculate the soap.

2,318,749

PRODUCTION OF FAT-SOLUBLE VITAMIN CONCENTRATES

Loran O. Buxton and Howard B. Colman, Belleville, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application August 2, 1940, Serial No. 350,166

19 Claims. (Cl. 167—81)

1. In a process of recovering the unsaponifiable fraction from a fatty material selected from the class consisting of fats and oils, the steps which comprise dissolving a soap of such fatty material containing unsaponifiable matter and less than 20% moisture in a solvent selected from the group consisting of hydrocarbons and halogenated hydrocarbons and adding sufficient water to the mass to raise the moisture content of the soap to a point above 20% to induce precipitation of the soap from the solvent.

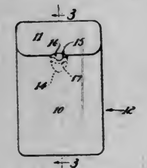
2,318,750

FASTENING MEANS FOR FLEXIBLE MEMBERS

Warner R. Buxton, Longmeadow, Mass.; Mabel Allen Buxton, executrix of said Warner R. Buxton, deceased, assignor to Buxton, Incorporated, a corporation of Massachusetts

Application March 20, 1940, Serial No. 325,035

3 Claims. (Cl. 150—42)



1. A fastener for overlapping members of flexible material, one of said members having a slot and the other a tongue constructed for easy insertion into and withdrawal from said slot, and a deflector having notches one at each of two opposite ends of the same and mounted in said slot with its notched ends engaged one with each of the end walls of said slot, said deflector having a portion projecting beyond the slot along the inner face of the slotted member and a portion projecting beyond the slot along the outer face of the slotted member, the second-named portion positioned to engage the tongue as it is moved toward the slot and force the tongue into the slot.

2,318,751

VEHICLE SEAT

Philip Carlson, Long Hill, Conn.

Application November 10, 1939, Serial No. 303,770

1 Claim. (Cl. 296—65)



In a package delivery truck, a truck body having a side door opening, a low step immediately inwardly of said opening, a platform immediately inwardly of said step and in a plane above the same, a footboard extending forwardly from the forward edge of said platform and step in a plane above the step, a vertical wall between the forward edge of the step and the rear edge of said footboard, a vertical wall at right angles to said vertical wall and between the inner edge of said step and the edge of the platform toward said door opening, a U-shaped bracket, means securing the connecting portion of said bracket against said step toward the forward end thereof and immediately adjacent the second mentioned wall, means securing an arm of said bracket to the second mentioned wall, a horizontal pivot supported by the arms of said bracket, a driver's seat including an upright having its lower end mounted on said pivot for swinging movements between a rearwardly inclining position of use substantially blocking said door opening and a forwardly inclining out of the way position over said footboard, a second bracket abutting at its forward end against the first mentioned wall and extending along a portion of the upper edge of the second mentioned wall, means securing said second bracket to each of said walls, said second bracket having a closed ended forwardly and rearwardly extending slot therethrough, and said upright passing through said slot and partially supported in its position of use by the bracket portion defining the rear end of said slot.

2,318,752

TREATMENT OF GASES

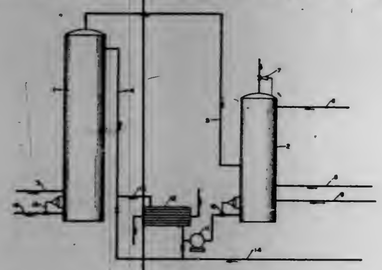
Samuel C. Carney, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 10, 1940, Serial No. 339,833

2 Claims. (Cl. 183—114.6)

1. In a process of treating a gas which includes a readily liquefiable fraction, a less readily liquefiable fraction and a difficultly liquefiable fraction, to recover the readily liquefiable fraction and a portion of the less readily liquefiable fraction from the gas in an absorption step, the improvement comprising conditioning the absorbent used in the absorption step by passing the lean absorbent into a saturator comprising a liquid-gas contact zone having an initial point and a final point relative to absorbent flow, passing gaseous effluent of the absorption step to the satura-

tor at a point intermediate said initial and final points, and withdrawing gas, termed residue gas, from the initial point of said saturator; passing a first gas containing relatively more of the less readily liquefiable fraction and relatively less of the difficultly liquefiable fraction than the original gas being absorbed, into the saturator at a point between said intermediate point and said



final point; and passing a second gas containing still more of the less readily liquefiable fraction and still less of the difficultly liquefiable fraction than the first gas into the saturator at a point adjacent the said final point of the saturator; passing the so conditioned absorbent from the final point of said saturator to a cooling zone, and passing said cooled and conditioned absorbent to the absorption step.

2,318,753
CERAMICS
Willard K. Carter, Columbus, Ohio, assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 1, 1939, Serial No. 307,047
11 Claims. (Cl. 106—73)

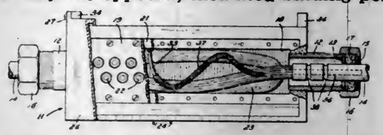
1. A process of producing ceramic articles which comprises the step of incorporating a hydrous zeolite gel with ceramic raw materials.

2,318,754
AERATION OF PLASTER OF PARIS COMPOSITIONS
Conrad Gérard François Cavadino, Rochester, England, assignor to Gyproc Products Limited, London, England, a British limited-liability company
No Drawing. Application December 19, 1939, Serial No. 309,970. In Great Britain December 29, 1938
1 Claim. (Cl. 106—87)

A process for producing aerated plaster of Paris compositions and articles made therefrom, comprising the steps of forming a slurry of plaster of Paris and water and producing bubbles of oxygen in said slurry by the reaction of potassium permanganate with barium peroxide, in the presence of acetic acid.

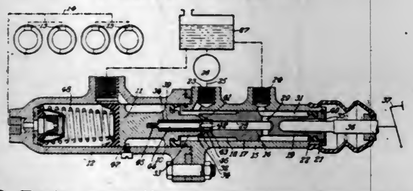
2,318,755
DISTRIBUTING TERMINAL
James W. Channell, San Marino, Calif.
Application March 7, 1941, Serial No. 382,202
3 Claims. (Cl. 174—17)

2. In combination; an electric cable having a sheath which affords a gap whereby the conductors may be exposed; a terminal box enclosing said gap, and through which said cable extends; a gas-supply tube leading from the exterior of the box, by way of said gap, into said sheath to a point spaced from the gap; a gas-tight seal between the walls of said tube and said sheath where they are opposed; insulated binding posts,



extending through a wall of said box, whereby contact may be made with said exposed conductors separately and respectively; and means for filling unoccupied space in the box with insulating material.

2,318,756
BRAKE FOR VEHICLES
Leslie Cyril Chouings, Leamington Spa, England, assignor to Automotive Products Company Limited, Leamington Spa, England
Application September 24, 1941, Serial No. 412,191
In Great Britain December 16, 1940
3 Claims. (Cl. 60—52)

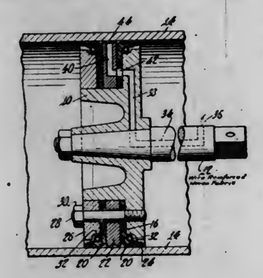


2. Brake operating mechanism for vehicles comprising, brakes on at least some of the wheels of the vehicle, a common operating member for the said brakes comprising a piston, a cylinder in which said piston is mounted, driver operated thrust means for moving said piston to apply the brakes, a housing fixed to and co-axial with said cylinder, a uniform bore through said housing, a plunger in said housing and interposed between said piston and said thrust means, an annular recess formed by a reduced portion of the plunger adjacent the rear end thereof, a pump driven from the vehicle transmission, a connection from the pump to said housing in front of the plunger, a reservoir, a connection from said reservoir to the annular recess, an axial passage in said plunger extending from the forward end thereof to the recessed part of the plunger, a diametral passage connecting said axial passage to the annular recess, a seat at the forward end of the passage, and a valve member integral with the piston adapted at times to engage said seat to build up pressure to act on the piston and apply the brakes.

2,318,757
PACKING
George Christenson, Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application March 5, 1940, Serial No. 322,282
7 Claims. (Cl. 309—33)

1. A cup packing for assembly with a reciprocable piston including surfaces confining a portion of the cup packing therebetween, said cup packing comprising a base composed of fabric and a yieldable plastic impregnant, to be confined by said surfaces, and a peripheral upstanding lip for sliding and sealing engagement with the cylinder wall, a venting means including an

aperture in said base, concentric ribs extending from the faces of said base to reduce the area of contact of said surfaces and faces, and transverse ribs damming the valleys between said con-

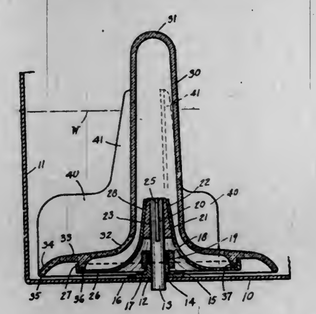


centric ribs at opposite sides of said aperture, said transverse and concentric ribs being composed substantially entirely of said plastic impregnating material.

2,318,758
ANTIOXIDANT
David Craig, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application September 22, 1942, Serial No. 459,287
17 Claims. (Cl. 260—809)

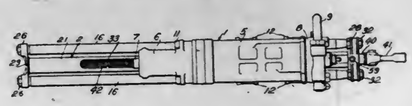
1. The method of retarding the deterioration of an organic substance which tends to deteriorate by the absorption of oxygen from the air which comprises treating it with the product obtained by reacting indene with a secondary diarylamine containing only secondary amino groups in the presence of a condensation catalyst.

2,318,759
COMPOSITE AGITATOR AND DRIVE WITH MOLDED COMPRESSION STRAIN, DRIVEN ELEMENT
Henry Hays Crimmel, Hartford City, Ind.
Application March 6, 1942, Serial No. 433,602
8 Claims. (Cl. 68—134)



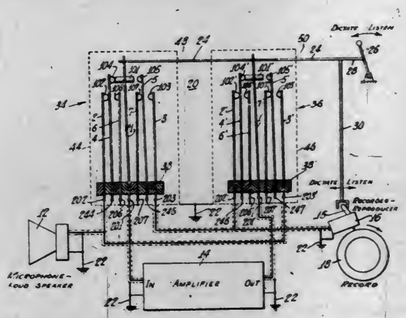
1. An agitator of molded frangible material such as glass and the like, including an upwardly extending central tubular portion and an outwardly directed continuing flange portion at the tubular portion lower end, the outer surface having suitable vanes and the like, a downwardly directed skirt portion at the periphery of the flange portion and forming therewith a lower chamber, and a driving portion extending into said chamber and downwardly from the lower face of the flange portion adjacent the skirt portion and having an external polygonal-like outer face spaced from the interior surface of the skirt, the skirt and driving portions having centers substantially coincident with the central axis of the tubular portion, all portions being integral.

2,318,760
ROCK DRILL
John C. Curtis and Elmer G. Gartin, Claremont, N. H., assignors to Sullivan Machinery Company, a corporation of Massachusetts
Application June 25, 1940, Serial No. 342,327
17 Claims. (Cl. 255—45)



1. In a rock drilling mechanism, in combination, a rock drill, and feeding and supporting means for said drill comprising a central trunnion support, a tubular shaped member secured to said trunnion support and extending longitudinally of said drill, a feed screw arranged within and supported axially of said tubular shaped member, guiding and supporting means for said drill, and means for operatively connecting said rock drill to said feed screw including an annular shaped portion formed on said rock drill and fitting within said tubular shaped member, said annular portion slidably engaging the walls of said tubular member for guided movement longitudinally of the latter, a feed nut in operative engagement with said feed screw, and means for clamping said feed nut to said annular shaped portion.

2,318,761
SHIELDED AMPLIFIER REVERSING SWITCH
Roger C. Curtis, New Haven, Conn., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application December 27, 1941, Serial No. 424,578
13 Claims. (Cl. 200—1)



1. A self-shielding switch structure, comprising, in combination, first contact means, second contact means, conductive means associated with said contact means to open and close a circuit therebetween, said conductive means adapted in

its open-circuit position to be interposed as a shield between said contact means, and means connecting said conductive means to ground when in its open-circuit position.

2,318,762

PROCESS FOR TREATING RICINOLEIC ACID COMPOUNDS

Gifford D. Davis, South Orange, N. J., and Bernard A. Dombrow, New York, N. Y., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application November 22, 1940, Serial No. 366,704
11 Claims. (Cl. 260—398)

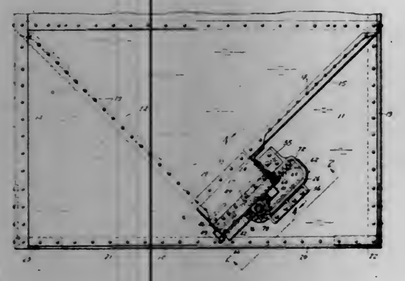
1. A process for the conversion of ricinoleic acid compounds, which comprises reacting a ricinoleic acid compound with a strong alkali at elevated temperatures in a medium constituted chiefly of an inert organic liquid having a relatively high boiling point said inert organic liquid being present in a quantity greater than that of the alkali.

2,318,763

SHIPPING CONTAINER

Frank Ditchfield, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio

Application July 9, 1940, Serial No. 344,545
11 Claims. (Cl. 221—144)



1. A shipping container for bulk materials comprising a base, converging slope sheets spaced apart to provide a discharge opening above the base of the container, a closure for said discharge opening, means including a shaft upon which said closure is swingably mounted for actuating said closure and cooperating means on said container and closure above said base constraining said closure to sliding movement during initial opening and final closing movements, said shaft moving bodily during said sliding movement of said closure, said closure and actuating means being at all times above the base of said container.

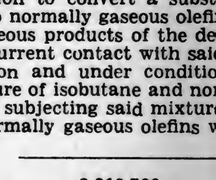
2,318,764

KNIFE GRINDER

George P. Dorris, St. Louis, Mo., assignor, by direct and mesne assignments, to said Dorris, trustee

Application April 19, 1941, Serial No. 389,308
1 Claim. (Cl. 51—128)

A knife grinder, comprising, motor means having an upright shaft, a cup-shaped grinding wheel on said shaft having a flat grinding rim moving in a substantially horizontal plane, a supporting table mounted for vertical adjustment relative to said plane, a blade-engageable guide plate pivoted on said table on an axis transverse to and adjacent the axis of said wheel, means for angularly adjusting said plate on said pivot axis,



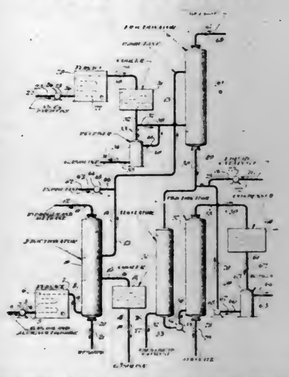
and a blade-edge guide supported above said wheel and extending downwardly into the hollow thereof and having a blade-engageable face positioned on the opposite side of said wheel axis from said guide plate so as to permit the blade to engage said grinding rim adjacent a point thereof on a diameter parallel to said face.

2,318,765

TREATMENT OF HYDROCARBONS

Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application June 10, 1940, Serial No. 339,675
5 Claims. (Cl. 196—10)



5. A process for producing antiknock motor fuel which comprises subjecting hydrocarbons to conversion to produce isobutane therefrom, fractionating the resultant products to separate a liquid isobutane fraction therefrom, simultaneously subjecting normally gaseous paraffins to dehydrogenation to convert a substantial portion thereof into normally gaseous olefins, fractionating the gaseous products of the dehydrogenation in countercurrent contact with said liquid isobutane fraction and under conditions to form a liquid mixture of isobutane and normally gaseous olefins, and subjecting said mixture to alkylation to react normally gaseous olefins with isobutane.

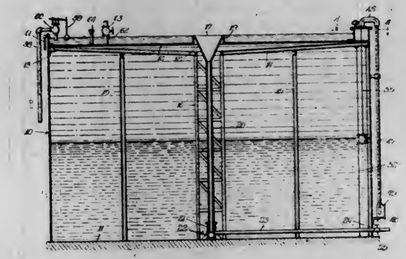
2,318,766

AUTOMATIC HYDRAULIC GASOLINE STORAGE TANK

Clifford A. Ellis, Ridgefield, N. J., assignor to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa., a corporation of Delaware

Application June 21, 1940, Serial No. 341,597
5 Claims. (Cl. 221—67)

1. In a storage tank for volatile liquids, means delivering to the bottom of the tank a liquid of higher specific gravity than the volatile liquid being stored, means automatically controlling the delivery of the liquid of higher specific gravity to the tank as the volatile liquid is withdrawn to maintain the tank completely filled and thus eliminate all vapor space, means for withdrawing the liquid of higher specific gravity when volatile liquid is introduced into the tank, an inlet and outlet member for the volatile liquid located in



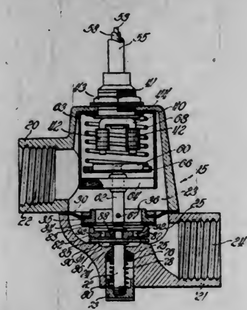
the upper portion of the tank, and float controlled valve means located on said member and operating to regulate the flow of volatile liquid into or from the tank in accordance with the level of the volatile liquid within the tank, said float controlled valve means having a fully opened position for maximum flow only when the volatile liquid within the tank is at a predetermined level.

2,318,767

SAFETY SHUTOFF VALVE

Richard K. Engholdt, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application May 20, 1940, Serial No. 336,144
14 Claims. (Cl. 137—139)



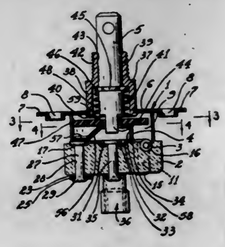
1. In a device of the class described, in combination, a valve body having an inlet and an outlet, first and second movable valve members one having a valve opening therethrough, said one valve member forming a partition between said inlet and outlet preventing flow therebetween except through said opening, said valve members cooperating to effect closure of said opening when they are in seating engagement with each other, means for holding said first movable valve member in position separated from said second movable valve member to permit fluid flow through the device and adapted to release said first valve member for movement into seating engagement with said second valve member to shut off the fluid flow, and cocking means for cocking said first valve member to position in which it is held by said holding means, said second valve member being carried by said cocking means for movement in seating engagement with said first valve member in the cocking operation.

2,318,768

ELECTRIC SWITCH

William M. Foster and Thomas W. Drury, Bronson, Mich., assignors to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan

Application October 26, 1940, Serial No. 362,954
1 Claim. (Cl. 201—56)



An electric switch including, a cupped shaped casing, a relatively thick carrier of insulating material secured to and closing off the open end of said casing, said carrier having a flat side, a pocket provided in the center of said carrier, a ring contact member having a round dished portion fitting within said pocket and an annular portion engaging the flat surface of said carrier, a recess in said carrier concentrically arranged with respect to said ring contact, a resistance element substantially surrounding said ring contact disposed in said recess, the surface of said element adapted to be engaged being arranged in substantially the same plane as the contact surface of said ring contact, a tubular bearing member having a well secured to the opposite end of said casing, operating means rotatably mounted in said bearing, a bridge carrier attached to the inner extremity of said operating means, a bridge member having lugs extending in one direction therefrom interengageable with said bridge carrier and a pair of contact arms extending therefrom in an opposite direction, one of said contact arms being adapted to continuously engage said ring contact and the other contact arm said resistance element, a spring seated in the well of said bearing member and engaging said bridge carrier for urging said bridge member in a direction to engage said ring contact and said element, a stop provided on said casing and a projection on said bridge carrier engageable with said stop for limiting the rotary movement of said bridge member.

2,318,769

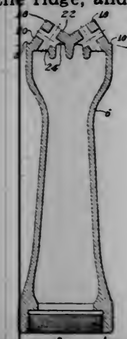
METHOD OF MAKING NOZZLES

Howard G. Freeman and Frank Hencinski, Worcester, Mass., assignors to Rockwood Sprinkler Company, Worcester, Mass., a corporation of Massachusetts

Application November 6, 1941, Serial No. 418,004
5 Claims. (Cl. 29—157)

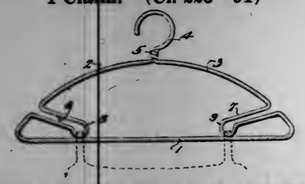
1. The method of making nozzle heads with intersecting nozzle orifices, which consists in forming a hollow metal body with a ridge having walls perpendicular to the center lines of the orifices, drilling through both walls of the ridge perpendicular thereto to form passages inter-

secting within the ridge, and machining off the



ridge to a precise surface to expose the orifices adjacent their intersection.

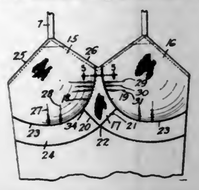
2,318,770
GARMENT HANGER
Richard M. D. Freeman, Goldsboro, N. C.
Application January 30, 1941, Serial No. 376,701
1 Claim. (Cl. 223—91)



A garment hanger of the class described, comprising a continuous length of bendable resilient wire formed into an elongated garment supporting bar and side bars inclining generally upwardly from the respectively opposite ends of the garment supporting bar and terminating in a suspension member located substantially midway between and above the opposite ends of the garment supporting bar, said side bars each being provided with an elongated offset garment gripping member coacting with the garment supporting bar aforesaid, said gripping members each comprising closely spaced parallel arms bent from the respective side bars of the hanger and depending therefrom at an inclination towards the arms of the other gripping member, said arms of each of the respective gripping members defining a garment receiving slot therebetween opening in a generally upward direction, and terminating in a rounded loop normally tensioned against the garment supporting bar and defining a finger hole for moving said gripping member away from the bar and also for receiving the supports of a garment therein upon introduction of said latter supports through the slots between the arms of the gripping members.

2,318,771
SLIP
Sol Friedman, New York, N. Y.
Application February 3, 1942, Serial No. 429,360
4 Claims. (Cl. 2—73)

1. In a slip, a breast section comprising a dividing piece of two thicknesses of straight-cut silk-like woven fabric having concavely curved side edges and inclined bottom edges converging downwardly and inwardly to a vertex, a front panel of the same material as that of the dividing piece having upwardly concave upper edges converging to a vertex at the vertex of the dividing piece and at the middle line of the panel, a pair of spaced bias-cut fabric pocket members of the same material as that of the dividing piece and panel, each pocket member having its lower and one side edge reduced from its normal overall length when flat to a lesser effective length by stitching joining spaced adjacent parts of said lower and side edge together, said stitching extending from said edge approximately toward the center of the pocket, a curved bias cut transverse transition piece extending from the side to the middle front of the slip interposed between each pocket and the adjacent upper edge of the front panel and of the said same material, stitching securing said transverse piece to the lower edge



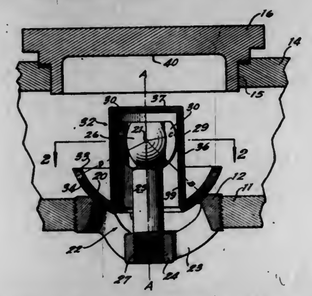
of the pocket and to an inclined edge of the dividing piece, said dividing piece being arranged on the front surface of the pockets and separating the pockets and forming a line of demarcation therebetween and resisting movement of the pockets apart and out of a predetermined position under the pressure of the breasts of the wearer when the slip is in use, the vertices of the dividing piece and panel and the innermost corners of the transition pieces all meeting at a point in substantially horizontal alignment with the lowermost points of the pockets and thereby resisting displacement of the pockets throughout the entire heights thereof while permitting stretching and contraction of the entire front part of the slip between the pockets and the panel.

2,318,772
KNITTED GLOVE
Fred S. Gluck, New York, N. Y., assignor to Waldorf Knitting, Inc., New York, N. Y., a corporation of New York
Application April 10, 1942, Serial No. 438,490
2 Claims. (Cl. 66—174)



1. As a new article of manufacture, a knitted seamless glove having an underside portion having substantially greater resistance to wear than the portion which covers the back of the hand, said glove having circular courses of wool extending transversely of the glove, reenforcement yarns of cotton-like material in the underside portion at least at the hand and fingers of the glove, having substantially greater tensile strength than the wool yarn and extending along the said courses and terminating in free ends at the edges of the underside portion, each reenforcement yarn being knitted with the wool yarn so as to constitute an integral knitted part of each course, the stitches of the wool yarn being under relatively low tension so that the wool is stretchable, soft, and forms a substantial nap, the stitches of the cotton-like yarn being coincident and interlocked with the stitches of the wool yarn and having substantially higher tension so as to produce a reenforcement knitting having substantially less stretchability than the wool knitting and serving to interconnect the wool stitches at a multiplicity of points to thus substantially reduce the stretchability of the wool knitting in said underside portion and prevent undue separation and abrasion of the wool stitches, while causing anchoring of the cotton yarns to prevent slippage adjacent to their free ends, the free ends lying protectively within the glove, and the reenforcement yarn being positioned to lie predominantly at the outer surface of the glove to protectively overlie the wool yarn and to force a substantial part of its adjacent nap inwardly to maintain the insulating quality of the said underside portion of the glove, part of the nap being exposed between the cotton yarns to partially conceal the same.

2,318,773
VALVE
Herbert W. Goetz, Alhambra, Calif., assignor to Patent Royalties, Inc., Huntington Park, Calif., a corporation of California
Application October 12, 1940, Serial No. 360,932
4 Claims. (Cl. 251—127)



1. For use in a valve opening in a pump of the character described, a valve structure comprising the combination of: a combined ring shaped valve seat member and valve guiding member, a valve member having a spherical face and a tubular guiding element closed at its upper end, the valve seat surface of said valve seat being formed as an annular portion of a sphere formed in the ring shaped valve seat member, a spider supported by said ring shaped member to lie below the zone of said valve seat ring, said guiding member extending vertically from said spider and carrying a spherical guiding element at its upper end, said spherical valve seat surface, valve face and guiding element being formed about a common center when the valve is seated.

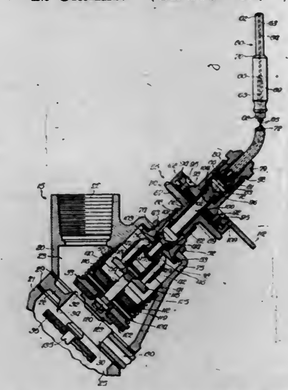
2,318,774
MERCHANDISE DISPLAY
Henry F. Goldsmith, Longport, N. J.
Application April 1, 1941, Serial No. 386,320
3 Claims. (Cl. 35—50)

1. A merchandising unit for displaying and vending women's hair-nets comprising a relatively-flat, cut-out more or less inflexible, generally-lifesize woman's silhouette, the front of said silhouette having face, hair and neck picturizations thereon, said silhouette having a plurality of openings therethrough at the hair picturization thereof, a plurality of different-colored hair-nets each disposed in most part in back of said silhouette and each having a portion thereof passing through one of said openings and forming a more or less compact tuft protruding in front of said silhouette beyond said hair picturization, an outer hair-net placed about said silhouette and enclosing said plurality of hair-nets and said hair picturization, said outer hair-net being relatively elastic at its outer edges and thereby form-



ing a more or less closed and tamper-resisting container for displaying said plurality of transfixing hair-nets, and a support hingedly affixed to the rear of said silhouette at the neck portion thereof and below said outer hair-net, whereby said merchandising unit can be displayed in a generally upright position.

2,318,775
ELECTRIC SWITCH AND TERMINAL CONNECTOR
Stanley S. Guelson, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 29, 1942, Serial No. 428,736
12 Claims. (Cl. 200—51)



1. In a switch of the class described, in combination, first contact means comprising a first contact member and a support for a second contact member, an insulating member interposed between and fixedly secured to said first contact member and to said support spacing them apart axially, a second contact member mounted to turn on said support relative to said first contact member, and interengaging means on said support and said second contact member for imparting a component of movement to at least one of said contact members in a direction generally at right angles to the path of turning movement of said second contact member to produce a wiping and generally wedging con-

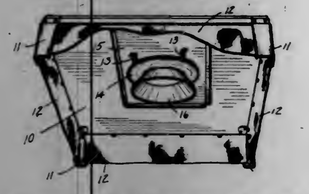
tact between said contact members upon turning said second contact member in one direction and to separate said contact members upon turning said second contact member in the opposite direction.

2,318,776
TENON ANCHOR
Richard J. Haug, Oakland, Maine
Application August 4, 1940, Serial No. 351,311
6 Claims. (Cl. 20—92)



1. A tenon anchor, constructed of a single piece of thin, flat metal bent in the middle to form arms which extend straight to an inward bend formed at an angular extension on each side and then to an outward bend to form an open S bend and which thence extend straight as hands, each having at its outer end an inwardly bent pointed tooth and at each side inwardly raking bent pointed teeth which on each side slope in opposite directions, the width of the anchor at the S bends being less than the diameter of the cylindrical tenon and mortise hole with which it is to be used.

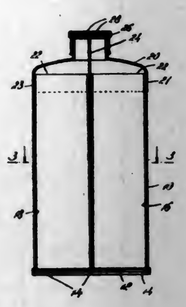
2,318,777
BROODER CONSTRUCTION FOR CHICKS
Dewey H. Hill and Donald B. Tolley, Macomb, Ill., assignors to Globe American Corporation, Kokomo, Ind., a corporation
Application December 15, 1941, Serial No. 422,960
3 Claims. (Cl. 219—34)



3. An air and radiant heater adapted for suspension as a unit from the top portion of a brooder for chicks, comprising an electric heater element of ring-like form, a deflector in the form of a truncated cone extending downwardly and laterally under said element with an outer reflecting surface spaced from said element and angularly disposed relative thereto to receive and direct outwardly radiant heat therefrom, said deflector being open and unobstructed at both ends to provide a flue-like passage for directing heated air upwardly past the heated area thereof, means for securing the upper reduced open end portion of said deflector within said element, and means for supporting said element and deflector as a unit in suspended position.

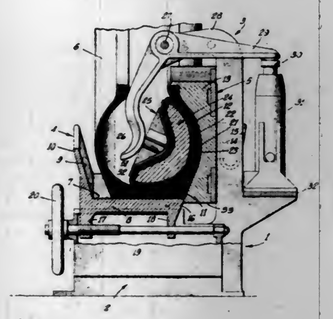
2,318,778
CONTAINER
Benjamin McF. Hines, New York, N. Y., assignor to Vick Chemical Company, New York, N. Y., a corporation of Delaware
Application April 25, 1940, Serial No. 331,581
4 Claims. (Cl. 220—20)

1. A dispensing container comprising a casing having a closed bottom and an open top, a plurality of open-topped sleeves fitting within said casing and having contiguous side walls, said sleeves making a tight fit with the bottom of the casing and having their upper ends extending above the open top of the casing, a cover having a downwardly-extending peripheral flange fitting over the portion of the sleeves



which extend above the top of the casing and having a partition extending from the top thereof downwardly between said contiguous side walls of the sleeves, said cover having an opening in the top thereof at each side of said partition for permitting material within said sleeves to be separately dispensed.

2,318,779
TIRE REPAIRING APPARATUS
Norman G. Hovlid, Torrance, Calif.
Application May 8, 1940, Serial No. 333,975
8 Claims. (Cl. 18—18)



1. In a tire repairing apparatus, the combination of: a support; an arcuate tire supporting plate carried by said support and having a tire engaging surface substantially conforming to a segmental portion of the exterior surface of the side wall of a tire to be repaired; another arcuate tire supporting plate also carried by said support and having a tire engaging surface substantially conforming to a segmental portion of the exterior surface of the tread of a tire to be repaired, said supporting plates being disposed in such relative positions as to extend said tire engaging surfaces transversely of each other to define a space for receiving said tire; means adjustably mounting each of said supporting plates on said support for independent adjustment in planes

substantially parallel to the tire engaging surfaces of said plates toward and away from each other to vary the configuration of said tire receiving space and accommodate tires of different side wall heights and tread widths; and means on said support for exerting the pressure upon the inside of said tire for pressing said tire against at least one of said supporting plates.

7. In a tire repair apparatus, means forming curved surfaces adapted to contact a limited portion of the exterior curved surface of a tire, a pressure transmitting pad adapted to be positioned within the tire and conformable, upon application of pressure thereto, to a portion of the interior surface of the tire, and adjustable to select a portion of the interior arcuate area of the tire cross section to be subjected to the pad pressure, and means, extending into the tire for exerting a pressure upon the pad in any of the adjusted positions of the pad, comprising a pivoted lever having an arm with a curved pressure exerting end, a pressure plate between said pad and said end, and hydraulic means for operating said lever.

2,318,780
COATING COMPOSITION
James Willard Humphrey, Claymont, Del., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 18, 1940, Serial No. 361,717
4 Claims. (Cl. 260—42)

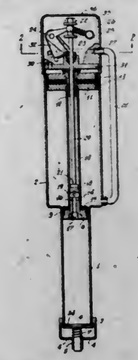
1. A protective coating composition comprising approximately two parts polymerized butyl methacrylate, approximately one part copolymers of vinyl chloride and vinyl acetate and approximately three-fourths part normally solid chlorinated diphenyl.

2,318,781
TREATMENT OF HYDROCARBONS
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 8, 1940, Serial No. 339,489
4 Claims. (Cl. 196—10)

1. A process for synthesizing hydrocarbons which comprises alkylating an isoparaffin with an olefin in the presence of a solid composite resulting from the heating of a mixture of aluminum chloride and a refractory porous material under substantial superatmospheric pressure to a temperature above the normal sublimation point of aluminum chloride.

2,318,782
PRESSURE PUMP
Julius Jorgensen, Detroit, Mich.
Application March 15, 1941, Serial No. 383,487
1 Claim. (Cl. 230—52)

A pump comprising two cylinders of unequal diameter having pistons therein connected by a piston rod for joint movement, the larger of said pistons being subject to a source of negative pressure for actuation thereof, the smaller of said cylinders having a valve overlying the outer end thereof and a cylinder head housing said valve, said piston rod being hollow and having a partition near one end thereof, said piston rod having an opening through the walls thereof between said partition and the smaller of said pistons forming a passage connecting said cylinders, a check valve guarding said passage carried by said smaller piston, a lost motion shaft inside said hollow piston rod on the side of said partition opposite said smaller piston, and a shuttle valve operable by said lost motion device as said pistons approach each end of their strokes,



said shuttle valve alternately connecting one side of said larger piston or the other side of said larger piston and the passage leading to the valve carried by said smaller piston with the atmosphere or with said source of negative pressure supply.

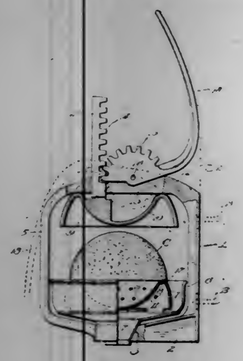
2,318,783
PREPARATION OF COPPER PHTHALOCYANINES
Victor L. King and James W. Foote, Bound Brook, and Don H. W. Felch, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 28, 1941, Serial No. 381,130
9 Claims. (Cl. 260—314)

1. A method of producing a pigment of the copper phthalocyanine type which comprises reacting an aromatic o-dinitrile with anhydrous cupric sulfate in the presence of a practically inert organic diluent liquid and in the presence of at least sufficient ammonia to combine with the sulfate anion set free in the reaction to produce ammonium sulfate and nitrogen, the reaction being carried out in an autoclave under the autogenous pressure of the volatile constituents.

2,318,784
FRUIT JUICE EXTRACTOR
William P. Koch, Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company, a corporation of Illinois
Application March 15, 1941, Serial No. 383,476
2 Claims. (Cl. 100—42)

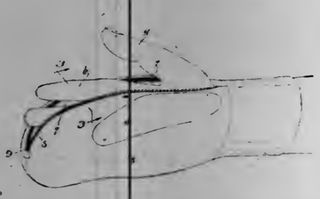
1. A device of the character described, consisting of a flat, continuous, one-piece, vertical metal frame surrounding a large central opening and adapted to stand edge-on with its rear edge in engagement to a vertical wall that is to support the same, the rear member of the frame containing openings for fastenings adapted to secure the frame to the wall, the lower member of the frame containing a hole extending through the same from top to bottom at about the middle thereof, a removable juice receptacle containing a lower die lying directly above the lower member of the frame and having a discharge spout extending through said hole, a lower, circular die arranged within said receptacle, the upper member of the

frame containing a long slot extending lengthwise of that member from top to bottom to a point far forwardly of the vertical axis of the aforesaid receptacle and lower die, a vertical rack bar extending through said slot at the extreme forward end of the latter, a toothed segment located and rotatably supported in said



slot behind and in mesh with said bar, a circular upper die secured eccentrically to the lower end of said rack with its axis coinciding with the axis of the lower die, and a handle extending rearwardly and then upwardly from said segment when the rack bar is at the upper limit of its movement.

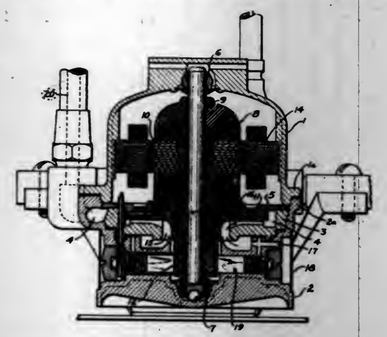
2,318,785
MITTEN
Charles D. Kopplin, Minneapolis, Minn.
Application November 26, 1941, Serial No. 420,484
1 Claim. (Cl. 2—158)



A mitten having a thumb portion formed with a slit extended along one edge thereof just back of the mitten thumb and provided with interlocking fasteners, the said slit and interlocking fasteners being extended from a point approximately at the tip portion of the body of the mitten to a point approximately at the base of the mitten thumb.

2,318,786
CENTRIFUGAL PUMP
Alfred C. Korte and Kenneth Lannert, St. Louis, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application November 5, 1940, Serial No. 364,348
4 Claims. (Cl. 103—87)

1. In a centrifugal pump, a rotor comprising a shaft, an armature core, windings about said core, and a continuous cementitious dielectric mass surrounding said windings and securely bonding together the core, shaft and windings and having an integral portion thereof project-



ing laterally of said shaft to form a disc-shaped impeller.

2,318,787
PREPARATION OF COPPER PHTHALOCYANINES
Harold Talbot Lacey, Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 28, 1941, Serial No. 381,136
9 Claims. (Cl. 260—314)

1. A method of producing a pigment of the copper phthalocyanine type which comprises reacting an aromatic o-dinitrile in the substantial absence of water with cupric sulfate in the presence of a practically inert organic diluent liquid at reaction temperature and in the presence of at least sufficient ammonia to combine with the sulfate anion set free in the reaction to produce ammonium sulfate and nitrogen.

2,318,788
INCORPORATION OF COUPLERS IN NONGELATIN EMULSIONS
John A. Leermakers and Scheuring S. Fierke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 26, 1940, Serial No. 363,012
In Great Britain December 29, 1939
7 Claims. (Cl. 95—7)
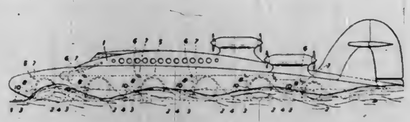


1. The method of preparing a color-forming photographic emulsion which comprises mixing with an emulsion of silver halide in a hydrolyzed cellulose organic acid ester of approximately 19% to approximately 33% acyl content, a compound of gelatin and a coupler capable of gelling and also capable of reacting with the development product of a primary aromatic amino coupling developing agent.

2,318,789
WATERCRAFT
Pietro Clemente Lombardini, Frosterley, England
Application May 23, 1942, Serial No. 444,230
In Great Britain February 4, 1941
5 Claims. (Cl. 114—67)

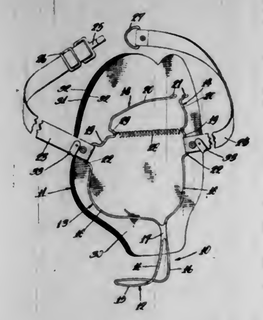
1. Watercraft comprising buoyant body means having a planing surface, cavities in said body

means, rollers in said cavities, and means for re-



tracting and projecting said rollers into and from said cavities.

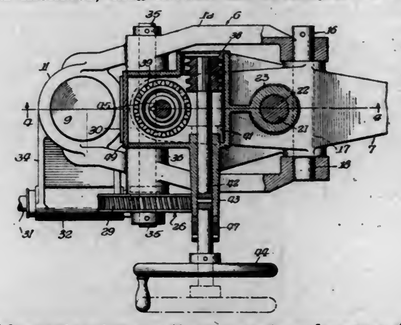
2,318,790
RESPIRATOR
George E. Martindale, Lakewood, and Otto W. Scharping, Cleveland, Ohio, assignors to The Martindale Electric Company, Lakewood, Ohio, a corporation of Ohio
Application September 8, 1941, Serial No. 409,954
5 Claims. (Cl. 128—146)



2. Means for holding flexible air filter means against the nostrils of a wearer, comprising: support means, having spaced parts, and constructed and arranged to be positioned overlying the face of the wearer so that said spaced parts are positioned on the two sides of the nose of the wearer; tie means, having its ends attached to said spaced parts, flexible downwardly relative to said ends, constructed and arranged to be positioned underlying the nose of the wearer when said support means is in position; and means for holding said support means and said tie means in position, constructed and arranged to exert an upward pull on the ends of said tie means to cause said tie means to flex about the base of the nose of the wearer and draw such flexible air filter means against the nostrils of the wearer.

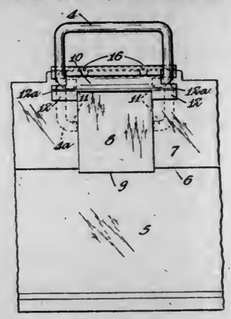
2,318,791
WORK POSITIONER
George C. Mueller, Chicago, Ill., assignor to Cullen-Friestedt Company, Chicago, Ill., a corporation of Illinois
Application March 4, 1940, Serial No. 322,083
6 Claims. (Cl. 29—89)

1. A work positioner adapted for use in connection with welding and comprising a base with a bracket thereon, a member connected pivotally to the bracket so that it is capable of being tilted in a vertical plane, a work supporting table connected to the member so that it is rotatable about its center, irreversible gearing between the member and table for rotating the table relatively to said member, and means for readily rendering



said gearing inoperative so as to release or free the table for manual rotation.

2,318,792
HANDLE FOR STORAGE BATTERIES
George A. Paddock, Stow, Ohio, assignor to National Battery Company, St. Paul, Minn., a corporation of Delaware
Application May 19, 1941, Serial No. 394,064
2 Claims. (Cl. 16—115)

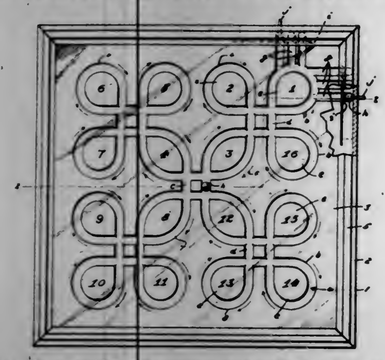


1. A handle for a battery container having an undercut surface on a side wall thereof, comprising: a bracket formed of resilient material and having a panel adapted to extend in contact with an outer surface of said wall, means upon the lower edge of said panel for engaging said undercut surface, a bead forming a continuation of the upper edge of said panel and projecting outwardly from the plane of said panel, a grip member having inturned ends pivoted in said bead, and rigid flanges connected with said bead arranged to positively engage the top and inner surface of said container wall, said bead having upper and lower walls adapted to be spread apart to permit said engaging means to be forced beneath said undercut surface when said rigid flanges are engaged with said top and inner surface of said container wall.

2,318,793
GAME APPARATUS
David E. Pait, Eustis, Fla.
Application September 8, 1941, Serial No. 410,063
1 Claim. (Cl. 273—109)

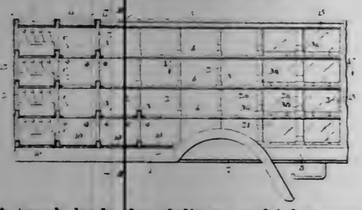
A game board of square form having formed in the upper face thereof a continuous groove in which a ball may be caused to roll under tilting of the board, said groove being arranged to form four clover leaf loop sections in the corners of the board, respectively, and a square by-pass section

in the center of the board establishing communication between one loop of each of said loop sections and a loop of each of the other sections, whereby said ball may be caused to roll in a prescribed path from one section through certain loops thereof into each of the other sections, around certain loops thereof and back into the said one section, said loops forming islands in the



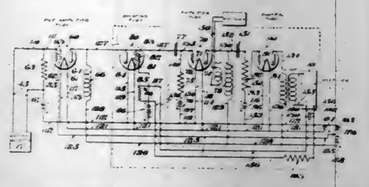
respective sections past certain of which the ball must be rolled in succession to achieve said prescribed course, said islands being numbered in the order of their succession to indicate said prescribed course, a ball for rolling in said groove, and a glass panel covering said board and confining the ball in the groove.

2,318,794
TRUCK BODY
George W. Parker, Jr., Philadelphia, Pa., assignor to Specialty Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application December 1, 1938, Serial No. 243,327. Divided and this application October 24, 1940, Serial No. 362,510
8 Claims. (Cl. 296—3)



1. A truck body for delivery vehicles comprising a pair of laterally-spaced main sills whereof one extends rearwardly beyond the other; uprights arranged at corresponding intervals along the sills within the length of the shorter sill; cross members secured to transversely-aligned pairs of the uprights at different levels, said cross members extending beyond the uprights at opposite sides of the body and providing ledges for supporting, between uprights, cases containing beverage bottles; upper and lower side rails corresponding in length to the longer sill and connecting the ends of the upper and lowermost cross members, the portion of the lowermost rail at one side of the truck rearward of the shorter main sill being depressed; a cross beam abutted by the short main sill and bridged between the long main sill and the depressed end portion of the longer main sill; a sub-sill in line with the short main sill extending rearward from the cross beam; a second sub-sill intermediate the main sill, said second sub-sill extending rearward from the cross beam and being supported at its rear end from a cross member bridged between the end of the first mentioned sub-sill and a short sub-sill suspended from the end of the long main sill; transversely-aligned supplemental uprights rising respectively from the end of the depressed portion of the lowermost side rails aforesaid and the ends of the first and second sub-sills, with resultant formation of a compartment at the rear of the body at one side for the reception of refrigerating coolers such as are used in retail establishments where the bottled beverages are sold; a floor for the compartment supported by the depressed portion of the aforementioned lower side rail and the two first-mentioned sub-sills; other transversely-aligned supplemental intermediate uprights arranged at corresponding intervals along the long main rail and the second sub-sill rearward of the cross beam; and short supplemental cross members secured to said other supplemental uprights terminating at their inner ends at the supplemental uprights rising from said second sub-sill.

2,318,795
SEISMOGRAPH AMPLIFIER SYSTEM
Leo J. Peters, Tulsa, Okla., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application February 18, 1936, Serial No. 64,597
12 Claims. (Cl. 177—352)



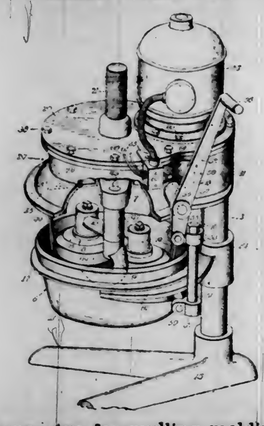
9. In combination, means for detecting a vibratory disturbance, means for amplifying the impulses from said detecting means for recording the amplified impulses, and means actuated by said first mentioned means for controlling the amplification ratio of said amplifier means at such a rate that all phases of the record are of usable amplitude.

2,318,796
METHOD OF MAKING RETRACTILE ARTICLES
René Picard and René Fays, Paris, France; vested in the Alien Property Custodian
No Drawing. Application filed August 15, 1939, Serial No. 290,310. In France February 13, 1939
3 Claims. (Cl. 18—57)

1. The method of making retractile articles, such as caps and bands, having sufficient plasticity and extensibility in the moist or gel state to permit stretching thereof, which comprises molding a solution of a water-insoluble cellulose acetate containing water and a solvent for said cellulose acetate comprising a water-miscible derivative of a polyhydric alcohol into the desired shape or form, the proportions of water and said solvent being such as to maintain said cellulose acetate in solution, coagulating said solution while in said shape or form with a coagulating bath comprising an aqueous solution containing the same cellulose acetate solvent used in the molding solution, the concentration of the water

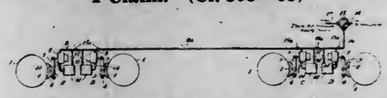
in the coagulating bath being greater than the concentration of the water in the molding solution and sufficient to coagulate said cellulose acetate, and maintaining said molded article in the moist or gel state until at least said article is positioned in place in the ultimate use thereof.

2,318,797
MULLING APPARATUS
Walter F. Piper, Chicago, Ill., assignor to The Beardsley & Piper Company, Chicago, Ill., a corporation of Illinois
Application May 16, 1940, Serial No. 335,491
4 Claims. (Cl. 83—45)



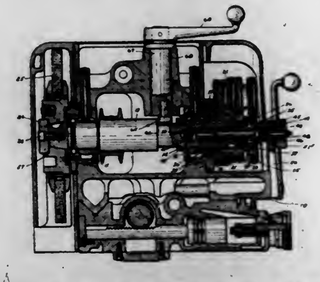
1. An apparatus for mulling molding sand or like granular material, comprising an open top receptacle member for retaining a batch of sand to be mulled, a rotary member of the crosshead type positioned directly above the receptacle member, mechanical means for shifting one of the members vertically to and from the other member into and out of operative relation therewith, a freely rotatable mulling element and a plow type deflector carried by, and depending from, the rotary member and arranged so that when the two members are in operative relation and the rotary member is driven they travel in a circular horizontal course within the receptacle and operate respectively to squeeze the sand against the side wall of the receptacle and to deflect the sand outwards and upwards against said side wall and into the path of the element, and means controlled by said shifting means for automatically rendering the driving means operative when the two members are in operative relation and inoperative when said members are out of operative relation.

2,318,798
FLUID PRESSURE ACTUATED BRAKE SYSTEM
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, a corporation of New York
Application April 2, 1940, Serial No. 327,478
1 Claim. (Cl. 303—63)



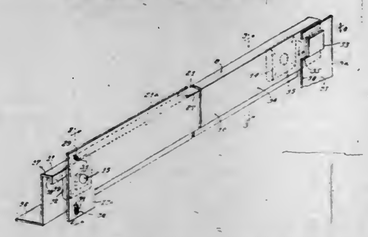
A braking system for a rail vehicle having wheels comprising brake shoes adapted to contact wheels of the vehicle, yielding constant pressure means urging said shoes into contact with respective wheels, fluid pressure means for moving said shoes out of contact with the wheels, manually controllable means for conveying fluid under pressure to said fluid pressure actuated means, fluid reservoirs, means including a non-return valve connecting the reservoirs to said fluid conveying means, means including a manually operable valve connecting said reservoirs to said fluid pressure actuated means, and means connecting said manually operable valves for group actuation.

2,318,799
SPINDLE RECIPROCATING MECHANISM
Ralph E. Price, Highfield, Md., and Harold E. Balsiger, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa.
Application June 23, 1941, Serial No. 399,358
7 Claims. (Cl. 51—34)



1. A grinding wheel mounting including a wheel support, a spindle rotatably mounted therein and means for driving same, a grinding wheel on said spindle, mechanism for effecting a reciprocating movement of said spindle including a member rotatable with said spindle, a second member rotatable at an angular speed differing slightly from that of said spindle, one of said members having an operative surface perpendicular to its axis of rotation, the other of said members having an operative surface tilted at an angle to its axis of rotation, a rolling member adapted to move on said perpendicular surface in contact with said tilted surface, and means for adjusting the angle at which said surface is tilted.

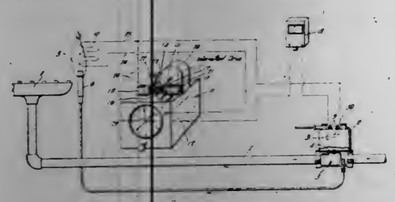
2,318,800
DRAWER SLIDE
Melvin H. Rakow, Elgin, Ill., assignor, by mesne assignments, to Acme Visible Records, Inc., Chicago, Ill., a corporation of Delaware
Application September 30, 1940, Serial No. 359,005
9 Claims. (Cl. 45—77)



7. A drawer slide structure comprising, in combination, a guide rail formed to provide upper

and lower horizontal longitudinal track surfaces thereon, a companion slide rail formed to provide an upper horizontal longitudinal track surface thereon, and a pair of slide blocks one mounted on the front end of the guide rail having an elongated top surface for sliding engagement with the upper track surface on the slide rail and the other mounted on the rear end of the slide rail having substantially parallel elongated top and bottom surfaces for sliding engagement interchangeably with the upper and lower track surfaces on the guide rail.

2,318,801
ELECTRICAL CONTROL SYSTEM FOR VALVES
William A. Ray, Glendale, Calif.
Application April 22, 1940, Serial No. 330,872
5 Claims. (Cl. 236—46)



1. In combination, a source of electricity of limited power, an electromagnet having a magnetic member adapted to be attracted and held by the electromagnet, and connected to said source, and an intermittent load connected in parallel with the electromagnet, said source being capable of energizing the electromagnet sufficiently to cause the electromagnet to attract the member only in those periods when the load does not require power, and capable of energizing the electromagnet sufficiently when the load is energized, for causing the electromagnet to hold the member in attracted position.

2,318,802
TRAILER VEHICLE
Frederick M. Reid, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a corporation of Michigan
Application December 5, 1941, Serial No. 421,710
15 Claims. (Cl. 280—81)



1. In a vehicle, in combination, a pair of frame side members, wheels supporting one end of said frame, said wheels being arranged in pairs spaced from each other transversely of said frame, one wheel of each of said pairs of wheels being located between said frame side members and the remaining wheels of said pairs of wheels being located laterally outwardly of said frame side members, and a slidable connection between each of said pairs of wheels and its corresponding frame side member permitting bodily shiftable movement of each of said pairs of wheels as a unit transversely of the length of said frame.

2,318,803
MARKING COMPOSITION
Wallace K. Schneider and George W. Seagren, Pittsburgh, Pa., assignors to Stoner-Mudge, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 18, 1942, Serial No. 435,132
6 Claims. (Cl. 106—19)

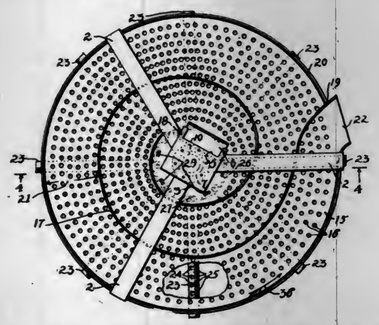
1. A marking material adapted to be applied to a metal surface, preheated to a temperature of no less than 400° F., capable of being subjected to thermal treatment not exceeding the melting point of the metal without loss of legibility, which includes in its composition (1) an inorganic metal oxide pigment combined by fusion with a lead borosilicate ceramic flux, and (2) a cellulose ether binder.

2,318,804
HAIRPIN
Leo C. Shannon, Knox, Ind.
Application August 17, 1942, Serial No. 455,025
7 Claims. (Cl. 132—50)



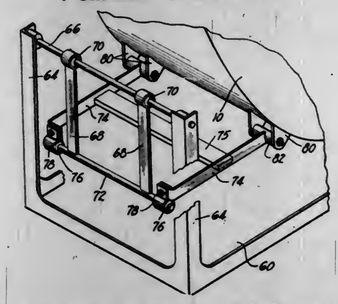
1. A hairpin comprising a head having a pair of spaced substantially parallel bores, and a pair of spaced elongated pins of thin section, each having a tapered end portion firmly seated and adhesively secured in one of said bores, said head and pins being formed from material on which static electricity will not collect.

2,318,805
GRAPE STEMMER
Frank C. Silva, San Jose, Calif.
Application August 27, 1942, Serial No. 456,433
8 Claims. (Cl. 146—55)



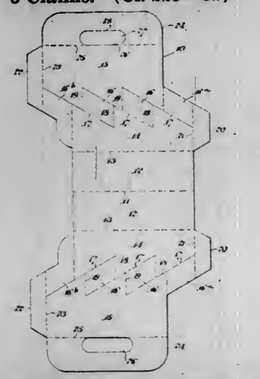
1. A grape stemming device comprising, in combination, a rotating perforated plate, relatively fixed spiral means operative to move grapes on the central portion of the plate outwardly to the periphery thereof, stripper means disposed beneath the plate in operative position to grasp grape stems projecting downwardly through the perforations in the plate, and means operative to remove the stems retained by the stripper means.

2,318,806
CLEANING MACHINE
Kenneth O. Sisson, Dayton, Ohio, and Carl E. Bowyer, South Bend, Ind., assignors to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application August 8, 1940, Serial No. 351,884
7 Claims. (Cl. 248—18)



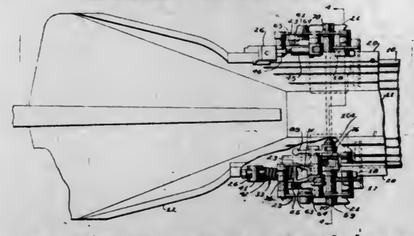
1. A mounting for an out-of-balance load rotatable about a relatively horizontal axis comprising a container member through which said axis extends, said container member being movable responsive to the forces created by the rotation of the out-of-balance load contained therein, a base member, a pair of links pivoted together at one end of each at a substantial angle to one another, the remote end of one link being pivoted to the container member and the remote end of the other link being pivoted to a portion of the base member at least one of the pivotal connections with the link pivoted to the container member, including a rubber sleeve in normal torsion sufficient to keep the links of the pair at a substantial angle to one another.

2,318,807
CARRIER FOR BOTTLES AND THE LIKE
Julian B. Slevin, Jr., Drexel Hill, Pa.
Application April 24, 1940, Serial No. 331,279
8 Claims. (Cl. 229—52)



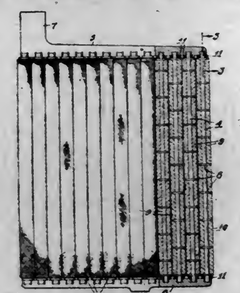
1. A carrier for containers such as bottles and the like, comprising a sheet of flexible material blanked and creased to provide bottom panels joined to each other along a transverse crease line, side sections joined to the bottom panels along transverse crease lines, upper sections connected to said side sections, the means for connecting said upper sections to said side sections comprising inclined strips joined to said sections along longitudinal crease lines, handle portions joined to the aforesaid upper sections along transverse crease lines, and fastening means for securing the upper sections to each other, each side section having a tab at one end of the structure which is joined to said section and to the inclined strip at that end of the structure along a longitudinal crease line, said tabs being turned inwardly and fastened to said inclined strips.

2,318,808
FEEDER HEAD FOR SHAKER CONVEYERS
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 29, 1941, Serial No. 412,749
12 Claims. (Cl. 198—220)



1. In a feeding mechanism for shaker conveyers and in combination with an extensible trough section, a connecting frame reciprocably driven by the conveyer, a carrier member, gripping means carried by said carrier member, a linkage connection between the lower end of said carrier member and said frame, another linkage connection between the upper end of said carrier member and said frame, said linkage connections being relatively movable with respect to said frame, stopping means on said frame, and means selectively operable to hold either one or both of said linkage connections in engagement with said stopping means, to cause said linkage connection, held in engagement with said stopping means, to bodily move with said frame and exert a force on said carrier member to cause said gripping means to extensibly or retractibly move said extensible trough section with respect to the conveyer, or to move said trough section with the conveyer.

2,318,809
POSITIVE ELECTRODE FOR STORAGE BATTERIES
Almond H. Snyder, Lancaster, N. Y., assignor to National Battery Company, St. Paul, Minn., a corporation of Delaware
Application April 14, 1937, Serial No. 136,843
2 Claims. (Cl. 136—55)



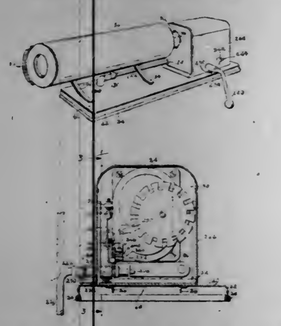
2. For storage battery plates comprising pencils

of active material or material to become active mounted on metallic rods, joined at their ends to top and bottom bars, glass wool fabric tubes constituting self-sustaining structures and having continuous, uninterrupted walls enclosing the pencils, and individually attachable rings constricting the ends of the tubes on the rods.

2,318,810
PREPARATION OF ACID VEGETABLE JUICES
John G. Souther, Alameda, Calif., assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif., a corporation of Nevada
No Drawing. Application October 25, 1940, Serial No. 362,791
3 Claims. (Cl. 99—105)

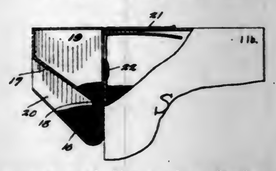
1. The process of making fermented acid vegetable juice from a vegetable which comprises liberating juice from said vegetable, and subjecting said juice to lactic acid fermentation which consists essentially of two stages, an earlier of said stages being at a temperature more favorable to the growth of flavor-producing lactic acid-forming organisms than to other lactic acid-forming organisms, and a subsequent stage being at a higher temperature more favorable to the growth of said other lactic acid-forming organisms.

2,318,811
ELECTRIC IRONER
Walter A. Spear, Cincinnati, Ohio, assignor to Victor Electric Products, Inc., Cincinnati, Ohio, a corporation of Ohio
Application November 12, 1938, Serial No. 239,927
13 Claims. (Cl. 38—60)



2. In an ironing machine having an ironing element mounted for movement into and out of engagement with a rotatably mounted roll driven by an electric motor, the combination including control means for actuating the ironing element into and out of engagement with said roll, said control means including a toggle mechanism mounted for movement past center into engagement with a stop for locking the ironing element in engagement with the roll, and a lever for actuating the control means, said lever having an up and hand operating position for swinging the toggle mechanism past center so as to lock the ironing element in engagement with the roll, said lever also having a down and knee operating position and a stop mounted in the path of the lever when in the knee operating position for arresting its movement when the toggle mechanism has actuated the ironing element into engagement with the roll but before the toggle mechanism has advanced past dead center, so that as the pressure of the knee against the lever is released, the ironing element moves out of engagement with the roll.

2,318,812
MEASURING AND DISPENSING DEVICE FOR PACKAGED MATERIAL
Edward J. Spilo, Chicago, Ill.
Application May 19, 1941, Serial No. 394,208
1 Claim. (Cl. 221—98)

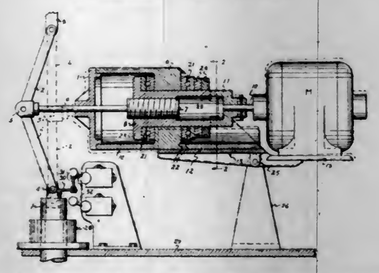


A measuring and dispensing device comprising a body having an inclined bottom wall, a partition within the body and arranged in parallel spaced relation with the inclined bottom wall, the inner end of the partition being spaced from the rear wall of the body providing a passageway, said partition dividing the body into an upper reservoir and a lower pouring spout communicating through said passageway, a clip embodying a pair of spring fingers, extending laterally from the upper edge of the body and adapted to engage over the end wall of a package with which the device is used, securing the device to the package, and said body and package having registering openings through which material passes from the package to the reservoir of the device.

2,318,813
METHOD OF PRESERVING LATEX AND PRODUCT THEREOF
William D. Stewart, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application December 21, 1940, Serial No. 371,205
11 Claims. (Cl. 260—820)

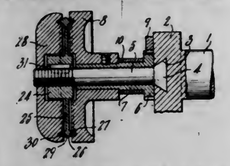
1. The method of preserving latex which comprises adjusting the pH of the latex to not less than 9.8 nor more than 10.0 and adding a small proportion of acetaldehyde-ammonia.

2,318,814
MOTOR DRIVE FOR TOGGLE LINKS
George F. Strong, Grosse Pointe Farms, Mich.
Application April 7, 1942, Serial No. 437,995
9 Claims. (Cl. 74—25)



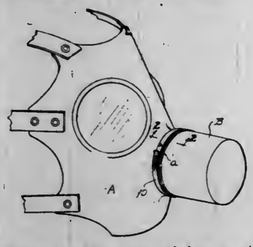
1. The combination with two coaxial members having interengaged screw threads, one of said members being rotative to drive the other along their common axis, of a reversible electric motor driving the rotary member, a slide guide for the driven member, a pair of toggle links actuable by the driven member, and a plunger actuable by the toggle links, and means for guiding the plunger in a straight line motion.

2,318,815
LOCKING ADJUSTMENT
Charles J. Stuart, Medford, Mass., assignor to Wellman Company, Medford, Mass., a corporation of Maine
Application November 9, 1940, Serial No. 364,964
10 Claims. (Cl. 287—53)



7. A locking adjustment comprising a shaft, an adjusting member rotatable thereon, a locking member threadedly adjustable on said shaft toward and from said first member, said members having opposed faces, a relatively thin and flexible disc non-rotatably mounted on said shaft between said members, oppositely outwardly directed projections disposed adjacent the periphery of said disc, and recesses, complementary to said projections, disposed on the faces of said two members, walls of said projections and recesses forming frictionally engageable locking surfaces.

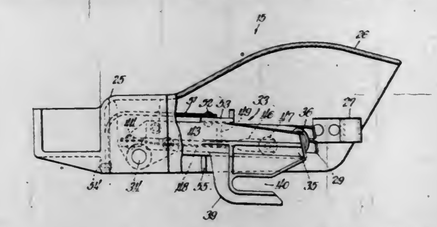
2,318,816
FASTENING DEVICE
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application June 27, 1942, Serial No. 448,741
18 Claims. (Cl. 24—206)



1. A fastening device comprising a strip of material adapted to extend around the parts to be joined, one end portion of the strip having a slot with an enlargement adjacent the end of the strip and the other end portion having a pawl formed to extend through the enlargement and thereafter overhang the face of that portion of the strip back of the enlargement.

2,318,817
FUSE CONSTRUCTION
Hugh A. Triplett, Wilmette, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application November 13, 1939, Serial No. 304,035
13 Claims. (Cl. 200—134)

7. A hinge and contact assembly for supporting a fuse tube and establishing a circuit to a terminal thereon having trunnions extending from opposite sides and a contact arm extending therefrom comprising in combination, a housing open at the front for receiving said contact arm therein and having slotted openings in the side walls for receiving said trunnions, an inverted U-shaped flexible contact finger having one leg secured to the rear wall of said housing and the other leg turned back on itself to provide a curved surface for engaging said contact arms,



an inverted U-shaped leaf spring having one leg commonly secured with said one leg of said contact finger to said rear wall and the other leg engaging and biasing said other leg of said contact finger outwardly, and a stop pin extending between said side walls of said housing and through the opening formed by said turned back portion of said contact finger for limiting its free movement under the influence of said biasing means.

2,318,818
PRODUCTION OF COLORED PHOTOGRAPHIC IMAGES
Alan Gilbert Tull, Purley, England, assignor to Latta Syndicate Limited, London, England, a British company
No Drawing. Application April 3, 1941, Serial No. 386,744. In Great Britain April 4, 1940
8 Claims. (Cl. 95—2)

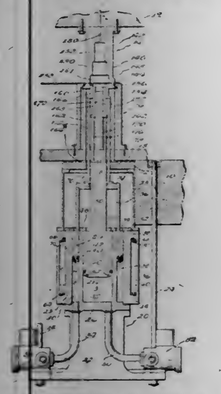
1. A method of producing a colored photographic image, which comprises producing a uranium ferrocyanide image; bathing said image in a zinc salt bath to form a zinc salt mordant image by reaction with the uranium ferrocyanide; and dye toning with a dye which mordants to said mordant image.

5. A method of producing multi-color photographic images in a multi-layer photographic material, comprising forming silver ferrocyanide images in said layers, treating in a mixed toning bath containing a ferric salt and a uranium salt to form a Prussian blue image in the outer layer and a uranium ferrocyanide image in the following layer, treating in a zinc salt bath to convert the uranium ferrocyanide into a zinc salt mordant and dye toning the said mordant.

2,318,819
MULTIPLE ACTION PUNCH PRESS DIE AND CUSHION
David C. Verson, Chicago, Ill.
Application December 12, 1940, Serial No. 369,783
7 Claims. (Cl. 113—46)

1. A punch press device comprising a central immovable punch, an annular punch surrounding said immovable punch and adapted for movement relative to said immovable punch, a die cushion piston adapted to support said annular punch with its outer end beyond the outer end of said immovable punch, and means cooperating with said die cushion piston to enable said piston to support different degrees of pressure during different portions of the punch press

stroke, the last said means comprising a cylinder fitted to said piston, means to fill said cylinder with hydraulic fluid, escape valve means adapted to retain fluid in said cylinder until a predetermined cylinder pressure has been



reached after which said valve means is adapted to open to permit escape of fluid under restraint, and means subsequently operative during the press stroke to cause said valve means to release said fluid at a positive pressure lower than said predetermined pressure.

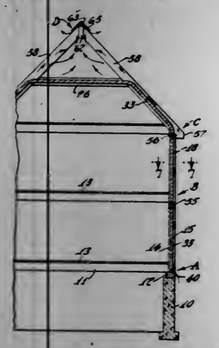
2,318,820

BUILDING CONSTRUCTION

Paul A. Voigt, Bellerose Manor, and Johan E. Johansen, Brooklyn, N. Y., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application June 4, 1938, Serial No. 211,708

8 Claims. (Cl. 20—1)



1. In combination with a wooden frame building structure including a top attic space and a wall comprising a foundation sill, a foot plate and a header plate upon which is secured a sheathing and siding on the outside and an interior finish upon the inner side, insulation within the wall between the sheathing and the siding and the interior finish allowing a passageway between the sheathing and siding and the insulation, and means for separating the sheathing from the sill, foot plate, and header plate to provide for circulation of air from the outdoors into the wall at the foundation sill and up between the sheathing and the sill, foot plate and header plate into the attic space of the building structure.

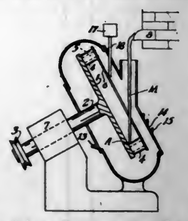
2,318,821

METHOD AND APPARATUS FOR MAKING FIBROUS MINERAL MATERIAL

Burton Wallrath and Leonard Basinski, Saginaw, Mich., assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application September 16, 1940, Serial No. 357,012

8 Claims. (Cl. 83—91)



1. In a machine for use in the manufacture of mineral wool; in combination, a disk-like member mounted for rotation at relatively high speed in a plane acutely angularly related to the vertical; upstanding spinner projections thereon arranged in a circle and spaced apart peripherally, a ring member connecting the ends of said projections; means for flowing in a generally vertical direction a stream of molten material at relatively low feed velocity to the inner peripheral surfaces of said spinner projections during their revolution; the relative arrangement of said supply stream and spinners being such that the bottom of the stream contacts with the spinners only at a point near the bottom of their circle of revolution; and a casing surrounding said rotor having an axial air inlet and a tangential discharge outlet adjacent the bottom of the circle of revolution defined by the spinners.

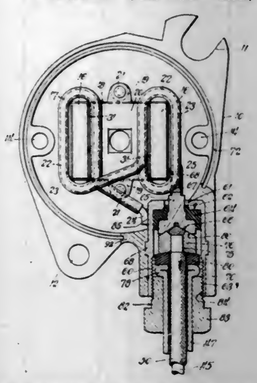
2,318,822

LEAD CONNECTOR

Clarence Wantz, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application September 11, 1939, Serial No. 294,264

1 Claim. (Cl. 173—328)



A lead connector comprising a generally cup-shaped member having at its inner end an end wall provided with an opening and open at its outer end, a connector stud having a headed end disposed within said cup-shaped member in proximity to the end wall at the inner end of said member, said connector stud having a shank extending through the opening in the end wall

of said generally cup-shaped member, a pair of terminal leads one connected to the shank of said stud and the other connected to said generally cup-shaped member, insulating means positioned within said generally cup-shaped member between the wall at the inner end of said member and the headed inner end of said stud, a pair of concentric lead conductors insulated from each other and adapted to enter the open end of said generally cup-shaped member, a contact on the inner end of one of said lead conductors, a flanged portion at the inner end of the other lead conductor, insulating means between said contact and said flanged portion, and a connector nut having detachable connection with the outer end of said generally cup-shaped member and cooperable with the flanged portion at the inner end of one lead conductor for clamping the contact at the end of the other lead conductor in contact with the headed inner end of said stud and connecting the lead conductor with the flange at its inner end in circuit with the terminal lead connected thru said generally cup-shaped member.

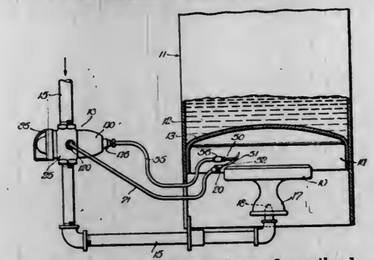
2,318,823

SAFETY SHUT-OFF AND CONTROL DEVICE

Clarence Wantz, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application January 13, 1941, Serial No. 374,237

9 Claims. (Cl. 137—144)



1. In a device of the class described, a first valve member, an electromagnet, an armature for said electromagnet which, when attracted, holds said first valve member in open position, said first valve member being operable to closed position when said armature is retracted, a rotatable valve plug for controlling the flow through said device, reset means mounted for reciprocatory movement in said valve plug and operative to reset said armature to attracted position and said first valve member to open position, a handle fixed on the valve plug to turn the valve plug when the handle is turned and slidable along the valve plug to actuate said reset means, and means for preventing sliding movement of the handle along the valve plug except when said valve plug is in closed position.

3. In combination, a rotatable valve plug, a stem mounted for reciprocatory movement in said valve plug, and a handle fixed on the valve plug to turn the valve plug when the handle is turned and slidable bodily and in a rectilinear direction along and relative to the valve plug to actuate said stem.

2,318,824

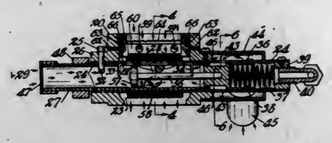
FUEL VAPORIZER

Isaac W. Wepplo, Minneapolis, Minn.

Application August 31, 1942, Serial No. 456,753

3 Claims. (Cl. 48—180)

1. A fuel vaporizer for internal combustion engines adapted for use in the intake passage of the engine between the carburetor and intake manifold thereof comprising, a casing providing a chamber to be located between said carburetor and manifold and having an inlet and an outlet adapted for communication with said carburetor and manifold respectively, a sleeve extending into said chamber having firing charge inlet and outlet apertures in its wall and having an air



inlet therein communicating with said charge outlet apertures, a piston slidable in said sleeve, means for yieldably urging said piston in one direction to close said air inlet, and a negative pressure connection between said intake manifold and said sleeve at one side of said piston to move said piston against said yieldable means, and a screen in said chamber in the flow path of vapors issuing from the outlet apertures in the wall of said sleeve.

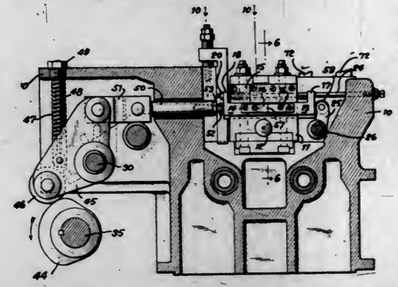
2,318,825

CUTOFF AND TRANSFER MECHANISM

Richard Lester Wilcox, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a corporation of Connecticut

Application April 2, 1942, Serial No. 437,417

26 Claims. (Cl. 10—25)



1. In a device of the character described; mechanism for cutting off a portion of a length of wire, rod or the like at one station, comprising in part companion cutters which receive and grip the wire therebetween during the cut-off operation and while so gripped cut off the gripped portion and carry it by a straight line movement to another station; and means for separating the cutters at both stations, whereby the wire and workpieces may move freely therebetween.

2,318,826

MEANS FOR PRODUCING A BATH LIQUID, SPRAY, OR THE LIKE

Frederick William Willis and Albert Simpson, Belfast, Northern Ireland

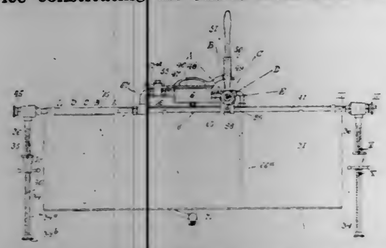
Application December 20, 1939, Serial No. 310,142

In Great Britain March 14, 1938

14 Claims. (Cl. 299—84)

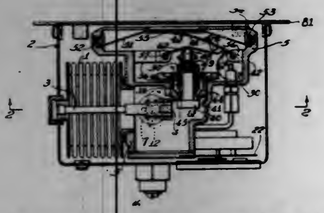
1. Apparatus for aerating liquid by intermixing liquid from a source of liquid and a gas, the apparatus comprising a container for said gas, inlet means in said container for admitting liquid

from said source so that the gas may be displaced under pressure by the rise of the liquid in said container, a confined mixing chamber, a passage between said container and said chamber for supplying displaced gas from the former to the latter, and means for supplying liquid from said source to said confined chamber simultaneously with the gas so as to cause mixing in said chamber and the production of aerated liquid, a spray device constituting an outlet from said mixing



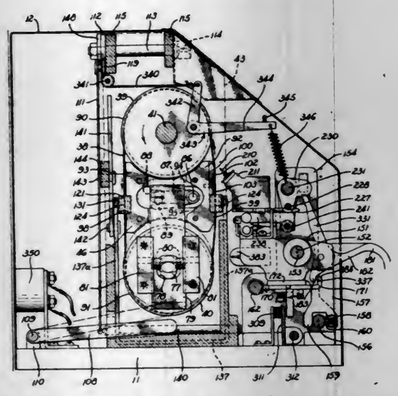
chamber, the spray device being movable between an in-use position and an out-of-use position and comprising a hollow arm formed with radially directed discharge-perforations, and a bearing in which the arm is torsionally adjustable to allow variation of the discharge angle from the arm, a valve controlling the delivery of aerated liquid from said spray device, the valve being opened to allow such delivery by movement of the spray device from out-of-use position to in-use position.

2,318,827
VALVE
William P. Yant, Murraysville, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application March 3, 1941, Serial No. 381,518
4 Claims. (Cl. 137—153)



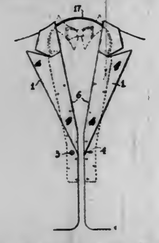
1. In a respiratory oxygen regulator including a housing having a fluid passage, an inlet and an outlet opening connected to the passage, the inlet opening being connectable to a source of oxygen and the outlet opening being connectable to a facepiece, a partition in the passage to define an outlet chamber connected to the outlet opening and having an opening therein, a normally closed valve in the opening and having a portion extending into the outlet chamber, a pair of levers pivotally supported to the housing and having their free ends oppositely directed and adapted to overlie each other, the inner lever engaging the valve and having its free end engaging the outer lever near its pivotal connection to the housing, each lever support being in substantially transverse alignment, each lever extending above its support when in normal position, a diagphragm means in the outlet chamber and having a predetermined area subjected to pressure in the outlet chamber and adapted to be moved inwardly during inhalation, the free end portion of the outer lever being arranged to engage the diaphragm, a fulcrum means between the levers, said fulcrum means being spaced longitudinally of the levers from said free end of the inner lever, the lever system being so arranged relative to the diaphragm and the valve to increase the pressure applied by initial inward movement of the diaphragm to the outer lever to open the valve and to increase the rate of movement of the valve to full open position by continued inward movement of the diaphragm while maintaining a sufficient applied pressure to continue opening of the valve.

2,318,828
PHONOGRAPH
Simon Yerkovich, Bridgeport, Conn., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application November 23, 1940, Serial No. 366,849
39 Claims. (Cl. 274—11)



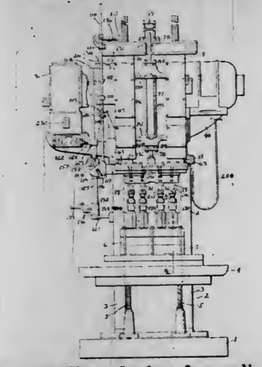
24. In apparatus for translating vibrations between a record medium and a vibratable medium, the combination of, two drums for supporting an endless flexible record element, mounting means rotatably positioning said drums with their axes approximately parallel and separated by a predetermined normal distance for movably supporting said record element under tension to move in a given path over said drums, biasing means exerting a force yieldingly urging said drums apart to hold said record element under tension when the axes of said drums are separated by said predetermined normal spacing, a translating device, means for slidably mounting said translating device for movement in a path parallel to the axes of said drums and in cooperative relationship with said record element to translate vibrations therebetween, traversing means for moving said device in said path to traverse said record element, driving means for rotating one of said drums to move said record element in said given path over said drums and moving said traversing means in correlation therewith including a clutch, backspacing mechanism operatively connected with said translating device for moving it in a direction opposite the motion caused by said traversing means, electric control means for said clutch and said backspacing mechanism, adjusting means operating against said biasing means for decreasing the normal axial distance between said drums to permit removal of said record element therefrom, and locking means in said electric control means operatively connected with said adjusting means and automatically actuated by operation thereof in decreasing said axial distance to render said electric control means inoperative.

2,318,829
LAPEL
David Zimmerman, Cleveland, Ohio
Application December 4, 1941, Serial No. 421,601
2 Claims. (Cl. 2—93)



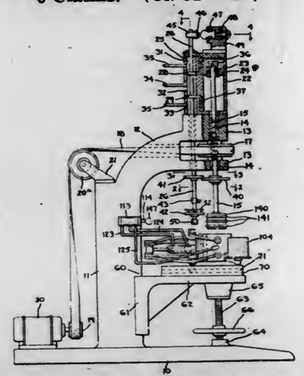
1. In a lapel attachment for coats, a facing, a lining member underlying the facing and secured thereto along its entire periphery, said lining having an opening therein and extending longitudinally thereof for receiving a coat lapel, that portion of the lining between said opening and the outer edge of the lapel being relieved at one end only transversely from the opening to the outer edge of the lapel and constituting a flap, and quick releasable fastening means on the underside of said flap for securing the flap to the underside of the coat lapel.

2,318,830
HONING MACHINE
George Crompton, Jr., Worcester, Mass, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application July 19, 1938, Serial No. 219,988
10 Claims. (Cl. 51—34)



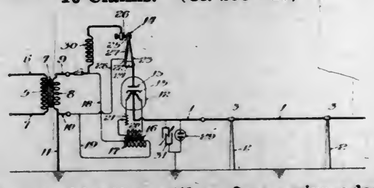
9. In a grinding device for cylinder bores, a plurality of abrading tools, means for driving said tools simultaneously in rotation and reciprocation, a plurality of expandable and retractable abrading stones in each tool, means in each tool for expanding said stones within said bore, means in each tool for retracting said stones, and means for actuating said contracting means after a predetermined expansion of said stones, means for moving said tools from the bores, and means actuated after the stones of all of said tools have been retracted for rendering said moving means effective.

2,318,831
HONING APPARATUS
Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass, a corporation of Massachusetts
Application May 10, 1941, Serial No. 392,833
6 Claims. (Cl. 51—151)



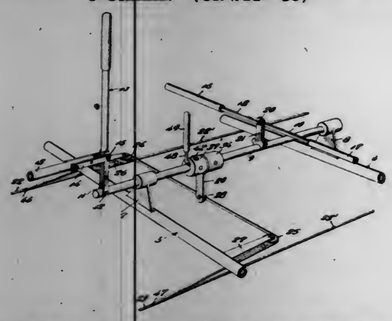
1. In apparatus of the class described, a pair of hollow partial cylinders which when joined constitute a substantially complete hollow cylinder, supply means for sheet abrasive material outside of said hollow cylinder including means for removing used material mounted to hold both sides of a loop of such sheet abrasive material into one joint between said pair of partial cylinders when said partial cylinders are closed, means also outside of said hollow cylinder around which the end of said loop of sheet abrasive material may be passed and positioned to hold said loop adjacent and allowing it to pass through the other joint between said pair of partial cylinders, chambers inside of each of said partial cylinders connected to holes extending to the inside surface of said hollow partial cylinders, vacuum means connected to said chambers, and means for clamping said hollow partial cylinders together and for separating them and unitary means for controlling said vacuum means and said clamping and separating means.

2,318,832
ELECTRIC FENCE
John Roach, Milwaukee, Wis., assignor of one-half to Edwin B. H. Tower, Jr., Milwaukee, Wis.
Application April 9, 1937, Serial No. 135,867
16 Claims. (Cl. 256—10)



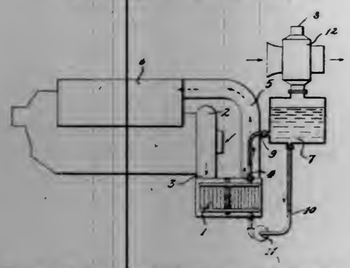
5. In combination with a fence wire adapted to be electrically grounded through the body of an animal contacting the same, a current supply, means connected with the wire and adapted to store up a high value electrical charge which is adapted to be spontaneously discharged and spent upon grounding of the wire through the body of an animal in contact with the wire, and means limiting the current supply to the wire during the grounding thereof.

2,318,833
AIRPLANE CONTROL
Robert George Stambach, Pekin, Ill.
Application February 17, 1942, Serial No. 431,287
3 Claims. (Cl. 244—83)



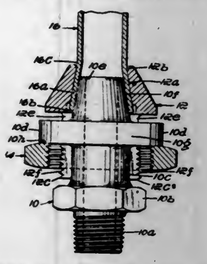
1. Apparatus for controlling the elevators, the rudder, and the ailerons of an airplane having support members and push-pull elements operatively connected to the elevators, the rudder, and the ailerons, respectively, said apparatus comprising forward and rearward journal brackets on said support members, a longitudinal shaft rotatably supported in said journal brackets, a stick pivoted to rise from the rearward part of said shaft for forward and rearward movement relative to said shaft, a pivotal connection on said stick for the push-pull element of the elevators projecting rearwardly from said stick at a point above the lower end of the stick, an arm rising from a forward portion of said shaft and to which the transversely arranged push-pull elements of the ailerons are connected for operation by sidewise movement of the stick accompanied by rotation of said shaft in opposite directions, and a clutch member on said shaft having a clutch lever operatively connected to the transversely extending push-pull elements of the rudder to work the rudder by lateral swinging of said stick and corresponding rotation of said shaft.

2,318,834
SYSTEM, IN PARTICULAR TO INTERNAL COMBUSTION ENGINE, INCLUDING COMPRESSORS
Louis Birkigt, Versoix, near Geneva, Switzerland
Application October 3, 1941, Serial No. 413,527
In France April 13, 1940
8 Claims. (Cl. 123—119)



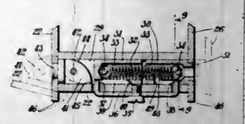
5. In a system including an internal combustion engine and a supercharger for compressing the fluid to be fed to said engine, a device for cooling said fluid passing from said supercharger to said engine, which comprises, in combination, a passage for leading to said engine the stream of fluid from said supercharger, a radiator in said passage, a tank communicating with said radiator and having an aperture opening directly into the atmosphere, a liquid filling said radiator and at least a portion of said tank, for taking off, through the wall of said radiator, heat from the fluid on its way toward said engine, the temperature of said liquid being at most equal to its boiling point at the surrounding atmospheric pressure in view of the communication of said tank with the atmosphere, and condenser means for recuperating at least a portion of the liquid evaporated from said radiator.

2,318,835
COMPRESSION COUPLING
Gustave A. Borg, Providence, R. I., assignor to General Fire Extinguisher Company, Providence, R. I., a corporation of Delaware
Application October 7, 1941, Serial No. 413,976
2 Claims. (Cl. 285—86)



1. A compression coupling comprising a male member having a clamping surface adapted to engage the inner surface of the flared end of a pipe and having a transversely disposed arm portion, a female member having a clamping surface adapted to engage the outer surface of the flared end of the pipe and having a transversely disposed slot to receive said arm portion to thereby prevent relative rotation between said members, and a nut adapted to be screwed along said female member to engage said arm portion for effecting relative axial movement of said members to clamp said flared pipe end between said clamping surfaces.

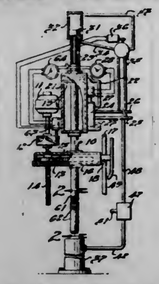
2,318,836
SEWING MACHINE COVER PLATE
Andrew B. Clayton, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 12, 1941, Serial No. 410,521
8 Claims. (Cl. 112—258)



1. In a sewing machine, the combination of a hollow frame having an inspection opening therein and a cylindrical aperture adjacent said inspection opening, a cylindrically shaped plunger shiftably mounted within said aperture, said plunger being provided with a longitudinally disposed central bore and a slot formed in the outer surface of the plunger and disposed lengthwise thereof, a coil spring having one end secured within said bore and the other end secured without said plunger so as to force the plunger into said aperture, a guide and stop element carried by said frame, said element engaging said slot for

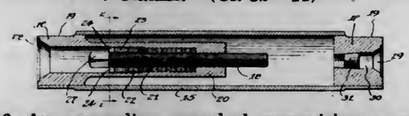
the purpose of preventing rotative movement and for limiting the shifting movements of said plunger, a hinge-piece pivotally mounted upon the outer end of said plunger, and a cover-plate fixedly secured to said hinge-piece and adapted to normally cover said inspection opening.

2,318,837
PISTON RING HONING METHOD
Kirke W. Connor, Detroit, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application January 31, 1940, Serial No. 316,641
4 Claims. (Cl. 51—290)



2. The method of machining the outer surface of a plurality of split rings which includes the steps of; clamping the rings when collapsed, inserting the rings within a tool having abrading elements which are radially moved into engagement with the outer surface thereof, rotating and reciprocating the rings relative to the abrasive elements to produce a honing operation, and thereafter discontinuing the rotary movement and finishing the entire surface of the rings by a relative movement in reciprocation only between the abrasive elements and the rings.

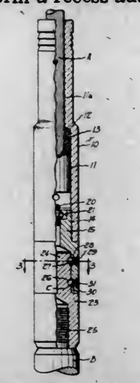
2,318,838
HYDROSTATIC MANDREL
Conrad M. Conradson, Detroit, Mich.; Frederick R. Walter, administrator of said Conrad M. Conradson, deceased, assignor, by mesne assignments, to Oscar Christianson, Madison, Wis., as trustee
Application March 22, 1940, Serial No. 325,387
7 Claims. (Cl. 82—44)



6. An expanding mandrel comprising a relatively thin walled cylinder, means closing one end thereof. and forming a center support therefor, sealing means for the other end of said cylinder, said sealing means incorporating an adjustable rod adapted to project into and directly contact an incompressible fluid when said mandrel is completely filled with said incompressible fluid.

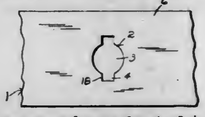
2,318,839
SWIVEL SOCKET
Charles S. Crickmer, Dallas, Tex.
Application November 14, 1941, Serial No. 419,175
3 Claims. (Cl. 287—91)

1. A socket for rotatably connecting a flexible line with a tool including, a tubular body having the flexible line insertable and secured within the upper end of its bore, a coupling adapted to be connected with the tool to be lowered and having an upwardly extending shank, a tubular connecting element secured within the lower end of the bore of the body and having the lower end of its bore enlarged to form a recess adapted to receive



the shank of the coupling, and means for rotatably fastening said shank within the recess of the element, the upper end of the bore of said element being closed by a plug whereby the upper portion of said bore above said recess serves as a lubricating chamber for receiving a lubricant for the rotatable fastening means.

2,318,840
MOLDING AND LIKE FASTENER AND INSTALLATION THEREOF
Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application August 27, 1940, Serial No. 354,401
6 Claims. (Cl. 189—88)



1. A fastener member adapted to be secured to a supporting panel comprising a base engageable with one surface of said panel, spaced hook-shaped attaching portions extending from said base, said hook-shaped portions opening in opposite directions, each of said hook-shaped portions having its free edge facing said base and providing a beveled edge on one side of said free edge, and attaching means extending on an opposite side of said base from said hook-shaped portions for fastener engagement with a part to be secured to said panel.

2,318,841
UPHOLSTERY CUSHION
Howard M. Dodge, Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 26, 1940, Serial No. 371,636
2 Claims. (Cl. 155—179)

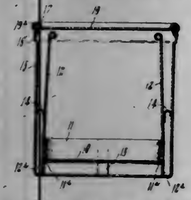
1. An article of manufacture for use in upholstery comprising a relatively thin flexible sheet-like member of rubber or the like having an angularly disposed integral flange along at least one edge thereof and intersecting ribs integral with the member and extending over one surface thereof, said ribs being formed into and integral

with the flange and the flange being extended beyond the free edges of the ribs to provide a fastening strip for attaching the article to a sup-



port, said extended portion of the flange being at least in part thinner than the portion thereof into which the ribs are formed.

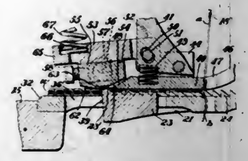
2,318,842
OUTFIT FOR SHIPPING LIQUID AND DIPPING ARTICLES THEREIN
Charles F. Eaton, Methuen, Mass., assignor to Bennett Incorporated, Cambridge, Mass., a corporation of Massachusetts
Application March 8, 1941, Serial No. 382,406
1 Claim. (Cl. 220—17)



A cylindrical shipping and dipping container for holding a dipping liquid having a circular dipping basket of appreciably less diameter therein for carrying out the dipping of articles in the liquid in the container, said basket having its wall formed of sheet metal band and having opposed upwardly projecting handles of metal strip rigidly secured in face contact with said band for raising or partial withdrawal of the basket for dipping use, said container having a cover and said basket and its handles being entirely enclosed in the covered container, said handles cooperating with said band to resiliently hold them normally in divergent position so as to spring apart as they are pulled out of the container, and hook elements connected to the handles at a point intermediate their length and snugly engaging the internal wall of the closed container because of the resilient divergence of said handles, said handles when the cover is removed from the container being adapted to be gripped by the user and drawn toward each other whereby the snug engagement of the hook elements with the container wall is discontinued and the basket may be freely moved up and down within the dipping liquid and the basket may be withdrawn to a position where the resiliently divergent handles will allow the hook elements to firmly engage the rim of the mouth of the container to support the basket in a position to receive articles and permit dipped articles to drain.

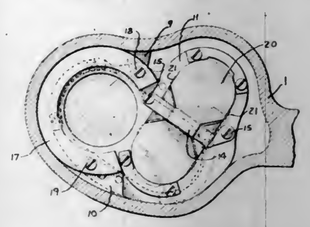
2,318,843
THREAD-SEVERING DEVICE FOR SEWING MACHINES
John P. Enos, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 8, 1941, Serial No. 373,556
30 Claims. (Cl. 112—252)

4. In a sewing machine, stitch-forming mechanism including a reciprocatory needle, a feed-dog having work-advancing movements of variable amplitude, a primary thread-severing member carried by said feed-dog at one side of the work, a complemental work-responsive thread-severing member ineffectively disposed at the opposite side of the work rearwardly of the path of needle-reciprocation, said work-responsive member in the absence of work being disposed for thread-severing engagement by said primary thread-severing member at substantial-



ly the completion of the work-advancing movements of said feed-dog, and supporting means providing for adjustment of said work-responsive member in the line of seam formation toward and from the path of needle-reciprocation in substantial accordance with variations in the amplitude of the work-advancing movements of said feed-dog.

2,318,844
OPTICAL INSTRUMENT
Gustave Fassin, Grosse Pointe, Mich., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application August 21, 1941, Serial No. 407,797
6 Claims. (Cl. 88—34)

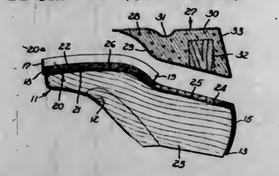


1. In a device of the character described, a casing, supporting means in said casing, a plate in said casing adapted to support optical elements and to be secured on said supporting means, said plate having a portion of its periphery spaced from the wall of said casing and a substantially flat light shield in said casing, said shield overlying a portion of the space between the periphery of said plate and the adjacent wall of the casing and adapted to prevent light passing between the wall of the casing and the edge of the support for the optical elements.

2,318,845
DENTAL RESIN
Roy C. Feagin, Flushing, N. Y., and Charles H. Prange, Short Hills, N. J., assignors to Austenal Laboratories, Inc., New York, N. Y., a corporation of New York
No Drawing. Application March 23, 1940, Serial No. 325,610
5 Claims. (Cl. 260—42)

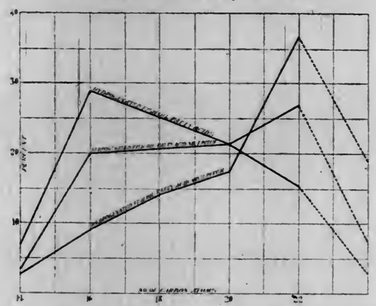
1. A new dental material comprising the product which results from the polymerization of a mixture of monomeric ethyl alpha methacrylate, diallyl itaconate, and styrene in the presence of polymeric ethyl alpha methacrylate.

2,318,846
SHOE AND METHOD OF MAKING SAME
Oscar Fern, Los Angeles, Calif., assignor to Jules C. Fern, Harry Sobel, and Oscar Fern, copartners doing business as Fern Shoe Co., Los Angeles, Calif.
Application May 20, 1941, Serial No. 394,304
14 Claims. (Cl. 12—142)



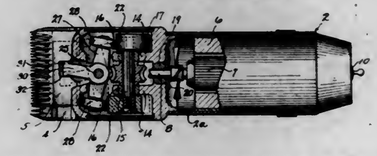
1. In a shoe, the combination of: an upper; a liner in said upper having a heel portion and having a forward portion with its edge turned downwardly in contact with the inner surface of said upper adjacent the lower edge of said upper forwardly of the shank; a counter in the heel portion of said upper; a half platform member of cushioning material; a platform cover with its outer surface in contact with the outer surface of said upper adjacent the lower edge of said upper forwardly of the shank and with its lower edge turned inwardly upon said half platform member; a row of stitching connecting the contacting portions of said upper, liner, and platform cover; an insert extending from the heel forwardly of the shank and under said heel portion of said liner, said upper rearwardly of the shank and said counter being lasted to said insert; a filler on the bottom of said insert between the lasted edges of said upper; a wedge heel member having in the lower surface thereof an arch recess, said member being of a thickness above said recess adapted to support the wearer; a covering for said heel member extending around the sides thereof and secured to the upper and lower surfaces thereof; means securing said heel member to said insert, the rearward portions of said platform cover overlapping and being secured to said covering for said heel member; an outsole secured to the lower surface of said heel member and said half platform member; and a heel lift secured to said outsole member.

2,318,847
BEARING GREASE
George W. Flint, Chicago, Ill., and Hubert J. Liehe, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 31, 1940, Serial No. 372,524
16 Claims. (Cl. 252—40)



15. A bearing grease comprising a mineral oil and a soap base comprising a major proportion of a soda soap of a hydrogenated fish oil fatty acid pitch and a minor proportion of a metal soap otner than soda soap, said soda soap of hydrogenated fish oil fatty acid pitch being prepared by saponifying a hydrogenated fish oil fatty acid pitch with sufficient sodium hydroxide to give about 0.5% to about 5% excess alkalinity after saponification and subsequently substantially neutralizing the free alkalinity with a fatty material.

2,318,848
HAIR CLIPPER
Symon Z. Gibson, Seattle, Wash.
Application October 30, 1942, Serial No. 463,862
3 Claims. (Cl. 30—217)



1. In a hair clipper, in combination, a reciprocally movable clipper blade, a pivot stud, a lever mounted on the pivot stud for oscillation, a driven shaft, cams on the said driven shaft engageable with the lever at opposite sides of the pivot stud whereby rotation of the shaft causes a positive and definite oscillating action of the lever, and an arm extending from the lever into an operating connection with the clipper blade for reciprocating it.

2,318,849
METHOD OF MAKING TOY STRUCTURAL ELEMENTS
Joseph E. Grant, Beverly Hills, Calif.
Application February 21, 1941, Serial No. 380,004
4 Claims. (Cl. 93—1)

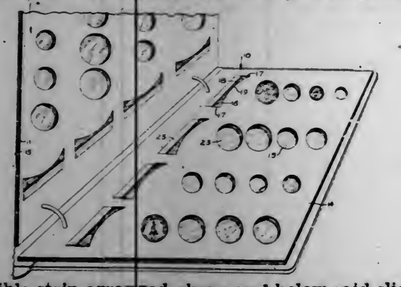


1. The method of making a toy structural element comprising taking an elongated rectangular blank of flexible material, folding the blank to provide a base, folding a portion to overlie one side of the base to form a side, bending a flap upwardly from the side, bending a second flap downwardly from the first flap, then bending a second side outwardly from the second flap until its edge is coextensive with the edge of the base and thereafter gluing the sides to the base.

2,318,850
COIN HOLDER
Joseph E. Grant, Beverly Hills, Calif.
Application June 11, 1941, Serial No. 397,575
3 Claims. (Cl. 206—78)

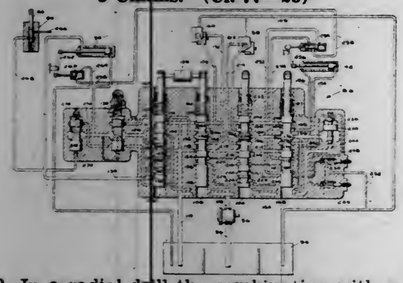
1. In a coin display holder, a spacer member having a rectangular slot therein, a top and a bottom cover member on said spacer member, said top and bottom cover members each having a display aperture therein, said display aperture being aligned with said spacer member slot, said top cover member having a slot, said cover member slot having a straight side which aligns with one side of the spacer member slot and forming a shoulder therewith, said cover member slot having spaced parallel ends which align with the sides of the spacer member slot and having a curved

side forming a tongue, a slide member slidable through said cover member slot and into said spacer slot, said slide member abutting against said shoulder when fully inserted, said slide member having a coin receiving aperture alignable with said coin display aperture, a transparent



flexible strip arranged above and below said slide member and of a width substantially equal to the width of said slide member, said strip extending around the slide member and having a projecting tongue thereon which permits removal of said strip and said slide member.

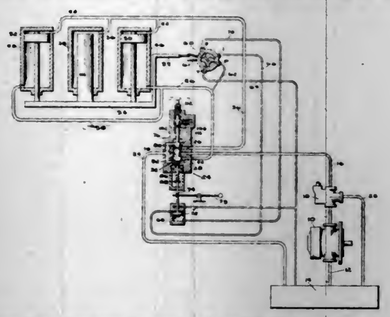
2,318,851
POWER TRANSMISSION FOR MACHINE TOOLS
Raymond C. Griffith, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application January 26, 1938, Serial No. 186,924
3 Claims. (Cl. 77—28)



3. In a radial drill the combination with a rotatable column, an arm vertically slidable on the column and a head translatable on the arm, of a fluid motor for clamping the column, a fluid motor for clamping the arm, means for elevating and lowering the arm, a fluid motor for causing operation of said means, means for traversing the head on the arm, a fluid motor for causing operation of the last said means, pump means forming a common source of pressure fluid for operating said motors, valve means for controlling operation of said motors and means for limiting the pressure effective on, and the rate at which fluid is supplied to, the traversing motor to values lower than the normal values for the elevating motor.

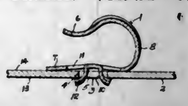
2,318,852
POWER TRANSMISSION
Raymond C. Griffith, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application March 16, 1938, Serial No. 196,121
2 Claims. (Cl. 60—52)

1. In a fluid power transmission system the combination of a source of pressure fluid having high and low pressure sides, hydraulic motor means operable by fluid from said source on either a forward stroke or a return stroke and subject to a continuous biasing force in a forward direction, directional control means for directing the flow of fluid from said source to the motor for operating said motor on a forward or on a return stroke, or for stopping the motor, said directional control means being progressively movable between three positions in the first of which the fluid is directed to the motor for a forward stroke, in the middle one of which the fluid flow to or



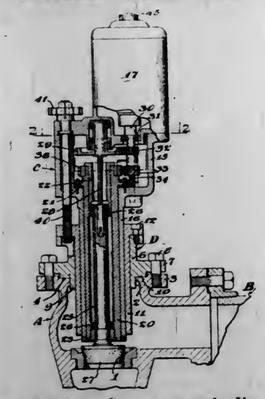
from the motor is cut off and the pump is unloaded and in the third of which the fluid is directed to the motor for a return stroke, means biasing the control means to the third position, means for shifting the control means to the first position, a fluid motor for moving the control means to the middle position, and a pilot valve controlled by the hydraulic motor at the end of a return stroke to direct fluid to operate said fluid motor for moving said control means to its middle position, said fluid motor being operated by fluid placed under pressure in the return side of the hydraulic motor by the biasing force acting on said hydraulic motor.

2,318,853
FASTENER MEMBER
Charles L. Hall, Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 20, 1941, Serial No. 384,331
3 Claims. (Cl. 24—73)



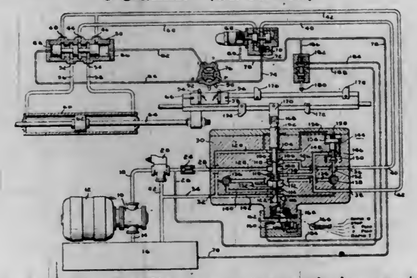
1. A rotary attachable and detachable fastener device formed from a single piece of spring sheet metal, said fastener having a base and a pair of substantially identical oppositely directed hook-shaped portions extending beyond one side of said base for engagement with a supporting panel through an elongated aperture thereof, said hook-shaped portions having end portions in spaced underlying relation to said base to engage an opposite side of said panel from said base, said hook-shaped portions forming an elongated end whose major length is slightly less than the length of the elongated panel aperture but greater than the width thereof so as to be movable axially freely through said aperture of said panel in one predetermined position only and thereafter rotatable to receive the material at the longer edges of said panel aperture between said base and said free ends thereby to secure said fastener device to said panel.

2,318,854
PORTABLE VALVE SEAT GRINDING MEANS
Ernest A. Hall, Toledo, Ohio, assignor to The Hall Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application November 10, 1941, Serial No. 418,432
5 Claims. (Cl. 51—241)



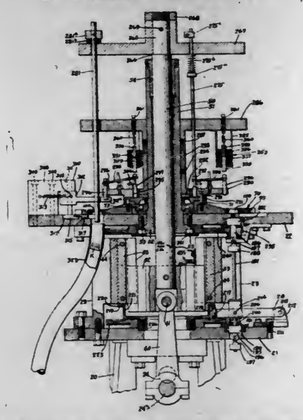
1. In a portable valve seat grinding machine, a grinding wheel carrying shaft, means without said shaft and forming a rotatable eccentric mount therefor, said means and shaft being relatively rotatable about axes parallel to each other, a power source, separate driving connections between said source and each of said shaft and means, the connection with said means including a train of gears, and means manually operable to connect or disconnect the driving connection between certain of the gears in the train and including a worm and a worm wheel together with an eccentric mount for the worm which is revoluble to throw the worm into or cut of engagement with its companion.

2,318,855
POWER TRANSMISSION
Merrill A. Hayden, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application December 30, 1939, Serial No. 311,844
3 Claims. (Cl. 60—52)



1. In a hydraulic power transmission system the combination with means forming a source of pressure fluid, fluid motor means connected to the source for operation thereby, and control means for selectively varying the rate and direction of fluid delivery to the motor including a first control unit having a member shiftable between four positions to selectively deliver fluid to the motor at a rapid advance rate, deliver fluid to the motor at a feed advance rate, deliver fluid to the motor at a rapid return rate, or deliver fluid back to the source directly, a second control unit comprising a four-way reversing valve connected in series with the first control unit and having a member shiftable between only two positions to selectively deliver fluid to the motor in either direction, and means responsive to motor travel for selectively shifting said members in sequence to produce a cycle of motor travel including a forward and return stroke in one direction with respect to an intermediate position of the motor and alternately therewith a forward and return stroke in the opposite direction with respect to said intermediate position, said cycle including a feed movement during each of said forward strokes and a stop at the end of each return movement, said selective shifting means including a member pre-set during the return movement of the motor for conditioning the second control unit to be shifted only when the first control unit has been shifted to its rapid advance position.

2,318,856
INSPECTING DEVICE
Harry William Hoffman, Anoka, Minn., assignor to Federal Cartridge Corporation, Minneapolis, Minn., a corporation of Minnesota
Application March 1, 1941, Serial No. 381,406
16 Claims. (Cl. 209—82)

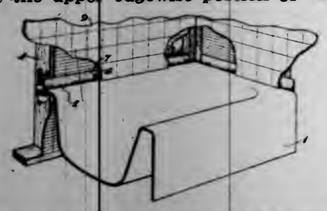


1. Mechanism for inspecting a cylindrical part having an axial polygonal hole, said mechanism comprising a plate having a series of uniformly spaced openings, means for inserting a part in each opening, means for intermittently moving the plate to successive stations, a rotating spindle having an end key for fitting into the polygonal hole of the part, means for moving the spindle into the polygonal hole whereby the spindle rotates the part, means for inspecting the part, axially so as to insert the end key of the spindle mechanism.

2,318,857
BUILDING MATERIAL
Peter B. Hollaender, Cincinnati, Ohio
Application March 11, 1941, Serial No. 382,762
5 Claims. (Cl. 20—74)

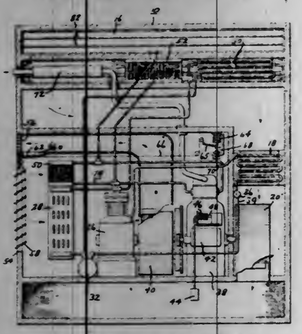
1. A flexible, non-porous material adapted to be used to provide a water-tight seal between a bathroom wall and the rim of a bathtub adjacent thereto, which bathtub rim is of splayed, T-like formation, the said material comprising a relatively thin strip of substantial width, with a portion of the strip adjacent one longitudinal edge

being configurated in cross section to complement at least the upper edgewise portion of the said



bathtub rim and the remainder of the strip being of outwardly tapering formation in cross section.

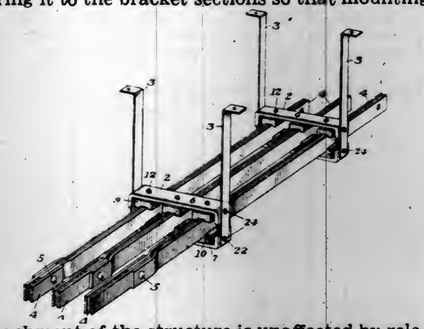
2,318,858
REFRIGERATING APPARATUS
James R. Hornaday, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 22, 1939, Serial No. 305,701
14 Claims. (Cl. 257—3)



10. In combination, an evaporator, refrigerant liquefying apparatus for supplying liquid refrigerant to said evaporator comprising a compressor, a condenser and an internal combustion engine for operating said compressor, means forming an air duct within which said evaporator is located, means enclosing said refrigerant liquefying apparatus, liquid circulating means for transferring heat generated by said apparatus out of said enclosing means and into said air duct, means for circulating air to be conditioned through said air duct, and means responsive to a predetermined low temperature for increasing the amount of liquid refrigerant supplied to said evaporator.

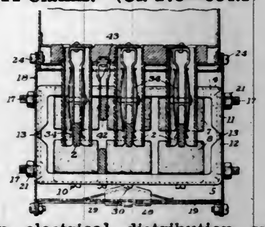
2,318,859
CONDUCTOR CARRYING MEANS
John E. Huguelet, Mount Lebanon, Pa., assignor to National Electric Products Corporation, a corporation of Delaware
Application March 29, 1941, Serial No. 385,911
7 Claims. (Cl. 248—68)

7. A conductor-carrying and conductor-embracing structure adapted for spaced mounting in a plural assembly of like structures in direct supporting relation along the bus-bars of an electrical distribution system, comprising two rigid bracket sections, two rigid connector elements extending in spacing relation therebetween, integrating means securing the said bracket sections to the said connector elements, and attachment means for the attachment of a mounting hanger carried by at least one of the said connector elements independently of the integrating means securing it to the bracket sections so that mounting



attachment of the structure is unaffected by relative positioning of the two said bracket sections.

2,318,860
ELECTRICAL DISTRIBUTION SYSTEM
John E. Huguelet, Mount Lebanon, Pa., assignor to National Electric Products Corporation, a corporation of Delaware
Application March 29, 1941, Serial No. 385,912
14 Claims. (Cl. 173—334.1)

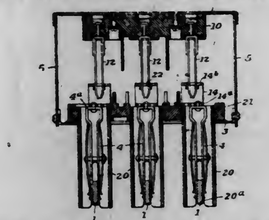


1. In an electrical distribution system the combination of a plurality of structurally independent bus-bar supports with a housing including two side members carried by the said bus-bar supports and having their longitudinal edges extended beyond the structure of the bus-bar supports, a cover member lying between the two side members of the housing and having along its longitudinal edges flanges lying against the extended portions of the two said side members, openings protected by doors opening away from the cavity of the housing in said cover, and removable fastening members engaging the flanges of the cover member to the extended portions of the side members and overlying the said doors of the cover member to prevent unconsidered opening thereof.

2,318,861
CURRENT TAKE-OFF
John E. Huguelet, Mount Lebanon, Pa., assignor to National Electric Products Corporation, a corporation of Delaware
Application May 2, 1941, Serial No. 391,470
3 Claims. (Cl. 173—361)

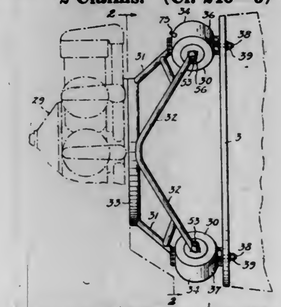
1. In a current take-off assembly including a casing arranged to house a current-control device and electrical connection therefor, an adapter unit mountable in the casing to provide electrical connection therein for current control devices of different structure and arrangement, the said adapter unit comprising in integrated assembly an insulating block and a plurality of electrically conductive elements each consisting of contact prongs projected from one face of the block for contact with the conductors of an

electrical distribution system and a terminal structure attached to the contact prongs of the element and secured to the block, independently of such attachment for mounting the contact prongs in the said insulating block, the said



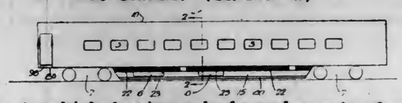
electrically conductive elements being as a unit removable and replaceable with respect to the said block to provide differently arranged terminals in adaptation within the casing to current-control devices of different structural arrangement.

2,318,862
SUSPENSION DEVICE
Robert Iredell and Herman T. Kraft, Akron, Ohio, assignors to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application March 4, 1940, Serial No. 322,056
2 Claims. (Cl. 248—5)



1. A suspension device comprising a spool, a resilient annulus on the spool and having an outwardly directed circular surface, an attaching ring embracing the annulus about said surface, and a pair of shells disposed one on each side of the ring and connected to the same, said annulus being circumferentially embraced by each of the shells.

2,318,863
RAILWAY CAR
Otto Jabelmann, Omaha, Nebr.
Application December 20, 1940, Serial No. 370,917
18 Claims. (Cl. 105—2)



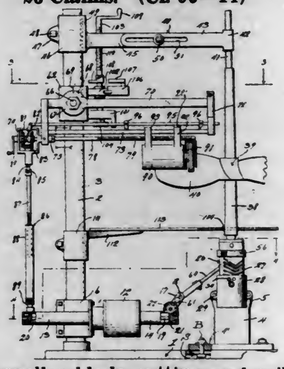
1. A vehicle having a body and a pair of supporting trucks, a housing portion depending from beneath said body for enclosing underneath equipment between the trucks, movable and relatively fixed louvered apron members spaced laterally from said housing and depending from the respective car sides, streamlining plates extending between the upper portion of said apron members and respectively adjacent housing sides, and means for locking said movable apron members.

2,318,864
MEDICAL WOOD SPLINT
Thomas E. Jackson, Detroit, Mich.
Application February 17, 1940, Serial No. 319,433
5 Claims. (Cl. 128—87)



3. In a surgical splint device, in combination, a handgrip member formed to present at least part of a spherical surface and having a plurality of slots therein, the plane of each slot passing through said handgrip in a different relation with respect to the center of said sphere as compared to the remaining slots therein, and an elongated splint portion adapted for reception of a forearm of a patient and receivable in any one of said slots.

2,318,865
PITCH GAUGE AND MILLING CUTTER FOR PROPELLERS
Harold I. Johnson, Newport Beach, Calif.
Application October 12, 1940, Serial No. 361,002
26 Claims. (Cl. 90—14)

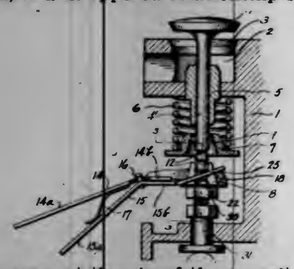


1. A propeller blade cutting and milling machine, comprising a propeller supporting arbor, means supporting the arbor to facilitate its turning on the axis of the propeller, a milling cutter supported for rectilinear movement along a path perpendicular to the arbor and longitudinally of a blade of a propeller supported thereon, rotatable means coupled with said arbor and supporting the same for turning the arbor and a propeller mounted thereon, means forming a part of the rotatable means to effect simultaneous turning and progression of a blade with respect to the milling cutter along a prescribed path corresponding to the pitch of the propeller, said last means including two coacting portions, one of which portions is stationary while the other portion moves cooperatively therewith and with the rotatable means for the accomplishment of the stated propeller movement, and a driving connection between said rotatable means and said milling cutter to effect the turning of the last means and the rectilinear movement of the milling cutter simultaneously.

2,318,866
VALVE KEEPER TOOL
Aubrey B. June, Seattle, Wash.
Application November 7, 1941, Serial No. 418,169
3 Claims. (Cl. 81—3)

1. A valve keeper tool comprising upper and

lower levers, disposed substantially in coextensive relatonship and pivotally joined together at a location within their outer ends, thereby forming hand gripping portions at the outer end of the tool; said hand gripping portions being in angular divergence and the inner end portions of the levers being normally engaged, a pair of outwardly yieldable jaws mounted by the inner end portion of the upper lever and extending therebeyond, and in opposed relationship respectively



for the support therein of the opposite halves of a split valve keeper, and said lower lever having an extension at its inner end, angularly directed therefrom for disposition between, and to space the supported keeper halves apart for reception of a valve stem between them, and adapted to be downwardly displaced from between the keeper halves by the closing together of the hand grip portions of the levers for application of the keeper halves to the valve stem.

2,318,867

PRESERVATION OF COMESTIBLES

Felix Kiefer, Beechhurst, N. Y.

Application September 11, 1939, Serial No. 294,225

7 Claims. (Cl. 99—153)

1. In the process of preserving from oxidative deterioration a comestible composition of matter containing substance susceptible of such deterioration, the step which comprises treating such composition of matter with an alkali hydride and providing presence of water whereby active hydrogen is developed, which reacts to preserve said composition of matter from such deterioration.

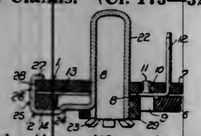
2,318,868

ELECTRICAL SOCKET

Arthur W. Kimball, West Newton, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application October 11, 1940, Serial No. 360,784

7 Claims. (Cl. 173—328)



1. In combination with a sheet metal support, of an electrical socket device comprising an insulating base carrying a plurality of contact members, a one-piece sheet metal mounting member assembled with said base having mounting portions disposed laterally of said base and adapted to be secured to said support so as to be electrically engaged therewith, said mounting member including an integral tubular seal-receiving shielding means extending into and axially through said base and disposed between two of said contact members and a bridge portion integrally joining said shielding means and said mounting member

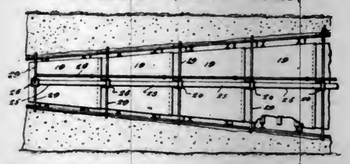
2,318,869

APPARATUS FOR CONSTRUCTING CONCRETE TUNNEL LININGS

Oliver Lance, Las Vegas, Nev.

Application November 12, 1941, Serial No. 418,807

4 Claims. (Cl. 25—131.5)



1. An apparatus for constructing concrete tunnel linings comprising a frame including removable transverse frame members supported in the tunnel, a stationary concrete form secured at the base of the frame, and a concrete form swingably suspended from the frame and movable circumferentially in the tunnel.

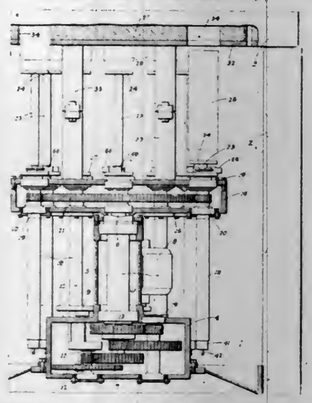
2,318,870

CONTINUOUS PARTS-HEATING FURNACE

Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation

Application February 20, 1942, Serial No. 431,728

20 Claims. (Cl. 263—7)



1. A continuous parts heating furnace comprising a driven platform movable through a predetermined path, a plurality of part-supporting pedestals mounted for travel with the platform and for elevation therefrom, means operative to elevate the pedestals at one point in said path, maintain the same elevated while said platform traverses a certain portion of said path, and then lower the pedestals, and means forming a heating chamber above said platform; the parts supported on said pedestals being projected into said chamber when the pedestals are elevated.

2,318,871

MICROSCOPE

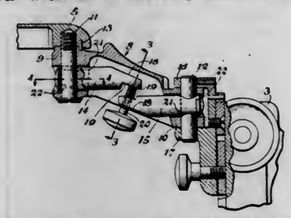
George S. MacDonald, Buffalo, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York

Application March 19, 1941, Serial No. 384,116

5 Claims. (Cl. 248—122)

1. In a device of the character described, an adjustable arm, said arm having pivot connections adjacent the opposite ends thereof, locking means adjacent each end of said arm for locking said arm against pivotal movement on both of

said pivot connections and means operatively associated with said locking means for simul-



taneously locking both of said pivotal connections.

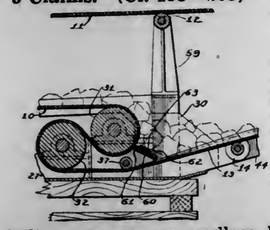
2,318,872

EXTENSIBLE CONVEYER

John R. Madeira, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application July 17, 1941, Serial No. 402,770

5 Claims. (Cl. 198—203)



1. In a belt conveyer, an endless belt, idler rollers for supporting the upper run of the belt above the lower run of the belt a distance sufficient to permit material to be deposited on and carried by the lower run of the belt, means intermediate the extreme ends of the conveyer having driving engagement with the lower run of the belt including a drive roller about which the lower run of the belt turns, another drive roller engaging the inside of the lower run of the belt and reversing the direction of travel thereof, to arrange the top side of the belt as it passes over and under said rollers in cascade relationship with respect to the top side of the belt as it passes by said last mentioned roller, so material will be discharged over said first mentioned roller onto the downwardly spaced receiving portion of said belt, and means disposed adjacent said first mentioned drive roller to prevent material from dropping directly onto said downwardly spaced receiving portion of said belt and to clean material from said belt before it reaches said second mentioned drive roller.

2,318,873

FRICTION TYPE SHOCK ABSORBER FOR KNEE ACTION OR THE LIKE

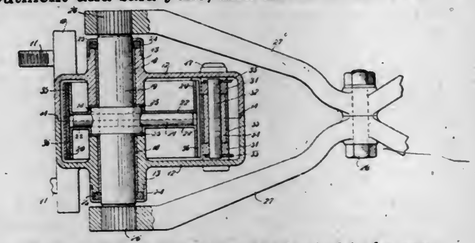
Bonnie L. Mallory, Cleveland Heights, Ohio

Application December 10, 1941, Serial No. 422,382

7 Claims. (Cl. 188—130)

1. A shock absorber for vehicles including, in combination, a housing adapted to be fixed with respect to a vehicle body, a shaft journaled in said housing, a drum eccentrically and non-rotatably carried by said shaft, link means pivoted to said housing, a yoke pivotally attached to said link means at a point spaced from its point of connection to the housing, a brake band also connected to said link means at a point spaced from its point of connection with the housing and extending about said drum and provided with an abut-

ment extending outwardly within said yoke, compression spring means interposed between said abutment and said yoke, and an arm non-rotat-



ably secured to said shaft and adapted to be connected with a portion of said vehicle which carries a wheel thereof.

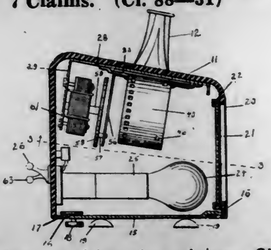
2,318,874

PICTURE FILM DISPLAY MACHINE

Gifford M. Mast, Davenport, Iowa

Application November 2, 1940, Serial No. 364,091

7 Claims. (Cl. 88—31)



1. A display machine for picture films containing series of pictures arranged to be displayed in pairs, comprising a cabinet, a stereoscopic apparatus mounted in said cabinet, provided with picture viewing tunnels, and having a cross-channel for the passage of a piece of film in loop formation, a slide-frame movable in said channel, provided with a pair of operating arms, and engageable with said film to cause a feed movement thereof in a given direction, a disk rotatably mounted in proximity to said slide-frame, provided with a pin engageable with said arms, means for the continuous operation of said disk, and means for illuminating the inner ends of said tunnels.

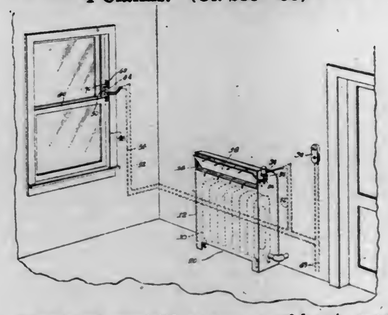
2,318,875

HEAT CONTROL

Wallace C. McAnlis, Detroit, Mich.

Application November 12, 1941, Serial No. 418,680

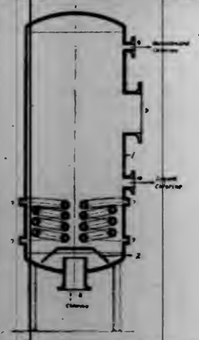
4 Claims. (Cl. 236—38)



1. In a heat control, a source of heat, a casing

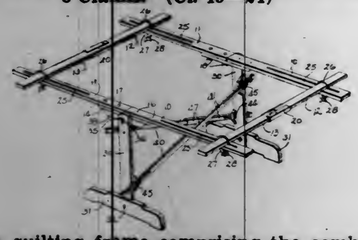
about said source of heat, a damper in said casing, a solenoid coil, a core in said solenoid coil connected to said damper to open said damper, control means breaking the circuit through said solenoid coil upon opening of a window beyond a predetermined amount, and thermostatic control means breaking the circuit through said solenoid coil upon room temperature exceeding a predetermined amount.

2,318,876
LIQUEFACTION OF CHLORINE
Dwight R. Means, Wadsworth, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application October 5, 1940, Serial No. 359,915
5 Claims. (Cl. 62—175.5)



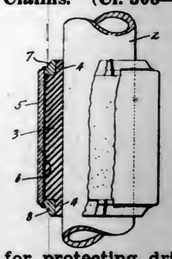
1. A method of cooling impure chlorine containing organic impurities which comprises cooling gaseous chlorine through a heat transfer wall at a pressure sufficiently high to insure liquifaction of at least a portion of the chlorine and bathing the cooling surface of the wall with liquid chlorine in addition to chlorine which may be condensed upon such surface to prevent accumulation of a waxy deposit upon the surface and recovering cooled gaseous and purified chlorine.

2,318,877
QUILTING FRAME
Joseph J. Meyer and Frank A. Jones, Milwaukee, Wis., assignors to G-H Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 5, 1941, Serial No. 381,806
8 Claims. (Cl. 45—24)



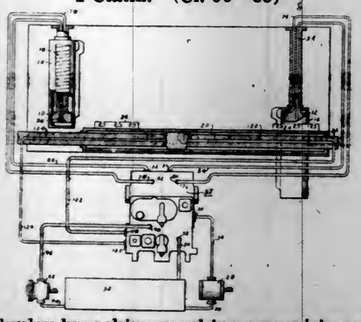
2. A quilting frame comprising the combination of a set of easel standards, oppositely inclined bracing bars each extending from the upper portion of one of the standards to the lower portion of the other and each formed in detachable sections, manually operable clamping connections for adjustably securing the bracing bars to the respective standards at various points along the length of the bars to determine the spacing of the standards, quilting frame side bars also formed in sections, mounting bars for the abutting ends of the side bar sections, said mounting bars having clamping pivotal connection with the respective standards, quilting frame cross bars also formed in sections, coupling means for detachably connecting the cross bars with the side bars in various positions along the end portions of each, said cross bar sections, side bar sections, brace bar sections and standards each having a length and width adapting them for superposed storage in a rectangular pile of a length substantially equal to that of any one of the bar sections.

2,318,878
OPEN HOLE TOOL JOINT PROTECTOR
De Mont G. Miller, San Marino, Calif., assignor to Patterson-Ballagh Corporation, Los Angeles, Calif., a corporation of California
Application February 3, 1941, Serial No. 377,115
3 Claims. (Cl. 308—4)



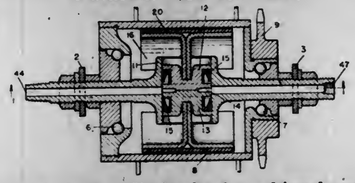
1. A device for protecting drill pipe in open hole, which comprises an elastic protector member stretched over the pipe to be protected and resiliently gripping said pipe, a short metallic sleeve fitted over the elastic protector member but provided with clearance with said protector sleeve and rotatable relative to said sleeve, and ring members having a packing fit with said protector sleeve and maintained spaced from said pipe by said protector sleeve, said ring members being secured to said metallic sleeve for retaining the same in position.

2,318,879
POWER TRANSMISSION
Raymond S. Miller, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Original application February 23, 1938, Serial No. 191,903. Divided and this application October 30, 1941, Serial No. 417,071
1 Claim. (Cl. 90—33)



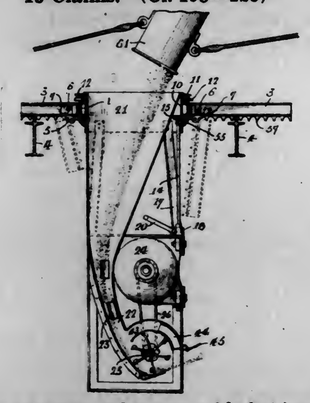
A duplex broaching machine comprising a pair of alternately operative and oppositely moving broaching rams, a fixture slide selectively movable transversely to operative relation with a selected ram, a cylinder secured to said slide, and a fixed piston and piston rod relative to which said cylinder is slidable, said piston rod having separated passages in its two ends each connected to admit oil under pressure to one end of said cylinder and at one side of said fixed piston.

2,318,880
HYDRAULIC COASTER BRAKE
Homer L. Mueller, Cleveland, Ohio, assignor to The Cleveland Welding Company, Cleveland, Ohio, a corporation of Ohio
Application March 13, 1940, Serial No. 323,773
2 Claims. (Cl. 188—152)



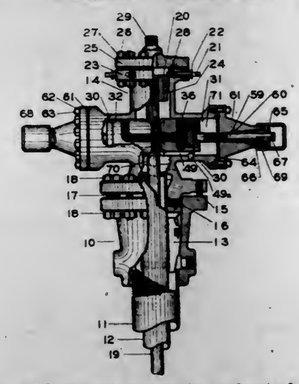
1. In an hydraulic brake for a bicycle wheel or the like, the combination with an axle and a hollow wheel-carrying hub rotatably mounted at its respective ends on said axle, one of said hub ends being removable; of a transverse, diametrally disposed cylinder formed in said axle, said cylinder having an open end and said axle being formed with a passage leading from one end thereof to said cylinder, a piston reciprocably fitted within said cylinder, and a brake-shoe interposed between said piston and the inner wall of said hollow hub, said axle with said cylinder, piston and brake-shoe being freely insertable in and removable from said hub upon removal of such end of the latter.

2,318,881
GRAIN TRIMMING DEVICE
Elias George Mundy, New York, N. Y., assignor to Mundy Grain Trimmers Patents Ltd., Montreal, Quebec, Canada
Application August 13, 1941, Serial No. 406,666
In Canada April 5, 1941
13 Claims. (Cl. 198—128)



1. In a trimmer, a hopper, a bladed impeller in the lower end thereof, said hopper having one of its walls extended as an arch over said impeller, a concentric plate between said arch and the impeller blades, said arch and plate forming a vent communicating with the hopper, said hopper having an outlet at the discharge side of said impeller and with which said vent also communicates.

2,318,882
RAM CONSTRUCTION FOR BLOWOUT PREVENTERS
Gale E. Nevill, Houston, and Arthur L. Leman, Crosby, Tex., assignors to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 18, 1941, Serial No. 423,508
2 Claims. (Cl. 251—51)

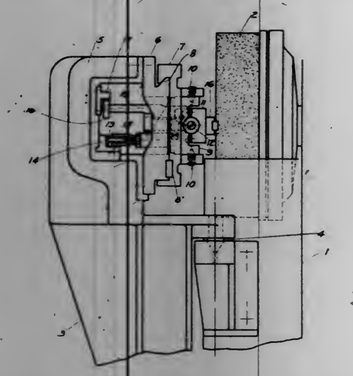


1. In a blow-out preventer adapted to abut an object to seal an opening against pressure, including a housing integrally formed with a pair of oppositely disposed laterally extending cylindrical bores, a plunger assembly in each cylindrical bore, comprising a follower plate provided with serrated surfaces on its inner end face, a ram encircling said plate, formed with a recess therein, and shaped to conform to the external contour of said abutting object at its forward or inner end, a resilient packing element molded into the recess in said ram and bonded to the serrations in said follower plate to form a yieldable unitary structure, said ram and follower plate being relatively movable, means secured in abutting contact with said ram and freely encircling said follower plate to limit its axial movement, and a manually operated screw threaded shaft adapted to bear against the outer end of said follower plate to exert external force to urge said plunger assemblies forwardly to compress and outwardly expand said resilient element into sealing engagement about said abutting object and establish a pressure in said packing element of a value greater than that in the opening to be sealed.

2,318,883
KNIFE BLADE GRINDING MACHINE
Herbert T. Nicholas, Sandusky, Ohio, assignor to Klotz Machine Company, Sandusky, Ohio
Application August 3, 1940, Serial No. 350,401
11 Claims. (Cl. 51—122)

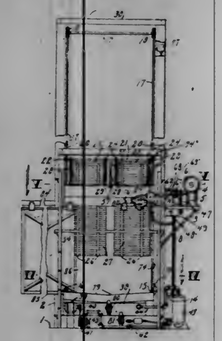
2. A knife blade grinding machine comprising an annular grinding wheel, a supporting bracket swingable about an axis approximately tangent to said grinding wheel, a carriage reciprocable in said bracket across the grinding path of said wheel and perpendicularly to said axis, a plate pivotally mounted at one end in said carriage to swing about said end perpendicularly toward and from said wheel, a cam bar carried by said bracket and means carried by said swinging plate

and engaging said cam bar during travel of the aforesaid carriage and compelling movement of



said plate in accordance with a predetermined pattern.

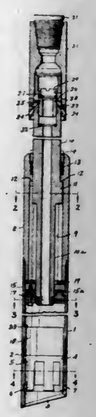
2,318,884
MULTISLAT SHUTTER LAUNDRY
Francis A. O'Kelley, Toledo, Ohio
Application June 16, 1941, Serial No. 398,182
5 Claims. (Cl. 15—77)



1. For a connected series of parallel slats, a holder for mounting the connected series of slats in extension, a pair of brushing means each having brushing movement in the direction of said extension of the series of the slats, and a mounting positioning the brushing means relatively to the holder against opposite sides of the slats, there being driving means for effecting relative progress between the holder and mounting in a direction of said extension of the series of the slats and against the direction of movement of one of said brushing means.

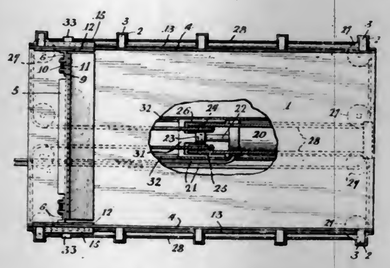
2,318,885
RETRIEVER
Fred N. Osmun, Houston, Tex.
Application December 18, 1941, Serial No. 423,421
10 Claims. (Cl. 294—86)

1. A retriever shaped to be lowered into a well bore and having an entrapping chamber at the lower end thereof open to the well bore, means for increasing the volume of the chamber while the tool is in the well to allow the sudden inrush of the well liquid into the chamber to carry an object in the well into the chamber and entrap-



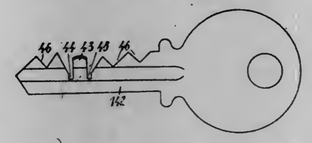
ping means arranged to be actuated into active position, by said liquid, to entrap the object in said chamber.

2,318,886
LOADING AND UNLOADING MECHANISM FOR TRUCKS
Joseph Paiement, Pointe-Claire, Quebec, Canada
Application November 23, 1942, Serial No. 466,590
5 Claims. (Cl. 214—82)



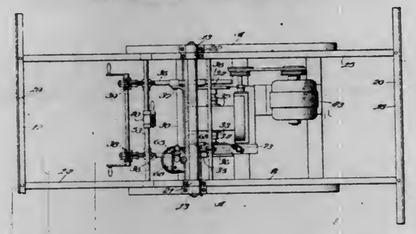
1. A loading device comprising, in combination with the floor of a vehicle, a vertical flange extending upwardly from each longitudinal side of said floor, a transverse wall mounted on said floor and having a part bent upwardly along one side of each flange and having a downwardly extending portion along the other side of each flange, a track suspended from each longitudinal edge of the floor, a roller on each of such portions and riding in the adjacent track, a cylinder mounted lengthwise of said vehicle, a piston rod extending from said cylinder, means for actuating said rod, a pair of pulleys carried by said rod, two sets of pulleys carried by said rod, two sets of pulleys carried by said vehicle respectively at opposite sides of said cylinder, a cable passed over each of said sets and passed over one of the first named pulleys respectively in opposite directions, each cable having its ends fixed to said vehicle and having a portion extending lengthwise of said vehicle and fastened to one of said portions.

2,318,887
KEY FOR CYLINDER LOCKS
Harold Gilbert Ramsell, Wolverhampton, and Jack William Taylor, Wednesfield, England, assignors to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application April 20, 1939, Serial No. 268,866
In Great Britain April 28, 1938
6 Claims. (Cl. 70—401)



1. A key for a lock comprising a blade the edge of which is bitted for cooperation with a series of tumblers, a portion of said blade leading to said edge being offset out of the plane of the remainder of said blade whereby the edge of said offset portion may be bitted to cooperate with a tumbler angularly related to the said series of tumblers cooperating with the bittings of the remainder of the edge of the blade.

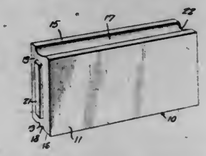
2,318,888
THERAPEUTIC APPLIANCE
Clarence E. Sanders, Kansas City, Kans., assignor to American Hospital Supply Corporation, Chicago, Ill., a corporation of Illinois
Application October 23, 1937, Serial No. 170,682
17 Claims. (Cl. 128—33)



1. In combination, a bed frame supported for rocking movement, means for rocking the same, a pressure-treating device adapted to be wrapped about a limb of a patient upon said frame, means associated with said frame and operated in timed relation therewith for varying pressure in said treating device, and motor means for actuating said rocking and pressure varying means.

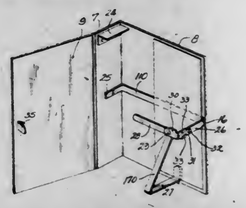
2,318,889
PARTITION BLOCK
Charles L. Sanford, Bedford, Ohio
Application November 26, 1940, Serial No. 367,279
2 Claims. (Cl. 72—38)

1. A partition block comprising a rectangular body of elongated formation, the top edge of the body having a channel formed therein extending the full length thereof and having an arcuate concave configuration in cross section with the sides terminating inwardly at the side edges of the body to form horizontal top edge faces at each side of the channel, the bottom edge of the body having a longitudinally extending channel transversely bisected by a ridge and edge faces of greater width than the edge faces of the top, the said ridge having a diminishing outward taper with its outer edge portion non-projectant with relation to the plane of the said edge faces, whereby when the said bottom edge of the block is in partition forming assembly on the top edge of a similar block the said blocks may be firmly joined by jointing material filling the channel recesses formed between the said edges and the relatively wide side edge faces of the upper block in direct contact with the narrower side edge faces at the top edge of the lower block, one end edge of the block having a longitudinally directed groove formed therein extending from the top edge to a



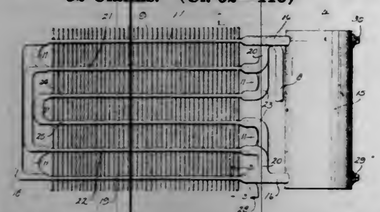
point short of the bottom edge and having inwardly convergent beveled side and end faces, the upper end of the said end groove being in registry with the top channel to provide for interlocking through the medium of jointing material, and a tongue formed on and projecting from the opposite end edge of the block, the said tongue extending longitudinally of the said end edge and being of flat elongated cross section with its ends terminating short of the top and bottom edges of the block with beveled side and end faces and adapted for slidable fitting into a groove corresponding to that in the opposite end edge of the block.

2,318,890
FILING CASE
John J. Seelman, Milwaukee, Wis., assignor to Seelman Laboratories, Milwaukee, Wis., a corporation of Wisconsin
Application August 28, 1942, Serial No. 456,461
13 Claims. (Cl. 129—1)



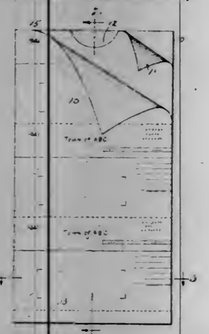
3. A device of the character described, comprising a back, left and right hand covers connected to the back, the right hand cover comprising at least a portion in hinged connection with the back and means for retaining work in fixed relation to the left hand cover during the opening and closing of said right hand cover portion and including a member in rigid connection with the back, a member rigidly connecting said first member with the bottom margin of the left hand cover, and a member rigidly connecting said first member with the front margin of the left hand cover at a point substantially midway of the height of the left hand cover, said members being so positioned with respect to the left hand cover as to be adapted to cooperate with said back to retain in approximate registry with the left hand cover pamphlets and the like substantially corresponding in size to the left hand cover, while rendering said pamphlets freely accessible for removal and replacement when said right hand cover portion is open respecting the back.

2,318,891
CONDENSING RADIATOR SYSTEM FOR REFRIGERATOR INSTALLATIONS
Philip A. Sidell, Galesburg, Ill., assignor to Outboard, Marine & Manufacturing Company, Galesburg, Ill., a corporation of Delaware
Application May 10, 1941, Serial No. 392,851
32 Claims. (Cl. 62—115)



1. In a condenser system, the combination with a storage reservoir for coolant and a coolant circulatory pipe connected to the reservoir at vertically spaced points for convection circulation of coolant therethrough, of a refrigerant condenser pipe in heat exchange relation to the first mentioned pipe and coolant therein, the system being so arranged that the convection circulation of coolant in the first mentioned pipe reverses itself when the refrigerant ceases to give off excessive heat to the coolant.

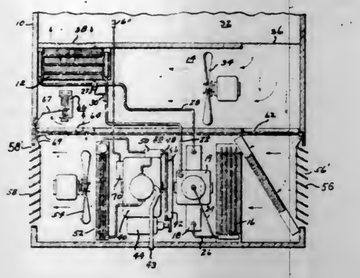
2,318,892
MANIFOLDING PACKET
Fred B. Smith, Winthrop, Mass.
Application September 15, 1942, Serial No. 458,373
1 Claim. (Cl. 282—3)



A manifolding packet, comprising a continuous unnotched work sheet web folded laterally in zigzag form and individual unfolded transfer sheets interleaved between the respective folds of said web, said transfer sheets being substantially coextensive with said folds and having registering notches at one edge thereof removed from the hereinafter mentioned stub portion of the packet, each fold of said web being provided with a laterally extending line of weakness adjacent the lower edge thereof and the lowermost edges of said folds beyond said line of weakness constituting the stub portion of the packet, the parts of said stub portion being unattached laterally.

2,318,893
REFRIGERATING APPARATUS
Harry F. Smith, Lexington, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 22, 1939, Serial No. 305,691
11 Claims. (Cl. 257—3)

10. In combination, an evaporator, refrigerant liquefying apparatus for supplying liquid refrigerant to said evaporator, means for circulating air to be conditioned for an enclosure in thermal exchange with a portion of said liquefying apparatus, means for simultaneously circulating air



to be conditioned for said enclosure in thermal exchange with said evaporator, and means responsive to a predetermined low temperature for increasing the amount of liquid refrigerant supplied to said evaporator.

2,318,894
BIOLOGICALLY ACTIVE SUBSTANCE FOR CONTROLLING PROCREATIVE METABOLISM
Lee Irvin Smith, Minneapolis, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application July 14, 1939, Serial No. 284,453
4 Claims. (Cl. 167—81)

1. A composition for alleviation of conditions resulting from deficiency of vitamin E comprising a compound selected from the group consisting of 3-carbethoxy-5,7,8-trimethyl-6-hydroxy coumarin, and the fatty acid esters thereof.

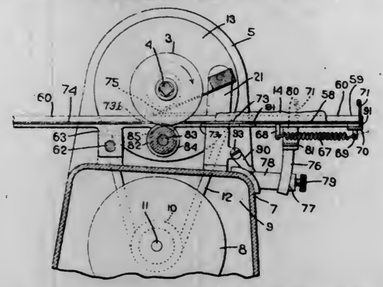
2,318,895
BIOLOGICALLY ACTIVE PRODUCT FOR CONTROLLING PROCREATIVE METABOLISM
Lee Irvin Smith, Minneapolis, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application July 14, 1939, Serial No. 284,454
4 Claims. (Cl. 167—81)

1. A composition for alleviation of conditions resulting from deficiency of vitamin E comprising a compound selected from the group consisting of 2,4,6,7-tetramethyl-5-hydroxy-coumaron and the fatty acid esters thereof.

2,318,896
BIOLOGICALLY ACTIVE COMPOUNDS FOR CONTROLLING PROCREATIVE METABOLISM
Lee Irvin Smith, Minneapolis, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application July 14, 1939, Serial No. 284,455
3 Claims. (Cl. 167—81)

1. A composition for alleviation of conditions and means for ejecting defective parts from the resulting from deficiency of vitamin E comprising a compound selected from the group consisting of o-allyl-phenol and fatty acid esters thereof.

2,318,897
MEAT-SLITTING MACHINE
Joseph P. Spang, Quincy, Mass., assignor to Cube Steak Machine Company, Inc., Boston, Mass., a corporation of Massachusetts
Application January 27, 1942, Serial No. 428,357
2 Claims. (Cl. 17—26)

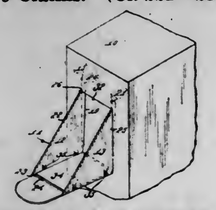


1. A meat-slitting machine comprising a set of rotary knives, means to rotate the knives, a supporting member, a manually operable meat-supporting plate slidably mounted on the supporting member and adapted to feed a slice of meat to the knives, a peripherally grooved roll carried by the supporting member and situated beneath the knives, said supporting member being adjustable toward and from the knives between a position in which the knives dip into the grooves of the roll and a position in which the roll is spaced from the knives, and a stop operable when the supporting member is adjusted into the latter position to limit the forward or feeding movement of the meat-supporting plate to a position in which the leading edge thereof is on the input side of said roll, whereby as the slice of meat is fed forward past the knives the portion of the meat which is acted on by the knives will be supported by said roll.

2,318,898
STABILIZED WAX COMPOSITION
Harold W. Stiegler, Stamford, and John M. Hood, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 3, 1940, Serial No. 351,104
4 Claims. (Cl. 252—59)

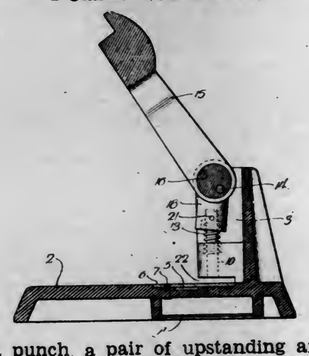
1. A wax having incorporated therein stabilizing amounts of a metal bisulfite-formaldehyde addition compound.

2,318,899
BOX OPENER AND POURING SPOUT
Neil C. Stilwell, Richmond, Ind.
Application February 27, 1939, Serial No. 258,626
9 Claims. (Cl. 221—23)



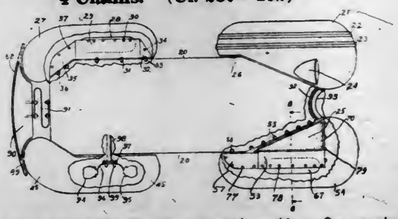
2. A combination box opener and pouring spout comprising two spaced cutting blades joined by a base and adapted to be forced through a box wall to cut spaced slots therein, each of said blades terminating, at its end remote from said base, in a penetrating point lying in a plane perpendicular to said base and between the ends of said base and having a blunt edge leading from said point to an end of said base and a sharpened edge leading from said point to a position short of the other end of said base.

2,318,900
PUNCH
Charles V. St. Louis, Oak Park, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application April 15, 1942, Serial No. 439,006
1 Claim. (Cl. 164—91)



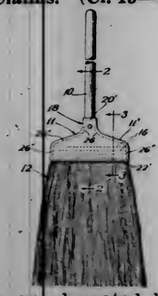
In a punch, a pair of upstanding arms each apertured to receive one end of a punch pin, an eccentric shaft mounted on said arms, a pair of plungers mounted on said shaft, said plungers each having an aperture adapted to receive the other end of one of said punch pins, and a coiled spring inserted with each of said punch pins, said springs having their opposite ends positioned in said apertures.

2,318,901
PNEUMATIC PROTECTOR FOR AUTOMOBILES
Clauss Burkart Strauch, Hazel Green, Wis.
Application April 4, 1940, Serial No. 327,831
4 Claims. (Cl. 280—152)



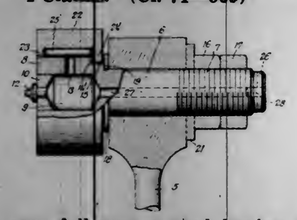
1. A pneumatic fender construction for automobiles comprising a non-symmetrical outer casing formed of relatively inextensible flexible material, and an inner tube aggregate conforming to the contour of the casing and having a plurality of individual chambers separated by relatively inextensible flexible septums, said septums having openings therethrough to permit only a delayed transfer of air from one chamber to an adjacent chamber when a portion of the fender is deformed by impact with an object, whereby the pressure in no portion of the inner tube aggregate is lowered when the fender is deformed by impact with an object.

2,318,902
MOP
Henry L. Sweitz, Chicago, Ill.
Application February 8, 1943, Serial No. 475,063
7 Claims. (Cl. 15—229)



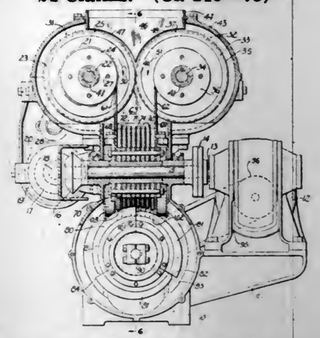
1. In a mop, an elongated handle having a lower end, an elongated body of absorbent material arranged so as to be relatively wide and thin at one end thereof which constitutes the upper end of the mop, two layers of relatively heavy textile fabric disposed against opposite faces of the upper end of said body, a plurality of spaced rows of stitching extending transversely of said body and extended through said layers of fabric and the intermediate upper end portion of said absorbent body, said layers of textile fabric being extended upwardly beyond said body and being stitched together to afford an upwardly opening socket adapted to snugly receive said lower end of said handle, said handle being inserted into said socket, and means acting between the fabric of said socket and said handle and securing said handle in said socket with said lower end of said handle held firmly against the upper end of said body.

2,318,903
CAM FOLLOWER
Stanley R. Thomas, Lyons, Mich., assignor to Bantam Bearings Corporation, South Bend, Ind., a corporation of Indiana
Application July 26, 1941, Serial No. 404,189
4 Claims. (Cl. 74—569)



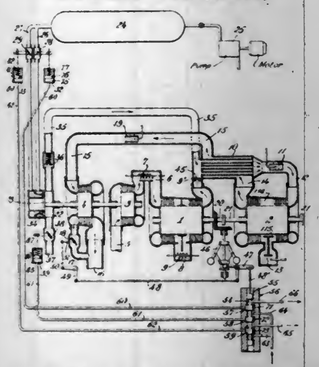
1. In a cam follower, a stud having an extended shank portion, a radial shoulder thereon, an annular cylindrical surface of larger diameter extending axially from said shoulder, a second radial shoulder at the opposite end of said surface, a still large diameter cylindrical head portion extending axially from said second shoulder, an outer race member of an axial length substantially equal to the total axial extent of said head portion and surface and having radially inturned flanges at opposite ends thereof closely encircling said head portion and said surface limiting axial movement of said race member away from said shank portion, means rotatably supporting said member on said head portion, and a washer disposed over said shank portion against said first radial shoulder limiting axial movement of said member toward said shank portion.

2,318,904
CUTTING MACHINE
Albert R. Thompson, Los Gatos, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application September 23, 1939, Serial No. 296,256
24 Claims. (Cl. 146—78)



1. In a machine for cutting food material into cubes, a plurality of rotary circular slicing knives having tapered edges, spacer discs between said knives, a stationary plate having slots therein, said knives projecting into said slots, a stationary stripper between adjacent knives, said stripper having a portion thereof spaced apart from said plate and another portion disposed adjacent said spacer, the space between said plate and said stripper constituting the outlet for the material, said outlet being only large enough to permit the slices to emerge one at a time, and a knife having a spiral-shaped cutting edge arranged helically with respect to the axis of rotation of said knife and movable across said outlet to cut each slice, the direction of the cut being substantially normal to the surface of said stripper with which the slice is in engagement, said stripper providing a shearing edge for said knife to complete the cutting of the cube from the slice.

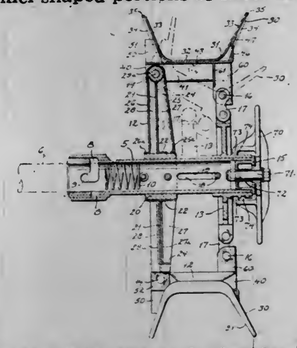
2,318,905
GAS TURBINE PLANT
Walter Traupel, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application May 4, 1940, Serial No. 333,318
In Switzerland May 10, 1939
5 Claims. (Cl. 60—41)



1. A gas turbine plant and accelerating apparatus which comprises a turbo compressor, a power turbine arranged to drive the load, the rotors of the turbo compressor and power turbine being on the same shaft; an accelerating turbine, a charging turbine and a charging blower the rotors of which are all mounted on the same shaft; a recuperator, a pipe for passing gas from the outlet side of the power turbine through the recuperator to the intake side of the charging turbine, a cooler, a pipe for passing gas from the outlet side of the charging blower through the cooler to the turbo compressor, a pipe for passing gas from the outlet side of the turbo compressor through the recuperator to the intake side of the power turbine, a by-pass at the intake side of the charging turbine, means responsive to the speed of the power turbine for increasing the quantity of bypassed gas when the speed of the power turbine increases and for decreasing the quantity of bypassed gas when the speed of the power turbine decreases, means for heating the gas before it enters the intake side of the power turbine, a container for air under pressure, means for delivering air from the container to the accelerating turbine, and means responsive to the speed of the power turbine for regulating the quantity of air delivered to the accelerating turbine in such a way that when the speed of the power turbine increases the amount of air admitted to the accelerating turbine is decreased or stopped and when the speed of the power turbine decreases the amount of air admitted to the accelerating turbine is increased.

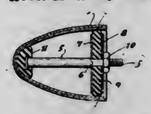
2,318,906
COLLAPSIBLE REEL
Herman J. Troche, Cleveland Heights, and Daniel Kelleher, Strongsville, Ohio, assignors to The American Coach & Body Company, Cleveland, Ohio, a corporation of Ohio
Application November 12, 1941, Serial No. 418,769
10 Claims. (Cl. 242—111)

1. A spider for a reel or similar article comprising a hub, a disc in a plane transverse to the hub having at its inner periphery a flange embracing the hub, a plurality of radial arms made of channel shaped portions of sheet metal on opposite sides of the disc, each of said portions being flanged at its lower edge and secured to the hub and having its side members flanged and secured to the disc.

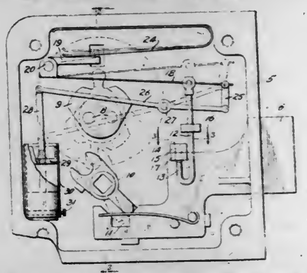


2,318,907
ABRASIVE ARTICLE
George Upton, Newton, Mass., assignor to American Sandpaper Company, a corporation of Massachusetts
Application September 16, 1942, Serial No. 458,572
1 Claim. (Cl. 51—185)

A mandrel driven abrasive article of the type specified having, an elongated body portion with concaved outer end portion with vaulted interior, and sleeve-forming inner end portion with which the mandrel has driving engagement, characterized by a construction in which the working body of the abrasive article between its sleeve forming portion and the apex to its concaved portion is left free, unbacked by the mandrel, and which result is attained by combining with the abrasive article a mandrel comprising a spindle extending into the interior of the abrasive article, means fixedly secured to the spindle and expansible to bear against the sleeve, and means borne by the end of the spindle with bearing against the apex to the vaulted interior of the abrasive article.

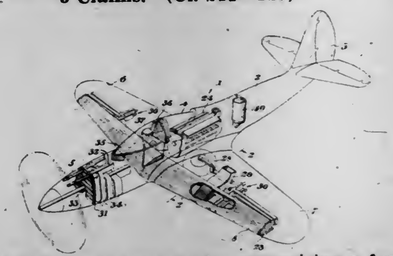


2,318,908
LOCK
Nicholas A. Welch, West Hartford, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application March 8, 1941, Serial No. 382,350
10 Claims. (Cl. 70—1.5)



1. In a lock, locking means, means for dogging said locking means, pick-controlled means for controlling said dogging means, and time-lag mechanism for controlling the time of effective operation of said dogging means.

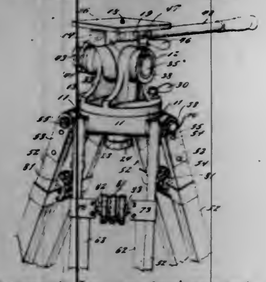
2,318,909
WING CONSTRUCTION
Robert J. Woods, Grand Island, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y., a corporation of New York
Application October 2, 1940, Serial No. 359,427
5 Claims. (Cl. 244—117)



1. An airplane construction comprising a fuselage having a cockpit, an engine in said fuselage, a wing extending laterally from each side of the fuselage, and a nose box beam at the lead edges of said wings and extending continuously from

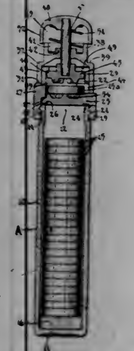
the outer portion of one wing through the fuselage in front of the cockpit and engine to the outer portion of the other wing, said box beam comprising sheet armor plate shaped to form the nose of both of said wings and extending rearwardly from said nose along the upper and lower surfaces of said wings, and a shear member connecting the upper and lower rear portions of said armor plate, said box beam of armor plate in extending through the fuselage in front of the cockpit and engine serving as armor for the forward portions of said cockpit and engine.

2,318,910
ADJUSTABLE INSTRUMENT SUPPORT
Frank C. Zucker, New York, N. Y.
Application August 4, 1941, Serial No. 405,302
5 Claims. (Cl. 248—183)



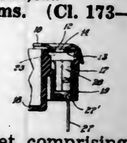
1. In a support for an instrument, a tripod head, a rotatable base member positioned above said tripod head, said rotatable base member having two apertured standards, a shaft supported within the apertures of said standards, said shaft carrying a tilting base member movable vertically about the axis of the shaft, means to prevent said tilting member from moving vertically relative to the shaft, friction means resisting the free rotation of said shaft, a split ring member positioned around one end of said shaft within one of the apertures of one of said standards, and tightening means including a screw for preventing said tilting member from vertical movement by rigidly clamping said split ring member against said shaft.

2,318,911
TABLET CRUSHER
John P. Zweber, Hastings, and Cyril J. Zweber, Farmington, Minn.
Application April 7, 1941, Serial No. 387,164
13 Claims. (Cl. 83—10)



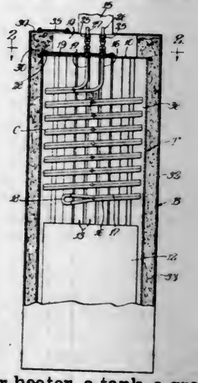
1. A tablet crusher comprising a mortar having an opening at the lower end, threads at the lower end of the mortar for attaching the same to the threaded neck of a receptacle for tablets, said opening bringing the mortar into communication with the receptacle and being of sufficient dimensions to pass a tablet into the mortar, a platen movable across said opening and serving to support a tablet in the mortar, said platen forming a closure for the receptacle and resting upon the free edge of the neck thereof, and means carried by said mortar for engaging the platen to urge the same against the end of the neck of the receptacle upon screwing the threads of the mortar upon the threads of the receptacle, and a pestle for forcing the tablet against the platen.

2,318,912
ELECTRICAL SOCKET
Milton Alden, Brockton, Mass.
Original application December 18, 1939, Serial No. 309,777. Divided and this application April 27, 1942, Serial No. 440,622
2 Claims. (Cl. 173—328)



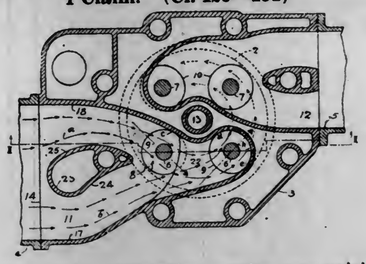
1. A radio socket comprising a molded body with recesses, each of which has an open top and an opening in the bottom, a tubular contact member insertable into each of said recesses from the open top thereof, an insulating washer above the recesses and having perforations leading to the contact members for guiding the prongs of a radio plug and a soldering lug integral with each contact member and having a flat free end extending through an opening in the bottom for partially closing said opening and having a portion integral with said contact member formed to fit said opening in the bottom for completely closing the remainder of the opening whereby solder is prevented from entering said tubular contact member from the outside.

2,318,913
WATER HEATER
Loyd I. Aldrich, Wyoming, Ill.
Application February 24, 1941, Serial No. 380,299
6 Claims. (Cl. 122—32)



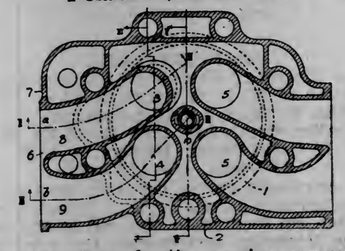
6. In a water heater, a tank, a group of heating flues therein, a helical water coil surrounding said flues, an opening in a wall of said water tank adjacent one end of said group of flues and permitting reception of said coil to a position for surrounding said group of flues by rotation of said coil therearound, a cover plate for said opening overlapping the edge thereof, means for securing said cover plate to said tank end and for sealing it relative thereto, a pair of fittings in said cover plate, said coil, adjacent its terminal ends, extending through said fittings and being sealed relative thereto, and fittings on the terminal ends of said coils for connecting them with inlet and outlet water pipes.

2,318,914
INTERNAL COMBUSTION ENGINE
John W. Anderson and William M. Nichols, Auburn, N. Y., assignors to American Locomotive Company, New York, N. Y., a corporation of New York
Application July 15, 1941, Serial No. 402,458
1 Claim. (Cl. 123—191)



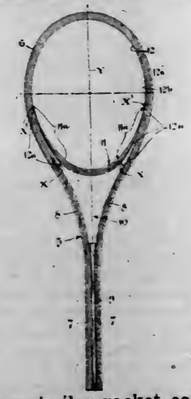
An internal combustion engine comprising a cylinder; and a cylinder head therefor having a single air inlet passageway for said cylinder, said passageway having an open end spaced laterally from said cylinder and extending rearwardly to and across said cylinder at one side thereof and terminating in an opening providing an inlet port for said cylinder, said port, at a point thereof, being adjacent the side wall of said cylinder, said passageway having a side wall tangent to said port substantially at said point, said passageway having another opening intermediate its ends providing another inlet port for said cylinder, said other port, at a point thereof, being adjacent said cylinder side wall and at a substantially diametrically opposite point being tangent to the opposite side wall of said passageway, said other port being spaced a substantial distance from said first mentioned passageway wall.

2,318,915
INTERNAL COMBUSTION ENGINE
John W. Anderson and William M. Nichols, Auburn, N. Y., assignors to American Locomotive Company, New York, N. Y., a corporation of New York
Application July 26, 1941, Serial No. 404,138
1 Claim. (Cl. 123—191)



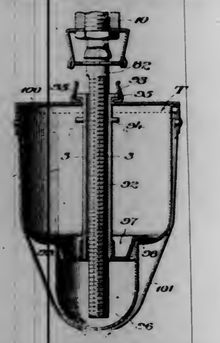
An internal combustion engine comprising a vertical cylinder; and a head therefor, said head having two horizontal inlet ports and separate passageways therefor for conveying compressed air to said cylinder, the cylindrical side wall of said cylinder, said ports and passageways cooperating to effect, of the compressed air entering the cylinder, a whirl in a predetermined direction about the axis of said cylinder and in a downward axial direction, said head being of hollow box-shaped formation, disposed above said cylinder and having a horizontal bottom wall covering the upper end of said cylinder, said inlet ports being in said bottom wall, opening directly into said cylinder and disposed at the same side of an axial plane of said cylinder, each of said ports having a valve seat for a control valve, said head, on the same side of said axial plane as said ports, extending for a substantial distance laterally beyond said cylinder and terminating in a side wall thereof, said passageways being horizontally curved in the same general direction from end to end and disposed in said head side by side with their outer ends adjacent each other and opening through said head side wall above said ports and having their walls at their inner ends contiguous with their respective ports, and, with relation to the direction of said whirl, one of said ports being forward of the other of said ports, said passageway outer ends being offset rearwardly from the ports of their respective passageways, and the horizontal curvature of said passageways being bowed in a rearward direction, said forward port being tangent to said cylinder, said forward port passageway at its end portion adjacent its port further being directed obliquely downward to its port, and said other passageway, at its end portion adjacent its port, further being directed vertically downward, said head being further provided with an orifice for an injector disposed at the axis of said cylinder and opening downwardly directly into said cylinder.

2,318,916
TENNIS RACKET
Alexis D. Andreef, Montreal, Quebec, Canada
Application November 22, 1941, Serial No. 420,113
3 Claims. (Cl. 273—73)



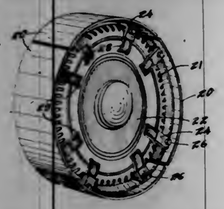
1. A tennis or similar racket comprising head and handle members, an inner reinforcing ply extending across the top and downwardly along the sides of the head and terminating in end portions which are spaced a substantial distance from the central longitudinal axis of the head and handle and are flared so that they gradually increase in thickness toward the ends of said ply and a throat-bridging insert having its end portions overlying and adhesively secured to the end portions of said reinforcing ply.

2,318,917
FUEL TANK
Thomas R. Arden, Danbury, Conn.
Original application June 12, 1939, Serial No. 278,772. Divided and this application February 27, 1942, Serial No. 432,712
5 Claims. (Cl. 221—95)



1. A fuel tank comprising a tank proper having a bottom compartment, valve means controlling flow of fuel from said tank proper into said bottom compartment, a vertical fuel outlet tube having its lower end disposed in said bottom compartment, and means for the vertical adjustment of said tube relative to said tank to dispose its lower end different distances from the bottom of said compartment.

2,318,918
TRACTION DEVICE FOR AUTOMOBILES
Albert B. Austin, Minneapolis, Minn.
Application December 26, 1940, Serial No. 371,679
16 Claims. (Cl. 152—182)



1. A traction device for a tire-equipped wheel of an automobile having in combination, a member having a rigid portion adapted to extend transversely of the tread of said tire, a pair of arms pivoted respectively adjacent each end of said member and extending substantially radially inwardly along the sides of said tire and being separable so as to be placed over said tire, said arms having their end portions extending toward each other so as to engage said tire inwardly of its widest portion and adjacent the rim of said wheel and means accessible from the exterior of said member, extending transversely of said tire engaging said arms and rotatable for moving said arms to so engage said tire tread.

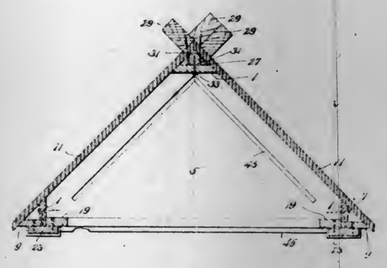
2,318,919
TREATMENT OF WASTE LIQUOR
Charles J. Brockman, Athens, Ga.
No Drawing. Application October 4, 1938, Serial No. 233,295
2 Claims. (Cl. 210—2)

2. A process for the treatment of black liquor from the sulfate process of paper pulp manufacture for the purpose of rendering said black liquor relatively innocuous and suitable for discharge into natural waters comprising, acidifying the black liquor with sulfuric acid while said black liquor is at a temperature of about 65° C., diluting the mixture with from two to four times its volume of water, adding milk of lime containing from 3 to 5% of calcium oxide until the mass is alkaline to litmus, and separating precipitated solid matter therefrom to obtain a treated black liquor suitable for discharge into said natural waters.

2,318,920
INGREDIENTS FOR AGRICULTURAL PARASITICIDES
Kenneth R. Brown, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 21, 1939. Serial No. 310,351
16 Claims. (Cl. 167—33)

1. An insecticide containing as an active ingredient a water-dispersible composition comprising partial lauric acid ester of a compound selected from the class consisting of hexitans and hexides.

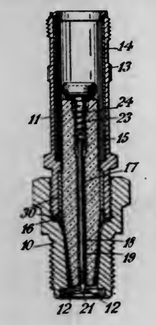
2,318,921
CABINET
Harold C. Bullard, Nashua, N. H.
Application August 18, 1939, Serial No. 290,744
9 Claims. (Cl. 312—142)



1. A corner cabinet having in combination shelves, uprights holding the shelves in vertically spaced and parallel relation, and the shelves in turn holding the uprights in fixed and parallel spaced relation, a member fitting the corner between two walls of a room, means for fixing such member within the corner, and means fixing one upright of the cabinet to such member.

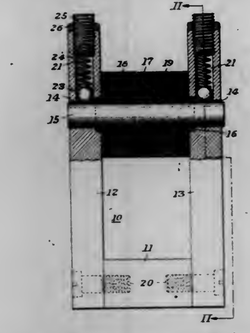
2,318,922
SPARKING PLUG
Charles Molyneux Carington, London, England, assignor to K. L. G. Sparking Plugs Limited, London, England, a British company
Application October 19, 1940, Serial No. 361,965
In Great Britain October 21, 1939
6 Claims. (Cl. 123—169)

1. A composite central electrode for a sparking plug comprising a metal core, a corrosion-resisting firing tip secured to one end of the core, a ceramic insulator surrounding the core and a sheath of a metal having a considerably lower melting temperature than the core or the insulator, which sheath is located between the core and the insulator, and has been melted after the core has been inserted into the insulator to give



intimate contact and good thermal conductivity between the core and the insulator.

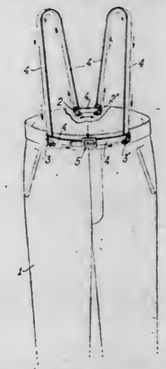
2,318,923
TESTING APPARATUS
Harold T. Clark, Pittsburgh, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 8, 1939, Serial No. 293,964
2 Claims. (Cl. 175—183)



1. Testing apparatus comprising a yoke of magnetic metal having spaced legs, said legs having alined transverse openings adapted to receive a specimen bar of magnetic metal, and means effective so to hold said bar removably when inserted through said openings as to establish a low-reluctance magnetic circuit through said yoke and said bar and to maintain substantially the same circuit reluctance on replacement of said bar by a similar bar, thereby imparting significance to a comparison between the magnetic fluxes induced in a succession of such bars, said means including a bore in each leg intersecting the opening therethrough, and a spring-pressed member positioned in said bore, said member normally projecting into the opening and adapted to be displaced by the insertion of said bars.

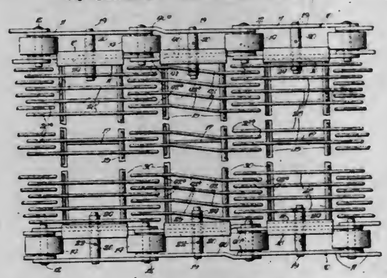
2,318,924
SUSPENDER BELT
Arthur D. Cohn, New York, N. Y.
Application October 15, 1941, Serial No. 415,024
3 Claims. (Cl. 2—331)

1. In combination with trousers, spaced deviating members fixed to the outer front of said trousers and including each a part obliquely disposed with respect to the waistline of the trousers, strap means of flexible material, adjusting means, the end portions of said strap means being deviated by said obliquely disposed parts at the front of the trousers to extend horizontally in belt-like fashion and being connectable with each other by said adjusting means at



the center and the front of the trousers, the remainder of said strap means being upwardly deviated by said oblique parts to extend in suspender-like fashion over the shoulders of the wearer and to the back of the trousers, and means on the back of the trousers at which said strap means is held in position.

2,318,925
CONVEYER FOR BAKING OVENS
John V. Cook, Chicago, Ill., assignor to The Petersen Oven Company, Chicago, Ill., a corporation of Illinois
Application May 14, 1941, Serial No. 393,354
10 Claims. (Cl. 198—194)



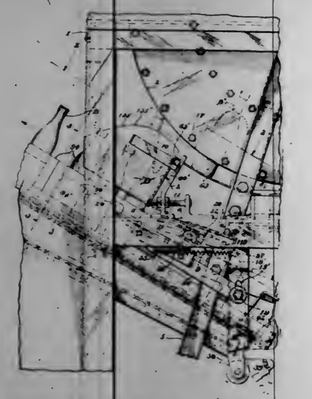
1. A flat top conveyer comprising a pair of spaced apart strands of endless chain, and separate material supporting devices disposed in adjacent relation and connected at opposite ends to the respective chains to form a continuous material supporting surface, each device having its total material supporting surface in the form of a grill and comprising a pair of transversely extending, longitudinally spaced apart frame members connected to said chains, and a plurality of transversely spaced apart longitudinally extending rods secured intermediate their length to said frame members, the ends of said rods of each device beyond said frame members being disposed in transverse offset relation to the rods of the next adjacent device, said frame members being so dimensioned and connected to the chains to support said rods above the axes of articulation of said chains on the upper run of said conveyer.

2,318,926
FLEXIBLE INSOLE AND TREATMENT THEREOF
Claude H. Daniels, Greenwich, Conn.
Application November 4, 1940, Serial No. 364,229
4 Claims. (Cl. 12—146)



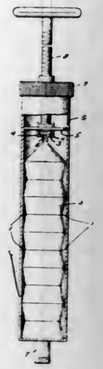
1. The method of manufacturing a flexible insole which consists in slashing the under side of the sole at the forepart to render the insole flexible, bending the insole so as to open up the slashes and applying a coating of latex to the slashed area of the insole while the insole is bent whereby the latex flows into the slashes and subsequently flattening the sole.

2,318,927
CASE FILLING MACHINE
Allan C. Davis, Baltimore, Md., assignor to F. A. Davis & Sons, Baltimore, Md., a partnership
Application November 10, 1939, Serial No. 303,727
18 Claims. (Cl. 226—14)



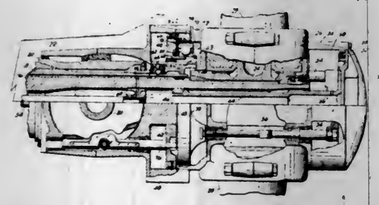
1. In a machine for filling compartment cases with bottles, bottle presenting means adapted to receive and advance successive transverse rows of bottles, the bottles corresponding in number to rows of compartments in the cases, means for moving the presenting means to advance the bottles with a step by step motion, means for supporting bottles as they advance, said support terminating intermediately of the path of said bottles whereby the bottles are dropped in rows, means for positioning the cases with a row of bottle compartments beneath the termination of said support, guiding means for leading the respective bottles of each row from said support to the respective compartments, easing fingers for checking the downward motion of the bottles, means timed with the presenting means for raising the fingers and advancing them into the path of the bottles as they are dropped, said latter means providing a downward motion of the fingers to check the downward motion of the bottles into the case.

2,318,928
GREASE GUN CARTRIDGE
Earl C. Deighton, Westview, British Columbia, Canada
Application May 2, 1941, Serial No. 391,616
1 Claim. (Cl. 221—47.3)



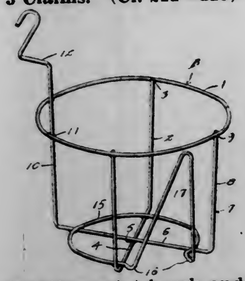
In combination with a grease gun having a plunger and a discharge opening, a collapsible cartridge containing grease and adapted to be inserted in the gun, said cartridge being provided in one end thereof with a discharge opening for registration with a discharge opening of the gun, circumferential indentations formed in the cartridge for causing it to collapse under pressure exerted against the same endwise, the opposite end of said cartridge being tapered and terminating in a flat teat, a T-shaped clip clampingly engaging said teat, and means carried by the plunger for interlocking engagement with the T-shaped clip during travel of the plunger.

2,318,929
PROPELLER TRANSFER BEARING
Walter S. Hoover, Montreal, Quebec, Canada
Application June 13, 1939, Serial No. 278,859
9 Claims. (Cl. 170—135.6)



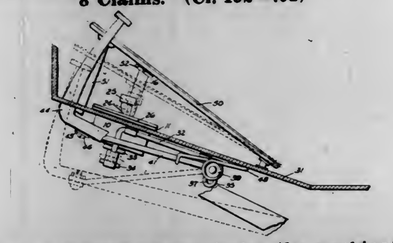
1. In a propulsion unit having oppositely rotating coaxial propellers, means for changing the pitch of said propellers and a bearing connecting the pitch changing means of two propellers; in combination means including a source of fluid under pressure for supplying a lubricant under pressure directly to said bearing, means for collecting said lubricant after it has passed through said bearing and means for removing said lubricant from said collecting means, placing it under pressure greater than the pressure of said source and returning said lubricant to the lubricant source.

2,318,930
COMBINATION PAINTBRUSH AND PAIL HOLDER
Howard John Dietrich, Conneaut, Ohio
Application December 30, 1941, Serial No. 424,978
3 Claims. (Cl. 211—119)



2. A combination paint brush and pail holder, constructed from several separate pieces of wire fastened together, and comprising an upper circular loop, intersecting perpendicular U-shaped members disposed at right angles to each other, and a lower smaller loop having spaced ends bent to form a substantially inverted V-shaped clip, forming the brush holder, in combination with the adjacent side members of the perpendicular U-shaped members the inner side bar of one of the perpendicular U-shaped members extending above the upper circular loop and bent to form a clip adapted to encircle or embrace the rung of a ladder.

2,318,931
THROTTLE CONTROL DEVICE FOR MOTOR DRIVEN VEHICLES
Thomas S. Diver, Geneva, Ohio
Application May 20, 1941, Serial No. 394,251
8 Claims. (Cl. 192—.01)

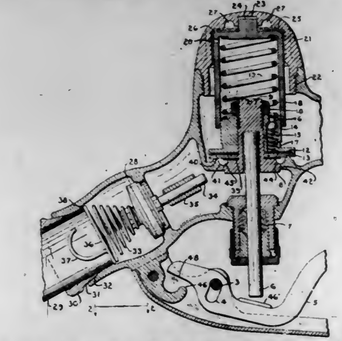


1. In a throttle control device, the combination with a throttle pedal, a cup shaped metal case flanged at the top, two guiding apertures in the base of the cup, a bar or means affixed to the inner wall between the top and base, a loosely coiled spring perpendicular between a metal disk anchored under said bar or means and base of the cup, a control rod with a slightly flanged base having a bossed top or head projected thru the center guiding aperture in the base of said cup, thru the spring and oval aperture in the said disc.

2,318,932
PROCESS FOR PRODUCING ASPHALT EMULSIONS
Robert A. Dunham, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application January 30, 1940, Serial No. 316,359
3 Claims. (Cl. 252—311.5)

1. A process for the production of an asphalt emulsion of the oil-in-water type having a demulsibility above 60 and a viscosity below 55 seconds Saybolt furol at 77° F. from an asphalt which will not emulsify to produce an emulsion of said demulsibility and viscosity characteristics which comprises heating said asphalt at a temperature of approximately 625–700° F. for a period of time greater than 30 minutes, sufficient to convert said asphalt into a product which when commingled with water and an emulsifying agent will emulsify to produce an emulsion having a demulsibility test above 60 and commingling said heated asphalt with water and a relatively small amount of an emulsifying agent to emulsify said heated asphalt.

2,318,933
LIQUID DISPENSING NOZZLE
Frank B. Eilers and Forrest J. Graef, Fort Wayne, Ind., assignors to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana
Application March 18, 1939, Serial No. 262,596
1 Claim. (Cl. 251—27)

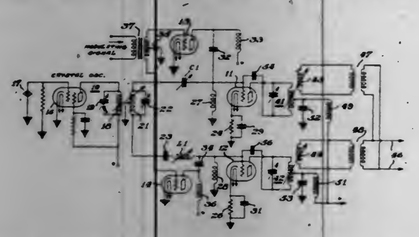


A nozzle valve for a liquid dispensing device comprising a valve body having inlet and outlet flow passages through which liquid is adapted to be passed, said valve body having an annular portion forming a main valve seat and an annular portion forming a throttling valve seat spaced from the main valve seat in a direction toward the outlet passage, and a valve member movable to open position toward the inlet side of the valve, said valve member being formed of two parts, one of which has an annular metallic portion adapted for cooperation with said throttling valve seat, a disc of resilient material clamped between said valve member parts and adapted to be brought on movement of the valve member into engagement with the main valve seat, and a pair of metallic washers interposed, respectively, between the disc and the valve member parts, one of said washers covering only a portion of the disc surface whereby to permit contact between the disc and the main valve seat.

2,318,934
PHASE MODULATION
John Evans, Palmyra, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 15, 1941, Serial No. 415,021
6 Claims. (Cl. 179—171.5)

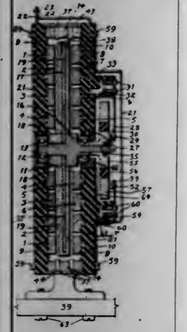
1. In combination, a stable oscillator for producing a carrier wave, a pair of amplifiers, means for coupling said oscillator to the input circuits of said amplifiers in push-pull relation, means for

feeding the outputs of said amplifiers to a signal transfer circuit for combining the outputs, said means for coupling said oscillator to said input circuits including a phase advancing network through which signal is applied from said oscillator to the input circuit of one of said amplifiers,



and a phase retarding network through which signal is applied from said oscillator to the input circuit of the other of said amplifiers, and means for varying alternately the phase shift produced by said networks in accordance with a modulating signal.

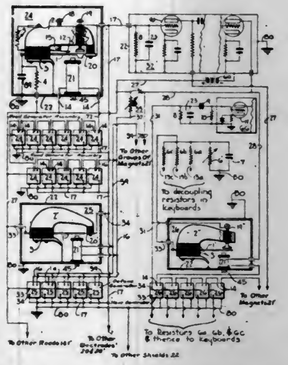
2,318,935
ELECTROSTATIC ALTERNATOR
Raymond C. Fisher, Tacoma, Wash.
Application September 7, 1940, Serial No. 355,792
17 Claims. (Cl. 175—363)



1. In an apparatus for producing a periodic voltage, and comprising a scanning instrumentality, a scanned instrumentality, and means for maintaining relative motion therebetween, the method of suppressing the second and third harmonics and integral multiples thereof in said voltage, which consists in imparting to said scanning instrumentality an effective longitudinal dimension equal to substantially an integral number of halves of the fundamental wave length, and to said scanned instrumentality an effective longitudinal dimension equal to substantially an integral number of thirds of the fundamental wave length.

12. An apparatus for originating varying electric currents translatable into sound, comprising a tone current generator having relatively rotating parts, a prime mover for actuating said generator, and a magnetic linkage adapted to transmit mechanical power from said prime mover to said generator, the magnetic moments in said linkage and the moment of inertia of the driven parts of said generator having magnitudes such as to impart to said driven parts a natural period longer than one-twentieth of a second.

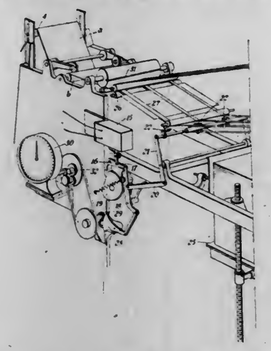
2,318,936
MULTIFREQUENCY OSCILLATOR
Raymond C. Fisher, Tacoma, Wash.
Application April 7, 1941, Serial No. 387,270
20 Claims. (Cl. 250—36)



1. A multi-frequency oscillator, comprising: an amplifying electron tube system; having an input circuit and an output circuit; a plurality of non-linear feedback channels each electrically connected to said input circuit and each, in cooperation with other parts of said oscillator, maintaining in said system continuous electrical oscillation at a single fundamental frequency and each, by virtue of its non-linearity, generating in said system an upper harmonic of its fundamental frequency, the oscillations maintained by the several channels coexisting simultaneously and having frequencies which differ from each other; constituting a part of each of said channels, an element sharply resonant to substantially the frequency of its associated upper harmonic and maintained in oscillation by the energy in said channel; also constituting a part of each of said channels, individual means limiting the amplitude of those oscillations in said system which are maintained by the channel which comprises said means, each said individual means being actuated only by oscillations having a harmonic relationship to those maintained by that channel of which that means is a part.

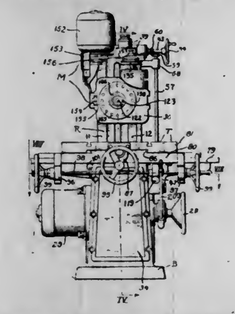
2,318,937
CUTTING AND SORTING OF PAPER AND LIKE SHEETS FROM CONTINUOUS WEBS
Philip Tom Goldney, Dartford, and Alfred George Hingley, Bristol, England
Application June 24, 1941, Serial No. 399,536
In Great Britain June 27, 1940
16 Claims. (Cl. 164—68)

1. An improved apparatus for cutting a continuous web into sheet form and simultaneously separating defective sheets from sound sheets, comprising a sheet cutting machine, a deflector device adapted on being actuated to divert to a reject pile a sheet coming from the cutter, a scanning table over which the web passes before reaching the cutter point, means under the control of an operative whereby the deflector device may be rendered active after a predetermined lapse of time, said control means upon actuation causing the displacement of one of a series of elements carried upon an endless conveyor, said displaced element being arranged after traveling a suitable distance and time to transmit an impulse bringing into action the sheet deflector device, and means for restoring to the normal or neutral position the displaced ele-



ments after the required impulse transmission has occurred.

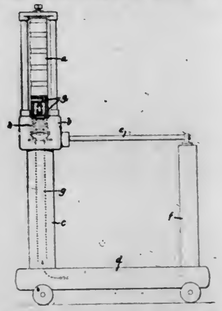
2,318,938
UNIVERSAL MACHINE TOOL
Frank W. Hack, Des Plaines, Ill., assignor to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application May 1, 1940, Serial No. 332,677
13 Claims. (Cl. 29—27)



1. A machine of the class described comprising a pedestal, a ram mounted on said pedestal for vertical reciprocation, driving means for said ram on said pedestal, a work supporting table structure on said pedestal, a head mounted on said ram above said table structure for vertical movement on said ram, a power source on said pedestal, and a transmission train between said power source and said head including transmission gearing for movement of said head on said ram at variable speeds.

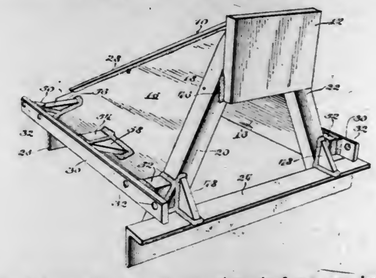
2,318,939
GAS BLAST CIRCUIT BREAKER
Alfred Halm, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application May 28, 1941, Serial No. 395,689
In Switzerland June 8, 1940
4 Claims. (Cl. 200—148)

1. Gas blast circuit breaker the switch chamber of which is built together with a supporting insulator in the form of a column, characterised by the feature that in the coupling piece between the switch chamber and the insulator a blow valve is arranged, said valve being provided with a cylindrical guide for the valve disc and a pressure piston for opening the valve against the action of a closing spring so that the direction of



flow of the compressed gas through said valve lies in the direction of the axis determined by the gas supply pipe and the switch chamber.

2,318,940
BUMPING POST
Stanley W. Hayes, Richmond, Ind., assignor to Hayes Track Appliance Company, Richmond, Ind., a corporation of Indiana
Application October 17, 1940, Serial No. 361,519
11 Claims. (Cl. 104—254)

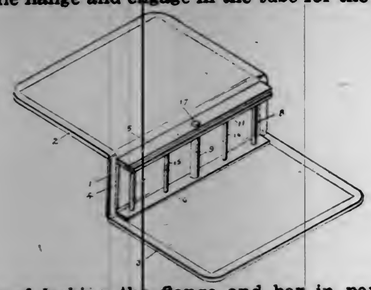


1. A bumping post constructed as an integral unit designed for shipment and installation on track rails as such, including in combination, a bumper head, means supporting the bumper head between and above the rails defining a substantially pyramidal shaped closed top structure extending downwardly, outwardly and rearwardly from near the upper end of the bumper head and to the front side of which said bumper head is secured, and means secured to the lower portion of said structure for attaching said post to the rails.

2,318,941
LOOSE-LEAF BINDER
Howard J. Henderson, Rochester, N. Y., assignor to Lawyers Cooperative Publishing Company, Rochester, N. Y., a corporation of New York
Application October 2, 1942, Serial No. 460,505
12 Claims. (Cl. 129—8)

6. In a loose leaf binder the combination of a rigid back, a flange rigid on one edge of said back, and standing at right angles to the back, a bar hinged on the other edge of said back, said bar being substantially parallel to the flange when the binder is closed, pins fastened to said hinged bar and extending upward towards the flange when the binder is closed, a hollow tube extending up from said bar, said flange having a hole therein placed above the tube when the binder

is closed, a pin adapted to pass through the hole in the flange and engage in the tube for the pur-



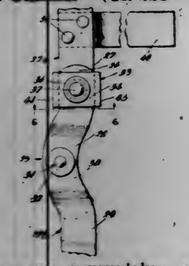
pose of locking the flange and bar in parallel relation with each other.

2,318,942
MATCH PACKET
Alfred Franklin Hodges, Philadelphia, Pa.
Application March 2, 1942, Serial No. 433,067
1 Claim. (Cl. 206—29)



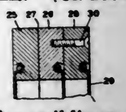
A match packet comprising a hood forming strip folded intermediate the ends thereof to provide spaced apart sides for the hood and opposed parallel ends therefor, a match assembly including match stems, and strip-like filler members arranged in pairs upon opposite sides of the tail ends of said stems and between which said stems are secured, said stem ends and filler strips forming a base for the assembly spacing the matches clear from both sides of the hood, and a pivot pin extending centrally through said sides of the hood and said base and securing the base between said ends of the hood for swinging movement of the assembly out of and into the hood, the sides of the hood having beveled corner edges exposing a portion of said base for engagement by a finger to swing the assembly out of the hood, said base having an edge match scratching strip thereon fitting flush with said ends of the hood when said assembly is swung into the hood, whereby matches may be scratched crosswise of said scratching strip at any point along the same when the assembly is swung into the hood.

2,318,943
LADDER
Melvin C. Holmes, Cleveland, Ohio
Application May 17, 1940, Serial No. 335,853
20 Claims. (Cl. 228—44)



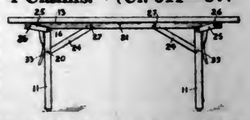
1. Ladder means comprising side pieces and rungs, said ladder means comprising a plurality of pivotally joined sections, corresponding side pieces of adjacent sections having principal straight portions in longitudinal alignment when said adjacent sections are extended; joint means between said principal portions off-set from said principal portions in the general plane thereof, said joint means comprising off-set overlapping portions forming parts of said corresponding side pieces respectively, the off-set portion of each side piece extending approximately to the straight portion of the other side piece, and a pivot disposed through said off-set portions approximately mid-way between their ends; one of said off-set portions having a straight extension at its end overlapping and substantially registering with a straight portion of the other of said side pieces; and means, cooperating with said extension and said registering straight portion, constructed and arranged to lock said side pieces against relative rotation about said pivot.

2,318,944
WALL UNIT
Elton B. Ingersoll and Leon E. Willett, Detroit, Mich., assignors to Chamberlin Metal Weather Strip Company, Detroit, Mich., a corporation of Michigan
Application March 27, 1941, Serial No. 385,402
2 Claims. (Cl. 160—130)



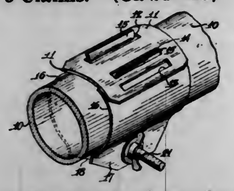
2. A wall unit for buildings, including at least two members, each comprising a rigid open frame and a panel extending across the opening in said frame and secured to one face thereof, said two members being juxtaposed in parallel relation and being secured together, back to back, with the panel portions on the outer faces, thereby providing an air space between said members, the panel portion of each member comprising a flexible sheet of more or less translucent plastic material having a foraminous screen embedded therein, the unit as a whole permitting the passage of light, providing insulation against the passage of heat, and being shatterproof under explosion, and a supplemental member secured to said translucent members, and comprising a similar open rigid frame, the opening in which is closed by a wire mesh panel relatively impervious to flame penetration and lying parallel to said first-named panels.

2,318,945
FOLDING TABLE LATCH
Udo K. Johannsen, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York
Application June 3, 1940, Serial No. 338,470
4 Claims. (Cl. 311—87)



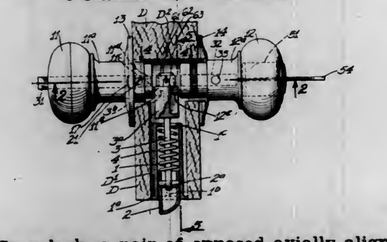
1. A portable banquet table of the collapsible type adapted to manipulatively unfold into erected position and be slidably upheld by floor means, said table comprising a top board structure, mated foldable legs at opposite regions of said structure and which several legs respectively have an upper end that is shiftable lengthwise of a board face, a relatively short guide link and a longer companion brace link respectively pivoted to each table leg and also to the board structure, said links being arranged to conjointly steer an upper leg end into and out of erected abutment with said face, hook engaging means secured to one such leg to move in unison therewith, latch lever means of which one end is pivotally mounted on the board structure in an interposed relation to the corresponding guide link and brace link board pivots, said lever in a region remote from its pivot being provided with a hook nose profile disposed to automatically latch said one leg against separation from its abutting board face, and means urging said lever into maintained contact with the hook engaging means and which hook engaging means serves to rock the lever counterwise to such urge alongside said board face when said leg is collapsed.

2,318,946
PIPE CLAMP
Samuel M. Kass, Philadelphia, Pa.
Application September 6, 1941, Serial No. 409,791
5 Claims. (Cl. 24—19)



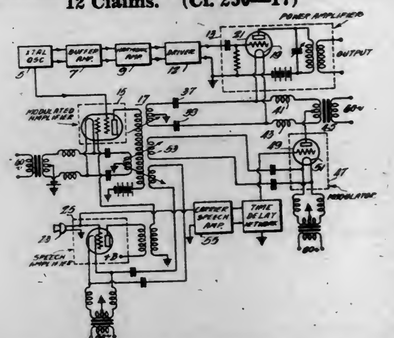
5. An encircling repair clamp for pipes comprising a link member extending circumferentially less than half of the circumference of the pipe, substantially rigid side members and link member having interengaging hinging means near one edge each of the side members by prong and slot interlinkage and having flanges at the outer edges of the side members and clamp-tightening means passing through the flanges, the side members being duplicates.

2,318,947
DOOR LOCK
Eugene V. Kidder, Los Angeles, Calif., assignor to Harry E. Fendring, Los Angeles, Calif.
Application August 23, 1940, Serial No. 353,798
8 Claims. (Cl. 70—152)



1. In a lock, a pair of opposed axially aligned knobs having hubs at their adjacent ends, a latch bolt housing located at right angles to the axis of the knobs, a bolt means reciprocally mounted in the housing, said bolt means having at the opposite sides of its inner end laterally extended flanges, the inner ends of the hubs having eccentric lugs, said lugs being positioned at and adapted to engage the inner sides of the corresponding flanges for retracting the bolt means with the rotation of either knob, separate locking rods reciprocally mounted in the hub of each knob, manual means in association with each knob for forcing its respective locking rod behind the inner end of the bolt means to prevent retraction thereof, and other means in association with the locking rods for shifting one out of bolt-locking position when shifting the other into bolt-locking position.

2,318,948
FILAMENT SUPPLY SYSTEM
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 22, 1940, Serial No. 366,583
12 Claims. (Cl. 250—17)



1. In a modulated transmitter including a thermionic discharge device having a cathode electrode, the method of operation which includes producing radio frequency currents in said device, modulating said currents, utilizing other radio frequency currents to energize the cathode of said device, and varying the amplitude of said other currents as a function of said modulations to produce a substantial variation in the energization of said cathode corresponding to said modulations.

2,318,949
IMAGE SHEET
Friedrich Kroner, Berlin-Charlottenburg, Germany, assignor to Transart Aktiebolag, Goteborg, Sweden
Application September 30, 1938, Serial No. 232,538
In Germany December 20, 1937
1 Claim. (Cl. 35—26)



A device of the character described comprising a plurality of superposed and separable thin image sheets of flexible transparent material, some at least of said sheets bearing a portion only of a composite total picture, said picture being formed by superposition of said sheets, each successive sheet having interposed therebetween an opaque layer of metallically conductive color extending in all directions beyond the outermost contours of the composite total picture and to the edges of said sheets whereby any surface attraction between said sheets is proportionately reduced, and a transparent portion extending within the contours of the composite total picture

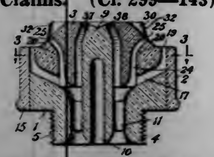
and occupying the parts not occupied by the said portion of the composite total picture, said sheets being arranged in such a manner relative to each other that the outermost contours of the composite picture on the different sheets coincide.

2,318,950
CAP AND CLIP FOR FOUNTAIN PENS
James J. Larmour, West Orange, N. J., assignor to The Chilton Pen Company, Inc., Summit, N. J., a corporation of New York
Application July 17, 1940, Serial No. 347,868
2 Claims. (Cl. 24—11)



1. A closure cap for fountain pens and the like comprising the combination of a clip member having a substantially circular opening therein, the inner edge of said opening having a plurality of spaced recesses therein, and a cap made from a plastic molding compound having an integral reduced end portion extending through the opening in said clip over its adjacent edge and into said recesses to hold said members together and lock them against relative rotation.

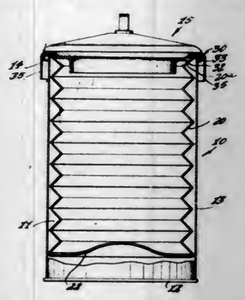
2,318,951
SPRAY NOZZLE
John O. Lewis, Woodside, N. Y., assignor to Delta Nozzle Corp., New York, N. Y., a corporation of New York
Application February 7, 1942, Serial No. 429,881
7 Claims. (Cl. 299—143)



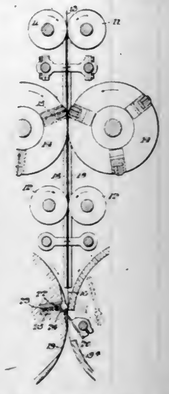
1. A nozzle provided with a base member having a disk portion, an annular shell within which the disk portion is fitted, said shell having an end wall formed with radial grooves co-operating with parts of the disk in forming radial water passages, said passages terminating in orifices at the outer face of the end wall, the end wall having a central opening a top member fitted within the opening in the end wall, said top member having a plurality of spaced grooves co-operating with parts of the end wall in forming radial water passages terminating in orifices angularly disposed in relation to those which emerge from the end wall, and co-operating portions on the top member and base member for providing spaced angular orifices adjacent to the central portion of the top member.

2,318,952
SANITARY WASTE PAIL LINING
Carl Lee Martin, Rome, Ga.
Application August 4, 1941, Serial No. 405,338
1 Claim. (Cl. 220—65)

A liner for a pail comprising an annular rim member adapted to engage the open end of a pail, said rim member having a downwardly extending cylindrical wall adapted to be received within the pail, a horizontal flange extending outwardly therefrom, an upwardly and outwardly annular tapered portion extending from said flange, an annular downwardly curved portion extending from said tapered portion and adapted to engage the upper rim edge of the pail, a downwardly extending, annular, skirted wall extending from said curved portion and adapted to be disposed outside of said pail, an annular bellows like collapsible body, the upper end of said body being received within said rim member and attached to the inner surfaces of said tapered and curved portions of said rim member, and a bottom wall attached to the bottom of said bellows body.

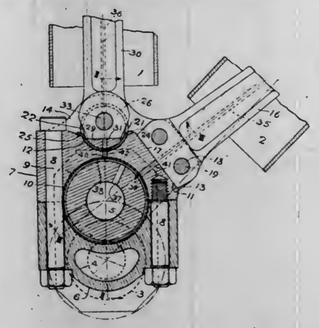


2,318,953
SHEET AND SIGNATURE HANDLING MECHANISM
Joseph E. Meyer, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application August 5, 1942, Serial No. 453,614
9 Claims. (Cl. 164—84.5)



9. In a sheet and signature handling machine, a pair of coacting rotary cutters for partially severing successive sheets from a web traveling at a certain speed, a pair of cylinders rotating at a higher surface speed than the web, a spring seated tab breaker on one cylinder arranged to press the leading end of a partially separated sheet against the peripheral surface of the other cylinder to wholly separate the sheet by breaking the tabs connecting the sheet with the web, and impaling pins on said other cylinder for engaging the sheet as it is wholly separated from the web.

2,318,954
INTERNAL COMBUSTION ENGINE
Ralph Miller, Buffalo, and Richard L. Jansen and John W. Anderson, Auburn, N. Y., assignors to American Locomotive Company, New York, N. Y., a corporation of New York
Application February 11, 1942, Serial No. 430,318
5 Claims. (Cl. 74—580)



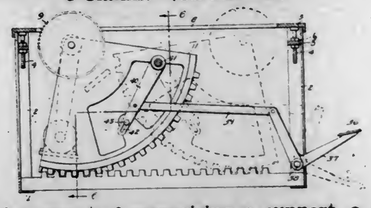
1. A connecting rod assembly comprising a bearing box; a connecting rod rigid at its inner end with said bearing box; an articulated connecting rod, said connecting rods being disposed at a V-angle to each other, said bearing box having a cylindrically concave face directed toward said articulated rod outer end, and a lug at each side of said face extending toward said rod outer end, each of said lugs having a circular orifice, said orifices and said concave face having a common axis; a pin extending through said orifices in rotatable association therewith and having a face opposite and in rotatable association with said concave face, said pin having a slot between said lugs opening toward said rod outer end, said slot having a bottom face directed toward said rod outer end, said articulated rod having its inner end disposed in said slot and having a face opposite said slot face, said opposite faces being respectively associated for transmitting thrusts; and a bolt extending through said articulated rod inner end and said pin rigidly connecting said articulated rod to said pin.

2,318,955
FRAMELESS INSECT SCREEN
Leland T. Milnor, Indian Hill, Ohio, assignor to The Cincinnati Fly Screen Company, Cincinnati, Ohio, a corporation of Ohio
Application May 15, 1941, Serial No. 393,595
9 Claims. (Cl. 160—328)



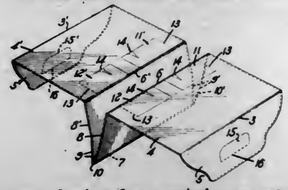
7. In a frameless insect screen for an opening such as a window, a length of screen fabric and a rail unit for each of the opposite edges of the fabric constituting a fabric binding rail and a fastener rail hingedly united longitudinally, the binding rail having a clasping engagement with the end of the fabric for the full width thereof, and the fastener rail having a detachable connection with the window frame.

2,318,956
POWER TOOL MACHINE
Omer Moore, Corvallis, Oreg.
Application August 2, 1940, Serial No. 349,827
5 Claims. (Cl. 143—47)



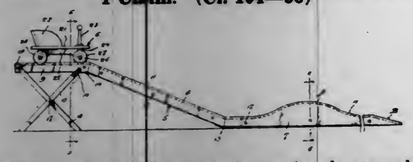
2. A power tool comprising a support, a pair of spaced apart parallel tracks extending longitudinally on said support, a frame having means defining a pair of arcuate rockers, said rockers being arranged upon said tracks for limited rocking movement thereupon, an arbor mounted on said frame coaxially with the axis of the arc of said rockers, said frame being wholly supported and guided by said tracks, said arbor being guided in a predetermined straight line solely by engagement of said rockers with said tracks upon rocking movement of said frame, manually operable means for rocking said frame in one direction, and a counterweight mounted on said frame for rocking said frame in the opposite direction.

2,318,957
CONTAINER CLOSURE AND CARRIER
James C. Morris, Wadsworth, and Paul J. Yarman, Barberton, Ohio, assignors to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Application January 22, 1941, Serial No. 375,522
2 Claims. (Cl. 217—56)



1. A closure device for containers, particularly adapted as a cover for a case of bottled goods and convertible into a carrier for a plurality of the bottles, comprising a blank of bendable material of appropriate shape and dimensions to close the container when folded as a cover and applied thereto, said blank being provided intermediate its ends with score or fold lines defining the ultimate bottom of the carrier, other score or fold lines adjacent to said first-named score or fold lines and defining a portion of the blank depressible to V-shape to frictionally engage the adjacent side walls of the container, score or fold lines adjacent to the ends of the blank and defining between them and the first-named score or fold lines the side walls of the carrier, the end portions of the blank beyond the end adjacent score or fold lines being bent upon said lines to extend downwardly within the container in contact with the adjacent end walls thereof and ultimately providing handle means for the carrier, and complemental means carried by the side wall portions and interengageable to maintain the blank in set up condition as a carrier when the blank is appropriately bent upon said first-named score or fold lines.

2,318,958
AMUSEMENT DEVICE
Thomas J. Murphy, Liberty, N. Y.
Application September 29, 1941, Serial No. 412,865
1 Claim. (Cl. 104—53)



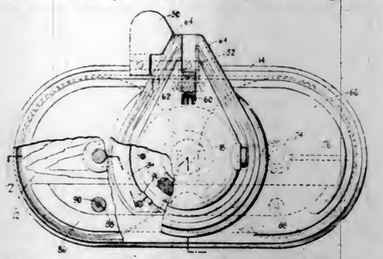
In a child's coasting device, a track assembly over which a child-carrying car is adapted to travel and including intermediate and end sections and each section consisting of rails tied together in parallelism and the rails of one of the end sections having convex curved portions thereto and provided at one end of said latter named section with tapered end portions, hinges connecting the end sections to the intermediate section, pairs of crossed pivotally connected legs supporting one of the end sections elevated and horizontally with the intermediate section inclining downwardly therefrom and the other end section resting horizontally on the ground, means pivoting one leg of each pair of legs to the elevated end section and the latter-named end section having notches to receive the end of the other leg of each pair of legs whereby said legs may be folded to lie under said elevated section, said intermediate section and the ground engaging end section adapted to be folded toward each other with the folded legs and the other end section lying therebetween.

2,318,959
ARTIFICIAL GLASS
Irving E. Muskat, Maxwell A. Pollack and Franklin Strain, Akron, and William A. Franta, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application April 4, 1940, Serial No. 327,802
21 Claims. (Cl. 260—80)

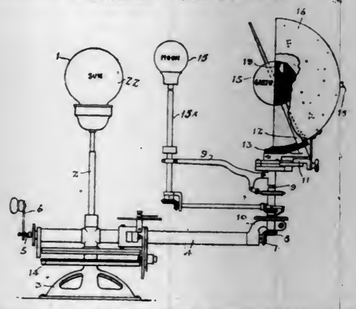
1. A method of preparing an artificial glass which comprises preparing a fusible heat convertible polymer of a compound which in its monomeric form contains at least two polymerizable double bonds, molding the fusible polymer and further polymerizing the surface of the molded product to a hard, substantially infusible state while simultaneously polymerizing the interior to a substantially lesser extent.

2,318,960
FLOOR POLISHING MACHINE
Nathaniel N. Okun, Bronx, N. Y., assignor to Atlas Floor Surfacing Machinery Corporation, New York, N. Y., a corporation of New York
Application March 19, 1941, Serial No. 384,032
2 Claims. (Cl. 15—49)

1. A floor polishing machine comprising a housing made of a light-weight material, one or more circular brushes beneath the housing and resting directly on the floor, said brushes constituting the sole means for supporting the machine on the floor, a motor above said housing for driving said brushes, a handle connected to said housing, means for locking the handle in substantially upright position when storing away the machine, and a balance weight within the housing on the side opposite the handle, said balance weight being made of a heavy material and being so designed as to balance the machine when stored away in order to provide equal distribution of weight on the brush bristles so as not to deform the brush out of desired symmetry during non-use of the machine.

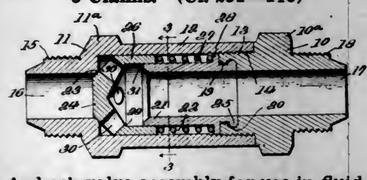


2,318,961
PLANETARIUM
William Park, Toronto, Ontario, Canada
Application September 20, 1941, Serial No. 411,638
5 Claims. (Cl. 35—45)



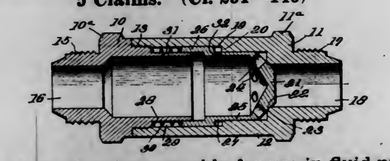
1. In a planetarium the combination with the representation of the earth of a canopy representing the heavens arranged concentric to the earth and having light areas representing heavenly bodies to be reflected from the surface of the earth globe.

2,318,962
VALVE ASSEMBLY
Arthur L. Parker, Cleveland, Ohio
Application August 3, 1940, Serial No. 350,762
5 Claims. (Cl. 251—146)



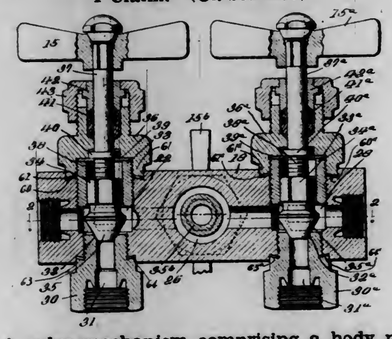
3. A check valve assembly for use in fluid pressure lines, comprising a valve casing having inlet and outlet ports, a valve seat disposed within said valve casing around one of said ports, a valve member having a seat-engaging face adapted to cooperate with said valve seat for controlling the passage of fluid through the ports, said valve member having a passage therethrough in rear of said seat-engaging face and adapted to afford communication between the ports when the valve member is open, said valve casing having a wall portion spaced inwardly from the inner surface thereof whereby to provide an annular chamber around the inside of the casing without obstructing the free flow of fluid centrally therethrough, said valve member having a skirt portion extending between the inner surface of the valve casing and the outer surface of said wall portion and forming a movable wall of said chamber, and means providing restricted communication between the adjacent surfaces of said skirt portion and said wall portion for permitting retarded flow of fluid between the central fluid passage and said chamber whereby to check rapid movements of the valve member in opposite directions.

2,318,963
VALVE ASSEMBLY
Arthur L. Parker, Cleveland, Ohio
Application November 28, 1940, Serial No. 367,656
5 Claims. (Cl. 251—146)



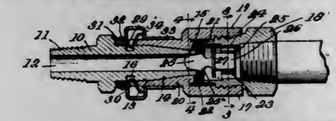
2. A check valve assembly for use in fluid pressure lines, comprising a valve casing having inlet and outlet ports and a sleeve portion extending within and spaced inwardly of the casing, a valve seat disposed within said casing, a valve member adapted to cooperate with said valve seat for controlling the passage of fluid through the valve casing and having a skirt portion fitting within the valve casing with a portion thereof disposed between said sleeve portion and the inner surface of the valve casing whereby to provide a pair of annular chambers with a movable dividing wall therebetween, said sleeve portion and said skirt portion having restricted openings therethrough for providing restricted communication between the pressure line and the chambers whereby to effect hydraulic checking of opposite movements of the valve member.

2,318,964
VALVE ASSEMBLY
Arthur L. Parker, Cleveland, Ohio
Application March 31, 1941, Serial No. 386,198
1 Claim. (Cl. 251—47)



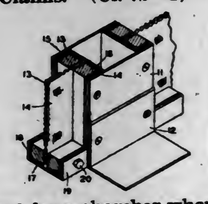
A valve mechanism comprising a body member having a transverse bore therethrough, a sleeve member threaded into said bore adjacent one end thereof and providing a conduit port surrounded by a valve seat at the inner end thereof, a sleeve bushing threaded into the other end of said bore and dimensioned so as to project above the surface of said body member, said body member having a recess surrounding said sleeve, a bonnet having threaded connection with said sleeve bushing and a depending skirt adapted to extend into said recess, the bottom of said recess being inclined upwardly and inwardly and the bottom edge of the skirt of the bonnet being similarly inclined so as to engage and compress a gasket located in the recess, a valve stem mounted in said bonnet and extending through said sleeve bushing and a valve carried by the lower end of said valve stem adapted to engage the valve seat, an annular shoulder on said stem disposed within and cooperating with said bonnet to prevent outward endwise movement of said stem, an annular plate disposed around and immediately underlying said shoulder to prevent inward movement of the stem, said plate being clamped between the projecting end of said bushing and said bonnet, said bushing having means cooperating with the valve stem when said stem is turned for moving said valve to and from said seat.

2,318,965
VALVED COUPLING
Arthur L. Parker and John N. Wolfram, Cleveland, Ohio; said Wolfram assignor to said Parker
Application March 31, 1941, Serial No. 386,200
6 Claims. (Cl. 284—19)



1. A coupling for joining fluid conduits and comprising male and female coupling members adapted to be quickly connected or separated, valve means carried by said female coupling member and adapted to be automatically opened upon connection of the coupling members and to be automatically closed upon separation of the coupling members, said male coupling member having an annular groove on the outer surface thereof, spaced spring arms carried by said female coupling member and engageable with said groove for holding said coupling members together and operable upon engagement with the male coupling member to permit movement of the coupling members toward one another for connecting the same, and a sleeve member carried by said female coupling member and engageable with said spring arms for withdrawing the said arms from engagement in said groove whereby to permit separation of the coupling members.

2,318,966
WALL AND BUILDING STRUCTURE
Howard G. Pillsbury and Elton B. Ingersoll, Detroit, Mich., assignors to Chamberlin Metal Weather Strip Company, Detroit, Mich., a corporation of Michigan
Application March 27, 1941, Serial No. 385,403
3 Claims. (Cl. 72—1)



2. A wall panel for a chamber where explosives

are stored or handled, said wall panel comprising a plurality of parallel sheets of foraminous screen material, two of said sheets retaining therebetween and being secured together by a filling compound of fireproof plastic material, the over-all thickness of the filled sheets being not materially greater than that of the unfilled sheets.

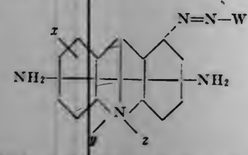
2,318,967
WALL STRUCTURE
Howard G. Pillsbury and Elton B. Ingersoll, Detroit, Mich., assignors to Chamberlin Metal Weather Strip Company, Detroit, Mich., a corporation of Michigan
Application January 19, 1942, Serial No. 427,262
3 Claims. (Cl. 160—179)



1. A yielding flexible wall panel for a chamber where explosions are likely to occur, comprising a frame, and a plurality of sheets of relatively heavy foraminous screen material mounted in spaced parallel position in said frame, and a sheet of relatively light foraminous screen material applied to the outer face of each outermost sheet of heavy screen material, each sheet of light screen material suporting a thin layer of fireproof material and providing a surface on which a finishing coating may be applied.

2,318,968
ACRIDINIUM AZO COMPOUNDS
Frederick Proescher, San Jose, and Vladimir M. Sycheff, Palo Alto, Calif., assignors to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Application May 6, 1941, Serial No. 392,176
4 Claims. (Cl. 260—155)

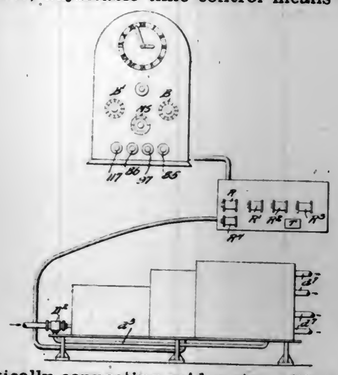
1. Azo compounds of the following general formula:



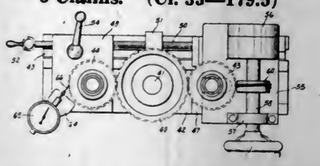
in which W is a radical selected from the group consisting of the sulfanilamide radical and the sulfapyridine radical, x is a radical selected from the group consisting of hydrogen and alkoxy radicals and is linked to one of the carbon atoms of the acridinium ring, y is a radical selected from the group consisting of hydrogen and alkyl radicals, z is a radical selected from the group consisting of hydrogen and monobasic acid radicals, and the amino groups are linked each to a carbon atom of the acridinium ring.

2,318,969
WATER DISTRIBUTION APPARATUS
Richard Reynolds, Washington, D. C.
Application October 25, 1938, Serial No. 236,961
6 Claims. (Cl. 161—7)

1. A water distribution apparatus comprising a chamber having a plurality of independent outlets controlled by independently movable valves each of which is normally biased to closed position, a supply chamber, a normally seated main valve controlling the supply of water to said chamber, a rotatively mounted cam member for unseating said main valve, a motor for imparting rotative movements to the cam member, a second rotatively mounted cam member having means for successively unseating the outlet valves, a second motor for actuating said second cam member, adjustable time-control means for automatically connecting said motor with a source of power at variable intermittent pre-selected intervals of time, whereby said cam will successively unseat the outlet valves at intervals of time corresponding to said intermittent periods and means operative while the second motor is idle for automatically and temporarily energizing said second motor, so as to bring said second cam to a predetermined position.



2,318,970
APPARATUS FOR TESTING GEARS
George O. Richmond, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application September 24, 1941, Serial No. 412,116
5 Claims. (Cl. 33—179.5)

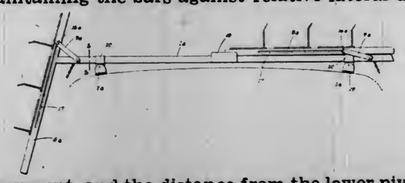


1. Apparatus for testing gears comprising a support for rotatably holding the gear to be tested, a master gear rotatably mounted on said support to have meshing engagement with said first named gear at one side of said first-named gear, a second master gear rotatably mounted on said support to have meshing engagement with said first named gear at a point spaced circumferentially from its point of engagement with the first master gear, and means for gauging the position of corresponding sides of successive teeth of one of said master gears when the several gears are rotated by rotation of the other master gear.

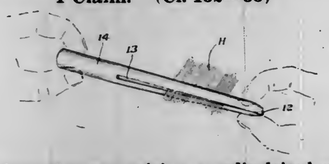
2,318,971
SKI RACK FOR MOTOR VEHICLES
Camille C. Roumage and Andrew K. Blodjer, Auburn, Calif.; said Roumage assignor to said Blodjer
Application April 13, 1940, Serial No. 329,500
3 Claims. (Cl. 224—29)

1. An article carrying rack for a motor vehicle

top, comprising a main bar adapted to overlie the top from adjacent one edge thereof, means to secure the main bar in position, an article supporting bar normally disposed parallel to and resting on the main bar from adjacent an outer end of the latter, parallel links between which said bars engage, said links normally sloping upwardly and rearwardly, lower pivots between the links and said main bar, and upper pivots between the links and said supporting bar; said links maintaining the bars against relative lateral displacement, and the distance from the lower pivots to said outer end of the main bar being greater than the length of the links to such extent that when the supporting bar is pulled outward and lowered, and said links reverse to upwardly and outwardly sloping position, said outer end of the main bar abuts the supporting bar below said upper pivots, whereby said links cannot swing downward beyond dead center, limiting lowering movement of the depending supporting arm and maintaining the same outwardly short of perpendicular.



2,318,972
HAIR CURLER
Charles P. Simas, Taunton, Mass.
Application August 12, 1942, Serial No. 454,503
1 Claim. (Cl. 132—33)



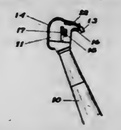
A hair curler comprising a cylindrical member of non-metallic, flexible material such as wood having a solid end portion and having a slotted portion at the opposite end portion that is at least twice as long as said solid portion and flares outwardly at its open end, said slotted portion having two blades spaced apart that are adapted to be flexed together at their free end portions by the pressure of two fingers.

2,318,973
SHIPPING CARTON
Burton O. Smith, Kennett Square, Pa.
Application April 29, 1941, Serial No. 390,869
1 Claim. (Cl. 229—52)



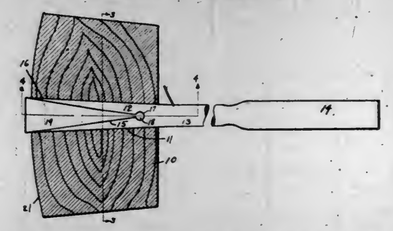
A carton of the character described consisting of an open ended exterior retainer element forming the outer sides, front and back of a carton and having top and bottom edges, and a pair of separate and unattached interior compartment elements forming in part the top and bottom of the carton, the exterior retainer element having at least four interior and corresponding exterior walls joined together so that two of said interior walls are oppositely disposed, the said compartment elements being identical and each having a bottom and inner and outer side walls and a top, the said outer walls of each compartment element contact and are co-extensive with and closely fit against the entire opposed inner side walls of the retainer, the said top and bottom of each of the compartment elements being of a greater width than the said outer wall of each compartment, and the outer respective edges of the top and bottom of the compartment elements extend over the top and bottom edges respectively of other opposed walls of the retainer and thereby prevent accidental displacement of either or both compartment elements when the retainer element is grasped for carrying purposes, and the said inner sides of each compartment contacting one another medially of the carton and extending through registered openings in overlapping portions of the tops of the said compartments and projecting beyond the said tops to provide carrying means for the carton.

2,318,974
MAGAZINE RAZOR
Samuel C. Stampleman, Cohasset, and Joseph Muros, Cambridge, Mass., assignors to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application December 14, 1939, Serial No. 309,218
8 Claims. (Cl. 30—40)



1. A safety razor having a head with a passage therein and presenting a blade seat extended to form an integral guard, a spring sheet metal member having its body secured to the head at a point substantially below the blade seat and shaped to present a blade stop at either end of the guard and a position-controlling arm which extends into the passage in the head where it may be displaced by a prying member inserted in said passage.

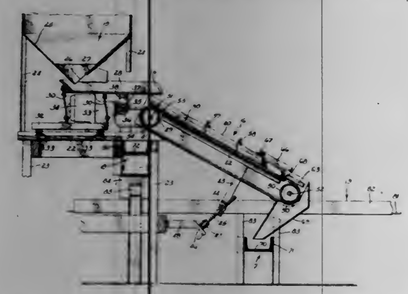
2,318,975
HANDLE
William C. Stanley, Portland, Oreg.
Application October 25, 1941, Serial No. 416,517
4 Claims. (Cl. 306—32)



1. A handle having its tool supporting end tapering with its wider end outermost and having a wedge shaped slot formed across said end with its point innermost, the point of said wedge shaped slot terminating in an enlarged recess, the sides of the tapering handle end being flexible enabling same to pass through the narrow end of a tool socket, and a filler for said wedge

shaped slot and its enlarged recess adapted to be inserted readily when the handle is in an unflexed position.

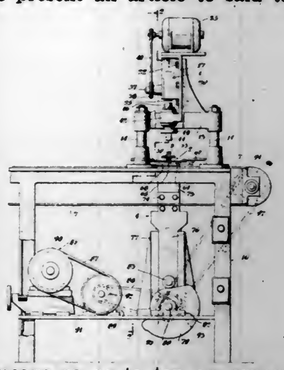
2,318,976
NUT SEPARATING MACHINE
Le Roy L. Stevens, Los Angeles, Calif.; assignor to California Walnut Growers Association, Los Angeles, Calif., a corporation of California
Application February 25, 1941, Serial No. 380,439
7 Claims. (Cl. 209—114)



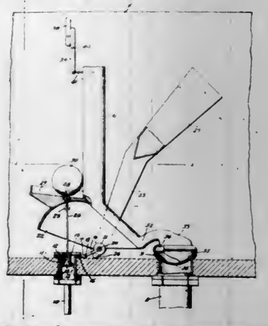
1. In a device for separating from a body of cracked nuts pieces of shell containing nut kernels, the pieces of shell being capable of rolling down an inclined plane, the combination of: an upper belt roller; a lower belt roller; a continuous belt passing over said rollers so that the upper surface of said belt is disposed lengthwise upwardly from the horizontal, said belt having relatively deep corrugations in its upper surface; feed means for feeding a mixture of cracked nuts onto said upper surface of said belt adjacent the upper end thereof, said mixture including nut kernel containing shells capable of rolling down said belt; means for retarding the normal movement of said mixture downwardly on said upper surface of said belt toward the lower end thereof, including a supporting member transverse to said belt and having suspended therefrom a plurality of strings of bead members adapted to cooperate with said corrugations to retard said normal movement; receiving means for receiving said nut kernel containing shells at the lower end of said upper surface of said belt; means for rotating one of said belt rollers so as to move said upper surface of said belt upwardly to carry other components of said mixture thereon countercurrent to the direction of movement of said nut kernel containing shells; and means for adjusting the angle of said upper surface of said belt with the horizontal so as to vary the tendency of said mixture to move down said upper surface toward the lower end thereof.

2,318,977
MACHINE FOR INLAYING
Milford Guy Sypher, Summit, N. J., assignor to Plastic Inlays, Inc., Summit, N. J., a corporation of New Jersey
Application April 15, 1940, Serial No. 329,680
14 Claims. (Cl. 41—1)

1. A machine of the class described for inlaying ornaments comprising, in combination, means adapted to create a series of taps, means adapted to be actuated in response to movement of an article to transfer taps from said tap creating means to an ornament to be attached to an article, and an article holder adapted to be moved to present an article to said tap transferring means so as to tap an ornament into position in said article.

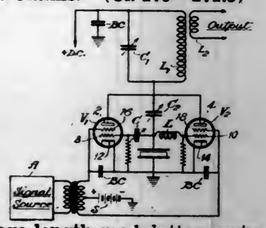


2,318,978
FLUSH TANK
Albert H. Tow, Atlanta, Ga., assignor of one-half to Frank B. Slupesky, Indianapolis, Ind.
Application May 11, 1942, Serial No. 442,520
18 Claims. (Cl. 4—41)



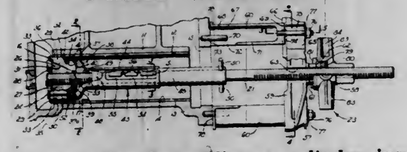
1. A flush tank mechanism comprising a tank having a water feed pipe and a drain pipe connected to the tank, an overflow pipe in the tank, a valve on the lower end of the overflow pipe controlling the drain pipe, and a trap in said overflow pipe retaining a water seal therein at all times.

2,318,979
FREQUENCY MODULATOR
George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 2, 1941, Serial No. 413,292
10 Claims. (Cl. 179—171.5)



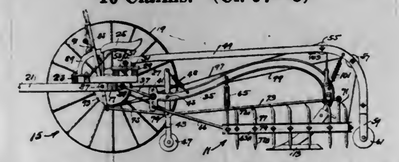
1. In a wave length modulation system, a pair of electron discharge tubes each having an anode, a cathode, and a control grid, a piezo-electric crystal in a holder having two terminals, circuits including said crystal regeneratively coupling the cathode, the anode and control grid of each of said tubes, a phase displacing reactance in at least one of said circuits whereby the voltages therein and on corresponding electrodes of the tubes are relatively displaced in phase a limited amount, a common tank circuit connected with corresponding electrodes of said tubes, and means for differentially modulating the impedances of said tubes in accordance with signals.

2,318,980
CYLINDER LINER PULLER
Clarence White, Walnut Park, Calif., assignor to Oil Well Manufacturing Corporation, Los Angeles, Calif., a corporation of California
Application May 16, 1941, Serial No. 393,735
5 Claims. (Cl. 29—88.2)



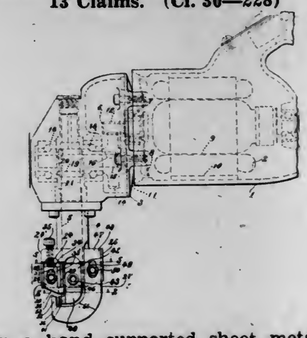
1. In a puller for pulling a cylinder insert member from a cylinder, the combination of: a stem adapted to be extended inwardly of the bore of said cylinder; an expansible device on the inner end of said stem adapted when expanded to engage an inwardly directed face of said insert member; an expander for said device including a nut threaded on said stem adapted when rotated in one direction to expand said device; an elongated, two-section, longitudinally extensible socket wrench for said nut rotatably mounted on said stem and extending from said nut outwardly of said bore, the two sections of said wrench being telescopically joined; and means associated with said stem for moving it longitudinally outwardly of said bore, including a thrust yoke extending outwardly from the outer end of said cylinder and spanning said bore and means for applying a thrust force to said yoke and a pulling force to said stem.

2,318,981
COMBINED CULTIVATOR AND HARROW
James M. Wiley, Memphis, Tenn.
Application April 26, 1941, Serial No. 390,435
10 Claims. (Cl. 97—8)



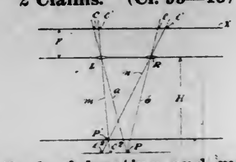
1. An agricultural implement of the character described, comprising a traction device, including an axle and spaced wheels, and a plurality of cultivating units independently attached thereto, each said unit including a truss frame attached to and supported at its forward end by said device, and having at its rear end a suitably journalled supporting roller, a sweep beam carrying an attached sweep, and a harrow surrounding said sweep, both sweep and harrow underlying said truss, a traction link connecting the forward end of said beam with said traction device, and a second traction link connecting the forward ends of said beam and said harrow, means supporting the forward end of said harrow from said beam, and means respectively supporting the rear ends of said beam and said harrow from said truss.

2,318,982
PORTABLE SHEET METAL CUTTING TOOL
Glenn C. Wilhide, Towson, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland
Application July 30, 1940, Serial No. 348,344
13 Claims. (Cl. 30—228)



1. In a hand supported sheet metal cutting tool having an electric motor and casing, a guide at right angles to the motor axis and depending from the casing and a plunger reciprocating in said guide and operated from said motor; a male cutter block removably mounted on said plunger and having a horizontally offset male cutter, a female cutter block removably mounted on the lower end of said guide and having a female cutter offset above, and having a downwardly disposed die cavity in die cutting alignment with said male cutter, said female cutter block having a downwardly disposed guide surface forward of said cavity and downwardly and rearwardly inclined to the cutting edges of said female cutter.

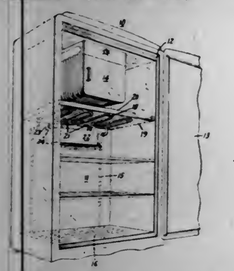
2,318,983
STEREOPHOTOGRAPHY
Douglas F. Winnek, Rye, N. Y., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application September 13, 1940, Serial No. 356,626
2 Claims. (Cl. 95—18)



1. A method of locating and measuring the position of an object relative to a predetermined datum plane, comprising, focusing a camera on said datum plane, photographing said object on lens-ridged photographic film while moving the camera a distance substantially equal to its distance from the datum plane divided by the f value of the lens-ridges and while moving the film in the camera a distance substantially equal to the focal plane distance of its lens divided by the aforesaid f value, measuring the distance on the developed film through which the image of said

object shifts its position as the film is scanned from one side to the other in viewing the image, and utilizing this measured distance to determine the distance between said object and said datum plane.

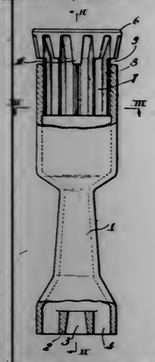
2,318,984
REFRIGERATOR CABINET
Leonard W. Atchison, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 17, 1941, Serial No. 423,347
3 Claims. (Cl. 62—89)



1. In a refrigerating cabinet comprising a food storage compartment, a primary refrigerating system including a cooling element located in one region of said compartment and a secondary refrigerating system including a cooling portion for cooling another region of said compartment and a condensing portion, means disposed below and adjacent to said element for receiving moisture and ice from said element, said means being formed of a relatively good heat conductive material, said condensing portion being disposed in heat exchange relation with said means, and means for removing any accumulated ice or liquid from said means

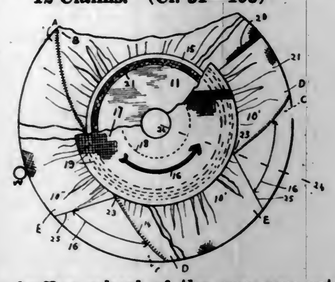
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2,318,985
GAS BURNER
Charles I. Baker, West Hickory, Pa.
Application November 23, 1940, Serial No. 366,870
3 Claims. (Cl. 158—116)



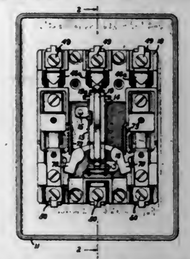
1. A gas burner comprising an upright mixer tube for gaseous fuel, and a flame spreader disposed in the upper end of the tube and projecting above it, the side of the spreader being provided with a plurality of laterally spaced ribs extending from substantially the top of the spreader to a point inside of the tube to thereby form a plurality of separate burner ports, and said ribs having extension portions projecting outwardly across the top of the tube at a predetermined distance above it to form with the top of the tube ignition by-passes from one of said ports to another, said outwardly projecting portions of the ribs creating separate burner flames above the by-passes and being wide enough to maintain the flames separated above the burner.

2,318,986
BUFFING WHEEL AND PROCESS OF MAKING THE SAME
Henry R. Benbow, New Hartford, N. Y., assignor to Divine Brothers Company, Utica, N. Y., a corporation of New York
Application February 1, 1943, Serial No. 474,277
12 Claims. (Cl. 51—193)



1. In a buffing wheel of the one-way rotation type, and having a rigid center and projecting therefrom a working zone reaching to the periphery and composed of annular rings of fabric having their periphery cut on the bias, said rings being formed of long strips of fabric puckered on their edges toward said solid center, said long strips being formed of shorter pieces of fabric cut on the bias with their angular ends sewed to adjacent short pieces resulting in seams extending diagonally of said long strips producing an acute angle of fabric on one side of each seam adjacent the periphery and an obtuse angle on the other side, the acute angles that would project towards the work being trimmed off to make an obtuse angle.

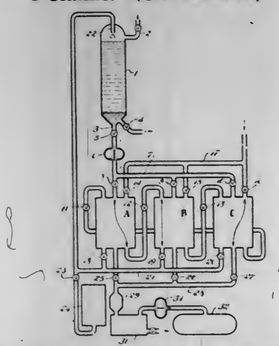
2,318,987
CIRCUIT BREAKER
William Lawrence Butler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 19, 1942, Serial No. 447,625
12 Claims. (Cl. 200—116)



1. A push button operated circuit breaker comprising cooperating switch contacts, a floating lever having a first end connected to move one of said contacts, means for slidably and pivotally suporting said lever at at least one end, a manually operable operating linkage comprising a pivotally mounted actuating lever slidably and

interlockingly engaging said floating lever intermediate its ends and a push button actuated rocker arm pivotally mounted intermediate its ends at a fixed point and linked with said actuating lever to control the movement thereof, releasable latch means for normally retaining the other end of said floating lever in a position fixed with respect to said fixed point, said floating lever providing friction catch means arranged to engage said actuating lever for retaining said floating lever in a contact-closing position, a spring connected between said floating lever and a movable position of said operating linkage to bias said floating lever to a contact-opening position and said linkage to an off position while biasing said friction catch means into engagement with said actuating lever, and means responsive to the current traversing said contacts for releasing said latch means.

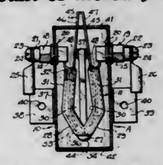
2,318,988
PURIFICATION OF BUTADIENE
David Craig, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 16, 1940, Serial No. 361,358
5 Claims. (Cl. 260—680)



4. The process of purifying butadiene which comprises bringing an aqueous solution of cuprous chloride into contact with a liquid mixture of butadiene and butene, separating the aqueous solution and filtering it to remove the precipitated butadiene complex, bringing the filtered solution containing such butene as may have been dissolved in it into contact with previously regenerated solid cuprous chloride to resaturate it and recirculating it in contact with the liquid mixture of butadiene and butene, and periodically removing the filtered complex from contact with the circulating solution and heating it to regenerate solid cuprous chloride and liberate purified gaseous butadiene, accumulating a new batch of filtered complex and bringing filtered solution in contact with another batch of cuprous chloride regenerated in a previous cycle.

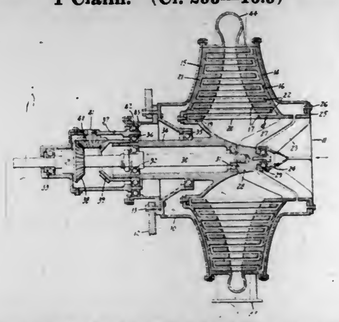
2,318,989
AUTOMATIC SAFETY SWITCH FOR AUTOMOTIVE VEHICLES
Clifford E. Dearbaugh, Toledo, Ohio
Application April 7, 1941, Serial No. 387,119
7 Claims. (Cl. 200—52)

1. In an automotive vehicle including an electrical circuit, an automatic safety switch interposed in said circuit comprising an open receptacle formed of a tubular member having two spaced, substantially vertical arms communicating directly with the atmosphere at their upper end and a passageway connecting said arms at their lower ends, a pair of spaced electrodes mounted outside of said receptacle and extending downwardly one into each of the arms of said tubular member to support the same, and a measured amount of mercury within the recep-



tacle and bridging said electrodes whereby the electrical circuit will be maintained closed during normal operation of the vehicle but will be opened whenever the vehicle is tilted to a dangerous angle and permanently broken should the vehicle tilt beyond such angle to a degree sufficient to permit the mercury to flow from said open receptacle into the atmosphere.

2,318,990
RADIAL FLOW ELASTIC FLUID TURBINE OR COMPRESSOR
John H. Doran, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 10, 1942, Serial No. 446,412
1 Claim. (Cl. 253—16.5)



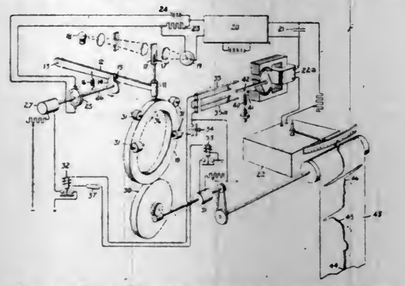
Radial flow elastic fluid turbine or compressor comprising a casing, two rotors each having a shaft for rotation in opposite directions disposed within the casing, one of the shafts concentrically surrounding the other shaft, and beveled gear means connecting the shafts and comprising a first and a second beveled gear each secured to one of the rotor shafts and a third beveled gear meshing with the first and second gears, and means rotatable about the rotor shafts for supporting the third beveled gear.

2,318,991
GARAGE DOOR CONSTRUCTION
William D. Ferris, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application July 29, 1940, Serial No. 348,097
5 Claims. (Cl. 20—19)

1. In a garage door construction in combination with a frame forming a door opening, a rigid door adapted when closed to occupy a substantially vertical position with respect to said opening and to shift to an overhead open position, a plurality of transverse horizontally elongated rigid supports adjustably mounted on the inside face of said door in alignment with each other,

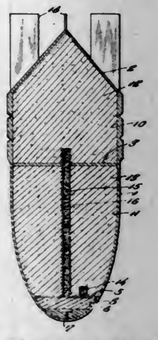
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2,318,993
AUTOMATIC SCLEROSCOPE
Claude M. Hathaway, Denver, Colo., assignor to General Electric Company, a corporation of New York
Application February 21, 1941, Serial No. 380,005
4 Claims. (Cl. 265—13)



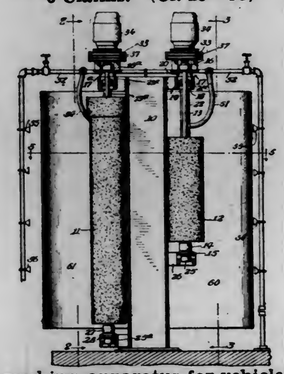
1. An automatic scleroscope comprising a scleroscope hammer, means for supporting material to be tested for hardness in testing position beneath such hammer, means for intermittently raising said hammer a predetermined distance and allowing it to fall upon said material, photoelectric measuring means for measuring the extent of rebound of such hammer and means for suppressing the operation of said measuring means when the hammer is raised by the hammer raising means.

2,318,994
BOMB
August F. W. Helmbold, Newport, Ky.
Application July 7, 1941, Serial No. 401,359
2 Claims. (Cl. 102—6)



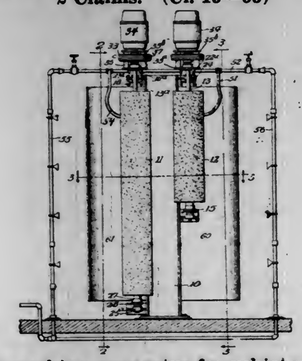
In a device of the class described, a shell of
al and substantially bullet-shaped, and hav-
a leading nose end, a transverse partition in
shell adjacent the nose and forming in the
r a chamber, a second transverse partition
aid shell intermediate the first mentioned
tion and the other end of the shell and
ing in said shell an intermediate chamber
ear chamber, respectively, a detonating cap
use material in the first mentioned cham-
high explosive in the rear chamber, an
mable material in the intermediate cham-
short nipple extending through the first
oned partition into the intermediate cham-
rough which the fuse material is adapted
ite the inflammable material, a delayed
fuse extending from the first mentioned
er into the end chamber and isolating
surrounding the delayed action fuse to
isolate said delayed action fuse from the inflammable material whereby the fuse material is adapted to ignite the delayed action fuse and the latter to cause explosion of the explosive material.

2,318,995
VEHICLE WASHING APPARATUS
Louis D. Holmes, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois
Application February 6, 1941, Serial No. 377,651
6 Claims. (Cl. 15—53)



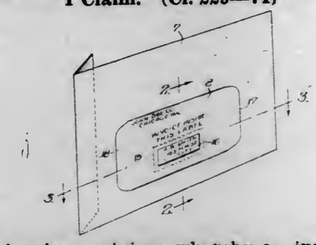
1. In washing-apparatus for vehicles, the combination of a supporting-structure, a vertically extending motor-driven rotary brush adapted to engage the side of a vehicle, brush-supporting means pivotally supported from the structure to swing horizontally from a normally centralized position and adapted to be deflected in opposite directions by the vehicle, and means, comprising weights, for normally and yieldingly holding the supporting-means and brush in their centralized position and pressing the brush against the vehicle for washing when deflected in either of said opposite directions by the movement of the vehicle past and against the brush, said weights being adapted to automatically retract the brush to normal position when released by the vehicle.

2,318,996
VEHICLE WASHING APPARATUS
Louis D. Holmes, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois
Application February 6, 1941, Serial No. 377,652
2 Claims. (Cl. 15—53)



1. In washing-apparatus for vehicles, the combination of a supporting structure, a vertically extending motor-driven rotary brush adapted to engage the side of the vehicle, a pair of brush-supporting arms above and below the brush, respectively, a shaft between said arms pivotally supported by the structure, said brush and arms being mounted to swing horizontally and adapted to be deflected in opposite directions from a normally centralized position by the vehicle, a device comprising a pair of coil-springs around the shaft for normally and yieldingly holding the arms and brush in their centralized position and pressing the brush against the vehicle for washing when deflected in either of said opposite directions by the movement of the vehicle past and against the brush, each spring having one of its ends connected to the shaft and its other end to the supporting structure, and devices rotatively adjustable on the shaft to which the ends of the springs are respectively connected and adapted for individual adjustment of the torsion of the springs.

2,318,997
INVOICE CONTAINER
Alfred J. Hopkins, Chicago, Ill., assignor to Gaw-O'Hara Envelope Co., Chicago, Ill., a corporation of Illinois
Application February 26, 1941, Serial No. 380,597
1 Claim. (Cl. 229—74)

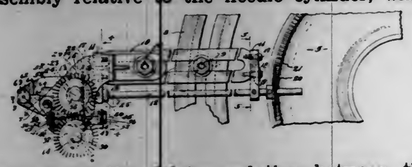


An invoice container whereby an invoice may be attached to an envelope or the like containing the product invoiced, which comprises a sheet of fibrous material folded into tubular form and flattened to provide a panel-like front wall, and a back wall comprising overlapping flaps secured together, the opposite ends of said flat tubular container being open for the insertion of an invoice thereinto from either end, said front wall being provided at the ends thereof with coextensive longitudinal projecting extensions, the rear faces of said extensions being gummed, whereby said extensions may be secured flatly against the surface of an envelope or the like to thereby attach the container thereto and simultaneously seal the same against displacement of the invoice therefrom.

2,318,998
FURNISHING WHEEL ASSEMBLY AND DRIVE THEREFOR
Willis A. Ingalls, Syracuse, N. Y., assignor to Tompkins Bros. Co., Syracuse, N. Y., a corporation of New York
Application February 26, 1942, Serial No. 432,510
13 Claims. (Cl. 66—132)

1. In a knitting machine having a rotary needle cylinder and drive means therefor, a furnishing wheel assembly including a pair of rotatable wheels mounted in substantially spaced relation to the needle cylinder and adapted to receive a thread therebetween to be engaged and advanced thereby, means for driving at least one of the furnishing wheels from the drive means for the needle cylinder, and means for both radially and

circumferentially adjusting the furnishing wheel assembly relative to the needle cylinder, while

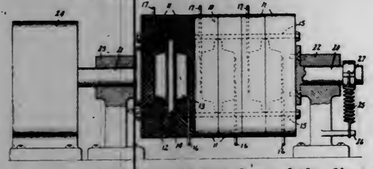


maintaining the driving relation between the needle cylinder drive means and the furnishing wheels aforesaid.

2,318,999
CONDITIONING OR TREATMENT OF WHEAT PRIOR TO MILLING
Charles Robert Jones and Arthur Goodyear Simpson, Saint Albans, England, assignors to The Research Association of British Flour Millers, London, England
No Drawing. Application December 19, 1939, Serial No. 309,962. In Great Britain December 23, 1938
6 Claims. (Cl. 83—27)

1. A process for the treatment of wheat prior to milling to cure a form of damage to the baking character of wheat due to the attack of "wheat bug" (Eurygaster and Aelia spp.), which process consists in heating it suddenly to a temperature of from about 160° F. to about 212° F. for a period of from about 5 seconds to not more than two minutes, and then cooling it.

2,319,000
ELECTRIC SWITCH
Benjamin W. Jones, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 10, 1941, Serial No. 410,237
4 Claims. (Cl. 200—92)



1. An automatic circuit breaker of the line contactor type providing undervoltage protection for a multiple conductor line comprising a plurality of tiltable fluid contact interrupting units, each of said interrupting units having terminals for connecting said unit in series circuit relation with one of said conductors, an operating shaft providing means for rotatably mounting all of said interrupting units for simultaneous movement between open and closed circuit positions, fixed stop means for limiting the rotation of said units thereby to determine said open and closed circuit positions, spring means engaging said operating shaft for biasing said units to said open circuit position, a slow speed electromagnetic torque motor having a speed of the order of 100 R. P. M. connected to said operating shaft in a substantially 1 to 1 driving relation therewith for rotating said unit to said closed circuit position in opposition to said spring means, said motor being so constructed and arranged that it offers substantially no frictional resistance to reverse rotation under the influence of said spring, said spring being operable automatically to reverse said motor and to return said interrupting units to said open circuit position upon deenergization of said motor or upon substantial diminution in the energization of said motor to a predetermined value, and means cooperating with said operating shaft for limiting the speed of said reverse rotation under the influence of said spring, said speeds of rotation of said interrupting units in the circuit closing direction by said motor and in the circuit opening direction by said spring being sufficiently low to avoid detrimental splashing of the fluid in said interrupting units and sufficiently high to avoid damaging arcing in said fluid interrupting units.

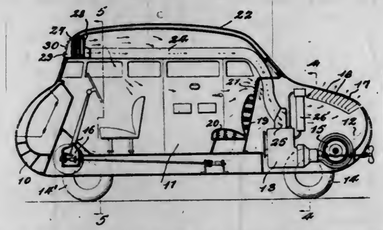
2,319,001
REFRIGERATOR CABINET
Robert A. King, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 7, 1940, Serial No. 360,117
4 Claims. (Cl. 220—9)



1. In a refrigerator cabinet of the type having walls including inner and outer shells with opposed substantially aligned flanges, the edges of said flanges being maintained in spaced-apart relationship, and a relatively rigid breaker strip of thermally resistant material closing the space between said flanges, means extending substantially the full length of each longitudinal edge of said breaker strip for holding said breaker strip in place, said means comprising a relatively resilient retaining strip generally S-shaped in cross section, and having first and second longitudinally extending pockets on opposite sides of a central portion for receiving the edge of one of said flanges and an edge of said breaker strip, respectively, in overlapping relationship, the free edge of said first pocket being directed toward said central portion, the free edge of said second pocket being displaced inwardly toward said flange, then outwardly past the edge of said breaker strip to form a longitudinally extending beadlike portion, and then substantially parallel to said central portion so that said retaining strip engages the other side of said flange at the free edge thereof and at the beadlike portion and engages the inner side of said flange at the free edge of said first pocket, said first pocket being of a length such that the material adjacent the free edge thereof engages the inner side of said flange intermediate the points of engagement of the central portion of said retaining strip and said flange, whereby said flange is engaged along three spaced apart lines of contact, the resiliency of said retaining strip serving to cause said retaining strip to grip firmly said flange and breaker strip, respectively, the gripping action between said central portion and said flange and said breaker strip, respectively, being the only means for maintaining said breaker strip, said retaining strip, and said flange in assembled relation.

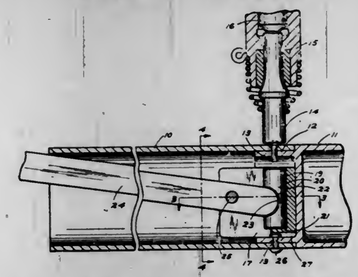
2,319,002
MOTOR VEHICLE BODY
Fred W. Kramer, New Orleans, La.
Application December 22, 1941, Serial No. 424,038
4 Claims. (Cl. 180—54)

1. In a motor vehicle or the like, a body having an opening at the front thereof, and having ducts on the sides thereof open to said opening of the body, a compartment in the rear of the body, a power unit in the compartment for propelling the vehicle, suction means operatively connected with



the power unit, said ducts being in communication with the suction means, shutter means between the open front and the interior of the body, and a door for the compartment, said door having louvers for escape of air drawn into the compartment.

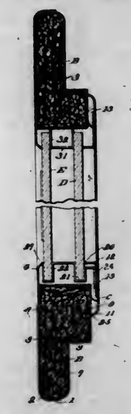
2,319,003
BUCKING BAR
Earl B. Lear, Garfield Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application September 26, 1941, Serial No. 412,483
4 Claims. (Cl. 78—53.5)



1. A device for holding rivets while riveting comprising, a block, a plunger slidable in said block for engagement with a rivet, a lever pivoted intermediate its ends to said block, and a recess formed intermediate the ends of said plunger adapted to pivotally receive one end of said lever, whereby the pivotal movement of said lever effects the slidable movement of said plunger into engagement with a rivet being set.

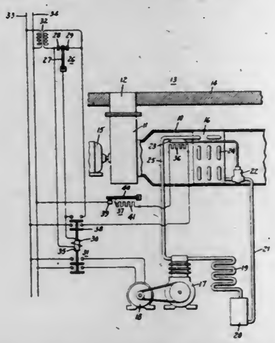
2,319,004
DOOR
William Lotter, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Application June 10, 1941, Serial No. 397,464
9 Claims. (Cl. 20—36)

1. An improved construction comprising, a door of substantial thickness having an opening therethrough, the opening at the front of the door being of smaller dimensions than at the rear to provide at the door front a shoulder throughout the perimeter of the opening, a panel removably secured to the rear side of the door and provided with an opening in registry with the door opening, a pair of transparent plates carried by said panel and supported in spaced parallel relationship thereon, said plates being disposed within said door opening with one of said plates sealing the opening of said panel and the other of said plates engaging said



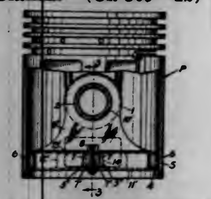
shoulder and thereby sealing said door opening at its front, and said plates accompanying said panel when said panel is removed from said door and being freely removable from said panel.

2,319,005
REFRIGERATING SYSTEM
Walter O. Lum, West Orange, N. J., assignor to General Electric Company, a corporation of New York
Application September 18, 1941, Serial No. 411,275
5 Claims. (Cl. 62—8)



1. A refrigerating system including an evaporator, an expansion valve for controlling the admission of refrigerant to said evaporator, means including a temperature responsive element secured in heat exchange relation with said evaporator for actuating said valve normally to admit less than the amount of refrigerant required by said evaporator, and means for applying heat periodically to said element to cause said valve to admit to said evaporator an amount of refrigerant greater than required by said evaporator whereby said valve admits to said evaporator amounts of refrigerant alternately greater than and less than the amount required by said evaporator, the degrees of opening of said valve when admitting said greater and lesser amounts of refrigerant, respectively, being selected so that the average amount of refrigerant admitted is the amount required by said evaporator.

2,319,006
PISTON SKIRT EXPANDER
Charles A. Marien and Melvin W. Marien, St. Louis, Mo., assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application November 19, 1941, Serial No. 419,705
6 Claims. (Cl. 309—12)



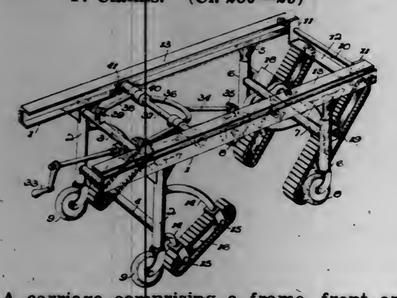
1. A piston skirt expander comprising an expanding element having side members and piston skirt engaging members, a supporting element secured to each of said side members, each of said supporting elements having laterally extending abutments, and an auxiliary spring in cooperative relation with the expanding element to augment the tension thereof.

2,319,007
ROTARY CONVEYER
Edmund McCarthy, Brooklyn, N. Y.
Application June 29, 1940, Serial No. 343,072
2 Claims. (Cl. 198—215)



1. In a conveyer comprising a tubular casing and means for rotating said casing about its longitudinal axis, a plurality of imperforate flat conveyer elements disposed in said casing and alternately arranged at opposite sides of a first plane through the longitudinal axis thereof with the inner edges of said elements disposed approximately in said first plane and their body portions extending to the inner surface of the casing entirely at one side of the first plane, said elements being inclined in the direction of conveyance with their inner edges disposed at an acute angle with respect to a second plane through the axis of the casing at right angles to said first plane, and the plane of the leading face of said elements being disposed at an acute angle with respect to said first plane.

2,319,008
CARRIAGE TRUCK
Charles V. McCormack, Chicago, Ill.
Application May 8, 1942, Serial No. 442,258
17 Claims. (Cl. 280—29)

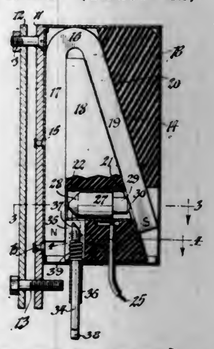


1. A carriage comprising a frame, front and rear wheels mounted on the frame including two of such wheels pivotally mounted as a retractable unit on the frame, all of the wheels normally presenting tread portions in a single plane for supporting the carriage on a level surface, an endless track device carried by the frame and disposed in a plane making an angle with the first named plane, and means for pivotally swinging said two retractable wheels from said first named plane whereby the carriage may be supported by said endless track device on an inclined surface while said two wheels are retracted therefrom.

2,319,009
SHAPED ARTICLES MADE FROM VEGETABLE SEED PROTEINS AND PROCESS OF MAKING SAME
Andrew McLean, West Kilbride, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 3, 1940, Serial No. 338,625. In Great Britain June 19, 1939
13 Claims. (Cl. 8—115.5)

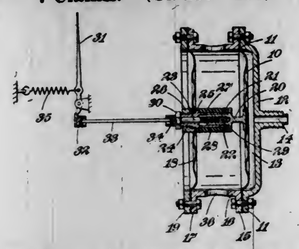
1. A method of treating shaped articles of coagulated protein to render them stable to discoloration and swelling in acid dye baths, which comprises treating such an article in a bath which comprises a concentrated aqueous solution of a salt of a hydrohalic acid, said salt being the major constituent of the bath, the bath containing a compound of the class which consists of formaldehyde and substances which yield formaldehyde under the conditions of the treatment, and containing a salt of a reducing sulphur acid in which the atomic proportion, reckoned on the anhydrous salt, of oxygen, if present, to sulphur does not exceed 2:1, and an acid, which does not oxidise the salt of the sulphur acid, and is substantially completely ionised in dilute aqueous solution, the acid being present in amount approximately chemically equivalent to the salt of the reducing sulfur acid.

2,319,010
COLLISION ALARM
John K. McLeod, Buffalo, N. Y.
Application October 25, 1941, Serial No. 416,549
7 Claims. (Cl. 200—52)



1. An electric switch comprising a magnet having two poles, a free floating armature movable between said poles and not attached to any stationary part and adapted to alternately engage its opposite ends respectively with said poles, and electric switch contacts which are adapted to form part of an electric circuit and which are engaged and disengaged as said armature moves between said pole said armature being constructed and mounted to cause the same to move from one of said poles to the other by its momentum when subjected to a jarring action.

2,319,011
RESILIENT DIAPHRAGM PRESSURE OPERATED DEVICE
Frederick William Meredith, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England, a British company
Application September 17, 1941, Serial No. 411,257
In Great Britain August 20, 1940
7 Claims. (Cl. 137—156)



1. A fluid pressure operated device comprising a resilient diaphragm acted upon by fluid pressure, and resilient means for applying an initial stress to the diaphragm to deflect the diaphragm from its unstrained position without swamping its resilient characteristics, said resilient means having a spring rate not in excess of that of said diaphragm, the resilient means and the diaphragm being connected by adjustable means for selecting the working range of the diaphragm.

2,319,012
DIMETHYL-CYCLOPENTANO - POLYHYDROPHENANTHRENE COMPOUNDS AND PROCESS OF MAKING SAME
Karl Miescher, Riehen, and Albert Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey
No Drawing. Application December 20, 1940, Serial No. 371,058. In Switzerland December 19, 1939
3 Claims. (Cl. 260—397.3)

1. The dimethyl cyclopentanopolyhydrophenanthrene compounds containing in the 17-position an oxo-group and in the rings A and B only a carbon double bond.

2,319,013
DIMETHYL-CYCLOPENTANO - POLYHYDROPHENANTHRENE COMPOUNDS AND PROCESS OF MAKING SAME
Karl Miescher, Riehen, and Albert Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey
No Drawing. Original application December 20, 1940, Serial No. 371,058. Divided and this application July 31, 1942, Serial No. 453,098. In Switzerland December 19, 1939
5 Claims. (Cl. 260—397.3)

1. The dimethyl-cyclopentano-polyhydrophenanthrene compounds containing in 17-position an oxo group and in the rings A and B only a member of the group consisting of a tertiary hydroxyl group and a group which upon hydrolysis is converted into a tertiary hydroxyl group.

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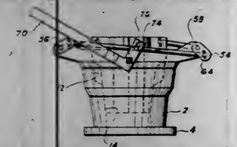
Lloyd G. Spet
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Cleveland, O
Application Fe
4



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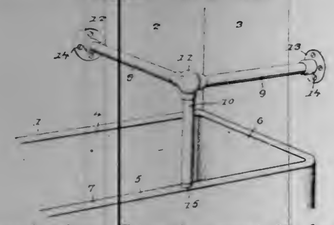
SPIDER AND
James S. T
Application April
3 Claims
1. In a well tube gr

tion of a body having a tapered opening providing a slip-engaging seat, slips extending into the body, seated on the tapered seat and adapted to grip a well tube, parallel crank shafts journaled in the body, operatively connected to the slips, and each provided at one end with a rigidly con-



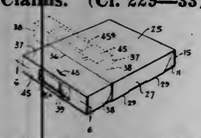
nected crank, one of the cranks being extended upwardly and the other downwardly, a rod having its ends pivotally connected to the cranks for use in simultaneously moving the slips, a handle pivotally connected to the body, and a slot and pin connection joining the handle to the medial portion of said rod.

2,319,017
BATHROOM FIXTURE
George Tillman, Kingsville, Tex.
Application December 18, 1941, Serial No. 423,528
1 Claim. (Cl. 4—185)



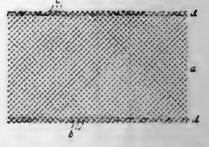
A hand grip and towel support for bath tubs comprising a vertically disposed member adapted to be supported at its lower end upon the rim of the tub adjacent to one end of the latter, and a pair of horizontally disposed members each secured at one end to the upper end of the first-named member and extending therefrom at an angle to each other and provided with means for attachment at their free ends to angularly related walls of a room in which the tub is contained.

2,319,018
SELF-LOCKING BOX
Martin Ullman, New York, N. Y., assignor to The Munising Paper Company, Chicago, Ill., a corporation of Michigan
Application July 12, 1940, Serial No. 345,201
4 Claims. (Cl. 229—33)



1. In combination in a one piece box having a self-locking enclosed portion, a lid hinged thereto and a hinged front wall to permit access to the enclosed portion, a bottom, side walls, a hinged front wall and a stationary rear wall, a permanent cover section comprising an extension of said rear wall folded on a scored line joining opposite top rear corners of said side walls and including side flaps extending adjacent said side walls and locking tabs extending from said flaps, slots in said side walls adjacent said bottom, slits in said side walls intermediate the top and bottom thereof, said tabs extending through said slots and folded upwardly adjacent said side walls into engagement with said slits in said side walls to secure said tabs in the upwardly folded position to lock said bottom, side walls and end wall in folded relationship with said permanent cover section, and a movable cover section hinged to said permanent cover section to permit free access to the enclosure formed by said permanent cover section and having side flaps and a front flap adapted to extend adjacent said side walls and said front wall when in closing position upon said box.

2,319,019
NONFRAYING FABRIC STRIP
Ruth Van Court, New York, N. Y.
Application August 1, 1941, Serial No. 404,968
1 Claim. (Cl. 28—80)



A fabric strip cut on the bias, the lengthwise edges of which are provided with a thin and narrow marginal application of sterile, rubberized compound.

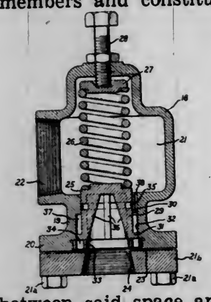
2,319,020
PROCESS OF IMPERMEABILIZING, TIGHTENING, OR CONSOLIDATING GROUNDS AND OTHER EARTHY AND STONY MASSES AND STRUCTURES
Gerrit Hendrik van Leeuwen, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Original application September 18, 1936, Serial No. 101,426. Divided and this application February 23, 1940, Serial No. 320,428. In the Netherlands October 7, 1935
3 Claims. (Cl. 61—36)

1. A process for improving the cohesion of and for impermeabilizing and consolidating, grounds and other earthy and stony masses and structures, which comprises simultaneously but separately injecting into the masses a solution of colophony in solvent and an aqueous solution of an aluminum compound adapted to convert the acids contained in the colophony into aluminum salts which swell by absorbing the solvent in which the colophony is introduced.

2,319,021
RELIEF VALVE
Francis H. Van Nest, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application July 22, 1941, Serial No. 403,469
3 Claims. (Cl. 251—146)

1. Relief valve comprising a casing member forming an inlet chamber and an outlet chamber and having a portion defining a differential cylinder between the chambers, a differential piston member slidably disposed within the differential cylinder and having a port extending radially through a wall thereof to establish communication between the chambers in the opening position of the piston member, said piston member and cylinder forming an annular space between them, and a bore separate from the main flow of fluid through the casing and of a cross

section smaller than that of said port formed in one of the members and constituting the sole

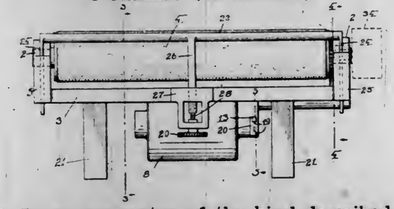


connection between said space and one of the chambers to produce a dashpot action between the members during operation.

2,319,022
PROCESS FOR MAKING AN OIL MODIFIED ALKYD RESIN
William A. Waldie, Dayton, Ohio, assignor to New Wrinkle, Inc., Dayton, Ohio, a corporation of Delaware
No Drawing. Application August 12, 1940, Serial No. 352,273
5 Claims. (Cl. 260—22)

1. A process for making an oil modified alkyd resin, including the steps of simultaneously reacting castor oil, glycerin and sodium acetate at a temperature of substantially 525° F., cooling the mixture to about 300° F., adding polycarboxylic acids, reheating to about 450° F. and holding the mixture at 450° F. for about 30 minutes.

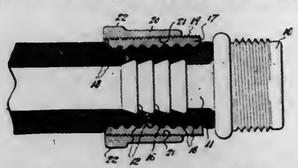
2,319,023
APPARATUS FOR REMOVING WALLPAPER OR OTHER SURFACE ORNAMENTATION
William O. Walker, Whiting, Ind.
Application January 1, 1942, Serial No. 425,366
8 Claims. (Cl. 51—180)



1. In an apparatus of the kind described, the combination of a frame comprising parallel end walls and a rear wall between said end walls, an abrasive roller rotatably mounted between said end walls, a pair of handles spacedly arranged on said rear wall, a motor mounted on said rear wall between said handles, means connecting said motor with said roller for rotation of said roller by said motor, a fixed and a movable guiding edge axially parallel to said roller with the roller located between said fixed and movable guiding edge.

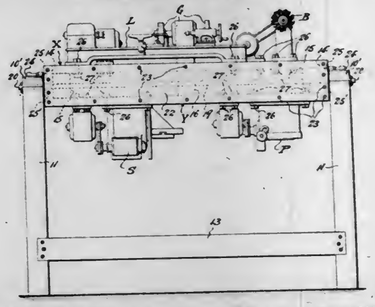
2,319,024
HOSE COUPLING
Herman H. Wehringer, Montclair, N. J.
Application June 26, 1941, Serial No. 399,764
1 Claim. (Cl. 285—84)

In a hose coupling including a coupling element having an anchor spile adapted to be inserted with expanding effect into an end portion of a resilient hose body, a cylindrical binding sleeve of soft ductile metal, such as lead, having an internally coarsely threaded bore, the threads of which have rounded non-scoring peripheries, the threaded bore of said binding sleeve substantially corresponding in diameter to the normal diameter of said hose body, said binding sleeve being adapted to be externally engaged over said hose body subject to advanced movement over and around the anchor spile backed and expanded



wall section of said hose body, said binding sleeve being also externally screw-threaded by relatively fine threads, and a compression collar of rigid non-ductile characteristics, said collar having a tapered bore, said bore being internally screw-threaded from end to end, whereby said collar may be screwed onto said binding sleeve with compressive contracting effect upon the latter so as to constrictively compress said hose wall section into conforming interlocked relation to said anchor spile.

2,319,025
WORKBENCH FOR POWER TOOLS
Herman H. Wehringer, Montclair, N. J.
Application March 24, 1942, Serial No. 435,985
3 Claims. (Cl. 248—2)



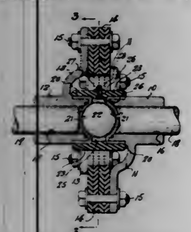
1. A work bench for mounting a plurality of selectively usable power or other tools comprising a pair of end frames, a rotatably reversible rectangular hollow top member extending between said end frames, said top member having endwise projecting journal portions journaled in said end frames, said top member having oppositely presented outwardly facing and spaced apart flat plane floor portions upon each of which selected tools may be mounted and secured, said top member having detachable side members, removal of which gives access to the interior faces of said floor portions for the manipulation of means utilized to anchor tools to the latter, and releaseable means carried by said end frames and engageable with the ends of said top member for optionally securing the top member to upwardly present a selected floor portion thereof and the tool or tools mounted thereon, whereby to dispose the latter in position for use, while the tool or tools mounted on the opposite floor portion are suspended beneath the top member in out of service position.

2,319,026
FISHING LURE
Louis D. Adam, Ponca City, Okla., assignor to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio
Application August 22, 1940, Serial No. 353,677
8 Claims. (Cl. 43—42)



1. A fish lure comprising a hook, a generally elliptical shaped body, said body having a relatively wide upturned leading edge to which line attachment means are adapted to be secured and a relatively narrow upturned tail through which said hook projects, said hook being secured to the body adjacent to and rearwardly of said leading edge, a weight disposed adjacent the leading edge of the body and spaced therefrom, said weight being positioned forwardly of the center of the lure body and generally midway transversely thereof.

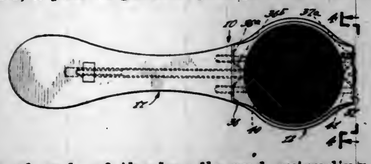
2,319,027
UNIVERSAL JOINT
Evender S. Aker, Belleville, N. J.
Application January 22, 1941, Serial No. 375,433
2 Claims. (Cl. 64—13)



1. A universal joint structure for coupling shafts end to end subject to relative angular movements comprising, opposed spider members having hubs to which the shafts are respectively rigidly connected, a flexible annular joint body secured to and between the arms of said spider members, opposed inner end portions of said hubs having bearing sockets, a ball bearing mounted between and in engagement with said sockets whereby to establish a fixed center about which relative angular movements of said shafts take place, a soft rubber cylindrical tubular housing sleeve of substantial wall thickness having its ends telescopically engaged respectively over the inner end portions of said hubs to provide a closed chamber intermediate said hubs for holding and suppling a lubricant to and around the ball and socket elements, and lubricant admission means extending through the wall of said housing sleeve said admission means having an externally propecting conical seating means adapted to receive sealing engagement of a grease gun nozzle.

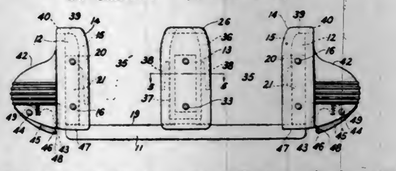
2,319,028
SHOE POLISH BRUSH
Joseph Arena, Brooklyn, N. Y.
Application May 20, 1941, Serial No. 394,339
3 Claims. (Cl. 15—176)

1. A brush comprising a handle and a head. said handle being formed with a longitudinal opening, said head being formed with a through opening registering with the opening in the handle, said handle being formed with an opening communicating with the longitudinal opening thereof, a nut within said second opening in the handle, a pair of parallel prongs attached to the



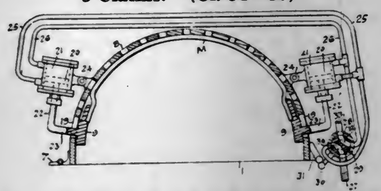
forward ends of the handle and extending forwardly therefrom, said head having sockets at opposite ends thereof adapted to receive said prongs, and a screw extending through the opening in the head and through the longitudinal opening in the handle, and screwed to the nut in the handle.

2,319,029
SLIDE CARRIER
David L. Babcock and Theodore G. Clement, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 20, 1940, Serial No. 357,580
10 Claims. (Cl. 88—26)



1. A slide carrier for use with a projector and comprising, in combination, a body portion adapted to be mounted on said projector and formed to receive an image area, finger gripping members secured to the opposite ends of said body portion for moving the latter on said projector to move said area into and out of projecting position, a lug on each of said members adapted to engage said projector for limiting the sliding movement of said carrier, and means on said carrier for movably mounting said lugs so that the latter may be moved to a retracted position to permit the mounting or removal of said carrier.

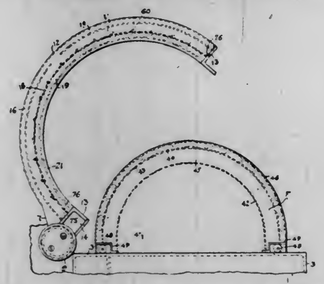
2,319,030
MATRIX DRYING AND FORMING MACHINE
Craig C. Baker, Los Angeles, Calif.
Application October 21, 1939, Serial No. 300,681
8 Claims. (Cl. 34—87)



1. In a machine of the class described, having a face-heater including a curved wall for supporting a matrix to be dried and provided with heating elements and a flexible resilient cover secured to the face heater to overlie the same, together

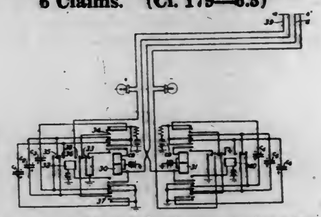
with a curved perforated matrix-forming plate hingedly mounted on said face heater to conform to the shape of said face-heater when closed; the combination of a perforated matrix-forming plate having movably mounted thereon bolster form retaining bars, mechanical means for increasing the distance between said bolster form retaining bars to facilitate the insertion of said matrices when the said perforated matrix-forming plate is in its open position and means to move said bolster form retaining bars to contact and follow the said matrix as it shrinks due to the evacuation of moisture by heat when said matrix-forming plate is in its closed position, said means comprising cylinders attached to said perforated matrix-forming plate, double-acting fluid-actuated pistons and rods in said cylinders and connected to said bolster form retaining bars; the movement and reversal of said pistons being controlled by a four-way valve actuated by said perforated matrix-forming plate.

2,319,031
MATRIX DRYING AND FORMING MACHINE
Craig C. Baker, Los Angeles, Calif.
Application November 20, 1939, Serial No. 305,249
4 Claims. (Cl. 34—92)



1. In a stereotype matrix former and dryer, the combination of a hollow frame, a convex curved face heater so mounted on said frame as to float thereon and provided with a porous resilient covering having mounted thereunder electric heating elements; a matrix-holding vacuum chamber having end sealing plates and an inner perforated vacuum plate curved to conform to said face-heater for receiving a matrix to be dried; a suction manifold on said vacuum chamber hingedly mounted on said frame; electric heating elements mounted within said chamber, a reflector plate having vents therethrough and adjacent to said heating elements; a cover plate for closing the matrix-holding chamber; a baffle plate positioned between said reflector plate and said cover plate to direct and control the flow of air and moisture over the surface of the matrix to assist in the rapid and uniform drying of said matrix; means securing said cover plate, said baffle plate, said reflector plate and said inner perforated vacuum plate to said manifold; means for maintaining the form of a bolster margin on each end of said matrix, said means including a movable bolster bar located at each end of the matrix and provided with means whereby the said bolster bars contact and follow the matrix as it shrinks; means for withdrawing air and moisture from said matrix-holding chamber through said manifold and said hollow frame; means for insuring a continual circulation and instant removal of water vapor and steam from the matrix, said means consisting of ports adapted to admit atmospheric air into the vacuum chamber.

2,319,032
PREPAYMENT COIN BOX SYSTEM
Henry M. Bascom, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 9, 1940, Serial No. 328,611
6 Claims. (Cl. 179—6.3)

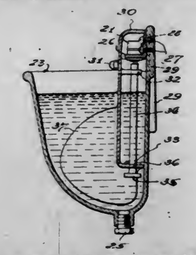


5. In a paystation telephone exchange system, employing electrically actuated coin disposal devices at the stations, means for actuating said devices comprising a plurality of condensers each of which is normally maintained charged to a predetermined potential less than the voltage required to operate said devices, and switching means for selectively connecting said charged condensers in series-aiding relation to a desired one of said devices.

2,319,033
GASKET MATERIAL
Wilburn F. Bernstein, Brookfield, Thomas F. Mika and Stephen M. Lillis, Chicago, and Otha L. Colwell, Cicero, Ill., assignors to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application January 16, 1940, Serial No. 314,134
3 Claims. (Cl. 106—243)

1. A sheet of gasket material adapted to flow under heat and pressure, comprising asbestos board and a binder, said binder being a reaction product of and resulting from a mixing of the asbestos and fatty acids, the fatty acids being those present in fats and glyceride type of oils, the proportion of binder to asbestos board being of the order of approximately 18 to 22 parts by weight of binder to 100 parts of asbestos board.

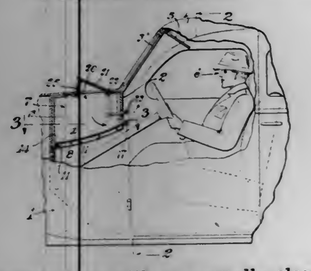
2,319,034
SANITARY APPARATUS
Robert F. Bracke, Arlington Heights, Ill., assignor to R. F. Bracke & Company, Chicago, Ill., a partnership composed of Robert F. Bracke and Robert Anderson
Application July 17, 1941, Serial No. 402,745
11 Claims. (Cl. 4—222)



1. In apparatus of the class described for controlling the opening of a door of a toilet compartment, the combination of a disinfectant basin mounted upon an inside stationary wall of such compartment, a latch for holding the

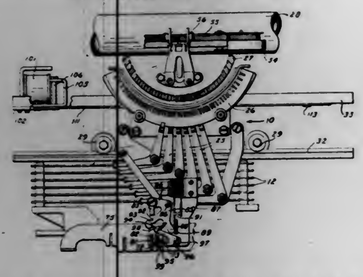
door of such compartment in closed position, a solenoid for withdrawing said latch, a spring for opening said door, a pair of switches connected in series and controlling the supply of electrical energy to said solenoid, and operating means for said switches located adjacent the bottom of said basin and well beneath the normal level of liquid therein, said operating means adapted to be engaged by a person's hand only when immersed in said liquid.

2,319,035
VENTILATING APPARATUS AND METHOD
James L. Breese, Sante Fe, N. Mex.
Application February 14, 1940, Serial No. 318,870
6 Claims. (Cl. 98—2)



1. In combination with a normally closed vehicle having a cowl and an instrument panel, a plenum chamber within the cowl and located forwardly of the instrument panel, a flexible wall for said plenum chamber located forwardly of and beneath the instrument panel, the rear edge of the plenum chamber being located adjacent the bottom of the instrument panel, and a tension member including spring means extending from side to side of the vehicle, for supporting said rear edge of the plenum chamber.

2,319,036
TWO-COLOR RIBBON MECHANISM
Charles W. Burcky, Park Ridge, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application January 2, 1941, Serial No. 372,755
19 Claims. (Cl. 178—27)



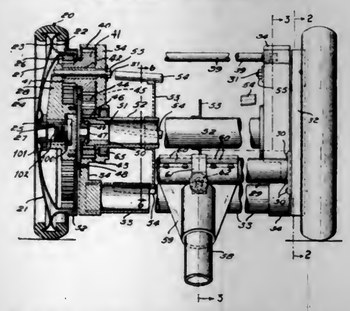
19. In a telegraph apparatus, selector mechanism responsive to received signaling conditions, a ribbon operating mechanism, a device to alter the operation of the ribbon operating mechanism, a pair of pivoted instrumentalities having means effective through said selector mechanism in response to certain predetermined signaling conditions to condition said device to set the ribbon operating mechanism for altered operation, and means responsive to other predetermined signaling conditions and effective through said instrumentalities to condition said device to effect the return of the ribbon mechanism to its original condition.

2,319,037
MODEL BALANCER
Biagis Castiglia, New York, N. Y., assignor to Wheel Aligning Necessities, Inc., New York, N. Y., a corporation of New York
Application January 15, 1941, Serial No. 374,492
15 Claims. (Cl. 35—19)



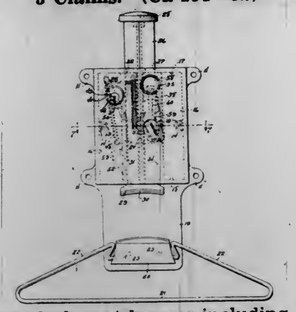
1. In a balance demonstrator, a handle for holding the demonstrator in the hand, a wheel revolvably mounted thereon, a plurality of weights mounted in said wheel, one of said weights being movable, an arm for said movable weight swingable on and about said spindle toward and away from the other of said weights to change the balance of said wheel.

2,319,038
MOWER
Richard D. Clemson, Middletown, N. Y., assignor to Clemson Bros., Inc., Middletown, N. Y., a corporation of New York
Application February 25, 1939, Serial No. 258,362
13 Claims. (Cl. 56—249)



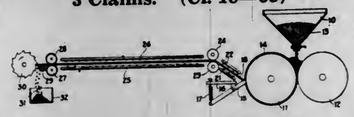
1. A lawn mower comprising, a cutter assembly including a rotary reel having cutter blades and a ledger blade having a base portion and an edge in shearing relationship with the cutting blades of the reel, a handle, wheels, means supported from the wheels for establishing an articulated connection between said cutter assembly and said handle along an axis at a right angle to the long axis of the handle, the ledger blade portion of said cutter assembly being movable about the point of articulation in a direction toward the long axis of said handle and means for limiting the movement of the ledger blade portion of said assembly away from the long axis of said handle, the base of said ledger blade lying substantially below the edge thereof and at all times constituting the lowest extremity of said assembly, whereby the ledger blade will be normally located in cutting position but upon the striking of an object by the base portion thereof will swing upwardly toward the handle to prevent damage.

2,319,039
COIN LOCK COAT HANGER
Edwin J. Comfort, Minneapolis, Minn.
Application June 13, 1941, Serial No. 397,989
3 Claims. (Cl. 194—92)



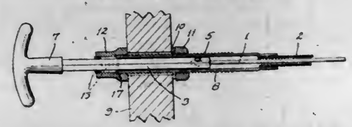
1. A coin lock coat hanger including, a casing, a fixed jaw on the casing, a vertically movable plunger carried by the casing, a jaw on the plunger coacting with the fixed jaw, a lock carried by the casing, a key for the lock forming a garment check, means carried by the lock for preventing removal of the key from the lock until the plunger is moved to operative position, there being a coin receiving opening in the plunger, and means carried by the casing for preventing movement of the plunger to operative position until a coin is inserted in the coin receiving opening.

2,319,040
METHOD OF FORMING PARTICLES OF THERMOPLASTIC MATERIAL
Frederick R. Conklin, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 28, 1939, Serial No. 311,382
3 Claims. (Cl. 18—55)



2. The continuous process of making particles of organic thermoplastic compositions adapted for use in injection and extrusion molding operations without producing fines which comprises adding a mixture comprising a cellulose organic acid derivative and a plasticizing amount of a compatible plasticizer to relatively closely spaced heated milling rolls, colloidizing the mixture by working it between the rolls in such a manner as to move the colloidized mixture progressively along and around one of the rolls in the form of a continuous coherent blanket substantially coextensive with the roll, continuously removing a strip of the progressively moving coherent colloidized composition from said roll at a point remote from the point at which the material is added, the rate of addition of the material and its removal in the strip being substantially equal whereby said roll is continuously covered with the coherent mixture, partially cooling the strip to an elevated temperature intermediate that of the rolls and room temperature and cutting the strip into small particles while at substantially said intermediate temperature.

2,319,041
CONTROL DEVICE
Oliver P. Crouse, Mansfield, Ohio
Application June 12, 1941, Serial No. 397,753
1 Claim. (Cl. 74—502)



In a control device adapted to be mounted in a panel, the combination of an externally threaded sleeve adapted to project through said panel, an internally threaded sleeve adapted to be threadingly engaged with said first named sleeve element and adapted to cooperate with means on the externally threaded sleeve to clamp said device to the panel, an externally threaded collet having tapered tongues associated therewith, a control rod adapted to be disposed longitudinally within said collet and said tubular sleeve elements, manually operable means adapted to be disposed at one end of said control device whereby upon rotative movement thereof said collet is adapted to be lockingly engaged with said sleeve elements and said control rod, said tongues being disposed in wedging relation with said first named sleeve element and control rod to restrain longitudinal movement of the control wire with respect to said sleeve elements.

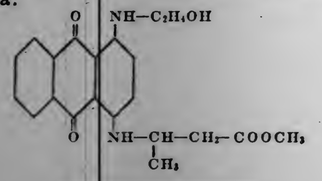
2,319,042
VULCANIZING RUNNING LENGTH OF COMPOSITE RUBBER STRIP AND APPARATUS THEREFOR
Ludolf H. De Wyk, Jr., Ansonia, Conn., assignor to The Sponge Rubber Products Company, Shelton, Conn., a corporation of Connecticut
Application October 18, 1940, Serial No. 361,662
21 Claims. (Cl. 18—6)



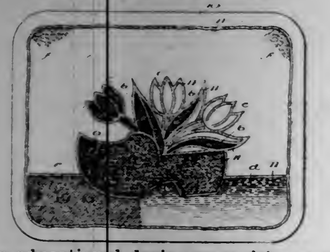
1. The process of converting sponge rubber compound and non-blowable unvulcanized rubber into uniformly vulcanized sponge rubber having at least a partial skin of solid rubber bonded thereto, which includes the steps of, simultaneously withdrawing said compound and plural webs of said unvulcanized rubber from separate sources of supply thereof, progressively sandwiching said compound between said webs, progressively placing one of said webs on the exposed bottom molding wall of an open traveling rigid mold section and placing said compound on said web, and placing the other web on said compound in a manner to cause said compound and webs to travel in unison with said mold, thereafter progressively closing said mold with a rigid closure to form a molding chamber of fixed cross-sectional shape and greater volumetric capacity than the combined volume of compound and webs placed therein and to enclose said compound and webs, and moving the mold and compound and webs through a zone of vulcanizing heat to expand the compound to fill the mold and force the webs respectively against said bottom wall of the traveling mold section and against said rigid closure thereby to vulcanize the compound and webs to bond the latter to the former as an inseparable skin in part conforming to said bottom wall and in part conforming to said rigid closure.

2,319,043
ANTHRAQUINONE COMPOUNDS AND CELLULOSE DERIVATIVES COLORED THEREWITH
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 28, 1940, Serial No. 321,336
1 Claim. (Cl. 260—376)

The anthraquinone compound having the formula:

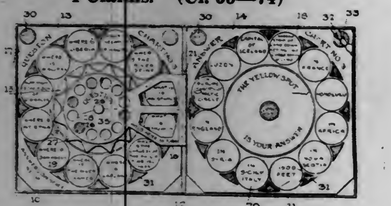


2,319,044
IMPROVED OUTLINE CHART OR PLACARD FOR PAINT SETS
Philip Di Lemme, New York, N. Y.
Application March 6, 1942, Serial No. 433,669
2 Claims. (Cl. 35—26)



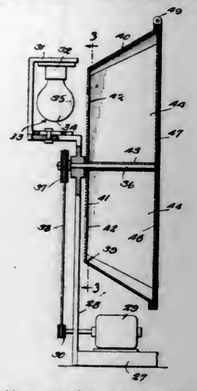
1. An educational device comprising a placard having a surface to which paint will adhere outlined with a pictorial subject of which certain component parts defined by said outline are adapted to be colored with a paint by the user, said outline being a coating material to which the paint will not adhere and which will repel the paint applied by the user.

2,319,045
QUIZ GAME
Philip Di Lemme, New York, N. Y.
Application April 18, 1942, Serial No. 439,609
4 Claims. (Cl. 35—74)



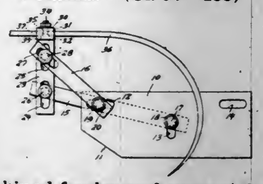
1. In a quiz game, the combination of a pair of question and answer charts each bearing a series of related question and answer indicia, a dial support hingedly mounted between the said charts for movement into superposition on either chart, an indicator common to both said question and answer charts movably mounted on said support, and question and answer indicator pointer elements fixed on said indicator and movable with the indicator in fixed relation to each other for cooperation with the question and answer charts, respectively.

2,319,046
DISPLAY DEVICE
Walter H. Druce, Pocatello, Idaho
Application July 29, 1941, Serial No. 404,552
5 Claims. (Cl. 88—18.8)



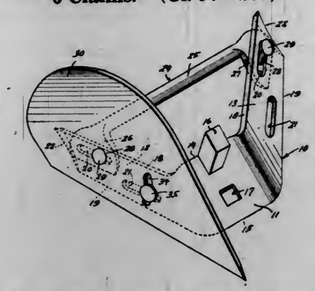
1. An exhibitor of the class described, embodying a hollow record carrier comprising a rim and a back, the back being provided with circumferentially spaced openings, substantially radial partitions in the carrier and extended outwardly to the rim, the partitions defining compartments to which the openings are individual, a record mounted on the front of the carrier and having progressively varying markings individual to the compartments and alined, respectively, with the openings, means for mounting the carrier for rotation, and a source of light external to the carrier and so located as to send its rays through the openings one at a time, when the carrier is rotated.

2,319,047
PLANT FENDER
James Richard Fell, Haleyville, Ala., assignor of fifty per cent to H. C. Hayes, Haleyville, Ala.
Application August 21, 1940, Serial No. 353,526
4 Claims. (Cl. 97—188)



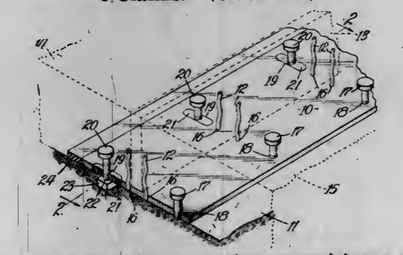
1. A combined fender and support for use with a ground working implement comprising a vertical support bracket, an elongated flat fender plate, a primary support arm, a secondary support arm, means adjustably connecting the forward ends of said support arms in vertical spaced relation to said support bracket and means movably connecting the rear ends of said support arms to said fender at longitudinally spaced points thereon, said adjustable connecting means providing for the raising or lowering of said fender relative to the support bracket and said movable connecting means permitting free up or down movement of the fender on said support arms as said fender meets with a ground obstruction, said support arms being so constructed and arranged as to constitute the sole supporting means for said fender.

2,319,048
ADJUSTABLE HEEL SWEEP OR SCRAPE
James Richard Fell, Haleyville, Ala., assignor of fifty per cent to H. C. Hayes, Haleyville, Ala.
Application August 21, 1940, Serial No. 353,527
6 Claims. (Cl. 97—205)



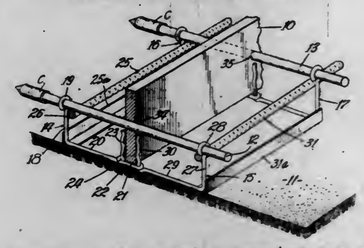
1. A heel sweep for a plow frame having a V-shaped frame formed as a one-piece casting and comprising a forward substantially rectangular flat bight portion and a pair of integral rearwardly diverging substantially flat side walls, said bight portion and each of said side walls lying in planes inclined downwardly and outwardly, upstanding non-circular lug means on said bight portion adapted to engage complemental means on said plow frame to center said heel sweep thereon and to prevent turning movements relative thereto, brace means extending between said side walls disposed adjacent the terminal ends thereof, an identical pair of elongated slots provided in each side wall extending lengthwise thereof, a blade element adapted to be adjustably mounted on each side wall, each blade element including a pair of bolt receiving openings adapted to register with the pair of slots in its associated side wall, bolt means extending through said openings and slots for clamping said blades to said side walls, one of said bolt means on each side wall further serving to connect an adjacent end of said brace thereto.

2,319,049
LOAD TRANSFER JOINT APPARATUS
Albert C. Fischer, Chicago, Ill.
Application February 20, 1940, Serial No. 319,902
9 Claims. (Cl. 94—18)



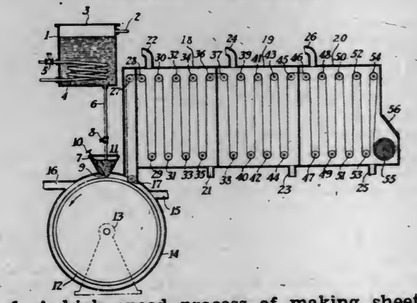
1. Load transfer apparatus comprising a joint foundation member, slab anchorage means projecting upwardly from a section adjacent to one edge of said member, cut-away sections adjacent to the opposite edge of said member, additional upwardly extending slab anchorage means disposed in said cut-away sections for movement transversely of said edges, and means for initially holding said additional anchorage means in predetermined relation with said cut-away sections and for excluding foreign material from said cut-away sections, comprising crushable means disposed between such additional anchorage means and said foundation member at said cut-away sections.

2,319,050
LOAD TRANSFER JOINT APPARATUS FOR PAVING AND THE LIKE
Albert C. Fischer, Chicago, and Harry A. Cumfer, Villa Park, Ill.
Application February 26, 1940, Serial No. 320,874
23 Claims. (Cl. 94—18)



1. Load transfer joint apparatus comprising opposed load bar supporting members, said members including base parts having portions extending toward one another, an upwardly projecting joint board abutting member upon an extending portion of one of said base parts, a vertical-axis opening in a section of said extending portion nearer to the other base part than said abutting member, and an additional joint board abutting member projecting upwardly from the other of said base portions through said opening in opposed spaced relation with the first abutting member, and said opening being oversize with respect to the section of said additional abutting member therein to accommodate relative movement of said load bar supporting members toward or away from one another.

2,319,051
HIGH SPEED METHOD OF MAKING CELLULOSE ORGANIC DERIVATIVE FILM AND SHEETING
Charles R. Fordyce and Walker F. Hunter, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 25, 1939, Serial No. 275,712
9 Claims. (Cl. 18—57)



1. A high speed process of making sheeting suitable for photographic film base which com-

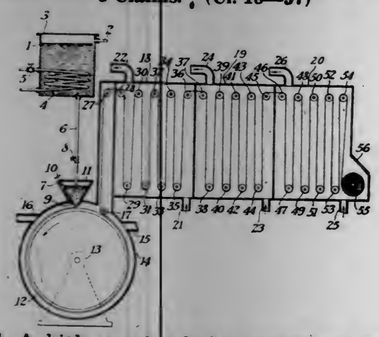
prises dissolving at a temperature above 50° C. a cellulose mixed organic acid ester selected from the group consisting of cellulose acetate propionates and cellulose acetate butyrates containing not less than about 18% propionyl and not less than about 13% butyryl, respectively, and containing not less than about 40% total acyl, said esters having the composition indicated by the respective shaded areas of Figs. 2 and 3 of the drawings, in a liquid which is a solvent for the said cellulose ester only at a temperature above 50° C. and in a weight of such liquid, greater than the weight of the cellulose ester dissolved, which will give a solution which at a temperature within the range of 10–50° C. will form a clear, transparent, self-supporting gel, said liquid being composed of a mixture of toluene and an aliphatic alcohol of 3–5 carbon atoms, casting the solution in the form of a film on a film-forming surface at a temperature of 10–50° C. from a supply thereof having a temperature above its gelation temperature, stripping the film from the film-forming surface while containing at least 50% solvent, and removing residual solvent from the film.

2,319,052

HIGH SPEED METHOD OF MAKING CELLULOSE ORGANIC DERIVATIVE FILM AND SHEETING

Charles R. Fordyce and Walker F. Hunter, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 10, 1938, Serial No. 245,020
5 Claims. (Cl. 18—57)



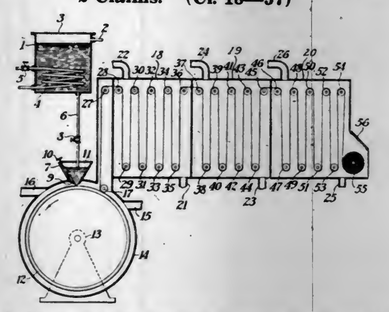
1. A high speed gelation process of making sheeting suitable for photographic film base which comprises dissolving at a temperature above 50° C. a cellulose organic acid ester selected from the group consisting of cellulose acetates of 39–42% acetyl, cellulose acetate propionates and cellulose acetate butyrates containing not over about 35% higher acyl and not less than about 39% total acyl, said cellulose esters having the composition indicated by the area I of Fig. 2 of the drawings, in a liquid which is a solvent for the said cellulose ester only at a temperature above 50° C. and in a weight of such liquid, greater than the weight of the cellulose ester dissolved, which will give a solution which at a temperature within the range of 10–50° C. will form a clear, transparent, self-supporting gel and which liquid is composed of a mixture of propylane chloride and a monohydric aliphatic alcohol of 2–5 carbon atoms, said solution being selected from the group of solutions corresponding to the shaded areas of Figs. 4 to 14, casting the solution from a supply thereof having a temperature above its gelation temperature in the form of a film at a temperature of 10–50° C. on a film-forming surface, stripping the film while containing at least 50% solvent and removing residual solvent from the film.

2,319,053

HIGH SPEED METHOD OF MAKING CELLULOSE ORGANIC DERIVATIVE FILM AND SHEETING

Charles R. Fordyce and Walker F. Hunter, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 10, 1938, Serial No. 245,021
2 Claims. (Cl. 18—57)



1. A high speed gelation process of making sheeting suitable for photographic film base which comprises dissolving at a temperature above 50° C. a cellulose mixed organic acid ester selected from the group consisting of cellulose acetate propionates and cellulose acetate butyrates containing not less than about 12% and not greater than about 39% higher acyl and containing not less than 45% total acyl, said esters having the composition indicated by the shaded area of Fig. 2 of the drawings, in a liquid which is a solvent for the said cellulose ester only at a temperature above 50° C. and in a weight of such liquid greater than the weight of the cellulose ester dissolved, which will give a solution which at a temperature within the range of 10–50° C. will form a clear, transparent, self-supporting gel and which liquid is composed of a mixture of trichloroethylene and ethylene chloride, casting the solution from a supply thereof having a temperature above its gelation temperature in the form of a film at a temperature of 10–50° C. on a film-forming surface, stripping the film from the film-forming surface while containing at least 50% solvent and removing residual solvent from the film.

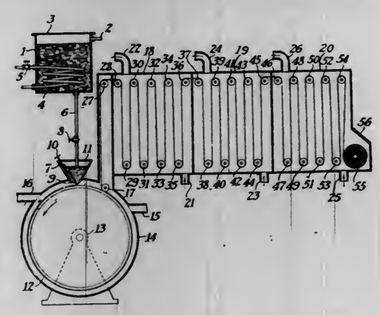
2,319,054

HIGH SPEED METHOD OF MAKING CELLULOSE ORGANIC DERIVATIVE FILM AND SHEETING

Charles R. Fordyce and Walker F. Hunter, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 10, 1938, Serial No. 245,022
2 Claims. (Cl. 18—57)

1. A high speed gelation process of making sheeting suitable for photographic film base which comprises dissolving at a temperature above 50° C. a cellulose mixed organic acid ester selected from the group consisting of cellulose acetate propionates and cellulose acetate butyrates containing not less than about 15% and not greater than about 40% higher acyl and containing not less than about 42% total acyl, said esters having the composition indicated by areas I and II of Fig. 2 of the drawings, in a liquid which is a solvent for the said cellulose ester only at a temperature above 50° C., and in a weight of such liquid greater than the weight of the cellulose ester dissolved which will give a solution which at a temperature within the range of 10–50° C., will form a clear, transparent, self-supporting gel and which liquid is composed of a mixture of trichloroethylene and a monohydric aliphatic alcohol of not more than five carbon atoms, said liquid being selected from the group consisting of mixtures composed, respectively, of 90–70% trichloroethylene and 10–30% methyl alcohol, 90–70 trichloroethylene and 10–30% ethyl alcohol, 80–40% trichloroethylene and 20–60% n-



propyl alcohol, 80–40% trichloroethylene and 20–60% iso-propyl alcohol, 80–40% trichloroethylene and 20–60% tertiary butyl alcohol, 80–40% trichloroethylene and 20–60% tertiary amyl alcohol, and 70–40% trichloroethylene and 30–60% n-butyl alcohol, 70–40% trichloroethylene and 30–60% iso-butyl alcohol, 70–40% trichloroethylene and 30–60% sec. butyl alcohol and 70–40% trichloroethylene and 30–60% n-amyl alcohol, 70–40% trichloroethylene and 30–60% iso-amyl alcohol and 70–40% trichloroethylene and 30–60% sec. amyl alcohol, casting the solution from a supply thereof having a temperature above its gelation temperature in the form of a film at a temperature of 10–50° C. on a film-forming surface, stripping the film from the film-forming surface while containing at least 50% solvent and removing residual solvent from the film.

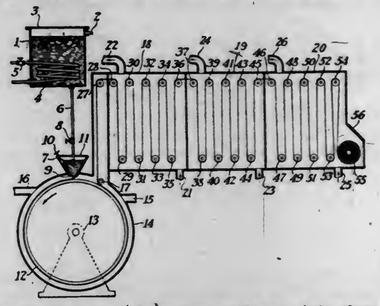
2,319,055

HIGH SPEED METHOD OF MAKING CELLULOSE ORGANIC DERIVATIVE FILM AND SHEETING

Charles R. Fordyce and Austin J. Gould, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 10, 1938, Serial No. 245,023
10 Claims. (Cl. 18—57)

9. A high speed gelation process of making sheeting suitable for photographic film base which comprises dissolving at a temperature above 50° C. a lower aliphatic acid ester of cellulose in a volatile organic liquid which is a solvent for the cellulose ester only at a temperature above 50° C., and which is of a type and in an amount, greater than the weight of the cellulose ester dissolved, which will give a solution which at a temperature within the range of 10–50° C., will form a clear, transparent, self-supporting gel, casting the solution from a supply thereof having a temperature above its gelation temperature in the form of a film at a temperature of



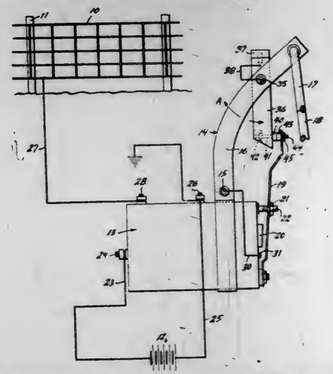
10–50° C. on a film-forming surface, stripping the film while containing at least 50% solvent and removing residual solvent from the film.

2,319,056

ELECTRIC FENCE CONTROLLER

Charles A. Frederick, Wheatland, Ind.

Application May 15, 1941, Serial No. 393,598
1 Claim. (Cl. 256—10)



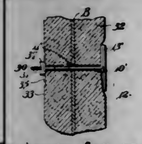
An electric system for use with a metallic fence comprising a battery, an induction coil delivering to said fence an electric current of high voltage and low amperage, said induction coil having a vertically positioned vibrator, a vertical bracket supported by said induction coil projecting over and beyond said vibrator, brace elements connecting the upper free end of said bracket to a supporting surface, an oscillating vertical rotor arm suspended intermediate its ends from said bracket such as to provide a short upper arm section and a long lower arm section, said rotor arm being swingable in the same plane as said vibrator and with its lower end in the path of movement of the free end of said vibrator, an insulated handle fixed to the upper end of said rotor arm said electric system becoming functionally operative only when said fence is grounded, said rotor arm being actuated for movement in one direction by said vibrator, and being gravity actuated for movement in the other direction, a removable contact point on the lower end of said rotor arm, a removable contact point on the free end of said vibrator, said contact points being normally in contact with each other when said electric system is inoperative and for a portion of the movement of the rotor arm in said one direction corresponding to the total

movement of said vibrator in the same direction, and said rotor arm being electrically operative by said movements thereof such as to make and break the electric circuit.

2,319,057
PREPARATION OF LONG CHAIN ORGANIC ISOCYANATES
William Edward Hanford, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 15, 1938, Serial No. 196,087
1 Claim. (Cl. 260—453)

Decamethylene diisocyanate having a boiling point of 154°–157° C. at 4.5 mm.

2,319,058
FASTENER
George A. Hansman, Rocky River, Ohio, assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 6, 1939, Serial No. 266,363
9 Claims. (Cl. 85—5)



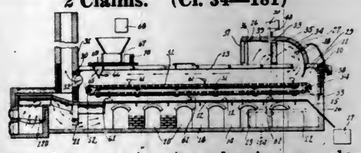
9. A locking fastener for securing a layer of compressible material to an apertured support, said fastener comprising a strip of sheet metal bent to provide a head for engaging the layer of material and a shank adapted for locking engagement in the aperture in the support, said shank comprising a leg member and a yieldable lug element struck and formed from said leg member to project out of the plane thereof sufficiently to engage the support adjacent said aperture, the extremity of said lug element being so spaced from the head of the fastener whereby upon application of the fastener to locking engagement with the support upon pressure on the head thereof, said layer of material is compressed, an extension on said leg member adapted to extend through an article to be secured to said opposite side of the support, and a locking plate applied to said extension having a resilient tongue or the like for engaging the longitudinal edge of said extension to secure said article to the support.

2,319,059
FASTENING DEVICE
George A. Hansman, Rocky River, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application April 6, 1939, Serial No. 266,363. Divided and this application July 22, 1942, Serial No. 451,856
2 Claims. (Cl. 85—5)



1. A locking stud fastener for securing an article to an apertured support, said fastener being made from a single parallel-sided strip of sheet metal cut and bent to provide a projecting shank and a head, said head being formed by bending the metal in two directions so that it forms a continuous T at the top of the shank and the shank being of the thickness of the strip and provided with a lug element narrower than the shank and formed from a laterally intermediate region thereof by an inverted U-shaped slit and bent to project normally in a single plane at an acute angle to the shank toward the head of the fastener, said fastener being of spring material so that the lug element may yield substantially into the plane of the shank in passing through the aperture and may thereafter spring outwardly to have its end abut the opposite side of the support.

2,319,060
DRIER
James C. Harris, Erie, Pa., assignor to The Manufacturers Equipment Company, Dayton, Ohio, a corporation of Ohio
Application August 3, 1940, Serial No. 351,322
2 Claims. (Cl. 34—181)

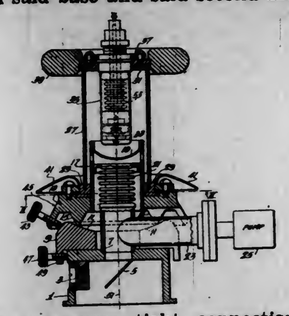


1. In a drier, a structure having an elongate chamber, a substantially horizontal partition dividing said chamber into upper and lower passageways, and constituting a support for material to be dried, said upper passageway having near one end thereof an inlet for said material and near the other end an outlet for said material, a source of heated gases communicating with the end of said lower passageway adjacent said material inlet, an outlet for said gases at that end of said upper passageway adjacent the inlet for said material, means for agitating material on said partition and moving the same forwardly toward said material outlet, a conduit arranged within and communicating with said lower passageway near the forward end thereof, an exterior conduit connected with the first mentioned conduit and extending above said upper passageway, a third conduit arranged above said upper passageway, connected with said exterior conduit and extending forwardly therefrom to a point near the forward end of said upper passageway, said upper passageway having in a wall thereof an opening through which the forward end of said third conduit communicates therewith, a fan in said third conduit to draw gases from said lower passageway and deliver the same to said upper passageway, a tubular support for said fan extending through a wall of said third conduit, a motor mounted on said wall, and driving connections between said motor and said fan arranged within said tubular support, said tubular support having openings near the ends thereof to permit the circulation of air therethrough.

2,319,061
DEMOUNTABLE ELECTRON GUN
James Hillier, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1941, Serial No. 376,758
11 Claims. (Cl. 250—160)

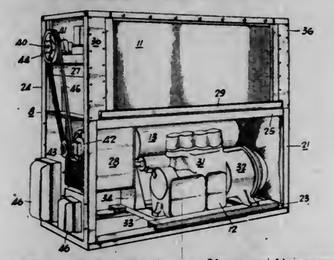
1. A demountable electron gun including in combination a base, a member adjustably mounted on said base and including a hollow spherical portion, a second member adjustably mounted on said spherical portion, an electron gun including a cathode and an anode mounted on said

second member, and a flexible member connected between said base and said second member and



forming a vacuum tight connection therebetween.

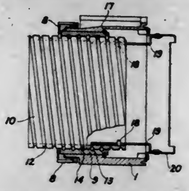
2,319,062
AIR CONDITIONING APPARATUS
Richard E. Holmes, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 3, 1940, Serial No. 350,812
4 Claims. (Cl. 62—129)



1. A self-contained air cooling unit comprising a frame having corner posts and horizontal members connecting the corner posts at the bottom thereof and also intermediate the top and the bottom, panel members attached to said frame and forming a cooling compartment in the upper portion thereof, an evaporator disposed vertically in one vertical side of said compartment, a fan disposed in said cooling compartment between said evaporator and the opposite side of the compartment, a filter casing section having an inlet and an outlet and having means for retaining a filter or filters therein in the path of the air flowing from the inlet to the outlet, said filter casing section being separate from said unit, means for detachably connecting said filter section to said unit with the outlet disposed toward said evaporator and thereby supporting said filter section on said unit, whereby said fan effects flow of air horizontally from said filter section and through said evaporator, and a compressor and a condenser supported on said frame below said cooling compartment and connected in refrigerant flow relation to said evaporator.

2,319,063
FOLDING CAMERA
Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 19, 1941, Serial No. 403,177
7 Claims. (Cl. 95—45)

2. In a folding camera, the combination with a camera body including a cylindrical opening therein, of a tubular extension fitting in the tubular opening and adapted to slide therein, both tubular members including spiral grooves cut into the tubular openings of a predetermined width, depth and pitch, and means for forming a light trap and threaded connection between the



tubular members comprising a coiled wire spring encircling a tubular member more than once and lying at least partially in both sets of spiral grooves said spring being of a cross section to substantially fill the width of the spiral grooves but incompletely filling the depth thereof whereby radial movement of said spring in said facing grooves may occur.

2,319,064
FAN OSCILLATOR WITH STATIONED HANDLE CONTROL
Richard H. Jordan, Hamden, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application November 30, 1940, Serial No. 367,995
22 Claims. (Cl. 230—256)

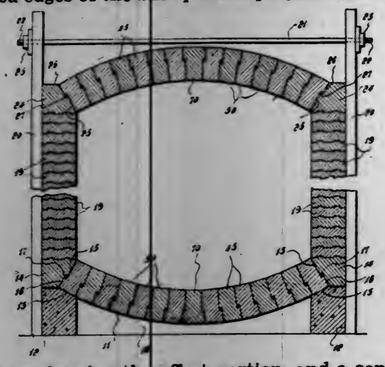


1. In automatic fan oscillating mechanism, the combination with a support, of a motor unit pivotally mounted on said support, a crank carried by said unit and continually rotated by the motor thereof, connections between said crank and support for converting rotation of said crank into oscillation of said unit including independently oscillating members one of which is fixed to said unit, and a plurality of separately movable detents constructed and arranged respectively to hold said members still one at a time while the other member oscillates thereby to produce or defeat automatic oscillation of said unit.

2,319,065
FURNACE
Joseph Karmanocky, Carteret, N. J., assignor to New Jersey Interlocking Brick Co., Carteret, N. J., a corporation of New Jersey
Application August 4, 1941, Serial No. 405,387
1 Claim. (Cl. 110—99)

A furnace arch comprising a series of bricks laid with all of their faces adjacent in interlocking relation from the side of the furnace to the center thereof, each course of brick being laid in staggered relation with respect to adjacent courses, each brick including a body portion substantially rectangular in cross section and having a pair of opposite side walls inclined with the other pair of opposite walls parallel, an offset head portion of substantially the same dimensions as the base portion extending laterally from the base portion in the direction of one of said inclined side walls and one of said parallel walls,

interlocking ribs formed on the overhanging edges of the offset portion and overlapping the base portion, interlocking ribs formed on the exposed edges of the base portion projecting toward



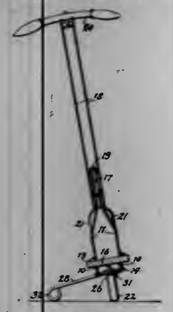
and overlapping the offset portion, and a central key brick for connecting the centralmost bricks to facilitate the endwise vertical removal of burned out areas of the arch without dismantling the entire arch structure.

2,319,066

SUPPORTING STAND FOR SCOOTERS

Rudolph A. Klatt and Oscar W. Schingeck, Tonawanda, N. Y., assignors to Auto Wheel Coaster Company, Inc., North Tonawanda, N. Y., a corporation of New York

Application April 10, 1941, Serial No. 387,916
4 Claims. (Cl. 280—301)



1. A supporting stand for a scooter having two longitudinal frame bars, said stand comprising a stand arm pivoted on one of said bars to turn about a vertical axis into a position in which the outer end of this arm is arranged between said bars or into a position in which the outer end of said arm is capable of resting on the ground and its intermediate part engages the underside of the other frame bar.

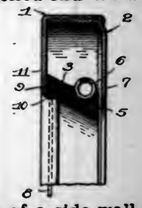
2,319,067

OIL SEAL

Thomas O. Kosatka, Chicago, Ill., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois

Application July 16, 1941, Serial No. 402,684
1 Claim. (Cl. 288—3)

An oil seal comprising a channel-shaped retaining shell, a substantially cylindrical sealing element of a moldable synthetic rubber extending substantially axially with a rotatable shaft and having one end free for wiping and sealing contact with said shaft, and means for anchoring the opposite end of the sealing element within the shell and comprising a perforated washer embedded within and extending transversely of the sealing element and with the transverse edge of the last mentioned end in fluid sealing contact



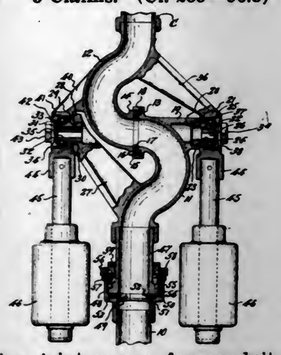
with the interior of a side wall of the shell, and an inturned lip on the end of the last mentioned side wall of the retaining shell with the edge of the lip engaging and anchored in the sealing member adjacent an edge of the washer for retaining the sealing element in fluid-tight sealing engagement.

2,319,068

SWING JOINT CONNECTION FOR LIQUID LOADING CONDUIT SYSTEMS

Howard C. Krone, River Edge, and William Meyer, East Orange, N. J., assignors to A. W. Wheaton Brass Works, Newark, N. J., a corporation of New Jersey

Application December 27, 1941, Serial No. 424,604
5 Claims. (Cl. 285—96.8)



1. Swing joint means for conduit pipe comprising, a pair of reversely curved tubular joint members having their outer ends in longitudinal alignment and their inner ends cooperatively opposed and aligned on a transverse axis, one said joint member having oppositely extending trunnion means axially aligned along said transverse axis, the other said joint member having hub members extended from opposite sides thereof in offset relation thereto and likewise aligned along said transverse axis to receive said trunnion means of said first mentioned joint member, and means to provide a leak-proof joint between the cooperating opposed inner ends of said joint members.

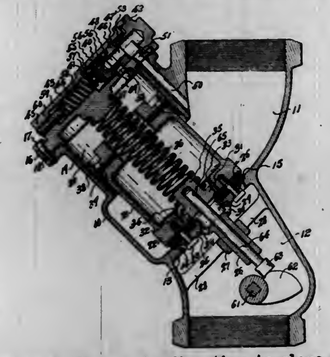
2,319,069

SELF-CLOSING VALVE

Howard C. Krone, River Edge, and William Meyer, East Orange, N. J., assignors to Wheaton Brass Works, Newark, N. J., a corporation of New Jersey

Application August 29, 1942, Serial No. 456,622
6 Claims. (Cl. 137—139)

1. A self-closing valve comprising a casing having intake and outlet extensions and a valve port therebetween, a cylinder chamber provided in connection with said casing in axial alignment with and above said valve port, a plunger carrying a main valve means adapted to close said valve port and a piston means movable in said cylinder chamber, spring means to yieldably



thrust said plunger in direction to close said valve port by said main valve means, manipulatable means to raise said plunger for opening said main valve means, means to provide communication between the intake side of the valve casing interior and said cylinder chamber, and a normally open spring tensioned back pressure valve means adapted to close said communication means.

2,319,070

MANUFACTURE OF UNSATURATED ALIPHATIC ACIDS AND ANHYDRIDES

Wesley G. Lowe and William O. Kenyon, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application March 31, 1938, Serial No. 199,279
10 Claims. (Cl. 260—546)

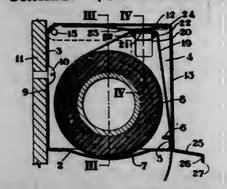
9. A stabilized composition of matter which comprises a monomeric unsaturated carboxylic anhydride of a readily polymerizable acrylic acid devoid of hydrogen on the alpha carbon atom and a stabilizing amount of a polymerization inhibitor.

2,319,071

PAPER HOLDING AND DISPENSING RECEPTACLE

Herbert B. Mason, Columbus, Ohio

Application March 31, 1941, Serial No. 386,098
7 Claims. (Cl. 242—55.5)



1. A dispensing and severing device for roll paper, comprising a casing having a stationary section and a movable cover section, a clamping bar removably positioned within said casing and supported at its ends in connection with the stationary section of the casing, said bar having adapted to be placed thereover the free end portion of a strip of paper withdrawn from a roll

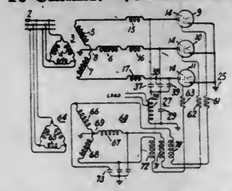
contained within the casing, resilient means carried by the movable section of the casing for engagement with the paper strip passing over said bar, an outlet slot for the paper strip formed between the movable and stationary sections of the casing, and a laterally projecting flange having a cutting edge formed on the outer portion thereof, said cutting edge being spaced from the outlet slot.

2,319,072

ELECTRIC VALVE FREQUENCY CHANGER

Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original application August 17, 1940, Serial No. 353,133. Divided and this application April 15, 1941, Serial No. 388,702
16 Claims. (Cl. 250—36)



4. In combination an alternating current supply circuit, a high frequency alternating current load circuit, electric translating apparatus connected between said circuits and comprising an electric oscillator including a plurality of electrically displaced windings and including a point of reference potential, a plurality of electronic discharge devices each connected to a different one of said windings and each including a plurality of principal electrodes and a control grid and an oscillatory circuit energized by said windings and said electronic discharge devices, corresponding principal electrodes of said electronic discharge devices being connected to said windings and different corresponding principal electrodes being connected to said point of reference potential, a control circuit for impressing on each of the grids a resultant biasing potential having a greater negative value during the negative half cycles of voltage of said supply circuit applied between said principal electrodes than that applied to the positive half cycles of the voltage of said supply circuit and comprising a polyphase network energized from said supply circuit and including a plurality of phase windings having a common point connected to said point of reference potential for impressing on each of said grids an alternating component of voltage and a plurality of resistances connected in series relation with the windings of said inductive network and said grids to impress thereon negative unidirectional components of voltage obtained by the grid rectification characteristic of the associated electronic discharge devices, and means for coupling said oscillatory circuit and said control circuit.

2,319,073

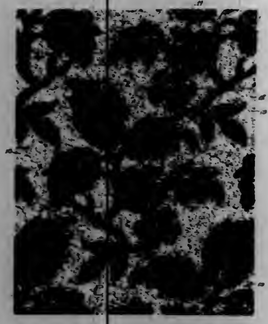
PLUSH AND METHOD OF MAKING THE SAME

James Henry McElhaney, Philadelphia, Pa., assignor to Wissahickon Plush Mills, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application March 20, 1942, Serial No. 435,546
8 Claims. (Cl. 139—391)

1. A pile fabric having uncut loop pile areas which are relatively high and uncut loop pile areas which are relatively low, combined in pat-

tern effect, the relatively high pile areas predominantly consisting of synthetic fibers between 10 and 20 denier of fiber length at least as great



as eight inches which are parallel and twisted and the relatively low pile areas predominantly consisting of synthetic staple fiber of between 1 and 3 denier spun on the cotton system.

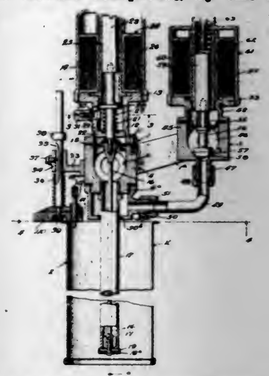
2,319,074
MANUFACTURE OF LEATHER CLOTH AND SIMILAR COATED FABRICS
John Heron McGill, Debdale Park, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application August 5, 1941, Serial No. 405,548
In Great Britain August 12, 1940
7 Claims. (Cl. 117—73)



1. A method of manufacturing coated fabrics which comprises applying to a fabric coated with a composition comprising halogenated solid polythenes at least one cementing coat comprising a resin compatible both with halogenated polythenes and with nitrocellulose, and thereafter applying at least coat of pigmented nitrocellulose composition.

2,319,075
CONTROL FOR BOTTOM FILLING OF CONTAINERS
Ronald B. McKinnis, Winter Haven, Fla., assignor, by mesne assignments, to Ronald B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla.
Application April 28, 1941, Serial No. 390,815
10 Claims. (Cl. 226—127)

1. An apparatus for filling open top containers with an oxidizable liquid comprising a nozzle positioned above a container to be filled for discharging a stream of inert gas down through the open top of the container to form a blanket in the container, a tube extending down through said nozzle and through the open top of the container to a point adjacent the bottom thereof for introducing said liquid into the bottom of the container beneath the blanket of inert gas, valves controlling the flow of inert gas through the nozzle and liquid through the tube, means for opening the liquid control valve after opening of the inert gas control valve, an electrode extending down into said container, and means including an electric circuit completed by the liquid en-

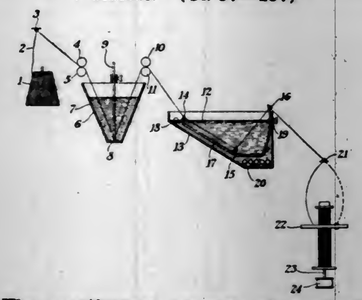


gaging said tube and electrode for closing said valves.

2,319,076
HOT NECK GREASE
Lester W. McLennan, Richmond, and Oliver W. Neukom, Berkeley, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application October 24, 1939, Serial No. 300,978
12 Claims. (Cl. 252—21)

1. A lubricating grease comprising mineral lubricating oil, between about 5% and 50% of an inert filler and between about 15% and 40% of the saponification products of saponfiable materials selected from the group consisting of animal and vegetable waxes of which at least about half of the soap is a soap of such wax.

2,319,077
METHOD OF PRODUCING CELLULOSE DERIVATIVE CREPE YARNS
James G. McNally and Donald R. Morey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 12, 1939, Serial No. 284,096
7 Claims. (Cl. 57—157)



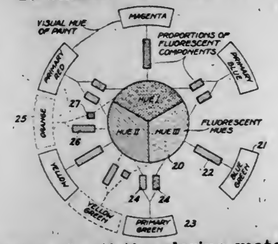
1. The continuous process of producing a highly twisted cellulose organic acid ester crepe yarn capable, when woven into a crepe fabric construction, of producing a true crepe or pebble effect when the accumulated torsional energy is released, which comprises continuously passing the yarn through the following steps: (1) treating a cellulose organic acid ester yarn with an aqueous swelling agent, (2) treating the yarn

while in a swollen condition and containing an appreciable amount of the swelling agent with a hot textile lubricant and thereupon twisting the yarn to the desired degree while the yarn is in a swollen condition resulting from said treatment.

2,319,078
AMINOPHENOL AND ITS PREPARATION
James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 13, 1940, Serial No. 340,364
8 Claims. (Cl. 260—509)

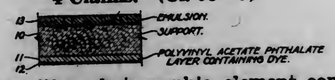
1. A N-sulfoalkyl-p-aminophenol selected from the group consisting of N-(β-sulfoethyl)-p-aminophenol, N-(γ-sulfo-n-propyl)-p-aminophenol and N-(δ-sulfo-n-primary butyl)-1-amino-3-methoxy-4-hydroxy benzene.

2,319,079
PHOTOMECHANICAL PROCESS
Alexander Murray and John A. C. Yule, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Original application April 5, 1940, Serial No. 328,066. Divided and this application August 28, 1941, Serial No. 408,642
10 Claims. (Cl. 250—71)



2. A palette of artist's coloring materials containing three fluorescent ingredients effectively in proportion to the subtractive color contents of the hues of the materials, the fluorescent hues of the ingredients being mutually separable spectrally.

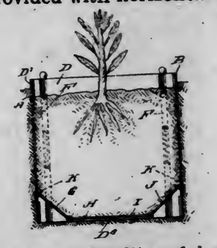
2,319,080
ANTIHALATION BACKING FOR PHOTOGRAPHIC FILM
Gale F. Nadeau and Alfred D. Slack, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 2, 1940, Serial No. 327,488
In Great Britain April 14, 1939
4 Claims. (Cl. 95—9)



1. A sensitive photographic element comprising a light-transmitting support having thereon a sensitive emulsion layer and an anti-halation layer of polyvinyl ester of a lower fatty acid and a dicarboxylic acid, and a dye.

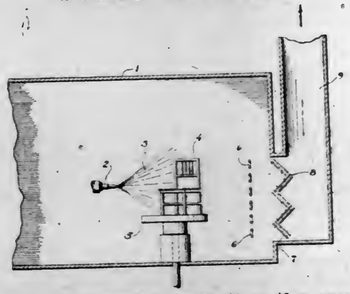
2,319,081
ASSEMBLED TRANSPLANTING POT
Edward R. Neeper, Colorado Springs, Colo.
Application February 20, 1941, Serial No. 379,881
5 Claims. (Cl. 47—37)

1. A transplanting pot comprising a rectangular box-like structure composed of side members and end members provided with flanges overlapping one another, means for detachably connecting the side and end members together the flanges of the end members being cut away and turned inwardly to form guides, the end members being provided with horizontal disposed sup-



porting flanges, a plurality of bottom sections pivotally carried by each of the side members, the bottom sections of each side member being pivotally connected together and adapted to be supported by the supporting flanges of the end members, the bottom sections being adapted to travel under the guides of the end members as the side members are raised vertically.

2,319,082
APPARATUS FOR OVERSPRAY RECOVERY
John W. Nestor, Wilmette, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 14, 1940, Serial No. 370,125
2 Claims. (Cl. 91—60)

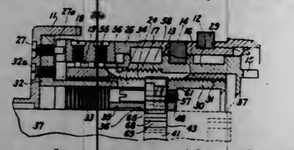


2. An apparatus for collecting the overspray in the form of substantially dry paint particles which comprises a spray booth, means for spraying a coating composition, means for producing a current of air over the object being sprayed, and means for passing it through an exhaust vent, a conductor connected to a source of high voltage direct current, and a series of electrostatically charged baffles on which the overspray solids are collected.

2,319,083
LENS MOUNT
Carl F. Nowack and Charles M. Lee, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 7, 1941, Serial No. 397,130
17 Claims. (Cl. 95—44)

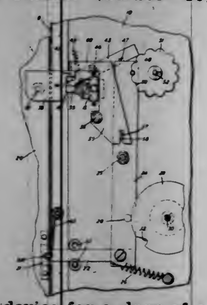
1. In a lens mount, the combination with a focusing mechanism carried by said mount, of a lens barrel telescopically arranged in said mount and slidable axially therein from an inoperative to an operative position, means for releasably connecting said barrel to said mechanism when

said barrel is moved to its operative position so that said mechanism may move said barrel for focusing, means including a radially movable lug on said mechanism adapted to engage a portion of said lens barrel independently of said connect-



ing means, and means on said mechanism positioned adjacent said lug to prevent movement thereof for retaining said second means in engagement with said portion to lock said barrel in its operative position.

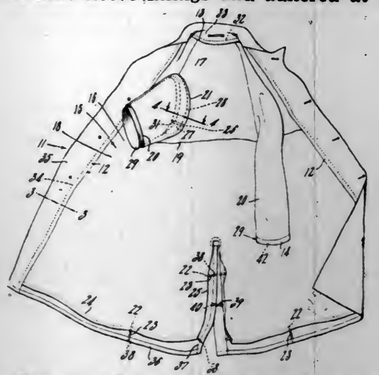
2,319,084
SAFETY DEVICE
Karl R. Olofson, Laurelton, Long Island, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 13, 1939, Serial No. 284,175
8 Claims. (Cl. 200—50)



1. A safety device for a door of a casing comprising a lock for the door movable into open and closed positions to respectively free the door for opening and lock the door in closed position, a normally open electrical circuit in the casing adapted to receive an electrical energy when the circuit is closed, an element having neutral and effective positions, the latter to vary the electrical energy in the circuit, an electrical switch included in the circuit and movable to open and close the circuit by the respective movements of the lock into open and closed positions, and means controlled by the element to hold the lock in closed position when the element is out of neutral position.

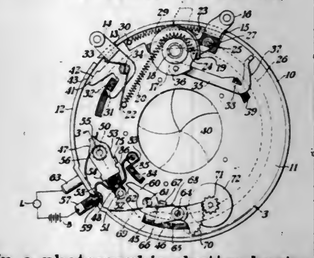
2,319,085
RAINCOAT
Thomas F. Plant, Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 24, 1940, Serial No. 315,363
3 Claims. (Cl. 2—87)

1. A raincoat comprising an outer shell made of rubber coated water-proof fabric having all outside seams united entirely with a rubber bond, a full loose lining of textile fabric secured in said shell, said lining having a body portion and sleeves, said body portion having its front and top margins secured only with a rubber bond to the inside face of the margins of the turned in front facing of said shell and to the inside face of the turned in collar leaf of said shell, respectively, said sleeve linings having their inner ends secured to the outer shell by short lengths of tape secured at one of their ends to said inner ends of said sleeve linings and adhered at the



other of their ends to said outer shell, and said sleeve linings having the margins of their outer ends secured only with a rubber bond to the turned in hem of said shell fabric.

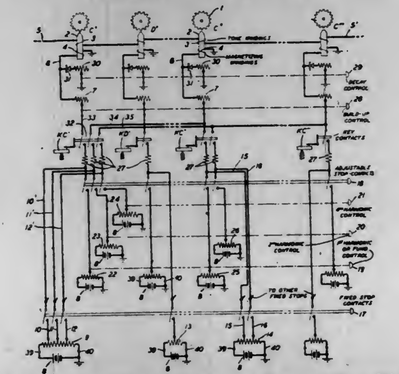
2,319,086
PHOTOFLASH SYNCHRONIZING APPARATUS
William A. Riddell, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 7, 1942, Serial No. 453,961
11 Claims. (Cl. 67—29)



9. In a photographic shutter having an associated flash synchronizing device the combination with a master member, means for setting and holding the master member in a set position comprising a setting member having a normal position of rest and movable therefrom for setting the shutter, a lost-motion connection between the setting member and the master member permitting said setting member to move idly with respect to said master member after said master member has been set, a releasable latch mechanism for holding said setting member and master member in a set position, of a flash lamp igniting mechanism comprising a lamp circuit, a normally open switch in said circuit including a first adjustable contact connected to one side of said circuit, a second contact mounted to move to and from said first contact to close the circuit and normally separated therefrom, means for operatively connecting said second contact to said setting member when the latter moves from a set position whereby said contact is moved into engagement with said first contact to close the circuit means for retarding the movement of said setting member from its set position after the same has closed said circuit and before the master member is released to account for the "lag" in flash lamps, and means for adjusting said first contact to and from the second contact

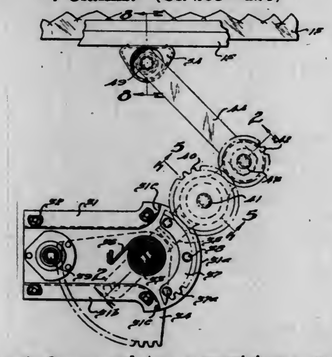
to vary the time interval between the closing of the lamp circuit and release of the shutter in accordance with different types of flash lamps, said last mentioned means including an adjustable cam movably mounted on said shutter and operatively connected to said first contact to move the same to and from the second contact when adjusted, and said cam including an arm movable over a scale on said shutter calibrated in terms of different lamp "lags."

2,319,087
ELECTRIC ORGAN KEYING SYSTEM
Albert R. Rienstra, Garden City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 396,137
7 Claims. (Cl. 84—1.26)



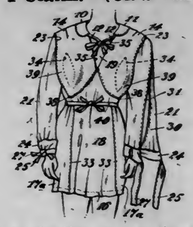
1. In an electric organ having a plurality of electric tone generators, the combination comprising an exciter for each generator to cause it to deliver an output varying in degree in response to the degree of excitation, a resistor in series with the exciter to control the rate of excitation build-up, and a second resistor including an asymmetric conductor connected in shunt with the exciter effective to control the rate of excitation decay.

2,319,088
WINDOW REGULATOR
John H. Roethel, Detroit, Mich., assignor to Marvel Equipment Corporation, Detroit, Mich., a corporation of Michigan
Application June 12, 1939, Serial No. 278,597
7 Claims. (Cl. 268—126)



2. A window regulator comprising a mounting plate, a main gear mounted for rotation upon said plate and having a projecting arm, a pair of meshing gears on said arm at one face thereof, fixed gear teeth on the plate in the plane of said pair of gears and meshing with one thereof, said last gear overlapping an edge of the plate and said main gear being interposed between the arm and plate at the side of the plate opposite to said gear teeth, a swinging arm secured to the other one of said pair of gears, and means for connecting the outer end of said swinging arm to a member at the lower edge of a window panel.

2,319,089
HOSPITAL GARMENT
Louise Severance, Point Pleasant, N. J.
Application September 22, 1939, Serial No. 296,021
1 Claim. (Cl. 2—114)



A garment including a continuous front covering both shoulders, slit sleeves having continuous fronts and backs, slit cuffs at the ends of the sleeves, devices for closing the cuffs to cause each sleeve to close its slit, a centrally slit back attached at the shoulders and sides to the front, a collar split at the back and split at the front, said front split extending down said front far enough to enable the shoulder end of the back to be pulled over and then slipped up the patient's arm and slid into place without moving the patient, and fastening devices for the front and back of the collar.

2,319,090
PHOTOGRAPHIC EMULSION CONTAINING FOG INHIBITORS
Samuel E. Sheppard and Waldemar Vanselow, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 28, 1939, Serial No. 306,508
14 Claims. (Cl. 95—7)

1. A photographic emulsion comprising a colloidal material having a sensitive silver salt dispersed therein and containing a sulfur derivative of a pyrimidine selected from the group consisting of thiopurines and thiouracils in fog-inhibiting amounts.

2,319,091
EGG CONTAINER AND METHOD OF OPERATING THE SAME
Samuel Harold Smith and Swisher Kay Kalber, Bucyrus, and Charles Milton Smith, La Grange, Ohio; said Kalber and said Charles Milton Smith assignors to said Samuel Harold Smith
Application July 22, 1939, Serial No. 285,972
6 Claims. (Cl. 119—37)

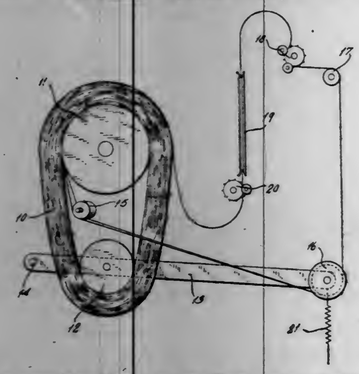
1. An incubator comprising an elongated housing, tiers of egg trays disposed along each side of the interior of said housing and defining a central corridor, a plurality of aligned fans located above said central corridor to propel air

downwardly in said corridor, a pair of ducts disposed along both sides of said aligned fans and having openings therein adjacent the inlet side of each of said fans and above said corridor, an air conditioning cabinet located at one end of said corridor and having an opening therein whereby air in said corridor may enter said air conditioning cabinet, said cabinet having an inlet for fresh air and an outlet for exhaust air, and a manifold leading from said air conditioning cabinet to said pair of ducts.



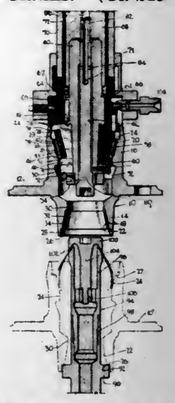
6. The method of circulating and conditioning air in an incubator having a central aisle and egg compartments on opposite sides thereof which includes the steps of circulating the majority of the air within the incubator in two closed loop paths which are substantially coextensive in axial length with the interior length of the incubator, said circulating air moving down thru the aisle to its lower portion, then moving in opposite directions into the lower parts of said egg compartments, then up thru the latter and then toward each other and into the top of said aisle, withdrawing air from the lower part of said aisle at one end thereof, conditioning it, returning it to the interior of said paths, introducing it at a plurality of places along said aisle near its upper end into air moving downwardly in said aisle and thoroughly mixing it with circulating air in the aisle before such air enters the lower portions of said egg compartments.

2,319,092
SLACK CONTROLLER
John L. Spence, Jr., Brooklyn, N. Y., assignor to Leventhal Patents, Inc., New York N. Y., a corporation of Delaware
Application May 31 1941, Serial No. 396,094
6 Claims. (Cl. 88—18.7)



2. In combination, an endless loop of film in the form of a coil, a first roller and a second roller contacted by the inner turns of said coil, a lever supporting said second roller and biased to move said second roller away from said first roller, a third roller supported by said lever, and film feeding means, said film passing from the inner coil of said endless loop to the outer coil thereof around said third roller and through said feeding means.

2,319,093
INDUCING HEAD
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application April 26, 1940, Serial No. 331,735. Divided and this application January 22, 1942, Serial No. 427,754
15 Claims. (Cl. 219—13)



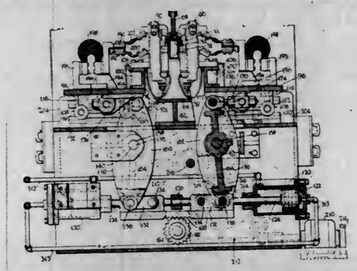
1. In an induction heating apparatus, a supporting arbor, a coil supporting member projecting outwardly from said arbor, an induction heating coil mounted on said member, and means extending through said member and accessible from the outer end thereof for securing said supporting member to the end of said arbor.

2,319,094
ORGANIC CHEMICAL PRODUCT
Carl E. Truebe, Saybrook, George S. Shahovskoy, Essex, and Joseph Levy, New Haven, Conn., assignors to Ernst Bischoff Company, Inc., Ivoryton, Conn., a corporation of Connecticut
No Drawing. Application May 31, 1941, Serial No. 396,166
4 Claims. (Cl. 167—81)

1. A new product containing a member of the group consisting of 2-methyl-1,4-naphthoquinone and 2-methyl-1,4-naphthohydroquinone, and a water-soluble salicylate, the ratio of the salicylate to the other constituent referred to being at least 75 parts to one by weight.

2,319,095
PRESS WELDING MACHINE
William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 25, 1939, Serial No. 291,838
15 Claims. (Cl. 219—4)

15. In a welding apparatus, a work bed, a work holder mounted on said bed and arranged to hold a workpiece in a predetermined position; a movable structure mounted on said work bed for movement laterally toward and away from the work held by said work holder; a plurality of spot welding electrodes mounted on said structure arranged to adapt them for contacting the work when said structure is moved toward said



work; means, upon lateral movement of said structure to a position adjacent said work holder, for engaging said electrodes with the work to effect a plurality of welds.

2,319,096
FISH LURE
Conrad Wood, Geneva, Ohio, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio
Application September 23, 1941, Serial No. 412,015
9 Claims. (Cl. 43—39)



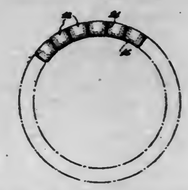
1. A fish lure comprising a body portion constructed to simulate a fish, hooks on the body portion, a guard member secured to the body portion adjacent to one end thereof, said guard member being of such length as to extend to a point beyond the fish hooks when the lure is being drawn through the water whereby said guard member is adapted to engage an obstruction in the path of travel of the lure, whereby one end of the lure is tilted upwardly and the hooks are elevated to clear the obstruction.

2,319,097
PISTON RING
Victor F. Zahodiakin, New York, N. Y.
Original application September 15, 1939, Serial No. 295,106. Divided and this application June 5, 1940, Serial No. 339,032
5 Claims. (Cl. 309—44)



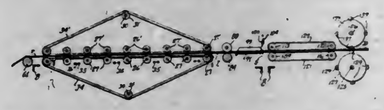
2. A piston ring comprising, a series of segments, a ring disposed around the interior of the segments, cotter pins disposed through the ring and having their head ends axially slidable in the segments, the inner ends of the cotter pins spread apart and adapted to engage the bottom of the piston groove, said cotter pins formed of spring metal.

2,319,098
PISTON RING
Victor F. Zahodiakin, New York, N. Y.
Application June 5, 1940, Serial No. 339,033
10 Claims. (Cl. 309—44)



2. A flexible piston ring consisting of a plurality of independently formed U-shaped sections having their base walls constituting the back wall of the piston ring, a separate spring element interconnecting adjacent sections and generating circumferential pressure in the ring, and, means for securing said sections to said spring element.

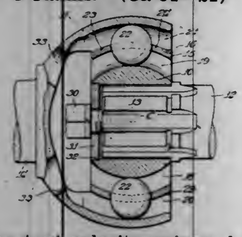
2,319,099
CONTAINER-MAKING MACHINE
Alvin A. Abramson and Carleton Manthey, St. Louis, Mo., assignors to Central States Paper & Bag Company, St. Louis, Mo., a corporation of Missouri
Application November 25, 1940, Serial No. 367,004
9 Claims. (Cl. 18—19)



8. A container-making machine comprising means for feeding a strip of transparent container-forming material along a predetermined path, means adjacent said path for engaging a longitudinal margin of the strip and forming a bead therealong, and a plurality of pairs of bars for momentarily engaging and moving with the strip, one bar of each pair being provided with electric heating elements, slip ring means associated with the bars, and brushes engageable with the slip rings for supplying electrical current to the heating elements for heating the bars and thereby permanently forming transverse indentations in the bead.

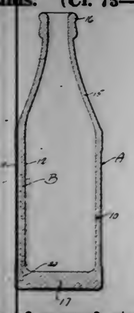
9. A container-making machine comprising feeding means for progressing a flexible strip of container-forming material forwardly along a predetermined path while engaging said material along both its upper and lower faces to prevent any buckling of the material, means adjacent said path for engaging a longitudinal margin of the strip and forming a bead thereon, cut-off means adapted for severing the strip along a straight line at right angles to its path of movement, said cut-off means being positioned in forwardly spaced relationship to the feeding means, guide means interposed between the feeding means and the cut-off means for engaging the lengthwise margins of the strip, said strip otherwise being unconfined on at least one of its flat faces so that the strip may flex along that portion of its length extending between the feeding means and the cut-off means, whereby the forward travel of that portion of the strip adjacent to the cut-off means will be momentarily arrested during the strip severing operation while permitting the feeding means to remain in continuous operation.

2,319,100
CONSTANT VELOCITY JOINT
Edmund B. Anderson, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 21, 1940, Serial No. 357,739
3 Claims. (Cl. 64—21)



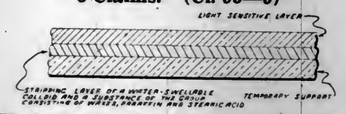
1. In a constant velocity universal joint, male and female torque transmitting elements cooperatively providing pairs of arcuate ball raceways each disposed on a great circle of its respective element and extending diagonally with reference to a meridian thereof, the raceways of each pair having opposite meridional inclination and being in crossed relation to each other, a ball disposed at the crossing of each pair of raceways and received in the respective raceways for forming a torque-transmitting connection between the elements, and a pair of opposed annular thrust receiving elements embracing said balls between them and disposed between the opposed surfaces of the elements and in thrust bearing engagement therewith, the meridional inclination of the raceways of alternate pairs being opposite to that of the raceways of the intervening pairs, whereby the axial thrust against the balls resulting from the torque reaction of the crossed grooves against the balls is directed alternately in opposite directions resulting in the constant maintenance of the external faces of both of said rings in snug engagement with the internal face of the female element.

2,319,101
BOTTLE CONSTRUCTION WITH TEMPERATURE INDICATOR
Sidney S. Anderson, Hattiesburg, Miss.
Application June 18, 1941, Serial No. 398,660
5 Claims. (Cl. 73—343)



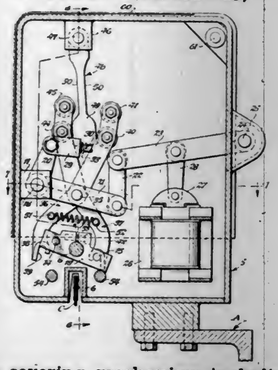
2. As an article of manufacture a bottle having a side wall construction, a thermometer built in the side wall construction; the thickness of the side wall construction varying in uniformly increasing thickness from a point opposite the thermometer to the location of the thermometer where said side wall thickness of the bottle is greatest, the lower temperature receiving end of the thermometer being located in the bottom wall structure of the bottle.

2,319,102
ADHESIVE
Fritz Albers, Leverkusen-Wiesdorf, and Arthur Allendörfer, Leverkusen-I. G. Werk, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application June 10, 1939, Serial No. 278,482
In Germany June 10, 1938
3 Claims. (Cl. 95—9)



1. Photographic stripping material comprising a temporary support, a light-sensitive layer thereon and a water-sensitive adhesive for temporarily bonding said support to said layer, said adhesive comprising a water-swellable adhesive colloid and a member of the class consisting of waxes, paraffin, and stearic acid.

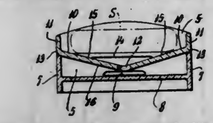
2,319,103
TAPE SEVERING MECHANISM
Howard G. Allen, Niagara Falls, N. Y., assignor to Bagpak, Inc., New York, N. Y., a corporation of Delaware
Application October 1, 1941, Serial No. 413,109
6 Claims. (Cl. 164—43)



1. Tape severing mechanism including a stationary shear anvil, an oscillatable cutter blade associated therewith, a tilt bar connected to said cutter blade, linkage means for oscillating said cutter blade and including a pair of arms having their lower ends associated with the respective ends of said tilt bar and being selectively alternately engageable therewith, means for controlling and selecting the engagement of one of said arms with an associated end of said tilt bar while preventing engagement of the other of said arms with said tilt bar, and means for imparting cutter oscillating motion to said linkage means.

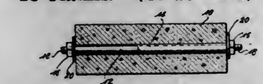
2,319,104
SOAP HOLDER
Agnes M. Andrews, Jersey City, N. J.
Application February 21, 1942, Serial No. 431,808
4 Claims. (Cl. 45—28)

1. In a holder for a cake of soap, a receptacle having an open top and end, side and bottom walls, and a support for a cake of soap comprising a plate of V shape in cross section having an elongated opening in the vertex of the V and a series of spaced bars supported at the opposite end portions on the opposite wall portions of the V of the plate to extend transversely to and in spaced relation above the elongated opening in the plate and support a cake of soap and the side edges of the plate arranged to engage the edges of the opposite side walls



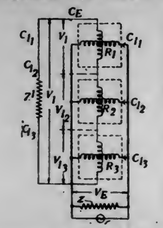
of the receptacle and suspend the plate in the receptacle with the opening in the plate in spaced relation above the bottom wall of the receptacle to permit the flow of liquid from the cake of soap over the opposite wall portions of the plate to and through the opening therein into the receptacle.

2,319,105
METHOD OF REINFORCING CONCRETE BODIES
Karl P. Billner, Philadelphia, Pa.
Application June 17, 1942, Serial No. 447,407
18 Claims. (Cl. 25—154)



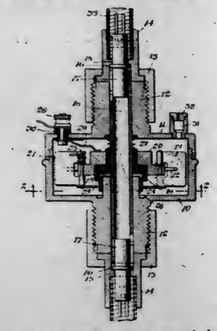
1. A method of stressing a reinforcing element in a hardened plastic body comprising thermally expanding said element with respect to said body, causing said element to contract with respect to said body, applying at least a portion of the contracting force of said element to produce compressive stresses in said body and establishing a bond between said element and said body.

2,319,106
ELECTRICAL CALCULATING MACHINE
Charles Lord Blackburn, Westminster, London, England, assignor to Electrical Improvements Limited, Newcastle-on-Tyne, England, a company of Great Britain
Application May 21, 1937, Serial No. 144,081
In Great Britain May 27, 1936
9 Claims. (Cl. 235—61)



1. In a machine for electrically evaluating quantities associated with an interconnected assembly of the kind in which each element of the assembly has associated with it certain fixed and variable quantities which are inter-related by one or more equations, such equations being of a like nature for all the elements of the assembly, whilst the variable quantities of a like character for the various elements of the assembly are also inter-related by one or more equations, the combination of a number of units one for each element of the assembly each unit comprising a plurality of magnetically interlinked windings whose turns-ratios represent the values of fixed quantities associated with the element, means for connecting each winding of a unit to the corresponding windings of the other units in an independent circuit individual to the variable quantities of one character in the assembly the connections of at least one of such independent circuits corresponding directly to the actual connections of the elements of the assembly whilst those of at least one other independent circuit correspond reciprocally to the actual connections of the assembly elements, an A. C. source of energy, and means for energising at least one of the windings from such source.

2,319,107
CIRCUIT CONTROLLER
Howard Brandt, New York, N. Y.
Application May 17, 1941, Serial No. 393,923
4 Claims. (Cl. 200—52)

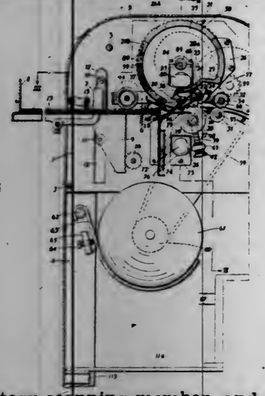


1. A circuit controller comprising a casing, a non-conducting fluid disposed in the casing, a shaft extending into the casing and mounted for both rotary and axial movement, contact means supported on said shaft and fixed relative thereto, a first shiftable contact supported by the shaft so as to be shiftable in one plane into and out of engagement with the contact means, a second shiftable contact supported by the shaft so as to be shiftable relative thereto into and out of engagement with the contact means through a plane disposed substantially at right angles to the plane in which the first shiftable contact shifts, and fluid actuated means connected to the said first and second shiftable contacts so as to cause one of the contacts to shift when the shaft rotates and so as to cause the other contact to shift when the shaft moves axially.

2,319,108
APPARATUS FOR ASSORTING RECORD CARDS, SHEETS, AND THE LIKE
Daniel Broido, London, England
Application August 23, 1940, Serial No. 353,903
In Great Britain August 29, 1939
9 Claims. (Cl. 209—111)

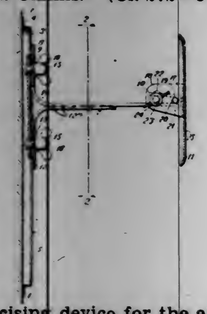
1. Apparatus for assorting record cards and like sheets in which the recorded information is represented by a pattern comprising differently positioned marks having a transparency different from that of the record sheet, comprising, in combination, a source of radiant energy, a device sensitive to said radiant energy, a rotary scanning member disposed between the source of radiant energy and the sensitive device, said rotary scanning member comprising means for setting up a definite pattern by selectively blocking light transmitting areas corresponding to light transmitting areas of a card pattern to be

accepted, means for feeding the record sheets into an analysing position between the source of radiant energy and the sensitive device, in which position the marks on a record sheet are analysed



by said rotary scanning member, and means for forwarding the record sheet from the analysing position and for delivering it into one of two receptacles, said means comprising a sorting flap controlled by the sensitive device.

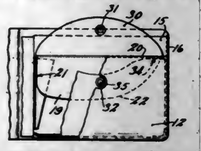
2,319,109
EXERCISING DEVICE
George C. Bulloch, Rockford, Ill.
Application February 8, 1941, Serial No. 377,999
12 Claims. (Cl. 272—57)



1. An exercising device for the abdomen comprising a vertical support, a flat spring arm extending away from said support, an abdominal contact plate hinged to the end of said arm, and means permitting limited pivotal adjustment of said plate and locking means for holding said plate in adjusted position.

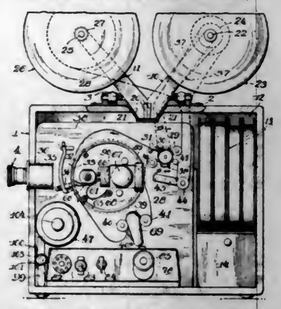
2,319,110
FLEXIBLE POCKET RECEPTACLE
Warner R. Buxton, Longmeadow, Mass.; Mabel Allen Buxton, Longmeadow, Mass., executrix of said Warner R. Buxton, deceased, assignor to Buxton, Incorporated, a corporation of Massachusetts
Application July 16, 1940, Serial No. 345,761
15 Claims. (Cl. 150—35)

1. In a flexible pocket receptacle having a main compartment, a pair of wall members connected together to form a pocket between them exteriorly of the main compartment of the receptacle, a purse member removably nested in said pocket, said purse having a closure flap, fastening means for securing said closure flap, said means comprising cooperating members respectively carried by said closure flap and the front wall of the body of the purse, that pocket wall adjacent the front face of the purse being provided with an opening through which the fas-



tener members may engage when the purse is nested in said pocket, and means disposed at the mouth of said pocket for releasably securing the purse member to the receptacle and in nested position in the pocket independently of said fastener members.

2,319,111
SOUND MOTION PICTURE PROJECTOR
Forrest O. Calvin and William G. Wilson, Kansas City, Mo., and Thomas R. Smith, Newton, Iowa, assignors to Movie-Mite Corporation, Kansas City, Mo., a corporation of Missouri
Application January 9, 1940, Serial No. 313,088
2 Claims. (Cl. 88—16.2)



1. In a sound motion picture projector, a carrying case adapted to enclose all items of equipment for a sound motion picture performance, a plate secured to the upper surface of the case, arms for mounting the feed and take-up reels during operation of the projector, the lower end of each arm being flanged with the adjacent flanged ends adapted to be received and anchored in a complementary opening in the plate and interlocked therewith for retaining said arms in angular, operative position with respect to each other and with the flanged ends in abutting relationship for rigidly mounting and retaining said arms during operation of the projector.

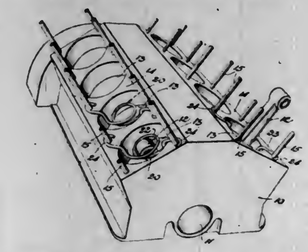
2,319,112
HOLDING DEVICE
Edward A. Christoph, Chicago, Ill.
Application April 3, 1942, Serial No. 437,489
3 Claims. (Cl. 43—29)



2. A holding device for holding open the mouth of a fish during removal of the hook therefrom formed from a piece of resilient strip metal of considerable width bent into generally U-shape providing two arms connected at their lower ends

by a bight element for swinging movement toward and away from each other and yieldingly urged apart, each of said arms being provided at its upper end with an outwardly directed point substantially perpendicular to the plane of said arm, one of said arms being provided with an opening in its upper portion and the upper portion of the other arm being insertible through said opening in intersecting relation to said one arm in position cooperating therewith for restraining the upper portions of said arms against movement away from each other, by distortion of said other arm, said strip metal being of slight thickness relative to its width whereby said device is readily distortable by hand, said bight element being of considerable width providing an abutment for holding said device during distortion thereof, said arms being disposed in non-intersecting relation and free for independent movement one toward and away from the other when said other arm is disengaged from the opening of said one arm, said other arm being bent inwardly below its upper portion providing a thumb receiving depression for exerting pressure on said other arm and thereby distorting it for insertion and withdrawal of the upper portion thereof into and from said opening, and said one arm being bent inwardly below said opening providing a finger receiving depression for restraining said one arm against lengthwise movement while distorting said other arm.

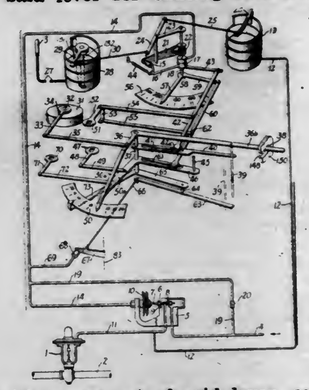
2,319,113
ENGINE
John M. Christman, Grosse Pointe Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application March 14, 1942, Serial No. 434,636
9 Claims. (Cl. 123—198)



1. A device, for application to studs projecting from a crankcase wall adjacent an opening through which the free end of a connecting rod extends during a portion of the assembly of an engine to prevent the rod from striking against the wall, comprising a continuous formed member having a central portion for encircling the free end of the rod to limit its movement within the wall opening, and hooked end portions projecting in opposite directions from the central portion for engaging around studs disposed oppositely of the wall opening.

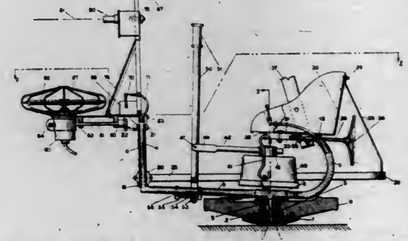
2,319,114
CONTROL APPARATUS
Lyman Cook, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application February 10, 1941, Serial No. 378,314
15 Claims. (Cl. 236—46)

13. In control apparatus for maintaining the position of a movable element in correspondence with a predetermined but adjustable time schedule, the combination of a slotted lever means for rotating said lever at a constant speed, a link operatively conected to said movable element and slidably connected in the slot of said lever for causing said element to



move with movement of said lever, and means for adjusting said link in said slot to vary the rate at which said element moves with said lever, said adjusting means including an adjustment stud and spring means to prevent injury of said link due to overadjustment.

2,319,115
TRAINING DEVICE FOR AVIATORS
John E. Crowell, Charlotte, N. C.
Application February 26, 1941, Serial No. 380,702
11 Claims. (Cl. 35—12)



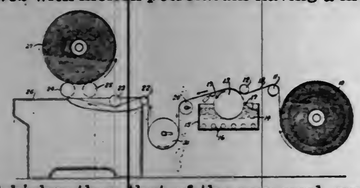
1. An aviation training device including a frame, a seat mounted on one end of the frame and a prime mover on the opposite end thereof, a supporting surface engaging universal mount for the frame, a horizontal laterally extending rudder bar pivoted adjacent the front end of the frame, and means connecting the rudder bar to the prime mover to vary the position of the prime mover.

2,319,116
PAPER AND METHOD OF MAKING SAME
Lloyd L. Dodge, Chicago, Ill., assignor to Rhinelander Paper Company, Rhinelander, Wis., a corporation of Wisconsin
Application March 1, 1939, Serial No. 259,151
8 Claims. (Cl. 92—39)

3. A sheet of paper impregnated with petrolatum and having a paraffin wax coating overlying the petrolatum impregnated sheet, said petrolatum having a melting point higher than that of the wax.

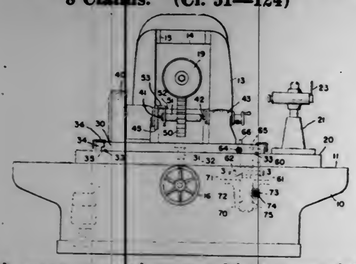
6. In the method of making a relatively transparent, pliable, moisture-proof sheet of waxed

paper from relatively free paper stock by successively forming the stock into a paper web having its fibers lying mainly in the machine direction, drying, moistening, and supercalendering the web, the steps which comprise impregnating the web with molten petrolatum having a melting



point higher than that of the wax used, regulating the petrolatum content of the web by doctoring the petrolatum so as to leave the web impregnated with an amount of said petrolatum insufficient to bleed through the wax, and thereafter applying a coating of paraffin wax to the web and over the petrolatum.

2,319,117
GEAR CROWNING
Robert S. Drummond, Detroit, Mich.
Application July 15, 1940, Serial No. 345,672
8 Claims. (Cl. 51—124)



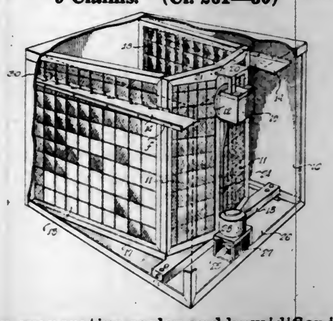
6. A gear crowning machine comprising a frame, a support on said frame for a form grinding wheel, means for rotating said wheel about its axis, ways on said frame, a slide movable in said ways in a direction transverse to the axis of said grinding wheel, a platform on said slide, means on said platform for supporting a gear, pivot means supporting said platform on said slide for oscillation about an axis perpendicular both to the axis of said gear and to the axis of said grinding wheel, means for translating said slide, and means for oscillating said platform in accordance with said translation.

2,319,118
UMBRELLA
Amelia Farkas and William Farkas, Brooklyn, N. Y.
Application December 12, 1941, Serial No. 422,620
6 Claims. (Cl. 135—34)



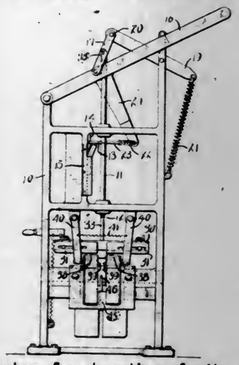
1. An umbrella having a cloth cover with its center attached to the top end of a central handle and its peripheral edges extended across and attached to the outer ends of long ribs which project radially from the top end of said central handle, short radial ribs extending from said central handle and superimposed on said long ribs and disposed between said long ribs and said cloth cover, means attaching the outer extremities of said short ribs to the adjacent areas of said cloth cover, and means slidably attaching the central portions of said short ribs to the adjacent areas of said long ribs for unitary movement.

2,319,119
AIR CONDITIONING APPARATUS
Archie S. Feinberg, Dallas, Tex.
Application May 18, 1942, Serial No. 443,389
9 Claims. (Cl. 261—30)



1. An evaporative cooler and humidifier including a cabinet having a rear air intake and a front air outlet, means to effect movement of air therethrough, an assembly of filter pads in said cabinet arranged at a variety of angles in the air stream, means disposed behind the rearmost pad assembly and above the midsection thereof for discharging water radially and forwardly toward said pad assembly to be influenced by said air stream into the rearmost pads of said assembly, baffles disposed on a substantially horizontal plane, whose discharge edges are contiguous with the upper portions of the exterior walls of the side pads of the assembly and which are adapted to intercept and convey and distribute a portion of the discharge of said water discharging means onto said side pads.

2,319,120
APPARATUS FOR SEGMENTING AND PITTING FRUITS HAVING PITS
Oral S. Fix, Tampa, Fla., assignor to The Polk Development Company, Tampa, Fla., a copartnership composed of Ralph Polk, Sr. and Ralph Polk, Jr.
Application October 6, 1941, Serial No. 413,726
8 Claims. (Cl. 146—28)



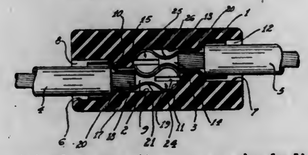
1. Apparatus for treating fruits having pits,

comprising a reciprocatory oscillable plunger having a free end substantially smaller than the fruit to be treated and larger than the pit thereof and formed to rotatively interlock with such pit, a pair of fruit-meat-slitting blades having edges facing each other and spaced apart to form a gap the axis of which substantially coincides with the axis of said plunger in its projected position and the width of which is greater than a fruit-pit diameter and less than a fruit diameter, a pair of inverted Y guides arranged beyond the said slitting blades with their stems respectively in the planes of said blades, means by which said plunger may be axially shifted to penetrate the meat of a fruit and engage its pit and thereafter propel a fruit from between the slitting blades and on to said guides, and means for turning said plunger about its axis during its projection.

2,319,121
REACTION OF HYDROCARBON SULPHONYL HALIDES WITH ALCOHOLS
Arthur L. Fox, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 12, 1940, Serial No. 365,376
5 Claims. (Cl. 260—513)

1. The process which comprises reacting a mixture of saturated aliphatic hydrocarbon sulphonyl chlorides containing at least 5 carbon atoms and combined chlorine attached to carbon with an alcohol in an amount at least equivalent to the number of sulphonyl chloride groups, at a temperature below the decomposition point of said sulphonyl halides.

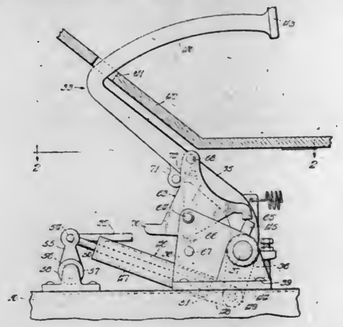
2,319,122
ELECTRICAL CONNECTION MEANS
Russell A. Funk, Sebewaing, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application March 13, 1941, Serial No. 383,127
5 Claims. (Cl. 173—328)



3. Electrical connection means including, a plurality of plug conductor terminals, said terminals having generally split ball portions, and means surrounding said terminals acting on said split ball portions causing them to yield and define a contact line substantially corresponding to an ogee curve.

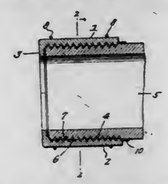
2,319,123
FRICTION CLUTCH
David E. Gamble, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application June 26, 1939, Serial No. 281,140
8 Claims. (Cl. 192—99)

5. Operating mechanism for a clutch adapted to be engaged under pressure developed by the operator, in a vehicle wherein such clutch is spaced from a side rail of the vehicle, comprising a foot pedal fulcrumed on one of said side rails, linkage for transferring clutch engaging pressure from said pedal to said clutch, said linkage including a floating rock shaft extending between said side rail and the clutch and including an element adapted to yield at clutch engaging pressure so as to allow the pedal to be advanced be-



yond clutch engaging position, and latching means adapted to latch the pedal in clutch engaging position and to release the pedal for return movement when the pedal is depressed beyond clutch engaging position.

2,319,124
SECTIONAL THREAD PROTECTOR
Manuel E. Goldberg and Rodger F. Haughey, McKeesport, Pa.
Application July 11, 1942, Serial No. 450,586
2 Claims. (Cl. 138—96)

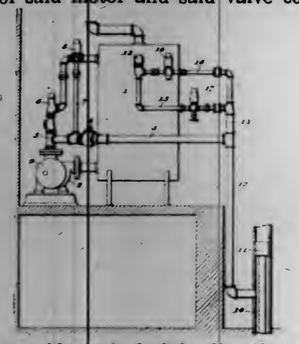


1. A protector for the threads of a pipe section comprising a pair of semi-cylindrical internally threaded cap sections fitting together around said threads in opposed edge-to-edge mating relation and having an end flange respectively to be opposed to the end of the pipe, and means to secure said sections together comprising a length of wire looped around the sections with its ends twisted into interlocking relation.

2,319,125
OPERATING AND CONTROL SYSTEM FOR HYDRAULIC ELEVATORS
Alfred W. Grote, Freeport, Maine, assignor to The Portland Company, Portland, Maine, a corporation of Maine
Application October 15, 1941, Serial No. 415,101
24 Claims. (Cl. 187—28)

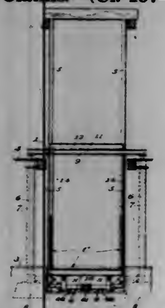
1. An operating system controlling the delivery of liquid to and an escape of liquid from the plunger cylinder of a hydraulic elevator to control its ascent and descent from station to station, said system comprising pump controlled delivery means in communication with said cylinder, said delivery means comprising a motor in control of said delivery means and valve controlled means for regulating the flow of liquid to said cylinder to regulate the rate of elevator ascent, valve controlled means to regulate the escape of liquid from said cylinder to regulate the

rate of elevator descent, and operating means in control of said motor and said valve controlled



means to provide control of the direction and rate of elevator travel.

2,319,126
HYDRAULIC ELEVATOR CONSTRUCTION
Alfred W. Grote, Freeport, Maine, assignor to The Portland Company, Portland, Maine, a corporation of Maine
Application January 12, 1942, Serial No. 426,428
6 Claims. (Cl. 187—17)



1. An elevator assembly for supporting an elevator car in its well way to serve a plurality of stations, said assembly comprising a pair of transversely alined guide rails supported by the well way structure and defining a center line of car support, a cylinder laterally of each side of said car, said cylinders being on opposite sides of said center line and being mounted with substantially their entire length disposed above the level of the bottom station, a plunger in each cylinder, said cylinders and said plungers being of sufficient length to permit said car to be raised from its bottom station to its top station, means to support said car, said means including a pair of stiles connected to said car midway of its sides and guide shoes carried by said stiles in engagement with said rails, and means rigidly connecting said car supporting means to the ends of said plungers.

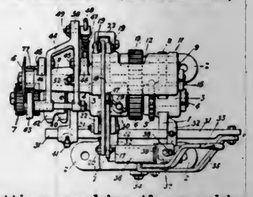
2,319,127
BRIEF CASE AND THE LIKE
Henry J. Guenther and George G. Guenther, New York, N. Y.
Application October 22, 1941, Serial No. 415,994
2 Claims. (Cl. 150—1.6)

1. In a brief case having a front wall and a rear wall with the usual pockets which are open at the top located between said walls, flaps continuing from the top edges of said front and rear walls and extending the length of the brief case, flexible sheet material members mounted on the inner faces of said flaps and having their middle portions and bottom edges free and extending towards each other, a slide fastener releasably se-



curing said bottom edges of said members together for closing said brief case, and means for releasably connecting the middle portions of said flexible sheet material members to the adjacent faces of said flaps whereby when said middle portions are released the said front and rear walls may be separated a greater distance.

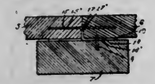
2,319,128
CUTTING MACHINE
Carl Halmrast, Vancouver, British Columbia, Canada
Application November 13, 1941, Serial No. 418,968
13 Claims. (Cl. 164—61)



1. In a cutting machine the combination comprising, a base as means to support rotating and hinged members, levers in engagement therewith; brackets integral with said base as means to support therethrough a sliding bar, adapted to have in adjustably fixed position a gauge member secured thereto, and said brackets adapted to have secured also thereto, a friction plate as means to control and set a lever adapted as means to actuate a sliding bar supporting said gauge and said gauge adapted to sliding and adjustable engagement with a feed roller, as means to alter cutting widths of material passing over said feed roller, said gauge member adapted to have a gauge extension secured thereto for the purpose of added gauging means; a lever, fulcrumed to said base, having a connecting link as means to connect said lever to said sliding bar; a breaking member fixed to said lever, said breaking member in sliding engagement with a friction plate and having in threaded engagement therewith set screws adapted to expand a break shoe against said friction plate, as means to control the movement of said lever, and a set screw in threaded engagement with a bracket integral with said base adapted to biting engagement with said slide bar, as means to lock said bar against sliding movement while heavy material having a tendency to move the hereinbefore claimed gauge, is being cut, substantially as set forth.

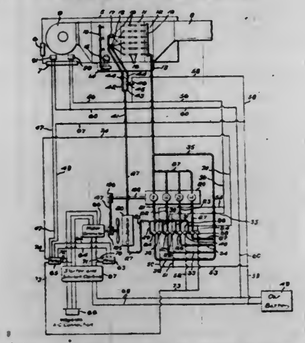
2,319,129
FASTENER FOR WALLBOARD UNITS
John G. Hamilton, Orleans County, La.
Application July 18, 1939, Serial No. 285,220
10 Claims. (Cl. 72—118)

1. A blind fastening to secure sections of wall board and the like to a supporting base and to each other without exposure of the fastening, comprising a wire staple having a near end and a far end and an intermediate portion angularly disposed placing the ends in different parallel



planes, one of said ends being flat and looped to be fastened and retained by a nail and the other being straight for insertion into the edge of a section of wall board.

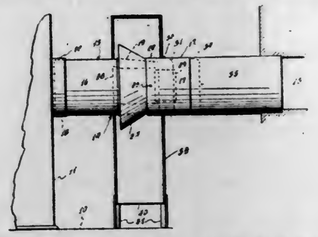
2,319,130
REFRIGERATION CONTROL FOR AIR CONDITIONED PASSENGER VEHICLES
Milton E. Hanson, Haddonfield, N. J., assignor to B. F. Sturtevant Company, Boston, Mass.
Application March 5, 1941, Serial No. 381,832
4 Claims. (Cl. 62—6)



1. An air conditioning system for a passenger vehicle, comprising an air cooling evaporator, means including a refrigerant compressor for supplying refrigerant to said evaporator, a motor for driving said compressor, an electric battery carried by said vehicle for energizing said motor, means including a thermostat responsive to temperature changes in the passenger space for disconnecting said motor from said battery when the air has been cooled to the desired temperature, wayside connections for supplying external electric energy to said motor as when said vehicle is standing in a station, means for unloading said compressor, and means actuated when said wayside connections are completed for disconnecting said thermostat from control of said motor and for connecting said thermostat to control of said means for unloading said compressor whereby when said wayside connections are completed and the air has been cooled to the desired temperature, said motor is continually energized from said wayside connections and said thermostat acts to unload said compressor.

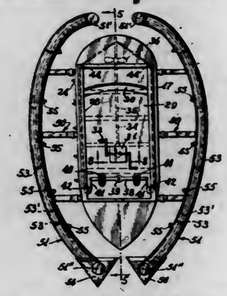
2,319,131
FUEL AND HEAT ECONOMIZER
John T. Harrington, St. Paul, Minn.
Application March 27, 1941, Serial No. 385,579
4 Claims. (Cl. 126—312)

1. A fuel and heat economizer for furnaces and the like comprising a conduit adapted to replace a smoke-pipe including end sections of pipe, said pipe sections having adjacent overlapping ends, one of said pipe sections forming the inlet end of the conduit and the other of said pipe sections forming the outlet end thereof, said outlet section having one end disposed around the end of the inlet section and spaced therefrom to form an annular passage therebetween opening outwardly of the conduit intermediate of its ends, and a tube



of substantially less diameter than said pipe sections and disposed in the inlet section and coaxially thereof and having one end extending into the outlet pipe section.

2,319,132
SAFETY WATER CRADLE BOAT
Walter R. Hood, New York, N. Y.
Application July 17, 1941, Serial No. 402,751
4 Claims. (Cl. 114—123)

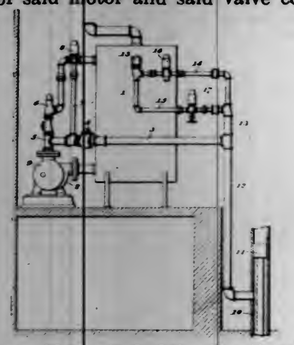


1. A safety water cradle boat having a hull with a float extended longitudinally along one side of said hull and a plurality of arms between said hull and float supporting said float on said hull, each of said arms being constructed of separate sections, comprising a stationary section having its inner end securely mounted upon the side of said hull, and adjustable section having its outer end securely mounted on the side of said float, and means for pivotally slidably connecting together the adjacent ends of said arm sections, whereby said float may be spaced a desired distance from said hull and pivot downwards to rest on the surface of the water in various positions of said hull on the water.

2,319,133
CROSS CURRENT CYLINDER TYPE PAPER-MAKING MACHINE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application October 19, 1939, Serial No. 300,118
6 Claims. (Cl. 92—43)

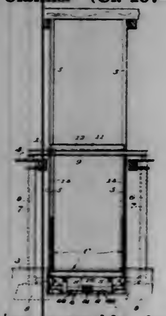
1. A cylinder type paper making machine comprising a vat, a curved wall in said vat defining a vat circle for a pond of stock, a feed box and making board for supplying stock to one end of the vat circle, a cylinder mold rotatably mounted in said vat circle to ascend at the feed box end thereof, means for draining white water from the interior of the cylinder mold, stock circulating

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means to provide control of the direction and rate of elevator travel.

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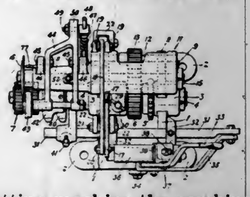
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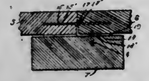
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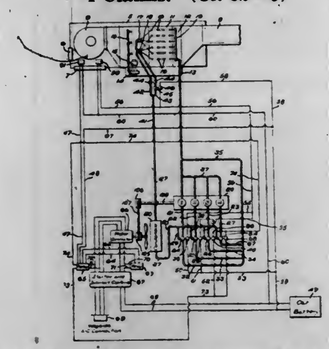
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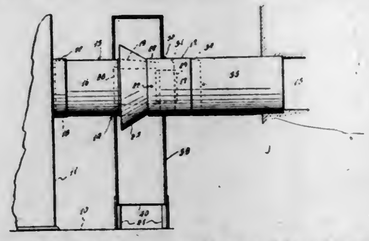
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REFRIGERATION CONTROL FOR AIR CONDITIONED PASSENGER VEHICLES
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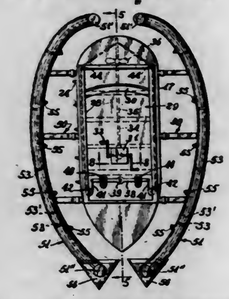
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FUEL AND HEAT ECONOMIZER
John T. Harrington, St. Paul, Minn.
Application March 27, 1941, Serial No. 385,579
4 Claims. (Cl. 126—312)

1. A fuel and heat economizer for furnaces and the like comprising a conduit adapted to replace a smoke-pipe including end sections of pipe, said pipe sections having adjacent overlapping ends, one of said pipe sections forming the inlet end of the conduit and the other of said pipe sections forming the outlet end thereof, said outlet section having one end disposed around the end of the inlet section and spaced therefrom to form an annular passage therebetween opening outwardly of the conduit intermediate of its ends, and a tube



of substantially less diameter than said pipe sections and disposed in the inlet section and coaxially thereof and having one end extending into the outlet pipe section.

2,319,132
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Walter R. Hood, New York, N. Y.
Application July 17, 1941, Serial No. 402,751
4 Claims. (Cl. 114—123)

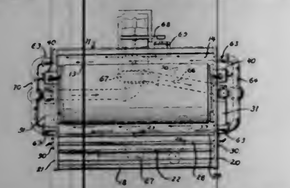


1. A safety water cradle boat having a hull with a float extended longitudinally along one side of said hull and a plurality of arms between said hull and float supporting said float on said hull, each of said arms being constructed of separate sections, comprising a stationary section having its inner end securely mounted upon the side of said hull, and adjustable section having its outer end securely mounted on the side of said float, and means for pivotally slidably connecting together the adjacent ends of said arm sections, whereby said float may be spaced a desired distance from said hull and pivot downwards to rest on the surface of the water in various positions of said hull on the water.

2,319,133
CROSS CURRENT CYLINDER TYPE PAPER-MAKING MACHINE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application October 19, 1939, Serial No. 300,118
6 Claims. (Cl. 92—43)

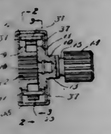
1. A cylinder type paper making machine comprising a vat, a curved wall in said vat defining a vat circle for a pond of stock, a feed box and making board for supplying stock to one end of the vat circle, a cylinder mold rotatably mounted in said vat circle to ascend at the feed box end thereof, means for draining white water from the interior of the cylinder mold, stock circulating

ducts communicating with the other end of vat circle through the front and rear side walls of the vat, a pipe line connecting said ducts, and a



stock circulating device in said pipe line for inducing a cross flow of stock in said other end of the vat circle remote from the feed box end and adjacent the descending side of the cylinder mold.

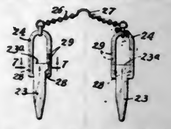
2,319,134
COUPLING
James P. Johnson, Shaker Heights, Ohio
Application August 14, 1940, Serial No. 352,556
5 Claims. (Cl. 64—27)



1. A flexible coupling comprising: a rotatable drive member having a pair of marginal recesses disposed on diametrically opposite sides; a rotatable driven member adapted for unitary rotation with said drive member and having a pair of marginal recesses disposed on diametrically opposite sides, the marginal recesses in one member being normally in longitudinal alignment with the marginal recesses in the other member; said members having a limited amount of oscillatory movement relatively; and flexible means drivingly connecting said members together for unitary rotation including, a pair of independent concentrically arranged resilient looped members, each having free ends spaced apart relatively, the free ends of one resilient member being disposed diametrically opposite to the free ends of the other resilient member, the free ends of both resilient members having pairs of lateral projections extending outwardly on opposite sides, the projections on one of said resilient members being operatively disposed in the adjacent marginal recesses in said drive and driven members while the projections on the other of said resilient members are operatively disposed in the diametrically opposite adjacent recesses in said drive and driven members to thereby effect a balance drive, the ends of the resilient members being prevented from relative separation by engagement between the projections and one of the walls of the recesses while affording yieldable approach.

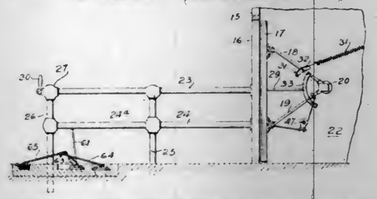
2,319,135
COLLAR STIFFENER
Felix A. Kaplan, New York, N. Y.
Application May 19, 1941, Serial No. 394,123
6 Claims. (Cl. 2—132)

1. In a collar stiffener having a pair of stiff strip members for insertion in pockets on the back faces of the points of a collar, a chain having its ends attached to the top ends of said strip members, each of said strip members comprising a plurality of strips of stiff material, and means for holding said strips in extended and retracted positions, one of said strips being in the form



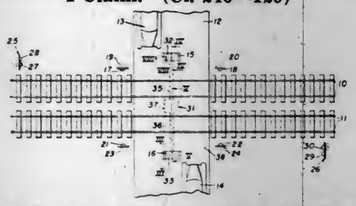
of an inverted U-shaped bracket into which the other of said strips is slidably mounted.

2,319,136
GARAGE DOOR OPERATOR
Sherman S. Karns, San Luis Obispo, Calif., assignor of one-fifth to Louis Rosenberg, San Luis Obispo, Calif.
Application August 7, 1940, Serial No. 351,745
4 Claims. (Cl. 268—37)



1. Door actuating mechanism as described comprising spring means adapted to open said door, spring means adapted to close said door and energize said first spring means, means adapted to be actuated by the movement of a motor vehicle to energize said second spring means, locking means for said second spring means when in energized condition, locking means for said door in open and closed position, and manually actuated control means adapted to release said door locking means whereby said second spring means will close said door, said control means adapted to release said second spring means and said door locking means whereby said first spring means will open said door.

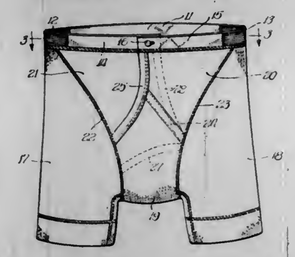
2,319,137
AUTOMATIC RAILROAD CROSSING SIGNAL
Otis Kitchen, Chicago, Ill.
Application June 12, 1940, Serial No. 340,110
1 Claim. (Cl. 246—129)



In a device of the character described, the combination with a roadway of predetermined width, there being a pit in said roadway on either side of railway tracks intersecting said roadway, rigid signal members mounted along a longitudinal median line of said roadway, said signal members characterized by a dimensional width that conforms to a fractional part of the roadway width to obstruct all lanes of vehicle travel except single outside edge lanes conforming substantially to the standard width of a vehicle, and hinged closure plates over the top opening of said pit, rollers depending from said hinged closure plates in the path of said rigid signal

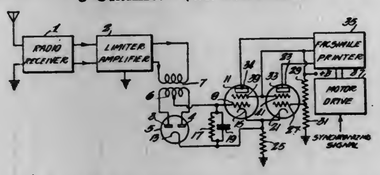
members to effect contact therewith for operation responsive to the vertical displacement of said rigid signal members.

2,319,138
UNDERGARMENT
Arthur R. Kneibler, Kenosha, Wis., assignor to Cooper's, Incorporated, Kenosha, Wis., a corporation of Wisconsin
Application May 15, 1942, Serial No. 443,081
12 Claims. (Cl. 2—234)



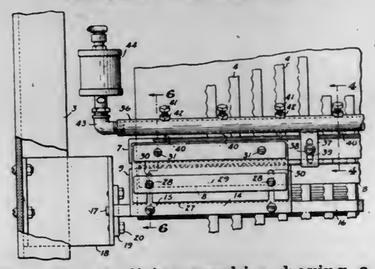
1. An undergarment of the class described, comprising front and rear body portions, a crotch portion and a divided waist band, the front body portion comprising right and left sections, one located upon each side of the waist band division, one of said sections overlying a part of the other, the overlying section being secured to the waist band and crotch portion, the underlying section being secured to the waist band and one side of the crotch portion and having an extension the end of which is secured adjacent the junction of the overlying section and the crotch portion, the intermediate portion of the extension lying below the crotch portion and free therefrom.

2,319,139
FACSIMILE SYSTEM
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1940, Serial No. 359,106
5 Claims. (Cl. 178—7.3)



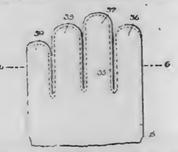
1. In a picture-transmitting system including a balanced output circuit and a pair of discharge devices each having an anode connected to said output circuit and each discharge device having a control electrode and a cathode, the combination of a resistor having a terminal to which is connected the cathode of both of said discharge devices, a floating detector circuit for applying a signal between the control electrode of one of said discharge devices and said terminal, and means to normally maintain the control electrode of the other discharge device at a predetermined potential so that signal energy applied between said terminal and the control electrode of the first discharge device is also applied between the control electrode of the other of said discharge devices and said terminal through said resistor.

2,319,140
LUBRICATING DEVICE FOR BREAD SLICERS
Arthur A. Kottmann and Fred Rohlfing, Davenport, Iowa, assignors, by mesne assignments, to The Bettendorf Company, a corporation of Maryland
Application May 28, 1941, Serial No. 395,618
10 Claims. (Cl. 146—88)



1. In a bread slicing machine having a pair of spaced pulleys and a series of flat endless cutter blades spaced apart and running over said pulleys, a wiper block extending longitudinally of a pulley, said block having an engaging face curved to conform to the periphery of the pulley and engaging the blades passing over the pulley, said block having a longitudinal channel opening to the curved face thereof and passages leading to said channel, a lubricant applying pad in said channel, and an oil supply conduit having valve controlled outlets for delivering oil to said passages.

2,319,141
KNITTED GLOVE AND METHOD OF MAKING
William J. Kuehnel, Sag Harbor, N. Y., assignor of one-half to John G. G. Merrow, New York, N. Y.
Application May 8, 1942, Serial No. 442,141
6 Claims. (Cl. 66—174)



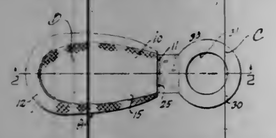
1. A glove formed from a tubular blank, comprising wrist, hand and finger portions, said finger portion being knit with the same number of wales but with more yarn than the hand portion, whereby said finger portion of the blank contains substantially more material than said hand portion, and fingers being formed by a line of stitching defining said fingers with the material between said fingers cut away.

2,319,142
METHOD OF PREPARING PHENOLIC RESIN COMPOSITIONS
Hans H. Lebach, Newark, Del., assignor to Haveg Corporation, Newark, Del., a corporation of Delaware
No Drawing. Application January 17, 1941, Serial No. 374,944
8 Claims. (Cl. 260—38)

1. In the preparation of a phenol-formaldehyde resin composition which is convertible into a hard infusible insoluble product upon the mixing of two components, one component being the

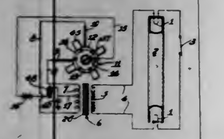
phenol-formaldehyde resin and the other being an acid-hardening agent, the method of determining the extent or uniformity of distribution of such acid-hardening agent in said resin which comprises incorporating with the mixture of said two components material which undergoes a distinct change of color dependent upon the mixing of said components.

2,319,143
SHOE PRESSURE PAD
David Levy and David Friedman, Chicago, Ill.
Application March 13, 1941; Serial No. 383,214
6 Claims. (Cl. 36—71)



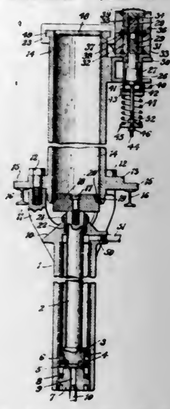
1. As an article of manufacture, an orthopedic pad for relief of shoe pressure upon affected foot areas comprising a pad portion proper, and an indicator portion extended therefrom for application against that portion of the shoe which overlies directly the affected foot area whereby to properly position the pad portion proper for the scientific relief of pressure from the affected foot area, said indicator portion being so connected to the pad portion proper as to be readily removable therefrom after it has served its purpose in locating the pad in proper position within the shoe.

2,319,144
GASEOUS DISCHARGE LIGHTING APPARATUS
Edmund G. Lodge, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application August 3, 1942, Serial No. 453,377
8 Claims. (Cl. 176—124)



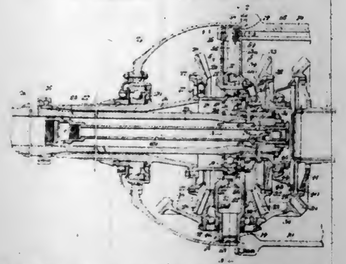
1. The combination with a gaseous discharge lamp provided with spaced filaments, of a transformer having its secondary coil connected to said filaments, the primary coil of the transformer having a center tap adapted to be connected to a source of direct current that is to be converted into alternating current, a pair of fixed electric contacts connected to the opposite ends of the primary coil, rotary contact means for connection to said source of direct current and adapted when rotating to make electrical contact with each of said fixed contacts alternately with a break between, a rotatable armature operatively connected to said rotary contact means for driving said means to interrupt the flow of direct current to each half of said primary coil alternately whereby said secondary coil supplies alternating current to said lamp filaments, and means for stopping said rotary contact means in electrical contact with one of said fixed contacts when the direct current to the primary coil is shut off to thereby assure self-starting of the armature when said current is turned on again.

2,319,145
BLOCKING PRESS
Evarts G. Loomis, Newark, N. J.
Application July 12, 1941, Serial No. 402,138
4 Claims. (Cl. 18—16)



1. In a press, a cylinder in which material is compressed, a ram movable in said cylinder, a cover against which the material is forced by the pressure of the ram, said cover comprising several segmental sections having edge portions in abutment and when in such abutment covering and closing the end of the cylinder, a movable piston, means for shifting said piston in one direction to cause the cover sections to be moved apart to uncover the end of the cylinder, means for moving the piston in an opposite direction to cause the cover sections to be brought together to close the end of the cylinder, and driving means interposed between the piston and said cover sections.

2,319,146
REDUCTION GEARING FOR AIRCRAFT PROPELLERS
Stanley Walter Mansell and Wilfrid Payne Holloway, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a company of Great Britain
Application January 30, 1942, Serial No. 428,962
In Great Britain February 17, 1941
2 Claims. (Cl. 74—389)



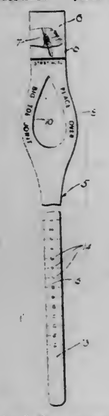
1. A fixed ratio reduction gearing for driving counter-rotating coaxial airscrews from an engine in an aircraft, comprising a stationary spider having a hub and a plurality of arms, a pair of coaxial nested airscrew-shafts of which the outer is journalled at one end to rotate in the hub of the spider, a pair of bevel-wheels arranged one on either side of the spider and secured one to each airscrew-shaft, a plurality of bevel-pinions each meshing with both of the bevel-wheels and each rotatable on a different arm of the spider, an additional bevel-wheel rotatable with each bevel-pinion, an engine-driven bevel-wheel coaxial with the airscrew-shafts and meshing with all the additional bevel-wheels, a radial and thrust bearing between the inner and outer airscrew-shafts at the end of the latter that is journalled in the hub of the spider, a cover for the gearing, a radial and thrust bearing supporting the outer airscrew-shaft and carried by the cover at a position spaced from the spider and a radial bearing carried by the inner airscrew-shaft beyond the end of the outer shaft that is remote from the spider and in position to engage the hub of an airscrew on the outer shaft.

2,319,147
AUXILIARY HANDLE
Ernest J. Mason, Marion, Ind.
Application August 27, 1941, Serial No. 408,535
2 Claims. (Cl. 16—114)



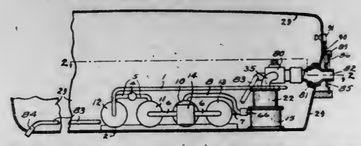
1. An auxiliary handle for a bail, including two substantially identical half handles, each having a longitudinal bore therethrough, the half-handles when associated together forming a complete bore for bail accommodation, each handle at one side of said bore axis and in the confronting face being provided with a locking tongue parallel to the bore and substantially coextensive with the handle, there being a complementary locking groove parallel thereto and the bore in that face and spaced equi-distant from the bore axis and at the opposite side thereof from said tongue, the tongue of one half-handle seating in the locking groove of the other half-handle.

2,319,148
MEASURING DEVICE
Lewis M. McCormick, Palo Alto, Calif., assignor to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York
Application June 30, 1941, Serial No. 400,447
1 Claim. (Cl. 33—3)



A device adapted for measuring a human foot in the region of the metatarsal arch which comprises a tape of a length to more than encircle the foot transversely, said tape having an intermediate portion defining an aperture adapted to receive the big toe joint of a human foot, a first end portion extending from one end of said intermediate portion adapted to extend over the top of the foot when the intermediate portion is fitted around the big toe joint and a second end portion extending from the other end of the intermediate portion adapted to be wrapped under and over the foot to overlie the first end portion, said second end portion being narrower than the first end portion, a base marking indicia on the first end portion adapted to project laterally beyond the second end portion when the latter is superimposed thereon, and a series of size indicia on the second end portion for cooperating with the base indicia to indicate the size of the foot portion being measured.

2,319,149
JET PROPULSION ENGINE
George R. Micuta, Seattle, Wash.
Application June 24, 1942, Serial No. 448,312
6 Claims. (Cl. 115—15)

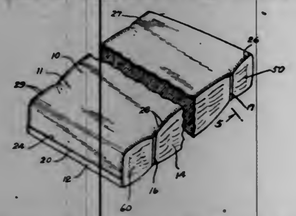


1. Jet producing means for marine propulsion comprising a base cylinder secured to a ship hull and having a bottom end portion open to the exterior of said hull; an upper cylinder of smaller diameter than said base cylinder rigid with the top end portion of said base cylinder and positioned coaxially thereof; a cylindrical core of smaller diameter than said upper cylinder supported coaxially within said upper cylinder and cooperating therewith to form an annular chamber, said core having a liquid outlet passageway; a propulsion jet tube connected with said passageway and extending to the exterior of the hull; a tubular sleeve reciprocable in said annular chamber; a piston head of larger diameter than said sleeve on the lower end portion of said sleeve and reciprocable in said base cylinder; a check valve controlling the liquid outlet passageway in said core; another check valve in said piston head yieldable to pressure on the bottom side of said head; and gas pressure inlet means connected with the upper end portion of said base cylinder adapted to admit gas under pressure above said piston head to the chamber surrounding said sleeve.

2,319,150
MATTRESS PROTECTOR
Isadore Mink, Brooklyn, N. Y.
Application May 9, 1940, Serial No. 334,272
2 Claims. (Cl. 5—354)

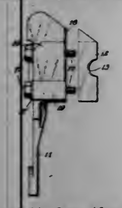
1. As a new article of manufacture, a mattress protector, for use with a mattress, comprising: a main protector element composed of a thin flexible substantially inelastic and waterproof sheet; a pair of auxiliary protector elements connected to the ends of the main protector element, said auxiliary protector elements being composed of woven textile material being substantially inelastic and having high resistance to abrasion; the combined length of the two auxiliary protector elements and the main protector element being longer than the length of said

mattress; the auxiliary protector elements being folded under the mattress; the two longitudinal edges of the main protector element and the auxiliary protector elements being turned inwardly



upon themselves to form edge hems; and a plurality of elastic retainer means connecting the four longitudinal edges of the auxiliary protector elements to the portions of the said hems on the main protector element lying thereabove.

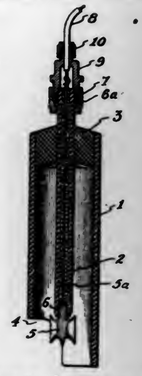
2,319,151
CONTACT JAW ELEMENT FOR THE POSITIVE CARBONS OF ARC LAMPS
Max Mokin, Brooklyn, N. Y.
Application November 8, 1941, Serial No. 418,304
1 Claim. (Cl. 314—129)



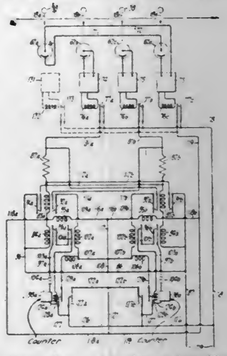
A contact jaw unit for the axially advancing positive carbon of an arc lamp, comprising a body portion having an integral part for introduction of the operating current to the body portion, and a replaceable jaw element of appreciably greater wearing properties than said body portion and of relatively small mass with respect thereto affording a complete bearing half for the carbon to contact the same and to transmit electric current substantially over one-half of its circumference, together with removable securing means passing through the body portion for rigidly holding the replaceable element to the said body portion, the respective bearing halves of two units being adapted for juxtaposition to enclose completely the carbon.

2,319,152
INSULATOR
Glen W. Neely, River Forest, Ill., assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio
Application March 17, 1941, Serial No. 383,669
6 Claims. (Cl. 174—138)

1. An insulator for the purpose described comprising a sleeve in the form of an elongated tube, a plug, and a hollow rod formed of laminated synthetic resinous material, assembled so that the plug closes one end of the sleeve, and the rod projects lengthwise into and substantially through the sleeve and passes through the plug and therebeyond, the fit of the plug in the sleeve and the rod in the plug being tight against leakage, said rod at its end within said sleeve having means whereby an electrode may be attached to it with a conductor from said electrode passing through said rod, said rod having means at its other end whereby a moisture-tight connection may be made between said rod and said conductor.



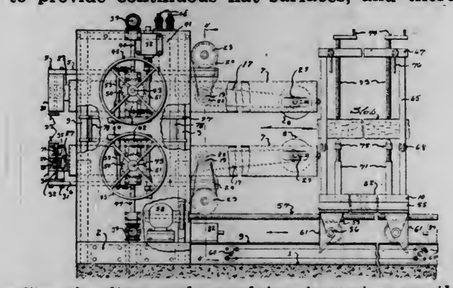
2,319,153
TRAFFIC COUNTER
George V. Nolde, San Francisco, Calif., assignor to Butte Electric Manufacturing Co., San Francisco, Calif., a corporation of California
Application April 12, 1940, Serial No. 329,283
4 Claims. (Cl. 235—92)



1. In a system for counting traffic or the like, a counter, a counter circuit, said circuit including normally closed contacts and normally open contacts, a counter controlling circuit including means for closing said normally open contacts and including another set of normally open contacts, a preparing circuit for closing said normally open contacts of said counter controlling circuit, said preparing circuit also including means for opening said normally closed contacts of said counter circuit, locking means associated with each set of normally open contacts to lock said contacts in closed condition, upon closing thereof, and means disposed in the path of traffic flow for first disabling said locking means, then enabling said preparing circuit, for subsequently enabling said counter controlling circuit, and for thereafter again disabling said locking means.

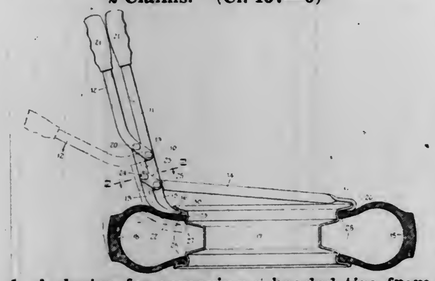
2,319,154
APPARATUS AND METHOD FOR BREAKING SLABS OF STONE
Ernest M. Orlow, Lannon, Wis.
Application January 8, 1940, Serial No. 312,963
8 Claims. (Cl. 125—23)

1. The method of breaking slabs of stone having irregular top and bottom faces into blocks of predetermined size and shape consisting of, first rutting the opposite rough faces of a slab in the same vertical plane to a depth sufficient to provide continuous flat surfaces, and there-



after simultaneously applying impact upon the flat beds of the opposite ruts throughout their entire length in a directional plane common to both ruts to transversely break the slab on the common plane of said upper and lower ruts.

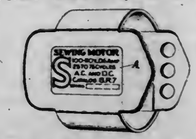
2,319,155
TIRE REMOVER
Patrick F. Passanante and Frank Santagata, Brooklyn, N. Y.
Application July 24, 1941, Serial No. 403,792
2 Claims. (Cl. 157—6)



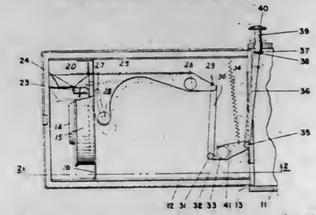
1. A device for removing a beaded tire from a mounting rim, comprising a lever having a handle thereon, the free end thereof being provided with a curvedly pointed element, a second lever having a handle thereon and pivotally related to said first-named lever, said second-named lever having a curved formation at its pivoted end, a third lever pivotally secured to said first and said second-named levers and having a curvedly pointed element disposed immediately adjacent said first-named pointed element, and a hook member pivotally secured to said first-named lever.

2,319,156
PROCESS OF INLAYING AND MOLDING ARTICLES
Kenneth Perkins, Scotch Plains, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 23, 1940, Serial No. 315,866
5 Claims. (Cl. 18—61)

1. Method of inlaying a plate having opening in a moulded article which consists in placing a thin tape coated with a resin carrying a pigment on the face of the plate which is to become invisible and over selected ones of the openings of the plate, subjecting the plate and tape to heat to cause them to adhere, assembling the plate with the tape adhering thereto in a mould with a thermo-setting compound and subjecting the assembly to heat and pressure until all of the parts are united and the pigmented-resin flows into the selected openings.

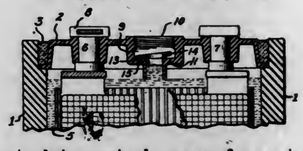


2,319,157
SHUTTER RELEASE FOR FOLDING CAMERAS
John K. Polhemus, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application May 7, 1941, Serial No. 392,244
5 Claims. (Cl. 95—53)



1. A folding camera having a body, a bed hinged to said body for movement between open and closed positions, a camera front and lens movable between a retracted position when said bed is closed and an extended picture-taking position near the front of said bed when the bed is open, a shutter and shutter operating lever on said camera front, an actuating linkage mounted on said bed and operably engaging said shutter operating lever when the camera front is extended over said bed, a shutter release member mounted in a wall of said body near the camera bed hinge axis and movable parallel to said axis, and a single floating link pivotally connected to said release member and to said actuating linkage for transmission of the movement of the body release member through the actuating linkage to the shutter operating lever.

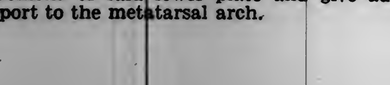
2,319,158
ELECTROLYTE CONTROL DEVICE
Oliver O. Rieser, Oak Park, Ill., assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio
Application September 26, 1939, Serial No. 296,667
5 Claims. (Cl. 136—178)



1. Electrolyte control means for a storage battery, comprising a cell cover having a filler opening in the form of a well, a tubular member of less internal diameter than the bottom of the well depending therefrom, the said bottom of the well having a gas vent perforation exterior to said tubular member, a weight operated fulcrum valve member cut away to permit filling through said tubular member, and adapted to cover said perforation by gravity, said valve having a por-

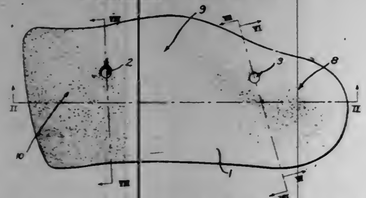
tion extending above the fulcrum when said valve is in gravity-actuated position, means for preventing the sidewise displacement of said valve member with respect to said perforation, and operating means for said valve member comprising a vented filler cap having a portion adapted to be engaged in said filler opening, and a relatively long, downward projection on said portion of substantially less volume than said portion, and so located as to engage said valve and rock it on its fulcrum when said filler cap is being engaged in said filler well, whereby said filler cap may operate said valve before said portion of said filler cap enters said well to an extent to cause substantial displacement of any liquid which may be in said well.

2,319,159
GAME BOARD
Vicente Salomon, Rochester, N. Y.
Application July 30, 1941, Serial No. 404,714
2 Claims. (Cl. 273—130)



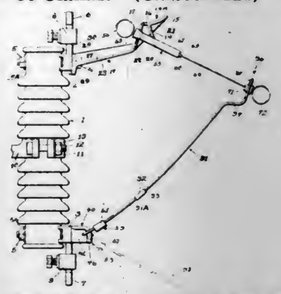
1. A game board of shell-like formation, comprising a top sheet and depending side and end flanges constituting walls and forming an interior chamber open at the bottom, said top sheet being provided with depending pockets terminating short of the plane of the lower edges of the flanges to provide a leg receiving space and resilient folding supporting legs of approximately U-shape pivoted within said chamber to the side walls thereof and having sufficient resiliency to frictionally engage the side walls of said chamber for retaining the legs in their folded position within said chamber, said legs being located in the space below the depending pockets and above the lower edges of said flanges.

2,319,160
ARCH SUPPORT
William M. Scholl, Chicago, Ill.
Application April 11, 1940, Serial No. 329,015
3 Claims. (Cl. 36—71)



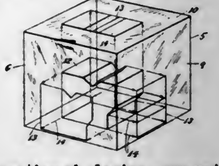
1. In an arch support, a flexible cover, a pair of superposed arched spring plates attached together and to said cover, said plates being free from each other at their forward ends to permit relative movement therebetween, the cover and plates being shaped and disposed to provide a rise for the longitudinal arch, a heel seat, and a metatarsal arch supporting region, said cover being split along its outer and rear portion, a wedge-shaped cushioning lift inserted in said split, a guard member marginally attached to the underface of said cover at the forward end to provide a pocket for the reception of the forward ends of said plates, and a protecting element disposed between said guard member and the forward edge of the lower of said plates to permit sliding movement of said lower plate and give added support to the metatarsal arch.

2,319,161
COMBINED FUSE CUTOUT AND DISCONNECT SWITCH
William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware
Application July 20, 1940, Serial No. 346,571
30 Claims. (Cl. 200—114)



1. A combined fuse cutout and disconnect switch comprising a supporting structure, spaced contact members mounted on said structure, one of said members including a contact head and a pair of catches associated therewith and the other of said members being adapted to be moved into direct contact with said one member and provided with pairs of electrical conducting portions, one of said pairs functioning in electrical relation with said head either as an electrical conductor for a predetermined current or as a conductor for an undetermined current when interlocked with said catches.

2,319,162
EDUCATIONAL DEVICE
Vernon Roxor Short, Westbrook, Conn.
Application July 16, 1940, Serial No. 345,758
3 Claims. (Cl. 35—26)



1. An educational device comprising a hollow cube-shaped structure having transparent walls with the surface of each of said walls adapted to represent a plane of projection, an object mounted within said structure and visible through said walls; the surface of each of said walls having a drawing thereon representing the view of said object as seen from a position in a direction perpendicular to the plane of projection represented by each representative wall surface.

2,319,163
METHOD OF MAKING CORELESS GOLF BALLS
David George Slovin, Providence, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 3, 1940, Serial No. 368,282
10 Claims. (Cl. 154—19)

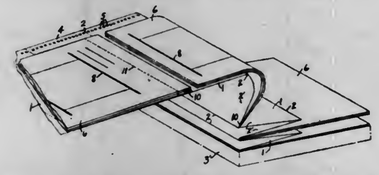
9. The method of making playing balls comprising filling a spherical elastic container with a fluid capable of being solidified by freezing, freezing the filled container, winding rubber strands around the pellet thus produced under substantial tension to provide a layer of substantial thickness of wound strands, fluidifying the frozen fluid, puncturing the container, and permitting the fluid to escape from the container and the winding and the winding to contract and collapse the container centrally within the contracted winding.



2,319,164
PLASTIC PRODUCT AND PROCESS
Chester Snyder, Yonkers, N. Y., assignor to Liatex Corporation, New York, N. Y., a corporation of New York
No Drawing. Application December 5, 1940, Serial No. 368,623
11 Claims. (Cl. 260—94)

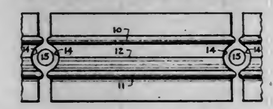
1. The process which comprises heating together terpin hydrate and plastic polymerized isobutene sufficiently to cause evolution of water vapor.

2,319,165
CONTINUOUS RECORD ASSEMBLY
George Emerson Sornberger, Sanborn, N. Y., assignor to American Sales Book Company, Inc., Niagara Falls, N. Y., a corporation of Delaware
Application November 29, 1941, Serial No. 421,011
11 Claims. (Cl. 282—11.5)



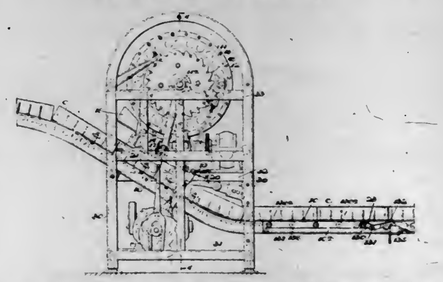
1. In a record assembly, in combination, a long continuous traveler carrier strip adapted for forward travel in a writing or like machine, said carrier strip being zigzag folded into a pack along transverse fold lines forming a series of carrier strip sections, a series of record units having substantially at their forward marginal portions connections respectively with certain of said carrier strip sections, each carrier strip section immediately following each said section with attached record unit being vacant or free of corresponding record unit attachment so as to promote automatic refolding of said carrier strip and record units into a zigzag pack upon emergence thereof from said machine.

2,319,166
BUILDING UNIT
Wellington H. Spaulding, West Hempstead, Long Island, N. Y.
Application July 5, 1940, Serial No. 344,141
12 Claims. (Cl. 72—37)



1. A wall construction including in combination, a plurality of building units laid in a bonding material, each of said units having one or more pairs of spaced continuous barriers or projections extending over the horizontal and end faces of said units defining joints with opposite faces of adjacent units, channels or grooves each located between the barriers or projections constituting a pair, and positioned opposite each other, and dams located in the spaces formed by said opposed channels and embedded in the bonding material interposed between said end faces.

2,319,167
CASING MACHINE
Robert J. Stewart, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application November 10, 1941, Serial No. 418,613
10 Claims. (Cl. 226—14)



1. In a casing machine, article delivery means, article moving means to move articles in a path, a drive motor for said article moving means, a switch responsive to the presence of articles on said article delivery means, a switch responsive to the presence of articles in the path of the article moving means, a running control circuit for the drive motor including only the first-named of said two switches, and a starting circuit including both of said switches.

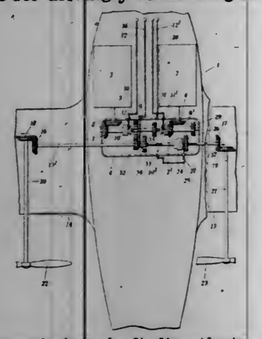
2,319,168
MANUFACTURE OF TEXTILE FIBERS
John Bamber Speakman, Far Headingley, Leeds, England, assignor to Cefoil Limited, Maidenhead, England, a British company
No Drawing. Application August 1, 1941, Serial No. 405,071. In Great Britain June 12, 1940
7 Claims. (Cl. 18—54)

1. In the manufacture of alginic textile fibers bringing the alginic fibers into the condition in which the alginic radical is combined with chromium so that the product is resistant to alkali.

2,319,169
AIRCRAFT
René Tampier, Cricklewood, London, England
Application July 18, 1940, Serial No. 346,196
In Great Britain April 25, 1940
2 Claims. (Cl. 244—60)

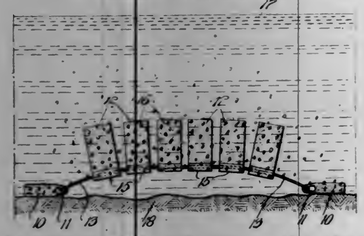
1. In an aircraft having a plurality of propellers, a plurality of power plants for driving the propellers, a driving shaft and operator controlled means to couple said driving shaft selectively to all or any selected one of said power plants, the combination of a transmission shaft comprising several parts each drivingly connected with one of said propellers, operator controlled means whereby all the parts of said transmission shaft can be drivingly connected with or disconnected from one another, a gear for coupling one part

of said transmission shaft to said driving shaft, and means for drivingly connecting another part



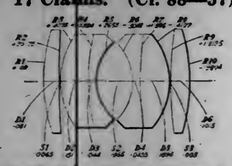
of said transmission shaft directly to one of said power plants.

2,319,170
OYSTER SPAT COLLECTOR
Royal Toner, Garden City, N. Y.
Application July 5, 1941, Serial No. 401,221
3 Claims. (Cl. 119—4)



1. An oyster spat collector of the character described comprising a plurality of flat members each having a substantially straight edge, said members being adapted to be placed in a body of water and having a coating enabling spat to attach itself to the same, cord-like means longitudinal of each said straight edge, each said member being secured to said means and the member being held next the ends of said edge for preventing said edge from twisting away from said means, said members being situated successively along and projecting laterally from said means, and anchor means for retaining said members submerged.

2,319,171
OPTICAL OBJECTIVE
Arthur Warmisham and Charles Gorrie Wynne, Leceister, England, assignors to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application December 15, 1941, Serial No. 423,118
In Great Britain December 2, 1940
17 Claims. (Cl. 88—57)

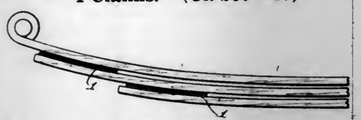


1. An optical objective corrected for spherical and chromatic aberrations, coma, astigmatism, field curvature and distortion, and having small zonal spherical aberration, and comprising at least two divergent elements and at least two convergent elements in axial alignment, one of the divergent elements being made of an alkaline halide crystal whilst all the other elements of the objective are made of optical glass . . . , the objective approximately fulfilling the two equations

$$\sum \frac{m^2_p}{f_p} \cdot \frac{1}{\nu_p} = 0 \text{ and } \sum \frac{m^2_p}{f_p} \cdot \frac{\theta_p}{\nu_p} = 0$$

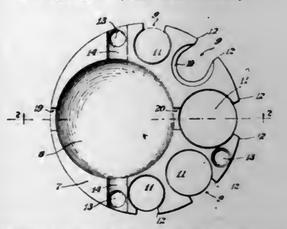
wherein m_p, f_p ν_p and θ_p respectively represent the magnification, the focal length, the Abbé ν number and the relative partial dispersion of an element p of the objective and the symbol Σ indicates algebraic summation of the expressions for all the elements of the objective.

2,319,172
SPACING DEVICE FOR FRICTIONALLY OPPOSED BODIES
John Warren Watson, Wayne, Pa., and Kenneth W. Hildenbrand, Monroe, Mich., assignors to John Warren Watson Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 11, 1940, Serial No. 339,954
4 Claims. (Cl. 267—47)



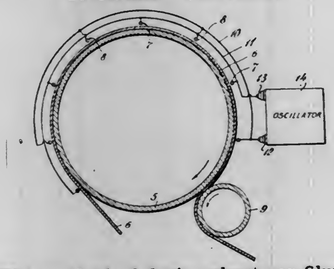
1. For positionment between two frictionally opposed members for controlling the friction therebetween, an impregnated fibrous spacing device provided with an integral, drawn and preformed projection for anchoring said device with relation to one of said members, said projection having its wall portions substantially at right angles to said device.

2,319,173
ASH TRAY AND TOKEN HOLDER COMBINATION
Frank L. Weiss, New York, N. Y.
Application July 7, 1939, Serial No. 283,135
1 Claim. (Cl. 131—235)



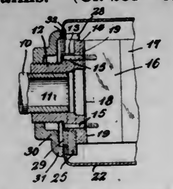
In a combination token and ash holder formed in a plurality of sections, means acting as a supporting leg, as a cigar snuffer and as a detent to hold said sections in a predetermined stacked relationship, said means including a member having a hollow part, said member projecting downwardly from the base of each section, the hollow part being closed at the bottom and open at the top, the exterior of said member being so dimensioned as to fit snugly within the interior of a similar member upon another section when the other section is stacked below the first section, and so as to act as a detent between said sections, the hollow interior of said part acting as a snuffer and said member also acting as a supporting leg when said sections are separated, each section being additionally provided with shallow depressions each having a substantially flat bottom, upon a portion of the surface thereof and in line with one another and also including a single relatively narrow strip of substantially flat, resilient material formed of a width corresponding to the width of said depressions so as to fit at least partly therewithin when said sections are stacked, said strip being formed in a U-shape having the respective legs of the U pressing upon the outside surface of the top and bottom sections of a stack and having the cross portion of the U lying along the sides of all the sections when stacked, said strip also including an integral portion bent backward so as to project into free space and constitute a handle for the stack of sections.

2,319,174
METHOD OF AND APPARATUS FOR PRINTING
Mitchell Wilson, New York, N. Y., assignor to Fred'k H. Levey Co., Inc., New York, N. Y., a corporation of New York
Application June 23, 1942, Serial No. 448,166
10 Claims. (Cl. 34—1)



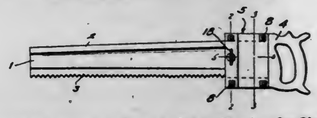
1. The method of drying sheets or films which comprises moving the sheet or film to be dried in an arcuate path, setting up an electrostatic field unaccompanied by corona discharge by connecting spaced electrodes to a source of high frequency alternating current of electricity, which electrodes are positioned at one side of and sufficiently close to said arcuate path that a straight line extending from one electrode to the other is substantially tangent to said arcuate path, whereby the sheet or film to be dried passes through the portion of the electrostatic field of highest voltage gradient.

2,319,175
FIXTURE MOUNTING
Alva B. Winters, Chicago, Ill., assignor to Revere Electric Manufacturing Co., Chicago, Ill.
Application January 23, 1943, Serial No. 473,376
3 Claims. (Cl. 285—6.5)



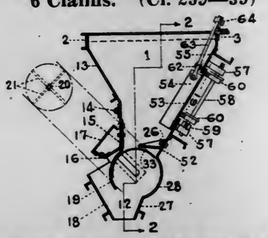
1. A mounting of the character described comprising a base element interiorly apertured and constructed to engage upon a conduit element, and having a lateral flange, a radially slotted collar constructed to engage slidably around the base element inwardly of the flange, centering means coengaging between the collar and flange when pressed together and having clearing relation when the collar and flange are spaced, and a clamping nut on the base inwardly of the collar and having parts alined with the outer part of said collar for clamping of an interposed piece to be mounted having an opening larger than said flange.

2,319,176
SAW
John B. Wright, Lovingston, Va.
Application December 18, 1942, Serial No. 469,485
3 Claims. (Cl. 145—31)



1. A saw comprising a handle including a rectangular front head provided therein with a forwardly opening chamber, a saw blade having a rear end portion disposed in said chamber for lateral flexing therein and edge portions slidably mounted in said head at opposite sides of the chamber for movement to compensate for such flexing, and means to flex said portion comprising a shaft slidably extended through said head, chamber and portion transversely thereof and adjustable endwise in opposite directions to correspondingly flex said portion, and manipulative means to adjust said shaft.

2,319,177
DISCHARGING HOPPER
Paul Wright, Birmingham, Ala.
Original application November 22, 1939, Serial No. 305,683. Divided and this application January 18, 1941, Serial No. 374,980
6 Claims. (Cl. 259—39)

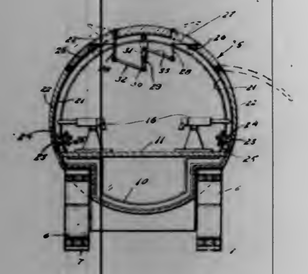


1. In a feed hopper, a side wall having an oscillatory portion, roller means for supporting said side wall portion, ribs on said side wall portion arranged for engaging materials received in said hopper, and means for oscillating said side wall portion in a direction parallel to the side wall, thereby actuating the discharge of said materials from the hopper.

2,319,178
MILITARY TANK
Frank S. Wrona, Aurora, Ill.
Application September 18, 1940, Serial No. 357,311
1 Claim. (Cl. 98—2)

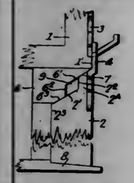
In an armored tank of the character described, a body having in the top thereof parallel rows of ventilating openings, vertically swingable closure plates for said openings, an operating shaft rotatably mounted in said body inter-

mediate said rows of openings, bearing means for supporting said shaft in said body, arms depending from the closure plates at their hinged edges, arms projecting radially from the shaft



in opposite directions, and links pivotally connecting the arms of the plates with the arms of the shaft for simultaneously moving all of said plates to either opened or closed position, optionally.

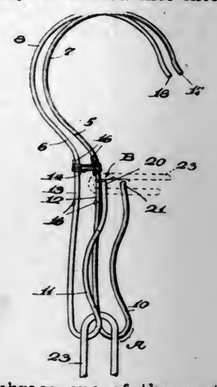
2,319,179
WINDOW FRAME AND OUTER SASH
Edmund Lomax Cridge, Passaic, N. J.
Application December 15, 1939, Serial No. 309,380
2 Claims. (Cl. 20—55)



1. A window structure comprising a frame, upwardly inclined bracket members secured to the upper, outer surface of said frame, each of said bracket members having an outer vertical lip, a strip attached to said frame inwardly of and adjacent to said bracket members, said strip having a pair of inclined surfaces parallel to said bracket members and offset from each other by a vertical surface, said outer inclined surface being uppermost, a sash having hanger members attached to its upper, outer surface and coacting with said bracket members, the upper edge of said sash having a pair of surfaces inclined parallel to said bracket members and separated by a vertical surface, the outer inclined surface of said sash being above the inner surface.

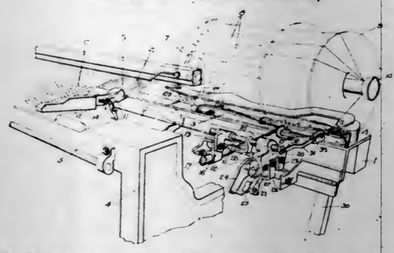
2,319,180
COUPLER OR HOOK
Albert J. Gore, Washington, D. C.
Application November 30, 1942, Serial No. 467,419
6 Claims. (Cl. 24—236)

1. A coupler or interlocking device of the character described for connecting two parts, comprising two similarly bent wire-like members each having two hook portions, loose connecting means near the central parts of said members to permit said members to move relatively to each other, at least one pair of said hooks terminating in outwardly bent ends whereby the hooks and ends may be twisted into interlocking posi-



tion and embrace one of the parts to be connected.

2,319,181
FILLING END PARTING MECHANISM
Edward C. Nichols, Upton, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application February 25, 1941, Serial No. 380,505
8 Claims. (Cl. 139—263)



8. In an automatic filling replenishing loom of the type incidently forming incoming and outgoing filling ends, the combination of means for parting the incoming and outgoing filling ends adjacent the cloth selvage, means for parting the outgoing filling end adjacent the outgoing filling carrier, stationary means for parting the incoming filling end at the replenishing mechanism, and means constructed and arranged to cooperate with said parting means to part said incoming filling end a plurality of picks after formation thereof by moving said filling thread into engagement with said parting means.

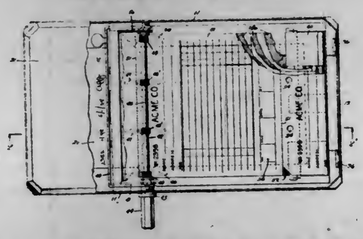
2,319,182
MOLDED ARTICLE
Edward Van der Pyl, Holden, Mass., assignor to Agicide Laboratories, Inc., Racine, Wis., a corporation of Delaware
No Drawing. Application November 16, 1938, Serial No. 240,792
12 Claims. (Cl. 106—200)

1. An article of manufacture made of a resin-like substance comprising essentially a raw thermoplastic comminuted nut shell material consolidated by thermoplastic flow and shaped as a dense coherent body with heat sufficient to soften its resin content and held together by the cohesion of the resinous ingredients of the shell material.

2,319,183
PERCHLOROMETHYL MERCAPTAN REACTION PRODUCT
Darwin E. Badertscher and Henry G. Berger, Woodbury, and Francis M. Seger, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application January 16, 1940, Serial No. 314,046
7 Claims. (Cl. 260—399)

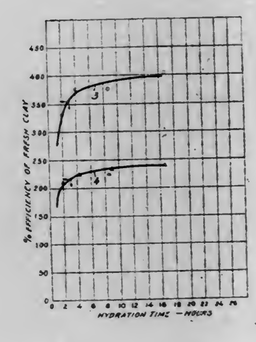
1. As a new composition of matter, the product obtained by reacting perchloromethyl mercaptan with an unsaturated organic material, said reaction product containing chlorine and sulfur.

2,319,184
MANIFOLDING REGISTER AND METHOD
William G. Borchers, Hoboken, N. J., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Application September 28, 1940, Serial No. 358,903
10 Claims. (Cl. 282—5)



10. In a manifolding register, a supply of stationery comprising a plurality of superposed continuous manifolding strips, the upper strips being transversely divided into a series of form lengths and having marginal and intramarginal feed-arresting, form-registering apertures in each form length, and the lowermost strip being relatively narrower than the upper strips and terminating transversely short of said marginal apertures, but extending over the intramarginal apertures; a platen for supporting the strips; a main feeding means comprising a pair of feed disks carried by a rotary shaft for advancing the upper strips over the platen, said feed disks being aligned with said marginal apertures and cooperating therewith to interrupt strip advancement during each form-length feeding operation to align the superposed form lengths of said upper strips before a severing line between successive form lengths reaches a predetermined position on the machine; and restarter means on the rotary shaft comprising a feed shoe for engaging the lowermost strip to advance all of the upper strips beyond the bite of the main feeding means and being carried by said shaft in alignment with the intramarginal apertures in the upper strips and cooperating with the intramarginal apertures thereof to interrupt advancement of the upper strips a second time during each form-length feeding operation for accurately registering the form lengths of the upper strips in transverse and longitudinal direction, the disks of said main feeding means having cutaway portions for temporarily releasing the upper strips during engagement of the last-named means with said intramarginal apertures in the upper strips, said shoe having a strip-engaging face of a length coextensive with the required movement of the lowermost strip and advancing the same a predetermined distance less than a form length for each rotation of the shaft.

2,319,185
CLAY ACTIVATION
John A. Crowley, Jr., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application October 17, 1939, Serial No. 299,796
5 Claims. (Cl. 252—277)



1. The method of treating roasted adsorbent clay that has been regenerated and is substantially free of carbonaceous matter, in order to increase its refining efficiency for carbonaceous products, which comprises hydrating the roasted adsorbent clay by treating the clay under hydrating conditions in contact with sufficient water in the liquid state to effect the desired hydration with only said liquid water, said water being heated to at least about 275° F. but maintained under sufficient pressure to keep it substantially entirely in liquid phase, thereby substantially increasing the efficiency of the clay, said hydration of the clay being effected in the substantial absence of steam and while substantially maintaining the structure of the clay.

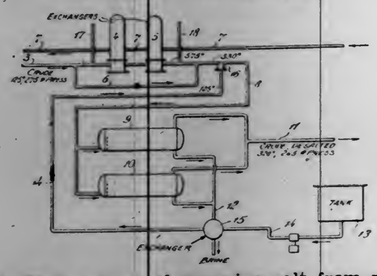
2,319,186
MILK PRODUCT
James D. Ingle, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 16, 1939, Serial No. 262,285
14 Claims. (Cl. 99—56)

1. As an article of manufacture, a food product comprising a dried mixture of normal skimmed milk and skimmed milk which has been completely digested with a proteolytic enzyme.

2,319,187
CHEESE EMULSIFICATION
James D. Ingle, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 30, 1939, Serial No. 301,944
13 Claims. (Cl. 99—115)

1. In the method of processing cheese the steps which comprise adding to and incorporating in cheese a small quantity of a substance selected from the group consisting of ammonium metaphosphate, diammonium disodium pyrophosphate, and mixtures of these salts, and pasteurizing the mass.

2,319,188
PROCESS FOR DESALTING CRUDE
Dana S. Mellett, Upper Darby, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application August 22, 1940, Serial No. 353,622
6 Claims. (Cl. 252—348)



1. That process of removing salt from petroleum oils which comprises, finely dispersing water into the oil, raising the temperature of the dispersed water while in contact with the oil to a value well above the boiling point of water under the pressure existing at the time of heating to secure a fine dispersal of steam in said oil, then cooling the mixture to secure condensed water finely dispersed in said oil, and then settling and separating said water plus salt or salt brine from said oil at an elevated temperature.

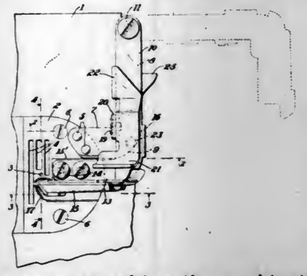
2,319,189
MINERAL OIL COMPOSITION AND IMPROVING AGENT THEREFOR
Orland M. Reiff, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 19, 1940, Serial No. 330,532
16 Claims. (Cl. 252—48)

1. An improved mineral oil composition comprising a mineral oil having admixed therewith in minor proportion an oil-miscible condensation product characterized by at least two aromatic nuclei, each of which is substituted with at least one oil-solubilizing alkyl group and with at least one aliphatic carboxylic acid group wherein the carboxyl hydrogen is substituted with metal, the said characterizing nuclei being interconnected by at least one atom of an element selected from the group consisting of sulfur, selenium, and tellurium.

2,319,190
MINERAL OIL COMPOSITION
Orland M. Reiff, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 20, 1940, Serial No. 330,694
10 Claims. (Cl. 252—48)

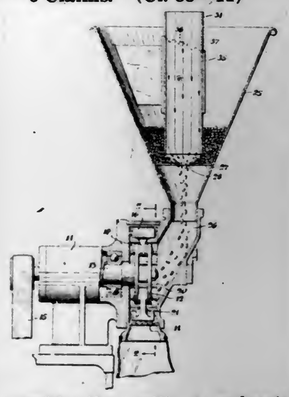
10. An improved mineral oil composition comprising a mineral oil having admixed therewith in minor proportion an oil-miscible condensation product characterized by at least two aryl nuclei, each of which is substituted with at least one alkyl group and with at least one ether carboxylic acid group wherein the carboxyl hydrogen is substituted with metal, the said characterizing nuclei being interconnected by at least one atom of an element selected from the group consisting of sulfur, selenium, and tellurium, the said alkyl substituents being aliphatic hydrocarbon groups of at least twenty carbon atoms.

2,319,191
ATTACHMENT HOLDER FOR SEWING MACHINES
Rudolph J. Sailer, Townley, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 3, 1941, Serial No. 413,433
7 Claims. (Cl. 112—136)



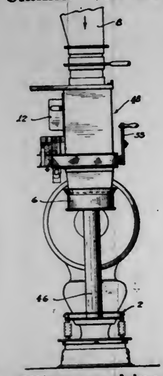
2. In a sewing machine, the combination with a detachable throat-plate having a needle-hole and a closed-bottomed pocket, of a work-guiding element removably received in said pocket, and means for supporting said work-guiding element on the throat-plate and in the pocket of said throat-plate comprising a horizontal supporting arm fixed to the throat-plate, a bracket carrying said guide and swingable in a plane oblique to the throat-plate and pivoted at one end to said supporting arm, and latching means including a spring-pressed lever having a handle portion positioned closely adjacent said work-guiding element and carried by the swingable bracket for automatically and releasably engaging the fixed supporting arm when said bracket and arm are substantially in register.

2,319,192
PULVERIZING MILL
William M. Sheldon, Elizabeth, N. J., assignor to Louis Ruprecht, Montclair, N. J.
Application July 21, 1941, Serial No. 403,293
6 Claims. (Cl. 83—11)



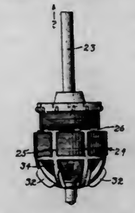
2. The combination with a pulverizing mill comprising a high speed rotor having a plurality of circumferentially spaced beaters mounted within a chamber having a feed opening adjacent the axis of rotation of the rotor and having outlet openings in its peripheral wall for the discharge of the pulverized material; of means for supplying material to be pulverized to the feed opening of the mill at a controlled rate comprising a hopper for receiving the material to be pulverized having a bottom with a discharge opening therein, means providing a suction passage leading from said discharge opening to the feed opening of the mill chamber, and means providing an air inlet pipe extending into the hopper the outlet end of which is substantially larger than said discharge opening and is positioned directly over said opening and spaced from the hopper bottom sufficiently to permit material to pass beneath it.

2,319,193
FILLING AND SCALING DEVICE
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application September 15, 1939, Serial No. 295,153
12 Claims. (Cl. 249—63)



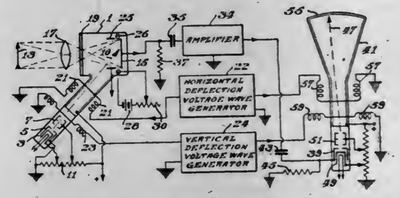
1. In a bag filling machine, a hopper, a discharge tube for the hopper, and a valve in the tube comprising a pair of shafts mounted rotatably within the tube, one of the shafts extending outwardly of the tube, a valve plate secured to each of the shafts within the tube, means urging the valve plates into closed position, a disk securely mounted on the outwardly extending shaft exteriorly of the tube, an arm secured to one face of the disk, a second disk secured to the opposite face of the first disk, a tooth on the second disk, a dog operatively associated with the arm, the arm and dog being adapted to maintain the valve plates in open position, a latch hook operatively associated with the second disk, the tooth and latch hook being adapted to maintain the valve plates in partially closed position, means for maintaining the dog in engagement with the arm and solenoid means for maintaining the latch hook in engagement with the tooth.

2,319,194
ELECTRIC MOTOR
Joseph Youhouse, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application December 5, 1941, Serial No. 421,805
14 Claims. (Cl. 171—252)



5. In a device of the type described, a rotating wire-wound armature, a substantially dome-shaped shield having means for frictionally engaging said armature and mounting the shield thereon for rotation therewith, said shield surrounding the windings projecting from one end thereof; and a plurality of air-impelling blades carried by said shield, said shield having apertures therein exposing the major portion of the windings whereby the air may contact and cool said windings.

2,319,195
IMAGE REPRODUCER
George A. Morton, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 28, 1940, Serial No. 358,752
3 Claims. (Cl. 178—6.8)

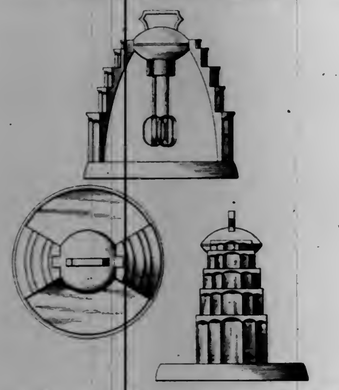


1. In combination, an envelope containing an electrode and having a window to pass infra red rays to said electrode, means for generating an organic vapor in said envelope to deposit on said electrode a coating whose thickness depends upon the intensity of said infra red rays, and means in said envelope for producing an electron beam to scan said electrode to produce a train of signals representative of the intensity of said rays.

DESIGNS

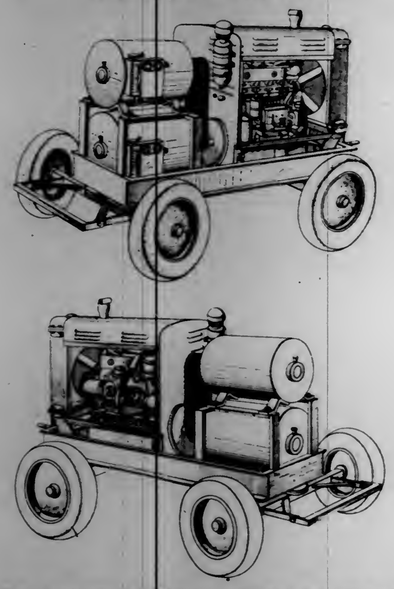
MAY 11, 1943

135,647
DESIGN FOR A FOOD MIXER
Walter J. Burford, Baltimore, Md.
Application August 31, 1942, Serial No. 108,076
Term of patent 7 years



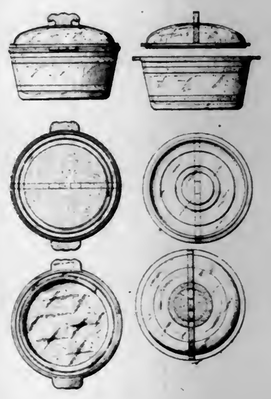
The ornamental design for a food mixer, as shown.

135,648
DESIGN FOR AN ENGINE-DRIVEN PLURAL-ELECTRIC-GENERATOR POWER SET
Claude J. Holslag, South Orange, N. J., assignor to Electric Arc, Inc., Newark, N. J.
Application June 3, 1942, Serial No. 107,093
Term of patent 14 years



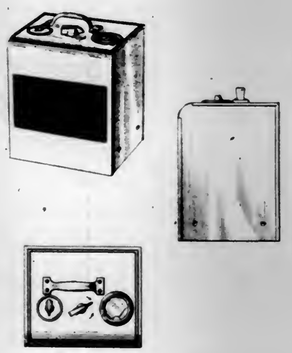
The ornamental design for an engine-driven plural-electric-generator power set, as shown.

135,649
DESIGN FOR A CASSEROLE
Thomas Kapner, Bellaire, Ohio, and David Kamenstein, New York, N. Y.
Application December 31, 1942, Serial No. 109,174
Term of patent 3½ years



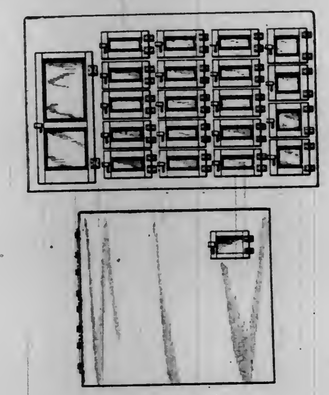
The ornamental design for a casserole, as shown.

135,650
DESIGN FOR A BATTERY CHARGER
Charles G. Sherman and William P. Ryan, Kansas City, Mo., assignors to C. Earl Hovey, Kansas City, Mo., as trustee
Application December 18, 1941, Serial No. 104,698
Term of patent 7 years



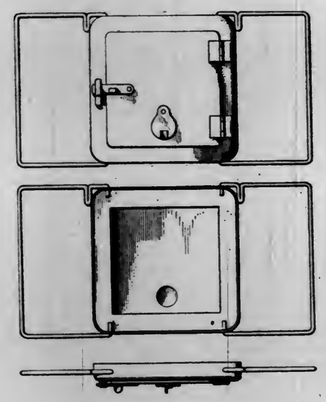
The ornamental design for a battery charger, as shown.

135,651
DESIGN FOR A REFRIGERATOR CABINET
Peter Vassallo, Avalon, N. J.
Application February 24, 1943, Serial No. 109,619
Term of patent 14 years



The ornamental design for a refrigerator cabinet, as shown and described.

135,652
DESIGN FOR A FRONT DOOR PANEL FOR CAMP STOVES
Avery M. Cochran, United States Army, Colorado Springs, Colo.
Application October 9, 1942, Serial No. 108,479
Term of patent 3½ years



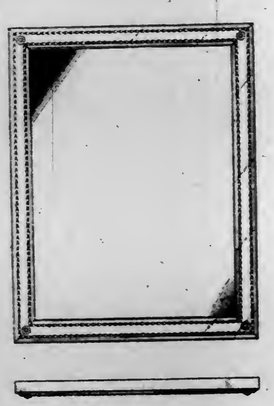
The ornamental design for a front door panel for camp stoves, as shown.

135,653
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Samuel L. Hirson, Los Angeles, Calif.
Application April 8, 1943, Serial No. 109,927
Term of patent 3½ years



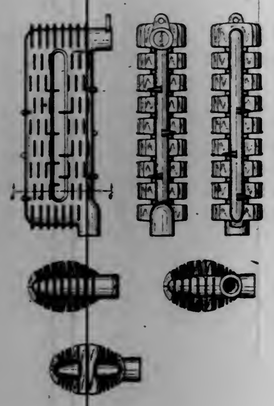
The ornamental design for a brooch pin or similar article, substantially as shown.

135,654
DESIGN FOR A CABINET DOOR
Adolph Marchand, Jackson Heights, N. Y.
Application July 19, 1941, Serial No. 102,286
Term of patent 7 years



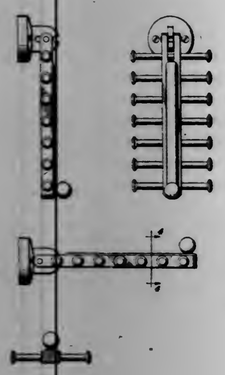
The ornamental design for a cabinet door, as shown and described.

135,655
DESIGN FOR A HEAT-ABSORBING WATER CONDUIT FOR TANK WATER HEATERS
Clarence H. Morrow, Shaker Heights, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application March 18, 1943, Serial No. 109,778
Term of patent 14 years



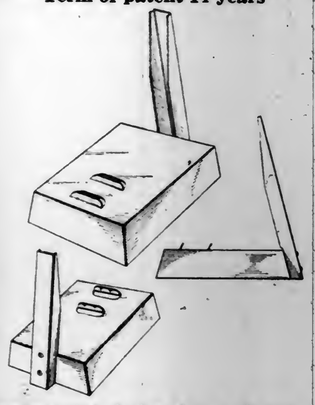
The ornamental design for a heat-absorbing water conduit for tank water heaters, as shown.

135,656
DESIGN FOR A TIE RACK
William Grant Williams, Anaheim, Calif.
Application February 6, 1943, Serial No. 109,480
Term of patent 7 years



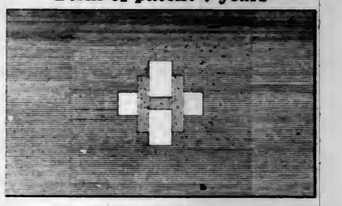
The ornamental design for a tie rack, as shown and described.

135,657
DESIGN FOR A SHOVEL RACK
Arvid P. Zetterberg, New Castle, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application October 9, 1941, Serial No. 103,696
Term of patent 14 years



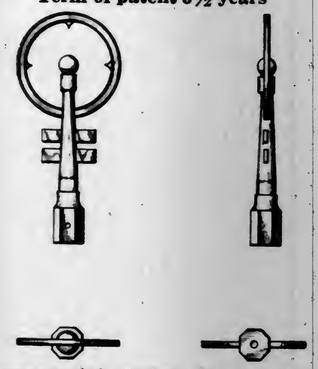
The ornamental design for a shovel rack, as shown.

135,658
DESIGN FOR A FLAG
William S. Bailey, Irvington, N. J.
Application February 4, 1943, Serial No. 109,447
Term of patent 7 years



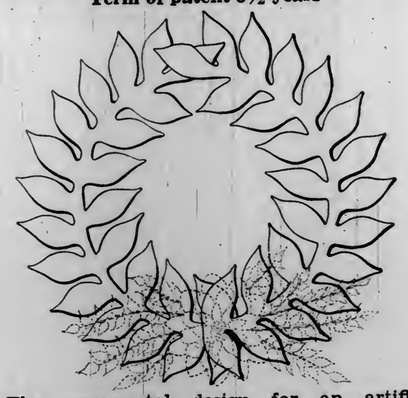
The ornamental design for a flag, as shown.

135,659
DESIGN FOR AN AUTOMOBILE ORNAMENT
Rolando V. Franceschi, Yauco, P. R.
Application December 2, 1942, Serial No. 108,928
Term of patent 3½ years



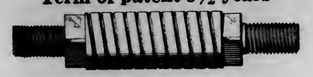
The ornamental design for an automobile ornament, as shown.

135,660
DESIGN FOR AN ARTIFICIAL WREATH
Theodore Kirchen, Chicago, Ill.
Application May 28, 1942, Serial No. 107,043
Term of patent 3½ years



The ornamental design for an artificial wreath, substantially as shown and described.

135,661
DESIGN FOR A SPRING SHACKLE BOLT
Erich O. Krauter, United States Army
Application August 19, 1942, Serial No. 107,961
Term of patent 3½ years





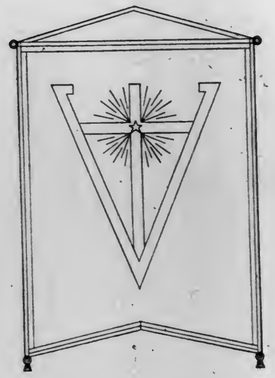
The ornamental design for a spring shackle bolt, as shown and described.

135,662
DESIGN FOR A NAIL OR SIMILAR ARTICLE
Edmond C. Matignon, Oakland, Calif.
Application February 19, 1943, Serial No. 109,582
Term of patent 14 years



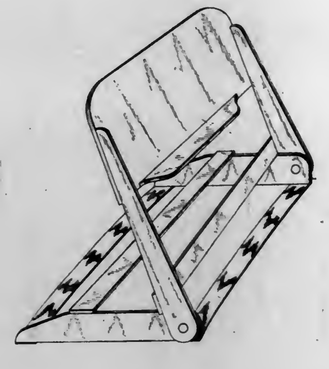
The ornamental design for a nail or similar article, as shown.

135,663
DESIGN FOR A BANNER OR THE LIKE
Herbert S. Mikesell, Richmond, Ind.
Application January 22, 1943, Serial No. 109,325
Term of patent 3½ years



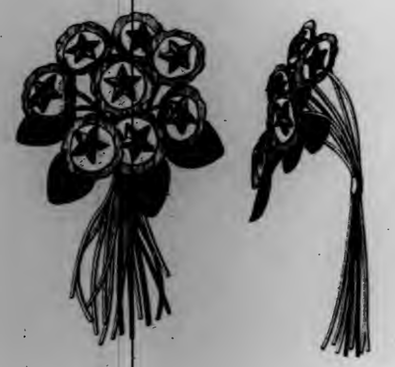
The ornamental design for a banner or the like, as shown.

135,664
DESIGN FOR A BOOK HOLDER
Willard L. Pollard, Evanston, Ill.
Application August 20, 1942, Serial No. 107,978
Term of patent 3½ years



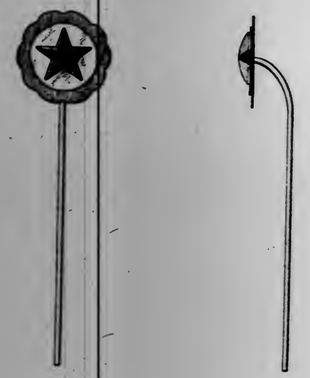
The ornamental design for a book holder, substantially as shown.

135,665
DESIGN FOR AN ARTIFICIAL CORSAGE
Adele G. Spilka, New York, N. Y.
Application March 15, 1943, Serial No. 109,753
Term of patent 3½ years



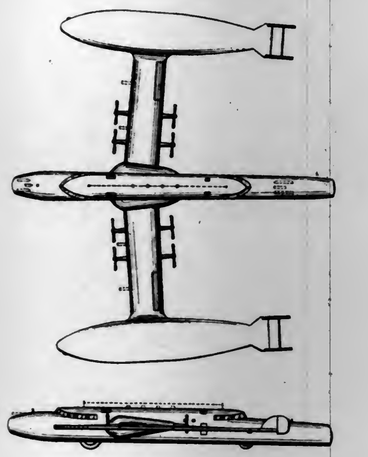
The ornamental design for an artificial corsage, substantially as shown.

135,666
DESIGN FOR AN ARTIFICIAL BOUTONNIERE
Adele G. Spilka, New York, N. Y.
Application March 15, 1943, Serial No. 109,754
Term of patent 3½ years



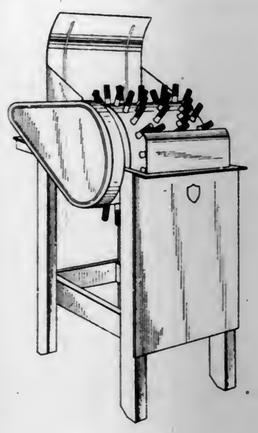
The ornamental design for an artificial boutonniere, substantially as shown.

135,667
DESIGN FOR AN AIRPLANE
Patrick Sullivan, Brookline, Mass.
Application November 26, 1942, Serial No. 108,880
Term of patent 14 years

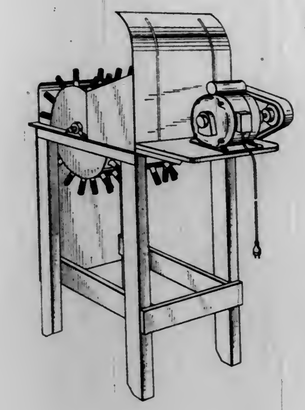


The ornamental design for an airplane, substantially as shown.

135,668
DESIGN FOR A POULTRY PICKING MACHINE
Flournoy Corey, Cedar Rapids, and Maurice J. Fletcher, Des Moines, Iowa, assignors to Pickwick Corporation, Cedar Rapids, Iowa, a corporation of Iowa
Application April 13, 1942, Serial No. 106,565
Term of patent 14 years

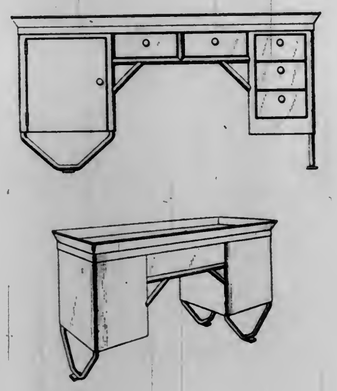


135,668—Continued



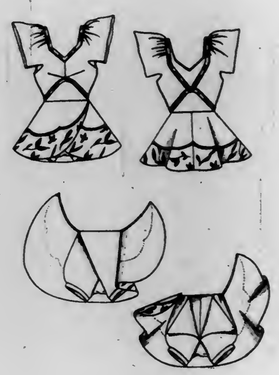
The ornamental design for a poultry picking machine, as shown.

135,669
DESIGN FOR A BENCH FOR LATHES OR THE LIKE
Henry H. Logan, Chicago, Ill., assignor to Logan Engineering Co., Chicago, Ill., a corporation of Illinois
Application March 1, 1943, Serial No. 109,645
Term of patent 14 years



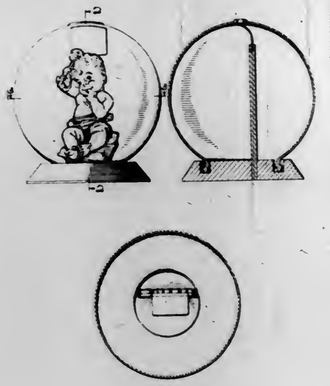
The ornamental design for a bench for lathes or the like, as shown and described.

135,670
DESIGN FOR A BATHING SUIT OR SIMILAR ARTICLE
Majel Jenese Miles, New York, N. Y.
Application February 26, 1943, Serial No. 109,636
Term of patent 7 years



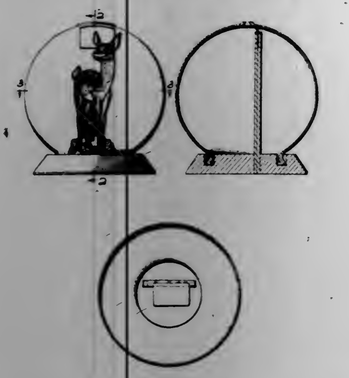
The ornamental design for a bathing suit or similar article, substantially as shown and described.

135,671
DESIGN FOR A COIN BANK
Ralph Victor Moran, Bradford, Pa.
Application March 3, 1943, Serial No. 109,648
Term of patent 14 years



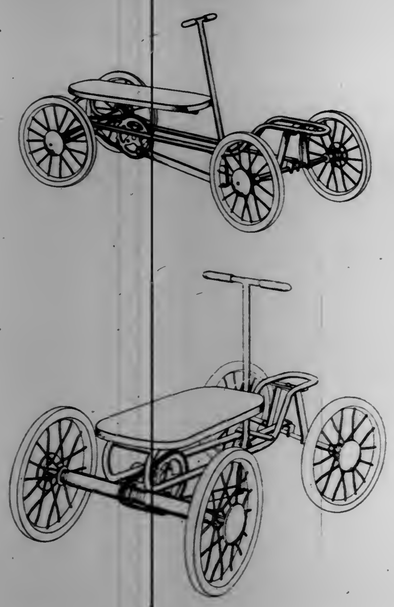
The ornamental design for a coin bank, as shown.

135,672
DESIGN FOR A COIN BANK
Ralph Victor Moran, Bradford, Pa.
Application March 3, 1943, Serial No. 109,649
Term of patent 14 years



The ornamental design for a coin bank, as shown.

135,673
DESIGN FOR A JUVENILE VEHICLE
William I. Smith, Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application February 6, 1943, Serial No. 109,474
Term of patent 14 years



The ornamental design for a juvenile vehicle, as shown.

135,674
DESIGN FOR AN EARPHONE
Alfred L. W. Williams, Cleveland Heights, and Donald E. Rutter, East Cleveland, Ohio, assignors to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application March 11, 1942, Serial No. 106,152
Term of patent 14 years



The ornamental design for an earphone, substantially as shown and described.

135,675
DESIGN FOR A COMBINED MEMORANDUM PAD, PENCIL, AND HOLDER THEREFOR, OR SIMILAR ARTICLE
Samuel Brodsky, Brooklyn, N. Y.
Application January 5, 1943, Serial No. 109,202
Term of patent 7 years



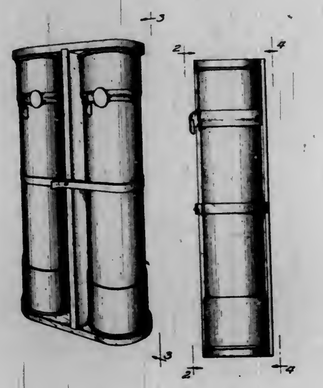
The ornamental design for a combined memorandum pad, pencil and holder therefor, or similar article, substantially as shown.

135,676
DESIGN FOR A COMBINED MEMORANDUM PAD, PENCIL, AND HOLDER THEREFOR, OR SIMILAR ARTICLE
Samuel Brodsky, Brooklyn, N. Y.
Application January 5, 1943, Serial No. 109,203
Term of patent 7 years

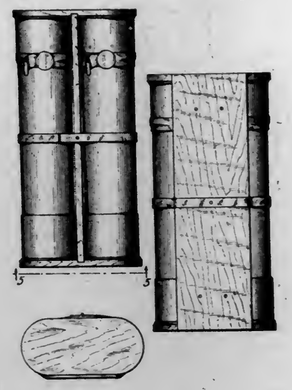


The ornamental design for a combined memorandum pad, pencil and holder therefor, or similar article, substantially as shown.

135,677
DESIGN FOR A PACKAGE FOR FIRE EXTINGUISHING MATERIAL OR SIMILAR ARTICLE
Harley G. Hastert, Marinette, Wis., assignor to Dugas Engineering Corporation, Marinette, Wis., a corporation of Delaware
Application February 19, 1943, Serial No. 109,581
Term of patent 14 years

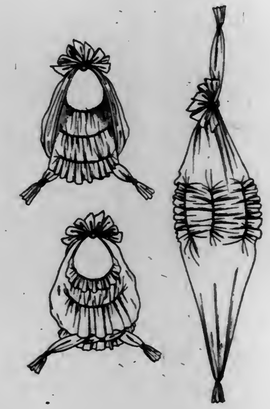


135,677—Continued



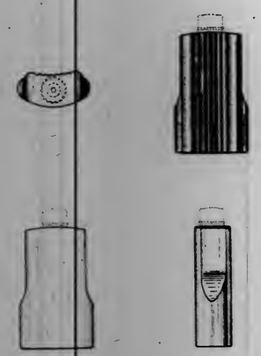
The ornamental design for a package for fire extinguishing material or similar article, as shown.

135,678
DESIGN FOR A SCARF HAT OR SIMILAR ARTICLE
Lena Karlen, New York, N. Y.
Application April 3, 1943, Serial No. 109,902
Term of patent 3½ years



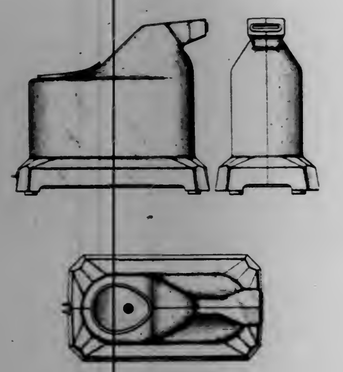
The ornamental design for a scarf hat or similar article, substantially as shown.

135,679
DESIGN FOR A BOTTLE
Frank McIntosh, New York, N. Y., assignor to Lentheric, Incorporated, New York, N. Y., a corporation of New York
Application May 23, 1942, Serial No. 106,981
Term of patent 14 years



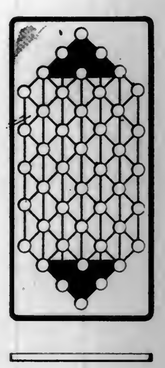
The ornamental design for a bottle, substantially as shown and described.

135,680
DESIGN FOR A HAT STEAMER
Ray C. Utley and Arthur Feilchenfeld, Jr., Chicago, Ill.
Application March 1, 1943, Serial No. 109,644
Term of patent 14 years



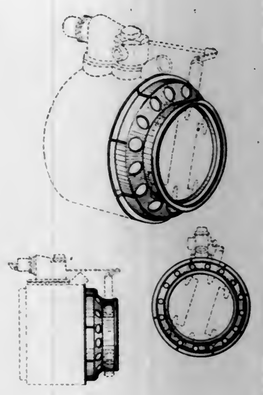
The ornamental design for a hat steamer, as shown.

135,681
DESIGN FOR A GAME BOARD
William G. Fletcher, Bogota, N. J.
Application November 26, 1942, Serial No. 108,881
Term of patent 14 years



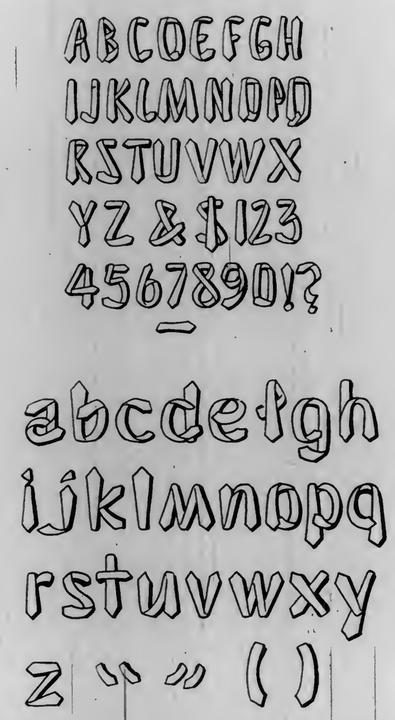
The ornamental design for a game board, substantially as shown.

135,682
DESIGN FOR A TEMPERATURE REGULATOR
Walter Hayward Geddes, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application January 11, 1943, Serial No. 109,227
Term of patent 14 years



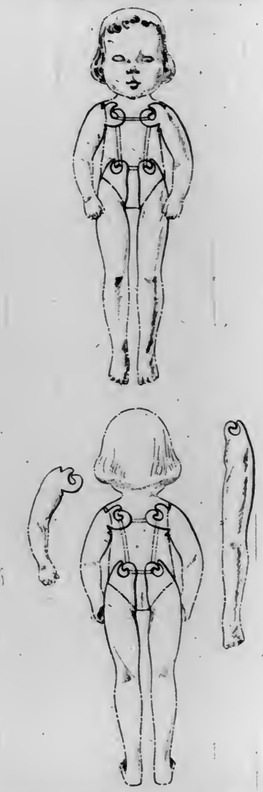
The ornamental design for a temperature regulator, as shown and described.

135,683
DESIGN FOR A FONT OF TYPE
Berthold Goldsmith, Jr., Woodmere, N. Y., assignor to Botany Worsted Mills, Passaic, N. J., a corporation of New Jersey
Application March 11, 1943, Serial No. 109,727
Term of patent 14 years



The ornamental design for a font of type, as shown and described.

135,684
DESIGN FOR A DOLL
Mano Hirsch, New York, N. Y.
Application October 19, 1942, Serial No. 108,577
Term of patent 14 years



The ornamental design for a doll, substantially as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acroquip Corporation, The, Jackson, Mich. Hose fittings and pipe couplings. Serial No. 439,741; May 11. Class 13.

Alling & Cory Company, The, Rochester, N. Y. Ledger paper. Serial No. 455,945; May 11. Class 37.

Altone Chemical Co. (See Karno, Hyman.)

American Lecithin Company, Cleveland, Ohio. Lecithin products. Serial No. 453,149; May 11. Class 46.

American Lingerie Co. (See Pollock, Simon.)

American Potash & Chemical Corporation, New York, N. Y. Borax used in fertilizer and weed control preparations. Serial No. 458,830; May 11. Class 6.

Anco Corporation, Pittsburgh, Pa. Glass fruit jars. Serial No. 458,143; May 11. Class 33.

Bahnson Company, The, Winston-Salem, N. C. Atomizers. Serial No. 458,383; May 11. Class 13.

Billings & Spencer Company, The, Hartford, Conn. Chains and hoist hooks. Serial No. 454,795; May 11. Class 13.

Botany Worsted Mills, Passaic, N. J. Publication. Serial No. 456,333; May 11. Class 38.

Brennan, William T., doing business as the Miner's Medicine Company, Beckley, W. Va., and Columbus, Ohio. Liquid herb laxative. Serial No. 458,997; May 11. Class 6.

Burton-Dixie Corporation, Chicago, Ill. Stuffing and padding. Serial No. 445,835; May 11. Class 32.

Camden County Beverage Company, Camden, N. J. Beer. Serial No. 459,296; May 11. Class 48.

Cantol Wax Company, Bloomington, Ind. Belt dressing, belt preservative and belt treatment composition in liquid and solid form. Serial No. 459,069; May 11. Class 4.

Cantor Greenspan Co., Inc., New York, N. Y. Piece goods. Serial No. 455,203; May 11. Class 42.

Carson Pirie Scott & Company, Chicago, Ill. Girls' coats. Serial No. 455,996; May 11. Class 39.

Carson Pirie Scott & Company, Chicago, Ill. Women's blouses. Serial No. 455,997; May 11. Class 39.

Cartwright, W. B., Limited, Rawdon, near Leeds, England. Compressed tablets and lozenges and pastilles, being sweets. Serial No. 459,160; May 11. Class 46.

Chatham Pharmaceuticals, Inc., Newark, N. J. Colloidal aluminum hydroxide in powder form. Serial No. 457,675; May 11. Class 6.

Ciro Merola & Company, Bayonne, N. J. Coats for men and boys. Serial No. 455,514; May 11. Class 39.

Cohn-Hall-Marx Co., New York, N. Y. Piece goods. Serial No. 458,931; May 11. Class 42.

Continental Lithograph Corporation, Cleveland, Ohio. Piece goods. Serial No. 457,721; May 11. Class 42.

Coolerator Company, The, Duluth, Minn. Metallic tool chests and boxes, tote boxes, stack bins, etc. Serial No. 458,529; May 11. Class 2.

Corn Products Refining Company, New York, N. Y. Extract from corn gluten for the manufacture of plastics, adhesives, and varnishes. Serial No. 458,312; May 11 Class 1.

Cornell, Charles A., doing business as The Technical Rubber Company, Johnstown, Ohio. Tire patches. Serial No. 459,299; May 11. Class 35.

Cunningham Chemical Laboratories, Inc., New York, N. Y. Fire-extinguishing compound. Serial No. 459,193; May 11. Class 6.

Curtiss-Wright Corporation, New York and Buffalo, N. Y., Columbus, Ohio, and St. Louis, Mo. Airplanes and structural parts thereof. Serial No. 456,463; May 11 Class 19.

Davega-City Radio, Inc., New York, N. Y. Men's and boys' pajamas, underwear, neckties, etc., and shoes. Serial No. 457,848; May 11. Class 39.

Davidson Manufacturing Corporation, Chicago, Ill. Developing ink. Serial No. 449,452; May 11. Class 11.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Treated textile cord. Serial No. 456,238; May 11. Class 7.

Dillinger Distilleries, Inc., Ruffsdale and Philadelphia, Pa. Whiskey. Serial No. 459,169; May 11. Class 49.

Dritz-Traum Company, Inc., New York, N. Y. Coated fabric swatches and tape rendered adhesive by heat. Serial No. 458,236; May 11. Class 5.

Durene Association of America, New York, N. Y. Yarns. Serial No. 457,826; May 11. Class 43.

Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Shark hooks, eel spears, harpoons, etc. Serial No. 459,260; May 11. Class 22.

Eastman Kodak Company, Jersey City, N. Y., and Rochester, N. Y. Rayon piece goods. Serial No. 458,649; May 11. Class 42.

Emergency Products, Limited, London, England. Chemical combination in tablet form for use as a fuel. Serial No. 458,609; May 11. Class 6.

Filtrol Corporation, Los Angeles, Calif. Chemically-treated montmorillonite clay. Serial No. 458,936; May 11. Class 6.

Friedland, Peter R., doing business as The Peter R. Friedland Co., New York, N. Y. Lipsticks. Serial No. 458,916; May 11. Class 6.

Garis, Howard R., East Orange, N. J. Printed and illustrated books. Serial No. 458,355; May 11. Class 38.

Gem Products, Inc., Milwaukee, Wis. Mops and dusters. Serial No. 458,535; May 11. Class 29.

Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. Serial No. 459,197; May 11. Class 6.

Holland Cotton Products Company, Holland, Mich. Mattress pads, mattress protectors, quilts, etc. Serial No. 455,120; May 11. Class 42.

Howards Fifth Ave., Inc., New York, N. Y. Women's collars, vestees, dickeys, etc. Serial No. 458,461; May 11. Class 39.

Hygienol Company, Inc., New Rochelle, N. Y. Powder puffs. Serial No. 459,007; May 11. Class 29.

Jordan Marsh Company, Boston, Mass. Woman's hat or cap. Serial No. 458,014; May 11. Class 39.

Karno, Hyman, doing business as Altone Chemical Co., New Orleans, La. Cough syrup. Serial No. 459,243; May 11. Class 6.

Kogar Products Co., Inc., New York, N. Y. Concentrates, syrups, flavors, etc. Serial No. 457,441; May 11. Class 45.

Lockport Cotton Batting Co., Lockport, N. Y. Wool and cotton batts or batting. Serial Nos. 458,986–7; May 11. Class 1.

Lockwood, Lawrence A., doing business as Lockwood Products, Chicago, Ill. Insulated containers. Serial No. 455,659; May 11. Class 2.

Macalster Bicknell Company, Cambridge, Mass. Laboratory, experimental, hospital glassware, etc. Serial No. 458,633; May 11. Class 26.

Marathon Paper Mills Company, Menasha, Wis. Paper for interleaving or lining trays. Serial No. 458,689; May 11. Class 37.

Midland Laboratories. (See Young, George G.)

Miner's Medicine Company, The. (See Brennan, William T.)

Moran, Ralph Victor, doing business as Vic Moran, Bradford, Pa. Toy coin banks. Serial Nos. 458,845–6; May 11. Class 22.

Mothtone Company, The, Needham, Mass. Moth-proofing materials. Serial No. 459,226; May 11. Class 6.

Municipal Shoe Co., Inc., The, Brooklyn, N. Y. Boys' and girls' shoes. Serial No. 457,504; May 11. Class 39.

Music You Enjoy, Inc., New York, N. Y. Series of children's books. Serial No. 448,435; May 11. Class 38.

National Tool Company, The, Cleveland, Ohio. Monthly magazine. Serial No. 459,050; May 11. Class 38.

Normandie Coat Corp., New York, N. Y. Misses' and junior misses' coats, suits and suit ensembles, etc. Serial No. 458,881; May 11. Class 39.

Osyth Laboratories. (See Shrieves, Edna.)

Pacific Lumber Company, The, San Francisco, Calif. Mattresses, pillows and upholstery padding. Serial No. 457,421; May 11. Class 32.

Palmerton Coca-Cola Bottling Co., Palmerton, Pa. Non-alcoholic maltless beverages. Serial No. 453,568; May 11. Class 45.

Perlman, A. M., Inc., New York, N. Y. Textile fabrics. Serial No. 452,620; May 11. Class 42.

Pillsbury Flour Mills Company, Minneapolis, Minn. Rye flour and wheat flour mixture. Serial No. 458,247; May 11. Class 46.

Pitman-Dreitzer and Co., Inc., New York, N. Y. Glass tableware. Serial No. 458,740; May 11. Class 33.

Pollock, Simon, doing business as American Lingerie Co., New York, N. Y. Women's undergarments. Serial No. 458,479; May 11. Class 39.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Vitamin capsules. Serial No. 451,655; May 11. Class 6.

Prudential Paper Products Company, New York, N. Y. Stationery. Serial No. 458,761; May 11. Class 37.

Rosenstein Brothers, Paterson, N. J. Piece goods. Serial No. 457,995; May 11. Class 42.

S & F Company, Hartford, Conn. Clothespin bags. Serial No. 457,688; May 11. Class 2.

Schenley Import Corporation, New York, N. Y. Wines. Serial No. 459,154; May 11. Class 47.

Scholnick Shoe Corp., Jamaica Plain, Boston, Mass. Shoes. Serial No. 451,631; May 11. Class 39.

Shrieves, Edna, doing business as Osyth Laboratories, New York, N. Y. Salve. Serial No. 459,090; May 11. Class 6.

Silberkleit, Louis H., New York, N. Y. Bi-monthly publication. Serial No. 456,250; May 11. Class 38.
Springfield Coated Paper Corporation, Camden, N. J. Paper. Serial No. 452,029; May 11. Class 37.
Squibb, E. R., & Sons, New York, N. Y. Vitaminic preparations. Serial No. 458,924; May 11. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Nutritive substance. Serial No. 459,275; May 11. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Nutritive substance. Serial No. 459,277; May 11. Class 6.
Stelzer Brothers, Inc., New York, N. Y. Women's belts. Serial No. 458,820; May 11. Class 39.
Stern & Stern Textile Importers Inc., New York, N. Y. Piece goods. Serial No. 456,477; May 11. Class 42.
Technical Rubber Company, The. (See Cornell, Charles A.)
Trimfoot Company, St. Louis, Mo. Infants' and children's high shoes. Serial No. 452,112; May 11. Class 39.
Union Bag & Paper Corporation, New York, N. Y. Wrapping paper. Serial No. 458,954; May 11. Class 37.
United Autographic Register Co., Chicago, Ill. Strips of zig-zag folded printed continuous blank forms. Serial No. 458,501; May 11. Class 37.
United Cigar-Whelan Stores Corporation, New York, N. Y. Suspensories. Serial No. 458,166; May 11. Class 44.
United States Gypsum Company, Chicago, Ill. Asphalt roofing shingles. Serial No. 442,377; May 11. Class 12.
United States Gypsum Company, Chicago, Ill. Insulation board. Serial No. 458,824; May 11. Class 12.
United States Rubber Company, New York, N. Y. Duct hose comprising a fabric base treated with a sealing material. Serial No. 458,085; May 11. Class 35.
U. S. Slicing Machine Company, La Porte, Ind. Cut fresh meats, steaks, and small irregular cuts of meats. Serial No. 451,328; May 11. Class 46.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Nutritive food supplement. Serial No. 457,291; May 11. Class 46.
Veep Company, Inc., The, Hanover, N. H. Board games. Serial No. 459,248; May 11. Class 22.
Vitamin Corporation of America, Newark, N. J. Vitamin preparations, capsules and tablets, and vitamin concentrates and the like. Serial No. 458,747; May 11. Class 6.
Western Auto Supply Company, Kansas City, Mo. Suit cases, overnight cases, vanity cases, etc. Serial No. 454,353; May 11. Class 3.
Wilcox-Gay Corporation, The, Charlotte, Mich. Phonographs for reproducing voice, music and sound generally. Serial No. 442,470; May 11. Class 36.
Wyner, I. A., & Co. Inc., New York, N. Y. Piece goods and pile fabrics. Serial No. 458,605; May 11. Class 42.
Young, George G., doing business as Midland Laboratories, Kansas City, Mo. Egg emulsifier, mineral and organic salts, and dextrose. Serial No. 459,035; May 11. Class 46.
Zaninovich, George, doing business as Zaninovich Bros., Dinuba, Calif. Fresh citrus fruits. Serial No. 458,299; May 11. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

A. P. W. Paper Company, Inc., Albany, N. Y. Toilet tissue and paper towels. 401,333; May 11; Serial No. 455,469; published Nov. 24, 1942. Class 37.
Allied Chemical & Dye Corporation, New York, N. Y. Roofing cement, bituminous base coating compositions for roofs and other construction purposes, pitch, etc. 401,340; May 11; Serial No. 456,484; published Mar. 2, 1943. Class 12.
Aluminum Cooking Utensil Company, The, New Kensington, Pa. Sterling silver flatware, hollow ware and tableware. 401,394; May 11. Class 28.
American Art Works, Inc., The, Coshocton, Ohio. Advertising signs. 401,336; May 11; Serial No. 456,256; published Mar. 2, 1943. Class 50.
American Character Doll Co., Inc. to American Character Doll Corporation, New York, N. Y., successor. Dolls. 173,314; renewed Sept. 18, 1943.
American Dental Company, Cleveland, Ohio. Dental materials for repairing teeth. 401,371; May 11; Serial No. 457,621; published Mar. 2, 1943. Class 44.
American-LaFrance-Foamite Corporation, Elmira, N. Y. Fire extinguishing preparations. 401,335; May 11; Serial No. 455,878; published Feb. 23, 1943. Class 6.
American Larson Ventilating Company, Pittsburgh, Pa. Industrial ventilators. 173,142; renewed Sept. 18, 1943.
American Transformer Company, Newark, N. J. Transformers and parts therefor. 172,013; renewed Aug. 21, 1943.
Asch, J. T., & Sons, assignor to Ogus, Rabinovich & Ogus, Inc., New York, N. Y. Hats. 165,674; renewed Mar. 20, 1943.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 401,315; May 11; Serial No. 448,896; published Mar. 2, 1943. Class 15.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 401,316; May 11; Serial No. 448,890; published Mar. 2, 1943. Class 15.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 401,395; May 11. Class 15.
Baehr, Eugene B., & Sons, New York, N. Y. Catheters. 401,332; May 11; Serial No. 455,362; published Mar. 2, 1943. Class 44.
Bareco Oil Company. (See Barnsdall Refining Company, assignor.)
Barnsdall Refining Company, assignor, by mesne assignments, to Bareco Oil Company, Tulsa, Okla. Paraffin. 164,657; renewed Feb. 27, 1943.
Beatrice Creamery Company, Chicago, Ill., and Topeka, Kans., to Beatrice Creamery Company, Chicago, Ill. Milk and cream. 173,261; renewed Sept. 18, 1943.
Bemco Mfg. Co. (See Vincent, Otto J.)
Benedetti, Filippo. (See Fluid Chemical Company, assignor.)
Birtman Electric Company, Chicago, Ill. Electric vacuum cleaners. 172,301; renewed Aug. 28, 1943.
Blue Suds Company, Detroit, Mich. Starch tablets. 401,379; May 11; Serial No. 457,716; published Mar. 2, 1943. Class 6.
C. A. F. Kahlbaum Chemische Fabrik Gesellschaft mit beschränkter Haftung, Adlershof-Berlin, Germany, assignor, by mesne assignments, to Schering Corporation, Bloomfield, N. J. Medicinal products. 172,739; renewed Sept. 11, 1943.
Carran, Grace B., doing business as Central Petroleum Company, assignor to Central Petroleum Company, Cleveland, Ohio. Lubricating oils and greases. 173,468; renewed Sept. 25, 1943.
Carrara, Fernando, New York, N. Y. Caster hand trucks for moving heavy loads. 401,339; May 11; Serial No. 456,417; published Mar. 2, 1943. Class 19.
Cato Oil and Grease Co., Oklahoma City, Okla. Lubricating oils and greases. 173,461; renewed Sept. 25, 1943.
Central Petroleum Company. (See Carran, Grace B., assignor.)
Chipman's, Chas., Sons Co., Inc. (See Levene, Ben, Inc., assignor.)
City Mills Company, Columbus, Ga. Self-rising wheat flour. 166,146; renewed Mar. 27, 1943.
Coca-Cola Bottling Co., to Nutmeg Club Beverage Company, New London, Conn., successor. Nonalcoholic, noncereal, maltless, beverages. 165,684; renewed Mar. 20, 1943.
Colgate & Co., New York, N. Y., assignor, by mesne assignments, to Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. 23,632; re-renewed Sept. 19, 1943.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Dental cream. 401,343; May 11; Serial No. 456,680; published Mar. 2, 1943. Class 6.
Colgate-Palmolive-Peet. (See Colgate & Co., assignor.)
Comstock Canning Corporation, Newark, N. Y. Canned fruits and vegetables. 401,362; May 11; Serial No. 457,413; published Mar. 2, 1943. Class 46.
Coralite Dental Products Company, Chicago, Ill. Dental impression and reline material of methacrylate composition. 401,380; May 11. Serial No. 457,740; published Mar. 2, 1943. Class 44.
Cosmetics Inc., Nashville, Tenn. Make-up cream, complexion cream, complexion powder, etc. 401,328; May 11; Serial No. 453,717; published Mar. 2, 1943. Class 6.
Crown Cork & Seal Company, Inc. (See New Process Cork Company, assignor.)
Dairymen's League Co-operative Association, Inc., Utica, to Dairymen's League Cooperative Association, Inc., New York, N. Y. Condensed milk and evaporated milk. 173,135; renewed Sept. 18, 1943.
Dare, Charles F., & Son, Inc., Bridgeton, N. J., assignor, by mesne assignments, to International Laboratories, Inc., Rochester, N. Y. Medical compound for diseases of the stomach. 169,779; renewed July 3, 1943.
Davis, Wirt. (See Welchsel Laboratories.)
Dayton Hosiery Mills, Dayton, Tenn. Hosiery. 173,205; renewed Sept. 18, 1943.
Diamond Magnesium Company, Painesville, Ohio. Magnesium and magnesium alloys. 401,360; May 11; Serial No. 457,361; published Mar. 2, 1943. Class 14.
"Dolly Varden Co." (See Willats, Marietta B.)
Dow Chemical Company, The, Midland, Mich. Insecticide. 401,370; May 11; Serial No. 457,604; published Feb. 23, 1943. Class 6.
Eagle Tea & Coffee Company, Inc., The, to Old Dutch Mills, Inc., New York, N. Y., successor. Coffee and tea. 171,164; renewed July 31, 1943.
Effervescent Products, Inc., Elkhart, Ind. Alkaline effervescent tablets. 401,312; May 11; Serial No. 430,126; published Mar. 2, 1943. Class 6.

Empire Paper Company. (See Miamisburg Paper Co., assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Remedy to be used as a sedative or hypnotic. 172,744; renewed Sept. 11, 1943.
Fellows Medical Manufacturing Company, Inc., New York, N. Y. Ointment for external use. 401,354; May 11; Serial No. 457,200; published Feb. 23, 1943. Class 6.
Fibus, Murray M., doing business as Steel City Manufacturing Co., Youngstown, Ohio. Beverage coolers. 401,383; May 11; Serial No. 457,827; published Mar. 2, 1943. Class 31.
Firestone Tire & Rubber Co., The, Akron, Ohio. Fishing and casting lines. 401,387; May 11. Class 22.
Fluid Chemical Company, assignor to Filippo Benedetti, Newark, N. J. Washing fluid. 168,865; renewed May 29, 1943.
Food Machinery Corporation, San Jose, Calif. Fruit coating solutions of waxy material. 401,326; May 11; Serial No. 453,327; published Mar 2, 1943. Class 15.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, paper towels, etc. 172,017; renewed Aug. 21, 1943.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, paper towels, etc. 172,084; renewed Aug. 21, 1943.
Fougera, E. & Co., Inc., New York, N. Y. Toilet powder. 173,104; renewed Sept. 18, 1943.
Fox, John J., Hancock, Mich., assignor, by mesne assignments, to McKesson & Robbins, Incorporated, New York, N. Y. Hair tonic. 172,567; renewed Sept. 11, 1943.
Frank, A. B., Company, San Antonio, Tex. Hosiery and sweaters, scarfs, caps, etc. 173,177; renewed Sept. 18, 1943.
Fuld Brothers, New York, N. Y. Blankets and comforters. 172,933; renewed Sept. 11, 1943.
General Motors Corporation, Detroit, Mich. Propellers and parts thereof. 401,395–6; May 11. Class 19.
General Tire & Rubber Company, The. (See India Tire and Rubber Company, The, assignor.)
General Tire & Rubber Company, The, Akron, Ohio. Rubber tires, tire casings, and inner tubes. 169,130; renewed June 12, 1943.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Pneumatic vehicle tires. 401,323; May 11; Serial No. 450,227; published Mar. 2, 1943. Class 35.
Goodwill Industry, Dr. J. Q. A. Martin, Incorporated, New Bern, N. C. Salve for treatment of sore muscles, aches and pains, and for external application in the treatment of colds. 401,364; May 11; Serial No. 457,545; published Mar. 2, 1943. Class 6.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires. 401,331; May 11; Serial No. 454,368; published Feb. 23, 1943. Class 35.
Gristede Bros. Inc., New York, N. Y. Canned fish, canned fruits, canned fruit juices, etc. 401,324; May 11; Serial No. 452,474; published Mar. 2, 1943. Class 46.
Guardian Electric Manufacturing Co., Chicago, Ill. Control handles for aircraft and control wheels for aircraft. 401,353; May 11; Serial No. 457,119; published Mar. 2, 1943. Class 19.
Guest, Keen & Nettlefolds Limited, Smethwick, England. Screws, bolts, nuts, etc. 173,434; renewed Sept. 25, 1943.
Hall Hardware Company, Minneapolis, Minn. Flat wall finish paint. 401,344; May 11; Serial No. 456,798; published Mar. 2, 1943. Class 16.
Hamilton Laboratories, Inc., The, Hamilton, Ohio. Packaged germicide for control of pulp and paper mill slimes. 401,376; May 11; Serial No. 457,679; published Feb. 16, 1943. Class 6.
Hennessy, James J., Waterbury, Conn. Cigars and tobacco clippings. 401,392; May 11. Class 17.
Hill's Laboratories. (See Mills, Lyle W.)
Hoyland Steel Company, Incorporated, New York, N. Y. Tool steel in the form of bars, billets, sheets and strips. 401,361; May 11; Serial No. 457,363; published Mar. 2, 1943. Class 14.
Humble Oil & Refining Company, Houston, Tex. Oils and greases. 166,460; renewed Apr. 3, 1943.
Imperial Flour Mills Co., The, Wichita, Kans. Wheat flour. 166,135; renewed Mar. 27, 1943.
Imperial Glass Corporation, Bellaire, Ohio. Glassware. 401,356; May 11; Serial No. 457,244; published Mar. 2, 1943. Class 33.
India Tire and Rubber Company, The, Akron and Mogadore, assignor, by mesne assignments, to The General Tire & Rubber Company, Akron, Ohio. Pneumatic vehicle tires. 169,141; renewed June 12, 1943.
International Laboratories, Inc. (See Dare, Charles F., & Son, Inc., assignor.)
Irwin Auger Bit Company, The, Wilmington, Ohio. Bits and augers. 173,295–7; renewed Sept. 18, 1943.
Irwin Auger Bit Compay, The, Wilmington, Ohio. Bits and augers. 173,315–17; renewed Sept. 18, 1943.
Jordan Marsh Company, Boston, Mass. Misses', boys' and children's shoes. 166,083; renewed Mar. 27, 1943.
Jordan Marsh Company, Boston, Mass. Clothing. 169,763; renewed July 3, 1943.
Jordan Marsh Company, Boston, Mass. Golf balls. 172,339; renewed Aug. 28, 1943.
Jordan Marsh Company, Boston, Mass. Hot-water bottles, hot-water bags and syringes. 169,476; renewed June 19, 1943.
Joseph, Victor, Co., New York, N. Y. Apples. 401,384; May 11; Serial No. 457,831; published Mar. 2, 1943. Class 46.
Kalle & Co., Aktiengesellschaft, Biebrich-on-the-Rhine, Germany, assignor to Withrop Chemical Company, Inc., New York, N. Y. Pharmaceutical products. 173,150; renewed Sept. 18, 1943.
Kawerk, Roch D., doing business as Victory Chemicals, Birmingham, Ala. Castor oil. 401,319; May 11; Serial No. 449,524; published Dec. 15, 1942. Class 6.
Kawerk, Roch D., doing business as Victory Chemical Co., Birmingham, Ala. Salve useful in the treatment of head and chest colds, etc. 401,313; May 11; Serial No. 441,577; published June 17, 1941. Class 6.
Kaynine Products. (See Walker, Wendell.)
Keibert Watch Company, New York, N. Y. Watches, watch movements and watch parts. 401,388; May 11. Class 27.
Kraus, Armin J., North Bergen, N. J. Plastic and elastic substance useful as a rubber substitute. 401,317; May 11; Serial No. 448,914; published Mar. 2, 1943. Class 1.
Kuertz, Joseph P., doing business as Kuertz Food Products Co., assignor to Frank Poynter, Cincinnati, Ohio. Mayonnaise, oil salad dressings, sandwich spreads. 401,365; May 11; Serial No. 457,546; published Mar. 2, 1943. Class 46.
Lascoff, J. Leon, & Son, New York, N. Y. Completely washable ointment base. 401,366; May 11; Serial No. 457,576; published Feb. 23, 1943. Class 6.
Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Cements. 169,288; renewed June 12, 1943.
Lelong, Lucien, Inc., Chicago, Ill. Empty compact cases for both loose and caked powder. 401,346; May 11; Serial No. 456,851; published Mar. 2, 1943. Class 2.
Leron of Paris, New York, N. Y. Perfumes, eaux de cologne, dentifrices, etc. 401,391; May 11. Class 6.
Levene, Ben, Inc., assignor, by mesne assignments, to Chas. Chipman's Sons Co., Inc., New York, N. Y. Ladies' hosiery. 173,395; renewed Sept. 25, 1943.
Lippy, David, doing business as The Lippy Company, Los Angeles, Calif. Shoelaces. 401,389–90; May 11. Class 40.
Login Corporation, The, San Francisco, Calif. Food products. 401,337; May 11; Serial No. 456,315; published Mar. 2, 1943. Class 46.
Marley Company, Inc., The, Kansas City, Mo. Liquid cooling towers and parts thereof. 401,393; May 11. Class 31.
Marsales Co. Inc., New York, N. Y. Gauze bandages and absorbent cotton for surgical and hospital use. 401,348; May 11; Serial No. 456,946; published Mar. 2, 1943. Class 44.
Mazer Cigar Manufacturing Company, Detroit, Mich., to J. C. Winter & Company, Inc., Red Lion, Pa. Cigars. 164,907; renewed Feb. 27, 1943.
McCreary Tire & Rubber Company, Borough of Indiana, Pa. Automobile tires. 401,386; May 11. Class 35.
Miamisburg Paper Co., The, Miamisburg, Ohio, assignor to Empire Paper Company, Chicago, Ill. Writing paper and envelopes. 166,274; renewed Mar. 27, 1943.
Michigan Coin Lock Company, to The Nik-O–Lok Company, Indianapolis, Ind., successor. Coin-controlled locks. 171,815; renewed Aug. 14, 1943.
Mills, Lyle W., doing business as Hill's Laboratories, Silver Spring, Md. Medicinal preparation. 401,368; May 11; Serial No. 457,589; published Feb. 23, 1943. Class 6.
Minnesota Mining & Manufacturing Company, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Abrasive paper. 167,713; renewed May 8, 1943.
McKesson & Robbins, Incorporated. (See Fox, John J., assignor.)
McKesson & Robbins, Incorporated. (See Stewart & Holmes Drug Co.)
McNasby Oyster Company, Annapolis, Md. Raw oysters and oysters in the shell. 172,946; renewed Sept. 11, 1943.
Mead, Johnson & Company, Evansville, Ind. Specially-prepared food. 173,340; renewed Sept. 25, 1943.
Monroe Auto Equipment Company, Monroe, Mich. Airplane type shock absorbers and shock absorber parts. 401,399; May 11. Class 19.
National Drug Company, The, Philadelphia, Pa. Product, which, when injected into the patient, produces and/or stimulates antitoxic and antibacterial substances. 401,385; May 11; Serial No. 457,920; published Mar. 2, 1943. Class 6.
National Lime & Stone Company, The, Findlay, Ohio. Product for neutralizing an acid ingredient in the manufacture of commercial fertilizers. 401,372; May 11; Serial No. 457,630; published Feb. 23, 1943. Class 6.
National Refining Company, The, Cleveland, Ohio. Lubricating grease. 172,245; renewed Aug. 28, 1943.

Neville Company, The, Neville Island, Pittsburgh, Pa. Plasticizec coumarone-indene polymer compositions adapted for the weatherproofing of textile fabrics. 401,352; May 11; Serial No. 457,066; published Mar. 2, 1943. Class 6.

New England Box Company, The, Greenfield, Mass. Toboggans. 401,322; May 11; Serial No. 450,209; published Mar. 2, 1943. Class 22.

Newhall Chain Forge & Iron Co., New York, N. Y., to Newhall Chain Forge & Iron Co., Westwood, N. J. Nonskid chains, hooks and parts therefor. 168,908; renewed May 29, 1943.

New Process Cork Company, Brooklyn, N. Y., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Bottle closures of the crown type. 173,124; renewed Sept. 18, 1943.

Nickels Manufacturing Company, Bristol, Va., to Nickels Manufacturing Co., Inc., Bristol, Tenn., successor. Ladies', misses' and children's dresses. 169,770; renewed July 3, 1943.

Nutmeg Club Beverage Company. (See Coca-Cola Bottling Company.)

Oceanic Sales Company, Seattle, Wash. Canned salmon. 401,397; May 11. Class 46.

Ogus, Rabinovich & Ogus, Inc. (See Asch, J. T., & Sons, assignor.)

Old Dutch Mills, Inc. (See Eagle Tea & Coffee Company, Inc., The.)

Ott, Joe, Manufacturing Co., Chicago, Ill. Parts kits for making sets of model airplanes. 401,350; May 11; Serial No. 457,047; published Feb. 23, 1943. Class 22.

Pacific Huts, Inc., Seattle, Wash. Packaged structural elements for assembly into housing units. 401,358; May 11; Serial No. 457,342; published Mar. 2, 1943. Class 12.

Parkinson, George R., New York, N. Y. Perfumes. 401,401; May 11. Class 6.

Pastene, P., & Co., Inc., Boston, Mass., assignor to Pastene & Co., Inc., New York, N. Y. Canned peeled tomatoes, roasted peppers and tomato sauce. 166,452; renewed Apr. 3, 1943.

Patterson-Sargent Company, The, Cleveland, Ohio. Paint brushes. 401,351; May 11; Serial No. 457,048; published Feb. 23, 1943. Class 29.

Pedersen, Hayes N., Racine, Wis. Toy cards. 401,377; May 11; Serial No. 457,708; published Mar. 2, 1943. Class 22.

Plastic Products Company, Detroit, Mich. Elastic compound in the nature of putty or glazing composition for setting glass in wood sash. 401,321; May 11; Serial No. 450,145; published Mar. 2, 1943. Class 16.

Powell Knitting Co., The, Philadelphia, Pa. Hosiery. 173,430; renewed Sept. 25, 1943.

Poynter, Frank. (See Kuertz, Joseph P., assignor.)

Prince Matchabelli Inc., New York, N. Y. Bubble bath preparation. 401,327; May 11; Serial No. 453,424; published July 28, 1942. Class 6.

Protexol Corporation, Kenilworth, N. J. Lumber impregnated to protect it against fire, decay and insect attack. 401,345; May 11; Serial No. 456,807; published Mar. 2, 1943. Class 12.

Recker, O. R., doing business as O. R. Recker Packing Co., Phoenix, Ariz. Fresh vegetables. 401,357; May 11; Serial No. 457,300; published Mar. 2, 1943. Class 46.

Renoir Parfums, Ltd., New York, N. Y. Perfumes and toilet water. 401,373; May 11; Serial No. 457,656; published Feb. 23, 1943. Class 6.

Renoir Parfums, Ltd., New York, N. Y. Perfumes and toilet water. 401,374; May 11; Serial No. 457,658; published Feb. 23, 1943. Class 6.

Rhodes, Ben S., Normal, Ill. Apron toilet kit. 401,402; May 11. Class 3.

Roberts, O. L., Gary, Ind., to Oscar Lee Roberts, Hubbard, Ohio. Tonic. 165,803; renewed Mar. 20, 1943.

Röhm & Haas Company, Philadelphia, Pa. Mineral tanning material. 401,381; May 11; Serial No. 457,782; published Mar. 2, 1943. Class 6.

Rosalak, Zenobia, New York, N. Y. Preparation for use in alleviating simple digestive disturbances. 401,400; May 11. Class 6.

Ryan, Thomas J., Jr., doing business as Ryan Products Company, New York, N. Y. Therapeutic food preparation containing vitamins and minerals in a carrier. 401,341; May 11; Serial No. 456,567; published Feb. 23, 1943. Class 6.

Safeway Stores, Inc., of Nevada, also doing business as Table Products Company, Reno, Nev., and Oakland, Calif. Chili sauce. 401,342; May 11; Serial No. 456,570; published Mar. 2, 1943. Class 46.

Salazar, Cecilia, New York, N. Y., assignor to Santiago Development Corporation. Medicinal compounds. 401,355; May 11; Serial No. 457,210; published Feb. 23, 1943. Class 6.

Santiago Development Corporation. (See Salazar, C., assignor.)

Scaife Company, Oakmont, Pa. Brazing fluxes. 401,378; May 11; Serial No. 457,710; published Feb. 23, 1943. Class 6.

Schering Corporation. (See C. A. F. Kahlbaum Chemische Fabrik Gesellschaft mit beschränkter Haftung, assignor.)

Schmid, Julius, Inc., New York, N. Y. Vaginal jelly. 401,369; May 11; Serial No. 457,592; published Feb. 23, 1943. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Musical instrument strings. 401,375; May 11; Serial No. 457,662; published Feb. 23, 1943. Class 36.

Seaside Oil Company, Summerland, to Seaside Oil Company, Santa Barbara, Calif. Petroleum products. 166,496; renewed Apr. 3, 1943.

Shapiro, Ira J., Co. Inc., The, New York, N. Y. Preparation in solid block form for application to the face after shaving. 401,367; May 11; Serial No. 457,578; published Feb. 23, 1943. Class 6.

Sherman, Sol, doing business as Sherman Bows, New York, N. Y. Money belts. 401,363; May 11; Serial No. 457,516; published Feb. 23, 1943. Class 3.

Smith & Hemenway Company, Inc., New York, N. Y., and Irvington, assignor to Landon P. Smith, Inc., Irvington, N. J. Tools, knives, and machines. 169,874; renewed July 3, 1943.

Smith, J. Allen, & Company, Knoxville, Tenn. Self-rising flour. 173,491; renewed Sept. 25, 1943.

Smith, Landon P., Inc. (See Smith & Hemenway Company, Inc., assignor.)

Standard Mailing Machines Company, Everett, Mass., now by change of name Standard Duplicating Machines Corporation. Duplicating carbon paper. 401,318; May 11; Serial No. 449,069; published Mar. 2, 1943. Class 11.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Savings banks. 401,325; May 11; Serial No. 452,872; published July 28, 1942. Class 25.

Steel City Manufacturing Co. (See Fibus, Murray M.)

Stern, Louis, Company, Providence, R. I. Articles made wholly or in part of gold or silver or of gold plate or silver plate. 166,586; renewed Apr. 10, 1943.

Stewart & Holmes Drug Co., Seattle, Wash., to McKesson & Robbins, Incorporated, New York, N. Y., successor. Medicinal preparations. 173,165; renewed Sept. 18, 1943.

Stewart & Holmes Drug Co., Seattle, Wash., to McKesson & Robbins, Incorporated, New York, N. Y., successor. Chemical and medicinal preparations. 173,240; renewed Sept. 18, 1943.

Sylvania Industrial Corporation, Fredericksburg, Va., and New York, N. Y. Cellulose sausage casings. 401,329–30; May 11; Serial Nos. 454,155–6; published Mar. 2, 1943. Class 2.

Table Products Company. (See Safeway Stores, Inc., of Nevada.)

Turco Products, Inc., Los Angeles, Calif. Inhibitor for use in acid solutions in metal pickling and hard water scale removal operations. 401,314; May 11; Serial No. 442,641; published Mar. 2, 1943. Class 6.

Turner & Walls, assignor, by mesne assignments, to Albert H. Vandam Co., Inc., New York, N. Y. Piece goods. 172,925; renewed Sept. 11, 1943.

U. S. Vitamin Corporation, New York, N. Y. Concentration of natural vegetable oils. 401,359; May 11; Serial No. 457,353; published Feb. 23, 1943. Class 6.

Vandam, Albert H., Co., Inc. (See Turner & Walls, assignor.)

Van Straaten, Herbert, doing business as van Straaten Chemical Co., Chicago, Ill. Metal degreasing and metal washing compounds. 401,338; May 11; Serial No. 456,348; published Feb. 16, 1943. Class 6.

Victory Chemical Co. (See Kawerk, Roch D.)

Vincent, Otto J., doing business as Bemco Mfg. Co., Seattle, Wash. Combination beverage coolers and dispensers, reach-in coolers and refrigerators, walk-in refrigerator cabinets, etc. 401,320; May 11; Serial No. 450,129; published Mar. 2, 1943. Class 31.

Walker, Wendell, doing business as Kaynine Products, Chicago, Ill. Compound for application to carpets and upholstery to prevent stains by dogs and cats. 401,349; May 11; Serial No. 456,997; published Mar. 2, 1943. Class 6.

Wallace & Tiernan Products, Inc., Belleville, N. J. Germicidal compositions. 401,382; May 11; Serial No. 457,799; published Mar. 2, 1943. Class 6.

Weichsel Laboratories, to Wirt Davis, Dallas, Tex., successor. Shaving creams and shaving sticks. 165,142; renewed Mar. 6, 1943.

Whitney Metal Tool Company, Rockford, Ill. Metal punching tools and dies. 172,425; renewed Aug. 28, 1943.

Willats, Marietta B., doing business as "Dolly Varden Co.," Los Angeles, Calif. Toilet preparations. 169,618; renewed June 26, 1943.

Winter, J. C., & Company, Inc. (See Mazer Cigar Manufacturing Company.)

Winthrop Chemical Company. (See Farbenfabriken vorm. Friedr. Bayer & Co., assignor.)

Winthrop Chemical Company, Inc. (See Kalle & Co., Aktiengesellschaft, assignor.)

Winthrop Chemical Company, Inc., New York, N. Y. Vitamin and mineral mixture to be added to flour. 401,347; May 11; Serial No. 456,912; published Feb. 23, 1943. Class 6.

Wright-Dayton Company, The, Dayton, Ohio. Toy monoplanes. 401,334; May 11; Serial No. 455,550; published Mar. 2, 1943. Class 22.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Plastic and elastic substance useful as a rubber substitute. A. J. Kraus. 401,317; May 11; Serial No. 448,914; published Mar. 2, 1943.

CLASS 2

Cellulose sausage casings. Sylvania Industrial Corporation. 401,329–30; May 11; Serial Nos. 454,155–6; published Mar. 2, 1943.

Compact cases for both loose and caked powder. Empty. Lucien Lelong, Inc. 401,346; May 11; Serial No. 456,851; published Mar. 2, 1943.

CLASS 3

Belts, Money. S. Sherman. 401,363; May 11; Serial No. 457,516; published Feb. 23, 1943.

Kit, Apron toilet. B. E. Rhodes. 401,402; May 11.

CLASS 4

Creams and shaving sticks, Shaving. Weichsel Laboratories. 165,142; renewed Mar. 6, 1943.

Paper, Abrasive. Minnesota Mining & Manufacturing Company. 167,713; renewed May 8, 1943.

Soap, Toilet. Colgate & Co. 23,632; re-renewed Sept. 19, 1943.

Washing fluid. Fluid Chemical Company. 168,865; renewed May 29, 1943.

CLASS 6

Alkaline effervescent tablets. Effervescent Products, Inc. 401,312; May 11; Serial No. 430,126; published Mar. 2, 1943.

Brazing fluxes. Scaife Company. 401,378; May 11; Serial No. 457,710; published Feb. 23, 1943.

Bubble bath preparation. Prince Matchabelli Inc. 401,327; May 11; Serial No. 453,424; published July 28, 1942.

Castor oil. R. D. Kawerk. 401,319; May 11; Serial No. 449,524; published Dec. 15, 1942.

Chemical and medicinal preparations. Stewart & Holmes Drug Co. 173,240; renewed Sept. 18, 1943.

Compound for application to carpets and upholstery to prevent stains by dogs and cats. W. Walker. 401,349; May 11; Serial No. 456,997; published Mar. 2, 1943.

Cream, complexion cream, complexion powder, etc., Make-up. Cosmetics Inc. 401,328; May 11; Serial No. 453,717; published Mar. 2, 1943.

Dental cream. Colgate-Palmolive-Peet Company. 401,343; May 11; Serial No. 456,680; published Mar. 2, 1943.

Fire extinguishing preparations. American-LaFrance-Foamite Corporation. 401,335; May 11; Serial No. 455,878; published Feb. 23, 1943.

Germicidal compositions. Wallace & Tiernan Products, Inc. 401,382; May 11; Serial No. 457,799; published Mar. 2, 1943.

Germicide for control of pulp and paper mill slimes, Packaged. Hamilton Laboratories, Inc. 401,376; May 11; Serial No. 457,679; published Feb. 16, 1943.

Hair tonic. J. J. Fox. 172,567; renewed Sept. 11, 1943.

Inhibitor for use in acid solutions in metal pickling and hard water scale removal operations. Turco Products, Inc. 401,314; May 11; Serial No. 442,641; published Mar. 2, 1943.

Insecticide. Dow Chemical Company. 401,370; May 11; Serial No. 457,604; published Feb. 23, 1943.

Medicinal compound for diseases of the stomach. Charles F. Dare & Son. 169,779; renewed July 3, 1943.

Medicinal compounds. C. Salazar. 401,355; May 11; Serial No. 457,210; published Feb. 23, 1943.

Medicinal preparation. L. W. Mills. 401,368; May 11; Serial No. 457,589; published Feb. 23, 1943.

Medicinal preparations. Stewart & Holmes Drug Co. 173,165; renewed Sept. 18, 1943.

Medicinal products. C. A. F. Kahlbaum Chemizche Fabrik Gesellschaft mit beschränkter Haftung. 172,739; renewed Sept. 11, 1943.

Metal degreasing and metal washing compounds. H. van Straaten. 401,338; May 11; Serial No. 456,348; published Feb. 16, 1943.

Mineral tanning material. Röhm & Haas Company. 401,381; May 11; Serial No. 457,782; published Mar. 2, 1943.

Oils, Concentration of natural vegetable. U. S. Citamin Corporation. 401,359; May 11; Serial No. 457,353; published Feb. 23, 1943.

Ointment base, Completely washable. J. Leon Lascoff & Son. 401,366; May 11; Serial No. 457,576; published Feb. 23, 1943.

Ointment for external use. Fellows Medical Manufacturing Company. 401,354; May 11; Serial No. 457,200; published Feb. 23, 1943.

Perfumes. G. R. Parkinson. 401,401; May 11.

Perfumes and toilet water. Renoir Parfums, Ltd. 401,373; May 11; Serial No. 457,656; published Feb. 23, 1943.

Perfumes and toilet water. Renoir Parfums, Ltd. 401,374; May 11; Serial No. 457,658; published Feb. 23, 1943.

Perfumes, eaux de cologne, dentifrices, etc. Leron of Paris. 401,391; May 11.

Pharmaceutical product. Kalle & Co., Aktiengesellschaft. 173,150; renewed Sept. 18, 1943.

Plasticized coumarone-indene polymer compositions adapted for the weatherproofing of textile fabrics. Neville Company. 401,352; May 11; Serial No. 457,066; published Mar. 2, 1943.

Powder, Toilet. E. Fougera & Co. 173,104; renewed Sept. 18, 1943.

Preparation for use in alleviating simple digestive disturbances. Z. Rosalak. 401,400; May 11.

Preparation in solid block form for application to the face after shaving. Ira J. Shapiro Co. Inc. 401,367; May 11; Serial No. 457,578; published Feb. 23, 1943.

Product for neutralizing an acid ingredient in the manufacture of commercial fertilizers. National Lime & Stone Company. 401,372; May 11; Serial No. 457,630; published Feb. 23, 1943.

Products, which, when injected into the patient, produces and/or stimulates antitoxic and antibacterial substances. National Drug Company. 401,385; May 11; Serial No. 457,920; published Mar. 2, 1943.

Remedy to be used as sedative or hypnotic. Farbenfabriken vorm. Friedr. Bayer & Co. 172,744; renewed Sept. 11, 1943.

Salve. R. C. Kawerk. 401,313; May 11; Serial No. 441,577; published June 17, 1941.

Salve for treatment of sore muscles, aches and pains, and for external application in the treatment of colds. Goodwill Industry, Dr. J. Q. A. Martin, Incorporated. 401,364; May 11; Serial No. 457,545; published Mar. 2, 1943.

Starch tablets. Blue Suds Company. 401,379; May 11; Serial No. 457,716; published Mar. 2, 1943.

Therapeutic food preparation containing vitamins and minerals in a carrier. T. J. Ryan, Jr. 401,341; May 11; Serial No. 456,567; published Feb. 23, 1943.

Toilet preparations. M. B. Willats. 169,618; renewed June 26, 1943.

Tonic. O. L. Roberts. 165,803; renewed Mar. 20, 1943.

Vaginal jelly. Julius Schmid, Inc. 401,369; May 11; Serial No. 457,592; published Feb. 23, 1943.

Vitamin and mineral mixture to be added to flour. Winthrop Chemical Company. 401,347; May 11; Serial No. 456,912; published Feb. 23, 1943.

CLASS 11

Carbon paper, Duplicating. Standard Mailing Machines Company. 401,318; May 11; Serial No. 449,069; published Mar. 2, 1943.

CLASS 12

Cements. Lava Crucible Company of Pittsburgh. 169,288; renewed June 12, 1943.

Lumber impregnated to protect it against fire, decay, and insect attack. Protexol Corporation. 401,345; May 11; Serial No. 456,807; published Mar. 2, 1943.

Roofing cement, bituminous base coating compositions for roofs and other construction purposes, pitch, etc. Allied Chemical & Dye Corporation. 401,340; May 11; Serial No. 456,484; published Mar. 2, 1943.

Structural elements for assembly into housing units, packaged. Pacific Huts, Inc. 401,358; May 11; Serial No. 457,342; published Mar. 2, 1943.

CLASS 13

Chains, hooks, and parts therefor. Nonskid. Newhall Chain Forge & Iron Co. 168,908; renewed May 29, 1943.

Screws, bolts, nuts, etc. Guest, Keen & Nettlefolds Limited. 173,434; renewed Sept. 25, 1943.

CLASS 14

Magnesium and magnesium alloys. Diamond Magnesium Company. 401,360; May 11; Serial No. 457,361; published Mar. 2, 1943.

Tool steel in the form of bars, billets, sheets and strips. Hoyland Steel Company. 401,361; May 11; Serial No. 457,363; published Mar. 2, 1943.

CLASS 15

Grease, Lubricating. National Refining Company. 172,245; renewed Aug. 28, 1943.

Oils and greases. Humble Oil & Refining Company. 166,460; renewed Apr. 3, 1943.

Oils and greases, Lubricating. Cato Oil and Grease Co. 173,461; renewed Sept. 25, 1943.

Oils and greases, Lubricating. G. B. Carran. 173,468; renewed Sept. 25, 1943.

Oils, Lubricating. Atlantic Refining Company. 401,315; May 11; Serial No. 448,896; published Mar. 2, 1943.

Oils, Lubricating. Atlantic Refining Company. 401,316; May 11; Serial No. 448,890; published Mar. 2, 1943.

Oils, Lubricating. Atlantic Refining Company. 401,398; May 11.
Paraffin. Barnsdall Refining Company. 164,657; renewed Feb. 27, 1943.
Petroleum products. Seaside Oil Company. 166,496; renewed Apr. 3, 1943.
Solutions of waxy material, Fruit coating. Food Machinery Corporation. 401,326; May 11; Serial No. 453,327; published Mar. 2, 1943.

CLASS 16

Elastic compound in the nature of putty of glazing composition for setting glass in wood sash. Plastic Products Company. 401,321; May 11; Serial No. 450,145; published Mar. 2, 1943.
Paint, Flat wall finish. Hall Hardware Company. 401,344; May 11; Serial No. 456,798; published Mar. 2, 1943.

CLASS 17

Cigars. Mazer Cigar Manufacturing Company. 164,907; renewed Feb. 27, 1943.
Cigars and tobacco clippings. J. J. Hennessy. 401,392; May 11.

CLASS 19

Caster hand trucks for moving heavy loads. F. Carrara. 401,339; May 11; Serial No. 456,417; published Mar. 2, 1943.
Control handles for aircraft and control wheels for aircraft. Guardian Electric Manufacturing Co. 401,353; May 11; Serial No. 457,119; published Mar. 2, 1943.
Propellers and parts thereof. General Motors Corporation. 401,395–6; May 11.
Shock absorbers and shock absorber parts, Airplane type. Monroe Auto Equipment Company. 401,399; May 11.

CLASS 21

Transformers and parts therefor. American Transformer Company. 172,013; renewed Aug. 21, 1943.
Vacuum cleaners, Electric. Birtman Electric Company. 172,301; renewed Aug. 28, 1943.

CLASS 22

Balls, Golf. Jordan Marsh Company. 172,339; renewed Aug. 28, 1943.
Cards, Toy. H. N. Pedersen. 401,377; May 11; Serial No. 457,708; published Mar. 2, 1943.
Dolls. American Character Doll Co. 173,314; renewed Sept. 18, 1943.
Fishing and casting lines. Firestone Tire & Rubber Co. 401,387; May 11.
Kits for making sets of model airplanes, Parts. Joe Ott Manufacturing Co. 401,350; May 11; Serial No. 457,047; published Feb. 23, 1943.
Monoplanes, Toy. Wright-Dayton Company. 401,334; May 11; Serial No. 455,550; published Mar. 2, 1943.
Toboggans. New England Box Company. 401,322; May 11; Serial No. 450,209; published Mar. 2, 1943.

CLASS 23

Bits and augers. Irwin Auger Bit Company. 173,205–7; renewed Sept. 18, 1943.
Bits and augers. Irwin Auger Bit Company. 173,315–17; renewed Sept. 18, 1943.
Tools and dies, Metal punching. Whitney Metal Tool Company. 172,425; renewed Aug. 28, 1943.
Tools, knives and machines. Smith & Hemenway Company. 169,874; renewed July 3, 1943.

CLASS 25

Banks, Savings. Standard Oil Company of California. 401,325; May 11; Serial No. 452,872; published July 28, 1942.
Locks, Coin-controlled. Michigan Coin Lock Company. 171,815; renewed Aug. 14, 1943.

CLASS 27

Watches, watch movements and watch parts. Kelbert Watch Company. 401,388; May 11.

CLASS 28

Articles made wholly or in part of gold or silver or of gold plate or silver plate. Louis Stern Company. 166,586; renewed Apr. 10, 1943.
Flatware, hollow ware, tableware, Sterling silver. Aluminum Cooking Utensil Company. 401,394; May 11

CLASS 29

Brushes, Paint. Patterson-Sargent Company. 401,351; May 11; Serial No. 457,048; published Feb. 23, 1943.

CLASS 31

Coolers, Beverage. M. M. Fibus. 401,383; May 11; Serial No. 457,827; published Mar. 2, 1943.
Coolers and dispensers, reach-in coolers and refrigerators, walk-in refrigerator cabinets, etc., Combination beverage. O. J. Vincent. 401,320; May 11; Serial No. 450,129; published Mar. 2, 1943.
Cooling towers and parts thereof, Liquid. Marley Company. 401,393; May 11.

CLASS 33

Glassware. Imperial Glass Corporation. 401,356; May 11; Serial No. 457,244; published Mar. 2, 1943.

CLASS 34

Ventilators, Industrial. American Larsen Ventilating Company. 173,142; renewed Sept. 18, 1943.

CLASS 35

Tires. Goodyear Tire & Rubber Company. 401,331; May 11; Serial No. 454,368; published Feb. 23, 1943.
Tires, Automobile. McCreary Tire & Rubber Company. 401,386; May 11.
Tires, Pneumatic vehicle. B. F. Goodrich Company 401,323; May 11; Serial No. 450,227; published Mar. 2, 1943.
Tires, Pneumatic vehicle. India Tire and Rubber Company. 169,141; renewed June 12, 1943.
Tires, tire casings, and inner tubes, Rubber. General Tire and Rubber Company. 169,130; renewed June 12, 1943.

CLASS 36

Musical instrument strings. Sears, Roebuck and Co. 401,375; May 11; Serial No. 457,662; published Feb. 23, 1943.

CLASS 37

Paper, paper napkins, paper towels, etc., Toilet. Fort Howard Paper Company. 172,017; renewed Aug. 21, 1943.
Paper, paper napkins, paper towels, etc., Toilet. Fort Howard Paper Company. 172,084; renewed Aug. 21, 1943.
Paper and envelopes, Writing. Miamisburg Paper Co. 166,274; renewed Mar. 27, 1943.
Toilet tissue and paper towels. A. P. W. Paper Company. 401,333; May 11; Serial No. 455,469; published Nov. 24, 1942.

CLASS 39

Clothing. Jordan March Company. 169,763; renewed July 3, 1943.
Dresses, Ladies', misses' and children's. Nickels Manufacturing Company. 169,770; renewed July 3, 1943.
Hats. J. T. Asch & Sons. 165,674; renewed Mar. 20, 1943.
Hosiery. Dayton Hosiery Mills. 173,205; renewed Sept. 18, 1943.
Hosiery. Powell Knitting Co. 173,430; renewed Sept. 25, 1943.
Hosiery and sweaters, scarfs, caps, etc. A. B. Frank Company. 173,177; renewed Sept. 18, 1943.
Hosiery, Ladies'. Ben Levene Inc. 173,395; renewed Sept. 25, 1943.
Shoes, Misses', boys' and children's. Jordan Marsh Company. 166,083; renewed Mar. 27, 1943.

CLASS 40

Shoelaces. D. Lippy. 401,389–90; May 11.

CLASS 42

Blankets and comforters. Fuld Brothers. 172,933; renewed Sept. 11, 1943.
Piece goods. Turner & Walis. 172,925; renewed Sept. 11, 1943.

CLASS 44

Bandages and absorbent cotton for surgical and hospital use, Gauze. Marsales Co. Inc. 401,348; May 11; Serial No. 456,946; published Mar. 2, 1943.
Bottles, hot-water bags, and syringes, Hot-water. Jordan Marsh Company. 169,476; renewed June 19, 1943.
Catheters. Eugene B. Baehr & Sons. 401,332; May 11; Serial No. 455,362; published Mar. 2, 1943.
Dental impression and reline material of methacrylate composition. Coralite Dental Products Company. 401,380; May 11; Serial No. 457,740; published Mar. 2, 1943.
Dental materials for repairing teeth. American Dental Company. 401,371; May 11; Serial No. 457,621; published Mar. 2, 1943.

CLASS 45

Beverages, Nonalcoholic, noncereal, maltless. Coca-Cola Bottling Co. 165,684; renewed Mar. 20, 1943.

CLASS 46

Apples. Victor Joseph Co. 401,384; May 11; Serial No. 457,831; published Mar. 2, 1943.
Canned fish, canned fruits, canned fruit juices, etc. Gristede Bros. Inc. 401,324; May 11; Serial No. 452,474; published Mar. 2, 1943.
Canned fruits and vegetables. Comstock Canning Corporation. 401,362; May 11; Serial No. 457,413; published Mar. 2, 1943.
Canned peeled tomatoes, roasted peppers, and tomato sauce. P. Pastene & Co. 166,452; renewed Apr. 3, 1943.

Canned salmon. Oceanic Sales Company. 401,397; May 11.
Chili sauce. Safeway Stores, Inc., of Nevada. 401,342; May 11; Serial No. 456,570; published Mar. 2, 1943.
Coffee and tea. Eagle Tea & Coffee Company. 171,164; renewed July 31, 1943.
Flour, Self-rising wheat. City Mills Company. 166,146; renewed Mar. 27, 1943.
Flour, Self-rising. J. A. Smith & Company. 173,491; renewed Sept. 25, 1943.
Flour, Wheat. Imperial Flour Mills Co. 166,135; renewed Mar. 27, 1943.
Food products. Login Corporation. 401,337; May 11; Serial No. 456,315; published Mar. 2, 1943.
Food, Specially-prepared. Mead Johnson & Company. 173,340; renewed Sept. 25, 1943.
Mayonnaise, oil salad dressings, sandwich spreads. J. P. Kuertz. 401,365; May 11; Serial No. 457,546; published Mar. 2, 1943.
Milk and cream. Beatrice Creamery Company. 173,261; renewed Sept. 18, 1943.
Milk and evaporated milk, Condensed. Dairymen's League Co-Operative Association, Inc. 173,135; renewed Sept. 18, 1943.
Oysters and oysters in the shell, Raw. McNasby Oyster Company. 172,946; renewed Sept. 11, 1943.
Vegetables, Fresh. O. R. Recker. 401,357; May 11; Serial No. 457,300; published Mar. 2, 1943.

CLASS 50

Advertising signs. American Art Works, Inc. 401,336; May 11; Serial No. 456,256; published Mar. 2, 1943.
Bottle closures of the crown type. New Proces Cork Company. 173,124; renewed Sept. 18, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Chromogen, Incorporated. (See Gáspár, Béla, assignor.)

Gáspár, Béla, Hollywood, Calif., assignor to Chromogen, Incorporated. Production of colored photographic pictures. Re. 22,308; May 11.

Guarnaschelli, Stephen, Mount Vernon, assignor to Packless Metal Products Corporation, New York, N. Y. Coupling. Re. 22,309; May 11.

Litecontrol Corporation. (See Roy, Walter L., assignor.)

Nelson, Edward F., Vallejo, Calif. Mechanism for butt welding. Re. 22,310; May 11.

Packless Metal Products Corporation. (See Guarnaschelli, Stephen, assignor.)

Roy, Walter L., Saugus, assignor to Lite-Control Corporation, Boston, Mass. Louver blind. Re. 22,311; May 11.

LIST OF PLANT PATENTEES

Byrum, Roy L., assignor to Joseph H. Hill Company, Richmond, Ind. Rose plant. 582; May 11.

Hill, Joseph H., Company. (See Byrum, Roy L., assignor.)

Roberts, Stanley B., Madison. N. J. Rose plant. 583; May 11.

LIST OF DESIGN PATENTEES

Bailey, William S., Irvington, N. J. Flag. 135,658; May 11.

Borg-Warner Corporation. (See Zetterberg, Arvid P., assignor.)

Botany Worsted Mills. (See Goldsmith, Berthold, Jr., assignor.)

Brodsky, Samuel, Brooklyn, N. Y. Combined memorandum pad, pencil, and holder therefor, or similar article. 135,675; May 11.

Brodsky, Samuel, Brooklyn, N. Y. Combined memorandum pad, pencil, and holder therefor, or similar article. 135,676; May 11.

Brush Development Company, The. (See Williams, A. L. W., and Rutter, assignors.)

Burford, Walter J., Baltimore, Md. Food mixer. 135,647; May 11.

Cochran, Avery M., U. S. Army, Colorado Springs, Colo. Front door panel for camp stoves. 135,652; May 11.

Corey, Flournoy, Cedar Rapids, and M. J. Fletcher, Des Moines, assignors to Pickwick Corporation, Cedar Rapids, Iowa. Poultry picking machine. 135,668; May 11.

Dugas Engineering Corporation. (See Hastert, Harley G., assignor.)

Electric Arc, Inc. (See Holslag, Claude J., assignor.)

Feilchenfeld, Arthur, Jr. (See Utley, R. C., and Feilchenfeld.)

Fletcher, Maurice J. (See Corey, F., and Fletcher.)

Fletcher, William G., Bogota, N. J. Game board. 135,681; May 11.

Franceschi, Rolando V., Yauco, P. R. Automobile ornament. 135,659; May 11.

Geddes, Walter H., assignor to United Aircraft Products, Inc., Dayton, Ohio. Temperature regulator. 135,682; May 11.

Goldsmith, Berthold, Jr., Woodmere, N. Y., assignor to Botany Worsted Mills, Passaic, N. J. Font of type. 135,683; May 11.

Hastert, Harley G., assignor to Dugas Engineering Corporation, Marinette, Wis. Package for fire extinguishing material or similar article. 135,677; May 11.

Hettrick Manufacturing Company, The. (See Smith, William I., assignor.)

Hirsch, Mano, New York, N. Y. Doll. 135,684; May 11.

Hirson, Samuel L., Los Angeles, Calif. Brooch pin or similar article. 135,653; May 11.

Holslag, Claude J., South Orange, assignor to Electric Arc, Inc., Newark, N. J. Engine-driven plural-electric-generator power set. 135,648; May 11.

Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)

Hovey, C. Earl. (See Sherman, C. G., and Ryan, assignors.)

Kamenstein, David. (See Kapner, T., and Kamenstein.)

Kapner, Thomas, Bellaire, Ohio, and D. Kamenstein, New York, N. Y. Casserole. 135,649; May 11.

Karlen, Lena, New York, N. Y. Scarf hat or similar article. 135,678; May 11.

Kirchen, Theodore, Chicago, Ill. Artificial wreath. 135,660; May 11.

Krauter, Erich O., U. S. Army. Spring shackle bolt. 135,661; May 11.

Lentherie, Incorporated. (See McIntosh, Frank, assignor.)

Logan Engineering Co. (See Logan, Henry H., assignor.)

Logan, Henry H., assignor to Logan Engineering Co., Chicago, Ill. Bench for lathes or the like. 135,669; May 11.

Marchand, Adolph, Jackson Heights, N. Y. Cabinet door. 135,654; May 11.

Matignon, Edmond C., Oakland, Calif. Nail or similar article. 135,662; May 11.

McIntosh, Frank, assignor to Lentheric, Incorporated, New York, N. Y. Bottle. 135,679; May 11.

Mikesell, Herbert S., Richmond, Ind. Banner or the like. 135,663; May 11.

Miles, Majel J., New York, N. Y. Bathing suit or similar article. 135,670; May 11.

Moran, Ralph V., Bradford, Pa. Coin bank. 135,671; May 11.

Moran, Ralph V., Bradford, Pa. Coin bank. 135,672; May 11.

Morrow, Clarence H., Shaker Heights, assignor to The Hotstream Heater Company, Cleveland, Ohio. Heat-absorbing water conduit for tank water heaters. 135,655; May 11.

Pickwick Corporation. (See Corey, F., and Fletcher, assignors.)

Pollard, Willard L., Evanston, Ill. Book holder. 135,664; May 11.

Rutter, Donald E. (See Williams, A. L. W., and Rutter.)

Ryan, William P. (See Sherman, C. G., and Ryan.)

Sherman, Charles G., and W. P. Ryan, assignors to C. Earl Hovey, Kansas City, Mo. Battery charger. 135,650; May 11.

Smith, William I., Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Juvenile vehicle. 135,673; May 11.

Spilka, Adelle G., New York, N. Y. Artificial corsage. 135,665; May 11.

Spilka, Adele G., New York, N. Y. Artificial boutonniere. 135,666; May 11.

Sullivan, Patrick, Brookline, Mass. Airplane. 135,667; May 11.

United Aircraft Products, Inc. (See Geddes, Walter H., assignor.)

Utley, Ray C., and A. Feilchenfeld, Jr., Chicago, Ill. Hat steamer. 135,680; May 11.

Vassallo, Peter, Avalon, N. J. Refrigerator cabinet. 135,651; May 11.

Williams, Alfred L. W., Cleveland Heights, and D. E. Rutter, East Cleveland, assignors to The Brush Development Company, Cleveland, Ohio. Earphone. 135,674; May 11.

Williams, William G., Anaheim, Calif. Tie rack. 135,656; May 11.

Zetterberg, Arvid P., New Castle, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Shovel rack. 135,657; May 11.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrahamsen, Alfred W., Hempstead, N. Y. Scraping tool. 2,318,585; May 11.

Abramson, Alvin A., and C. Manthey, assignors to Central States Paper & Bag Company, St. Louis, Mo. Container-making machine. 2,319,099; May 11.

Acme Visible Records, Inc. (See Rakow, Melvin H., assignor.)

Adam, Louis D., Ponca City, Okla., assignor to The American Fork & Hoe Company, Cleveland, Ohio. Fishing lure. 2,319,026; May 11.

Agicide Laboratories, Inc. (See Van der Pyl, Edward, assignor.)

Aker, Evender S., Belleville, N. J. Universal joint. 2,319,027; May 11.

Aktiengesellschaft Brown, Boveri & Cie. (See Halm, Alfred, assignor.)

Albers, Fritz, Leverkusen-Wiesdorf, and A. Allendörfer, Leverkusen-I. G. Werk, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Adhesive. 2,319,102; May 11.

Alden, Milton, Brockton, Mass. Electrical socket. 2,318,912; May 11.

Aldrich, Loyd I., Wyoming, Ill. Water heater. 2,318,913; May 11.

Alexander, Robert C., Pawtucket, R. I., assignor to United States Rubber Company, New York, N. Y. Deposited latex articles. 2,318,657; May 11.

Alien Property Custodian. (See Conffignal, Pierre L.)

Alien Property Custodian. (See Picard, R., and Fays.)

Alien Property Custodian. (See Pier, M., and Christmann.)

Alien Property Custodian. (See Pier, M., and Donath.)

Allen, Howard G., Niagara Falls, assignor to Bagpak, Inc., New York, N. Y. Tape severing mechanism. 2,319,103; May 11.

Allendörfer, Arthur. (See Alvers, F., and Allendöfer.)

Allied Chemical & Dye Corporation. (See Bulifant, Theodore A., assignor.)

Alvey Conveyor Manufacturing Co. (See Alvey, John M., assignor.)

Alvey, John M., Glendale, assignor to Alvey Conveyor Manufacturing Co., St. Louis, Mo. Bucket conveyer. 2,318,658; May 11.

American Can Company. (See Erb, George C., assignor.)

American Can Company. (See Peterson, Howard B., assignor.)

American Coach and Body Company, The. (See Troche, H. J., and Kelleher, assignors.)

American Cyanamid Company. (See Ashley, Kenneth D., assignor.)

American Cyanamid Company. (See King, V. L., Foote, and Felch, assignors.)

American Cyanamid Company. (See Lacey, Harold T., assignor.)

American Cyanamid Company. (See Stiegler, H. W., and Hood, assignors.)

American Fork & Hoe Company, The. (See Adam, Louis D., assignor.)

American Fork & Hoe Company, The. (See Wood, Conrad, assignor.)

American Hardware Corporation, The. (See Welch, Nicholas A., assignor.)

American Hospital Supply Corporation. (See Sanders, Clarence E., assignor.)

American Locomotive Company. (See Anderson, J. W., and Nichols, assignors.)

American Locomotive Company. (See Miller, R., Jansen, and Anderson, assignors.)

American Machine & Foundry Company. (See Arelt, Charles, assignor.)

American Sales Book Company. (See Sornberger, George E., assignor.)

American Sandpaper Company. (See Upton, George, assignor.)

American Securit Company, The. (See Bird, George W. T., assignor.)

American Steel and Wire Company of New Jersey, The. (See Febrey, Harold H., assignor.)

American Steel and Wire Company of New Jersey, The. (See Leonard, William E., assignor.)

American Stove Company. (See Lotter, William, assignor.)

American Viscose Corporation. (See Humphrey, James W., assignor.)

Amidon, Roy C., Reading, assignor to Vanity Fair Mills, Inc. Pointed bearded knitting machine needle. 2,318,586; May 11.

Anderson, Edmund B., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Constant velocity joint. 2,319,100; May 11.

Anderson, John W., and W. M. Nichols, Auburn, assignors to American Locomotive Company, New York, N. Y. Internal combustion engine. 2,318,914; May 11.

Anderson, John W., and W. M. Nichols, Auburn, assignors to American Locomotive Company, New York, N. Y. Internal combustion engine. 2,318,915; May 11.

Anderson, John W. (See Miller, R., Jansen, and Anderson.)

Anderson, Sidney S., Hattiesburg, Miss. Bottle construction with temperature indicator. 2,319,101; May 11.

Andreef, Alexis D., Montreal, Quebec, Canada. Tennis racket. 2,318,916; May 11.

Andrews, Agnes M., Jersey City, N. J. Soap holder. 2,319,104; May 11.

Andrews, James D., Jr., United States Army, San Francisco, Calif. Subaqueous grading apparatus. 2,318,587; May 11.

Antonidis, John E. (See Claytor, E. M., and Antonidis.)

Arden, Thomas R., Danbury, Conn. Fuel tank. 2,318,917; May 11.

Arelt, Charles, Richmond Hill, N. Y., assignor to American Machine & Foundry Company. Tobacco feed for cigarette machines. 2,318,588; May 11.

Arena, Joseph, Brooklyn, N. Y. Shoe polish brush. 2,319,028; May 11.

Armington, George E., South Euclid, and R. Q. Armington, Shaker Heights, assignors to The Euclid Road Machinery Company, Euclid, Ohio. Pipe coupling. 2,318,575; May 11.

Armington, Raymond Q. (See Armington, George E. and R. Q.)

Arnold, Gerald W., Wauwatosa, Wis. Preserving elements of organic materials. 2,318,576; May 11.

Ashley, Kenneth D., Darien, Conn., assignor to American Cyanamid Company, New York, N. Y. Nitroguanidine. 2,318,577; May 11.

Atchison, Leonard W., Schenectady, N. Y., assignor to General Electric Company. Refrigerator cabinet. 2,318,984; May 11.

Atlas Floor Surfacing Machinery Corporation. (See Okun, Nathaniel N., assignor.)

Atlas Powder Company. (See Brown, Kenneth R., assignor.)

Atwood, Robert V., Springfield, and S. K. Smart, Longmeadow, assignors to Wico Electric Company, West Springfield, Mass. Distributor. 2,318,659; May 11.

Austenal Laboratories, Inc. (See Feagin, R. C., and Prange, assignors.)

Austin, Albert B., Minneapolis, Minn. Traction device for automobiles. 2,318,918; May 11.

Auto Wheel Coaster Company. (See Klatt, R. A., and Schingeck, assignors.)

Autographic Register Company. (See Borchers, William G., assignor.)

Automotive Products Company. (See Chouings, Leslie C., assignor.)

Avery, George S., Jr., New London, Conn., assignor to The Dow Chemical Company, Midland, Mich. Plant treatment composition. 2,318,733; May 11.

Baak, Albert E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Snap action switch. 2,318,734; May 11.

Babcock, David L., and T. G. Clement, assignors to Eastman Kodak Company, Rochester, N. Y. Slide carrier. 2,319,029; May 11.

Badertscher, Darwin E., and H. G. Berger, Woodbury, and F. M. Seger, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Perchloromethyl mercaptan reaction product. 2,319,183; May 11.

Bagpak, Inc. (See Allen, Howard G., assignor.)

Baker, Charles I., West Hickory, Pa. Gas burner. 2,318,985; May 11.

Baker, Craig C., Los Angeles, Calif. Matrix drying and forming machine. 2,319,030; May 11.

Baker, Craig C., Los Angeles, Calif. Matrix drying and forming machine. 2,319,031; May 11.

Balsiger, Harold E. (See Price, R. E., and Balsiger.)

Balz, Louise M. (See Balz, W. G., assignor, and Davidson.)

Balz, William G., Kalamazoo, and L. R. Davidson, Sturgis, said W. G. Balz, assignor to L. M. Balz, Kalamazoo, Mich. Method of preparing polishing material for tumbling barrels. 2,318,578; May 11.

Balz, William G., Kalamazoo, and L. R. Davidson, Sturgis, said W. G. Balz, assignor to L. M. Balz, Kalamazoo, Mich. Tumbling material for polish finishing metal articles and method. 2,318,579; May 11.

Balz, William G., Kalamazoo, and L. R. Davidson, Sturgis, said W. G. Balz assignor to L. M. Balz, Kalamazoo, Mich. Method and material for polishing metal articles. 2,318,580; May 11.

Balz, William G., Kalamazoo, and L. R. Davidson, Sturgis, said W. G. Balz assignor to L. M. Balz, Kalamazoo, Mich. Materials for use in tumbling barrel polishing and finishing and producing same. 2,318,581; May 11.

Bannon, Lewis A. (See Schneider, H. G., and Bannon.)

Bantam Bearings Corporation. (See Thomas, Stanley R., assignor.)

Barnette, Le Roy T., Detroit, Mich., assignor to The Standard Products Company, Port Clinton, Ohio. Making articles of manufacture. 2,318,589; May 11.

Barrett, Edward L., La Grange, assignor to The Barrett Engineering Company, Chicago, Ill. Automatic hydraulic transmission. 2,318,660; May 11.

Barrett Engineering Company, The. (See Barrett, Edward L., assignor.)

Bascom, Henry M., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Prepayment coin box system. 2,319,032; May 11.

Basinski, Leonard. (See Wallrath, B., and Basinski.)

Beardsley & Piper Company, The. (See Piper, Walter F., assignor.)

Beckmann, Raymond T., assignor of one-half to R. E. Beckmann, Kiel, Wis. Threshing machine. 2,318,661; May 11.

Beckmann, Roland E. (See Beckmann, Raymond T., assignor.)

Bell Aircraft Corporation. (See Woods, Robert J., assignor.)

Bell Punch Company Limited. (See Webb, C. F., and Brewerton, assignors.)

Bell Telephone Laboratories, Incorporated. (See Bascom, Henry M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bidwell, C. H., and Koos, assignors.)

Bell Telephone Laboratories, Incorporated. (See Rienstra, Albert R., assignor.)

Bell Telephone Laboratories, Incorporated. (See Swezey, Burdette S., assignor.)

Beloit Iron Works. (See Hornbostel, Lloyd, assignor.)

Benbow, Henry R., New Hartford, assignor to Divine Brothers Company, Utica, N. Y. Buffing wheel and making the same. 2,318,986; May 11.

Bendix Home Appliances, Inc. (See Sisson, K. O., and Bowyer, assignors.)

Bennett Incorporated. (See Eaton, Charles F., assignor.)

Berger, Carl W., McPherson, assignor to Globe Oil and Refining Company, Wichita, Kans. Refining hydrocarbon oils. 2,318,582; May 11.

Berger, Henry G. (See Badertscher, D. E., Berger, and Seger.)

Bernstein, Samuel S., Los Angeles, Calif. Suspension unit. 2,318,583; May 11.

Bernstein, Wilburn F., Brookfield, T. F. Mika and S. M. Lillis, Chicago, and O. L. Colwell, Cicero, assignors to Victor Manufacturing & Gasket Company, Chicago, Ill. Gasket material. 2,319,033; May 11.

Bettendorf Company, The. (See Kottman, A. A., and Rohlfing, asignors.)

Bickford, John A., Cleveland, Ohio. Clothespin carrier. 2,318,735; May 11.

Bidwell, Charles H., Riverdale, and P. V. Koos, Manhasset, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vacuum tube amplifying apparatus. 2,318,662; May 11.

Billner, Karl P., Philadelphia, Pa. Method of reinforcing concrete bodies. 2,319,105; May 11.

Bird, George W. T., Prescot, England, assignor to The American Securit Company, Wilmington, Del. Apparatus for tempering flat glass. 2,318,584; May 11.

Bird, Paul G., Western Springs, W. Evans and C. Harmon, Hinsdale, and J. R. Salvesen, Wausau, Wis., assignors to Marathon Paper Mills Company, Rothschild, Wis., and National Aluminate Corporation, Chicago, Ill. Composition and method for treating boiler water to prevent caustic embrittlement. 2,318,663; May 11.

Birdseye, Clarence, Gloucester, Mass., assignor to Mechanical Research, Inc., Providence, R. I. Art of treating food products. 2,318,736; May 11.

Birkigt, Louis, Versoix, near Geneva, Switzerland. System, in particular to internal combustion engine, including compressors. 2,318,834; May 11.

Bischoff, Ernst, Company. (See Truebe, C. E., Shahovskoy, and Levy, assignors.)

Black and Decker Manufacturing Company, The. (See Wilhide, Glenn C., assignor.)

Blackburn, Charles L., Westminster, assignor to Electrical Improvements Limited, Newcastle-on-Tyne, England. Electrical calculating machine. 2,319,106; May 11.

Blaylock, Aubrey C., Blytheville, Ark. Pneumatic mote remover. 2,318,737; May 11.

Blodjer, Andrew K. (See Roumage, C. C., and Blodjer.)

Blosser, Herman G., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Holding means for instruments. 2,318,738; May 11.

Bodine Corporation, The. (See Noel, Alfred J., assignor.)

Boles, Thomas J., Chattanooga, Tenn. Wrapping and winding machine. 2,318,739; May 11.

Bolten, John, Andover, Mass., and H. Spitz, Great Neck, N. Y. Garment hanger having suspension members of plastic material. 2,318,664; May 11.

Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Speed responsive device. 2,318,740. May 11.

Borchers, William G., assignor to Autographic Register Company, Hoboken, N. J. Manifolding register and method. 2,319,184; May 11.

Borg, Gustave A., assignor to General Fire Extinguisher Company, Providence, R. I. Compression coupling. 2,318,835; May 11.

Borg-Warner Corporation. (See Anderson, Edmund B., assignor.)

Borg-Warner Corporation. (See Gamble, David E., assignor.)

Borg-Warner Corporation. (See Nutt, Harold, assignor.)

Boucher, Frank G., Tulsa, Okla., assignor to Standard Oil Development Company. Measuring device. 2,318,665; May 11.

Bowen, Billi, and R. L. Houghton, assignors to Ideal Aeroplane & Supply Co., Inc., New York, N. Y. Uncoupling means for the cars of toy trains. 2,318,741; May 11.

Bowyer, Carl E. (See Sisson, K. O., and Bowyer.)

Boynton, Alexander, San Antonio, Tex. Thread lock. 2,318,590; May 11.

Bracke, R. F., & Company. (See Bracke, Robert F., assignor.)

Bracke, Robert F., Arlington Heights, assignor to R. F. Bracke & Company, Chicago, Ill. Sanitary apparatus. 2,319,034; May 11.

Brandt, Howard, New York, N. Y. Circuit controller. 2,319,107; May 11.

Breese, James L., Santa Fe, N. Mex. Ventilating apparatus and method. 2,319,035; May 11.

Brewer-Titchener Corporation, The. (See Johannsen, Udo K., assignor.)

Brewerton, Norman E. (See Webb, C. F., and Brewerton.)

Bristol Aeroplane Company Limited, The. (See Mansell, S. W., and Holloway, assignors.)

Britton, Edgar C., and W. J. Le Fevre, assignors to The Dow Chemical Company, Midland, Mich. Purification of partially oxidized styrene by treating with sodium bisulphite. 2,318,742; May 11.

Brockman, Charles J., Athens, Ga. Treatment of waste liquor. 2,318,919; May 11.

Broido, Daniel, London, England. Apparatus for assorting record cards, sheets and the like. 2,319,108; May 11.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Automatic loom. 2,318,743; May 11.

Brown, George B., Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Insulating. 2,318,744; May 11.

Brown, Kenneth R., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Ingredients for agricultural parasiticides. 2,318,920; May 11.

Bruce, William A., Tulsa, Okla., assignor to Standard Oil Development Company. Magnetic permeability indicator. 2,318,666; May 11.

Bruce, William A., Tulsa, Okla., assignor to Standard Oil Development Company. Testing weld joints. 2,318,667; May 11.

Budd, Edward G., Manufacturing Company. (See Weightman, William A., assignor.)

Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)

Bulifant, Theodore A., Hackensack, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Rubber compounding. 2,318,745; May 11.

Bulifant, Theodore A., Hackensack, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Compounding rubber. 2,318,746; May 11.

Bullard, Harold C., Nashua, N. H. Cabinet. 2,318,921; May 11.

Bulloch, George C., Rockford, Ill. Exercising device. 2,319,109; May 11.

Burcky, Charles W., Park Ridge, assignor to Teletype Corporation, Chicago, Ill. Two-color ribbon mechanism. 2,319,036; May 11.

Butler, William L., Schenectady, N. Y., assignor to General Electric Company. Circuit breaker. 2,318,987; May 11.

Butte Electric Manufacturing Co. (See Nolde, George V., assignor.)

Buxton, Incorporated. (See Buxton, Warner R., assignor.)

Buxton, Loran O., assignor to National Oil Products Company, Harrison, N. J. Provitamin A extraction process. 2,318,747; May 11.

Buxton, Loran O., Belleville, N. J., and E. J. Simons, New York, N. Y., assignors to National Oil Products Company, Harrison, N. J. Refining and concentrating the unsaponifiable fraction of fats and oils. 2,318,748; May 11.

Buxton, Loran O., and H. B. Colman, Belleville, N. J., assignors to National Oil Products Company, Harrison, N. J. Production of fat-soluble vitamin concentrates. 2,318,749; May 11.

Buxton, Mabel A., executrix. (See Buxton, Warner R.)

Buxton, Warner R., deceased, M. A. Buxton, executrix, Longmeadow, Mass., assignor to Buxton, Incorporated. Fastening means for flexible members. 2,318,750; May 11.

Buxton, Warner R., Longmeadow, Mass., deceased, M. A. Buxton, Longmeadow, Mass., executrix, assignor to Buxton, Incorporated. Flexible pocket receptacle. 2,319,110; May 11.

California Walnut Growers' Association. (See Stevens, Le Roy L., assignor.)

Calkins, Austin E., Westfield, N. J., assignor to Standard Oil Development Company. Grease manufacture. 2,318,668; May 11.

Calvin, Forrest O., and W. G. Wilson, Kansas City, Mo., and T. R. Smith, Newton, Iowa, assignors to Movie-Mite Corporation, Kansas City, Mo. Sound motion picture projector. 2,319,111; May 11.

Carbide and Carbon Chemicals Corporation. (See Carruthers, T. F., and Stoops, assignors.)

Carbide and Carbon Chemicals Corporation. (See Wilson, Alexander L., assignor.)

Carruthers, Thomas F., South Charleston, and W. N. Stoops, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Making composite materials. 2,318,670; May 11.

Carington, Charles M., assignor to K. L. G. Sparking Plugs Limited, London, England. Sparking plug. 2,318,922; May 11.

Carlson, Philip, Long Hill, Conn. Vehicle seat. 2,318,751; May 11.

Carney, Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of gases. 2,318,752; May 11.

Carr, Donald E., assignor to Union Oil Company of California, Los Angeles, Calif. Oxidizing wax. 2,318,669; May 11.

Carter Carburetor Corporation. (See Korte, A. C., and Lannert, assignors.)

Carter, Willard K., Columbus, Ohio, assignor to National Aluminate Corporation, Chicago, Ill. Ceramics. 2,318,753; May 11.

Casco Products Corporation. (See Youhouse, Joseph, assignor.)

Castiglia, Biagis, assignor to Wheel Aligning Necessities, Inc., New York, N. Y. Model balancer. 2,319,037; May 11.

Cavadino, Conrad G. F., Rochester, assignor to Gyproc Products Limited, London, England. Aeration of plaster of Paris compositions. 2,318,754; May 11.

Cefoil Limited. (See Speakman, John B., assignor.)

Celanese Corporation of America. (See Dreyfus, Henry, assignor.)

Celanese Corporation of America. (See Moncrieff, R. W., and Sammons, assignors.)

Central States Paper & Bag Company. (See Abramson, A. A., and Manthey, assignors.)

Chamberlin Metal Weather Strip Company. (See Ingersoll, E. B., and Willett, assignors.)

Chamberlin Metal Weather Strip Company. (See Pillsbury; H. G., and Ingersoll, assignors.)

Channell, James W., San Marino, Calif. Distributing terminal. 2,318,755; May 11.

Chicago Die Casting Manufacturing Company. (See Koch, William P., assignor.)

Chilton Pen Company, The. (See Larmour, Thomas J., assignor.)

Chouings, Leslie C., assignor to Automotive Products Company, Limited, Leamington Spa, England. Brake for vehicles. 2,318,756; May 11.

Christianson, Oscar, trustee. (See Conradson, Conrad M., assignor.)

Christenson, George, Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Packing. 2,318,757; May 11.

Christman, John M., Grosse Pointe Woods, assignor to Packard Motor Car Company, Detroit, Mich. Engine. 2,319,113; May 11.

Christmann, Friedrich. (See Pier, M., and Christmann.)

Christoph, Edward A., Chicago, Ill. Holding device. 2,319,112; May 11.

Ciba Pharmaceutical Products, Incorporated. (See Miescher, K., and Wettstein, assignors.)

Cinch Manufacturing Corporation. (See Del Camp, Scipione M., assignor.)

Cincinnati Fly Screen Company, The. (See Milnor, Leland T., assignor.)

Clark, Harold T., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Testing apparatus. 2,318,923; May 11.

Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine cover plate. 2,318,836; May 11.

Claytor, Edward M., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Electric switch. 2,318,671; May 11.

Claytor, Edward M., and J. E. Antonidis, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Solenoid switch. 2,318,672; May 11.

Clement, Theodore G. (See Babcock, D. L., and Clement.)

Clements, E. H. (See Thomas, Claude C., assignor.)

Clemson Bros., Inc. (See Clemson, Richard D., assignor.)

Clemson, Richard D., assignor to Clemson Bros., Inc., Middletown, N. Y. Mower. 2,319,038; May 11.

Cleveland Pneumatic Tool Company, The. (See Lear, Earl B., assignor.)

Cleveland Pneumatic Tool Company, The. (See Speth, Lloyd G., assignor.)

Cleveland Welding Company, The. (See Mueller, Homer L., assignor.)

Cohn, Arthur D., New York, N. Y. Suspender belt. 2,318,924; May 11.

Coleman, George G., Greenville, Miss., assignor to Zeppo Parachute Attachment Company. Parachute harness and pack. 2,318,673; May 11.

Coleman, George G., Greenville, Miss., assignor to Zeppo Parachute Attachment Company. Parachute. 2,318,674; May 11.

Colman, Howard B. (See Buxton, L. O., and Colman.)

Colwell, Otha L. (See Bernstein, W. F., Mika, Lillis, and Colwell.)

Comfort, Edwin J., Minneapolis, Minn. Coin lock coat hanger. 2,319,039; May 11.

Congdon, Henry A., Kingston, R. I. Strawberry runner cutter. 2,318,675; May 11.

Conklin, Frederick R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Forming particles of thermoplastic materials. 2,319,040; May 11.

Connor, Kirke W., assignor to Micromatic Hone Corporation, Detroit, Mich. Piston ring honing method. 2,318,837; May 11.

Conradson, Conrad M., deceased, Detroit, Mich., F. R. Walter, administrator, assignor, by mesne assignments, to O. Christianson, Madison, Wis., as trustee. Hydrostatic mandrel. 2,318,838; May 11.

Consolidated Car-Heating Company. (See Hyatt, L. C., and Heyman, assignors.)

Cook, John V., assignor to The Petersen Oven Company, Chicago, Ill. Conveyer for baking ovens. 2,318,925; May 11.

Cook, Lyman, assignor to The Foxboro Company, Foxboro, Mass. Control apparatus. 2,319,114; May 11.

Cooper's, Incorporated. (See Kneibler, Arthur R., assignor.)

Cottrell, C. B., & Sons Company. (See Meyer, Joseph E., assignor.)

Couffignal, Pierre L., Brest, Finistere, France; vested in the Alien Property Custodian. Apparatus calling for a material representation of numbers. 2,318,591; May 11.

Craig, David, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Antioxidant. 2,318,758; May 11.

Craig, David, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company. Purification of butadiene. 2,318,988; May 11.

Crickmer, Charles S., Dallas, Tex. Swivel socket. 2,318,839; May 11.

Cridge, Edmund L., Passaic, N. J. Window frame and outer sash. 2,319,179; May 11.

Crimmel, Henry H., Hartford City, Ind. Composite agitator and drive with molded compression strain, driven element. 2,318,759; May 11.

Crompton, George, Jr., assignor to Norton Company, Worcester, Mass. Honing machine. 2,318,830; May 11.

Crouse, Oliver P., Mansfield, Ohio. Control device. 2,319,041; May 11.

Crowell, John E., Charlotte, N. C. Training device for aviators. 2,319,115; May 11.

Crowley, John A., Jr., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Clay activation. 2,319,185; May 11.

Crown Cork & Seal Company, Inc. (See Stewart, Robert J., assignor.)

Cube Steak Machine Company. (See Spang, Joseph P., assignor.)

Cullen-Friestedt Company. (See Mueller, George G., assignor.)

Cumfer, Harry A. (See Fischer, A. C., and Cumfer.)

Cupery, Martin E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrodeposition. 2,318,592; May 11.

Curtis, John C., Claremont, N. H., assignor to Sullivan Machinery Company. Support. 2,318,593; May 11.

Curtis, John C., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 2,318,594; May 11.

Curtis, John C., Claremont, N. H., assignor to Sullivan Machinery Company. Drill mounting. 2,318,595; May 11.

Curtis, John C., and E. G. Gartin, Claremont, N. H., assignors to Sullivan Machinery Company. Rock drill. 2,318,760; May 11.

Curtis, Roger C., New Haven, Conn., assignor to Dictaphone Corporation, New York, N. Y. Shielded amplifier reversing switch. 2,318,761; May 11.

Daniels, Claude H., Greenwich, Conn. Flexible insole and treatment thereof. 2,318,926; May 11.

Davenport, A. C., and Son, Inc. (See Davenport, Frank G., assignor.)

Davenport, Frank G., assignor to A. C. Davenport and Son, Inc., Chicago, Ill. Electric sign. 2,318,596; May 11.

Davey, Edward P., and E. B. Knott, Wealdstone, England, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic printing material. 2,318,597; May 11.

Davidson, Leo R. (See Balz, W. G., and Davidson.)

Davis, Allan C., assignor to F. A. Davis & Sons, Baltimore, Md. Case filling machine. 2,318,598; May 11.

Davis, Allan C., assignor to F. A. Davis & Sons, Baltimore, Md. Case filling machine. 2,318,927; May 11.

Davis, Alvin G., Long Beach, Calif. Multiple firing X type four cycle internal combustion engine. 2,318,599; May 11.

Davis, F. A., & Sons. (See Davis, Allan C., assignor.)

Davis, Gifford D., South Orange, N. J., and B. A. Dombrow, New York, N. Y., assignors to National Oil Products Company, Harrison, N. J. Treating ricinoleic acid compounds. 2,318,762; May 11.

Dearbaugh, Clifford E., Toledo, Ohio. Automatic safety switch for automotive vehicles. 2,318,989; May 11.

Deighton, Earl C., Westview, British Columbia, Canada. Grease gun cartridge. 2,318,928; May 11.

Deland, Benjamin, Cleveland, Ohio. Dispensing device. 2,318,676; May 11.

Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Molding and like fastener and installation thereof. 2,318,840; May 11.

Delson, Louis E., Chicago, Ill. War bond credit ration wallet with envelopes. 2,318,677; May 11.

Delta Nozzle Corp. (See Lewis, John O., assignor.)

Dennison Manufacturing Company. (See Phelan, Louis V., assignor.)

De Wyk, Ludolf H., Jr., Ansonia, assignor to The Sponge Rubber Products Company, Shelton, Conn. Vulcanizing running length of composite rubber strip and apparatus therefor. 2,319,042; May 11.

Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Anthraquinone compounds and cellulose derivatives colored therewith. 2,319,043; May 11.

Dickey, Joseph B. (See McNally, J. G., and Dickey.)

Dictaphone Corporation. (See Curtis, Roger C., assignor.)

Dictaphone Corporation. (See Yerkovich, Simon, assignor.)

Dietrich, Howard J., Conneaut, Ohio. Combination paint-brush and pail holder. 2,318,930; May 11.

Di Lemme, Philip, New York, N. Y. Improved outline chart or placard for paint sets. 2,319,044; May 11.

Di Lemme, Philip, New York, N. Y. Quiz game. 2,319,045; May 11.

Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Shipping container. 2,318,763; May 11.

Diver, Thomas S., Geneva, Ohio. Throttle control device for motor driven vehicles. 2,318,931; May 11.

Divine Brothers Company. (See Benbow, Henry R., assignor.)

Dixon, Paul H., Wenham, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Cementing machine for thin material. 2,318,600; May 11.

Dixon, Paul H., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shaping shoe uppers. 2,318,678; May 11.

Doble Engineering Company. (See Doble, Frank C., assignor.)

Doble, Frank C., Cambridge, assignor to Doble Engineering Company, Medford, Mass. Electrical means for indicating temperature conditions. 2,318,601; May 11.

Dodge, Howard M., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Upholstery cushion. 2,318,841; May 11.

Dodge, Lloyd L., Chicago, Ill., assignor to Rhinelander Paper Company, Rhinelander, Wis. Paper and making same. 2,319,116; May 11.

Dombrow, Bernard A. (See Davis, G. D., and Dombrow.)

Donath, Ernst. (See Pier, M., and Donath.)

Doran, John H., Scotia, N. Y., assignor to General Electric Company. Radial flow elastic fluid turbine or compressor. 2,318,990; May 11.

Dorr Company, The. (See Scott, Charles H., assignor.)

Dorris, George P., St. Louis, Mo., assignor, by mesne assignments, to said Dorris, trustee. Knife grinder. 2,318,764; May 11.

Douglas, H. A., Mfg. Co. (See Foster, W. M., and Drury, assignors.)

Douglas, H. A., Mfg. Co. (See Funk, Russell A., assignor.)

Douglas, H. A., Mfg. Co. (See Penfold, Charles S., assignor.)

Douglas, H. A., Mfg. Co. (See White, Jesse M., assignor.)

Dow Chemical Company, The. (See Avery, George S., Jr., assignor.)

Dow Chemical Company, The. (See Britton, E. C., and Le Fevre, assignors.)

Draper Corporation. (See Brown, Carl D., assignor.)

Draper Corporation. (See Nichols, Edward C., assignor.)

Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Production of artificial filaments, films, and like materials. 2,318,679; May 11.

Druce, Walter H., Pocatello, Idaho. Display device. 2,319,046; May 11.

Drummond, Robert S., Detroit, Mich. Gear crowning. 2,319,117; May 11.

Drury, Thoma W. (See Foster, W. M., and Drury.)

Duftschmid, Franz, Heidelberg, E. Linckh and F. Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors to Standard Catalytic Company. Synthesis of hydrocarbons. 2,318,602; May 11.

Dunham, Robert A., Long Beach, assignor to Union Oil Company, of California, Los Angeles, Calif. Producing asphalt emulsions. 2,318,932; May 11.

Du Pont, E. I., de Nemours & Company. (See Cupery, Martin E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Fox, Arthur L., assignor.)

Du Pont, E. I., de Nemours & Company. (See Goebel, M. T., and Walker, assignors.)

Du Pont, E. I., de Nemours & Company. (See Hanford, William E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Nestor, John W., assignor.)

Eastman KoKdak Company. (See Babcock, D. L., and Clement, assignors.)

Eastman Kodak Company. (See Conklin, Frederick R., assignor.)

Eastman Kodak Company. (See Davey, E. P., and Knott, assignors.)

Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)

Eastman Kodak Company. (See Fordyce, C. R., and Hunter, assignors.)

Eastman Kodak Company. (See Fordyce, C. R., and Gould, assignors.)

Eastman Kodak Company. (See Hasche, R. L., and Hincke, assignors.)

Eastman Kodak Company. (See Hutchison, Miller R., Jr., assignor.)

Eastman Kodak Company. (See Leermakers, J. A., and Fierke, assignors.)

Eastman Kodak Company. (See Lowe, W. G., and Kenyon, assignors.)

Eastman Kodak Company. (See McNally, J. G., and Dickey, assignors.)

Eastman Kodak Company. (See McNally, J. G., and Morey, assignors.)

Eastman Kodak Company. (See Murray, A., and Yule, assignors.)

Eastman Kodak Company. (See Nadeau, G. F., and Slack, assignors.)

Eastman Kodak Company. (See Nowack, C. F., and Lee, assignors.)

Eastman Kodak Company. (See Riddell, William A., assignor.)

Eastman Kodak Company. (See Sheppard, S. E., and Vanselow, assignors.)

Eaton, Charles F., Methuen, assignor to Bennett Incorporated, Cambridge, Mass. Outfit for shipping liquid and dipping articles therein. 2,318,842; May 11.

Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,318,765; May 11.

Ellers, Frank B., and F. J. Graef, assignors to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Liquid dispensing nozzle. 2,318,933; May 11.

Electrical Improvements Limited. (See Blackburn, Charles L., assignor.)

Ellinger, Flora H., Chicago, Ill. Back scrubbing brush. 2,318,680; May 11.

Ellis, Clifford A., Ridgefield, N. J., assignor to Grover Tank & Mfg. Co., Inc., Catasauqua, Pa. Automatic hydraulic gasoline storage tank. 2,318,766; May 11.

Engholdt, Richard K., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Safety shutoff valve. 2,318,767; May 11.

Enos, John P., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-severing device for sewing machines. 2,318,843; May 11.

Erb, George C., Forest Hills, assignor to American Can Company, New York, N. Y. Container. 2,318,603; May 11.

Euclid Road Machinery Company, The. (See Arlington, George E. and R. Q., assignors.)

Evans, Irvin W. (See Myerson, Simon, and Martin, and Evans.)

Evans, John, Palmyra, N. J., assignor to Radio Corporation of America. Phase modulation. 2,318,934; May 11.

Evans, Wilson. (See Bird, P. G., Evans, Harmon, and Salvesen.)

Fairley, Frank, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. 2,318,681; May 11.

Farkas, Amelia, and W. Farkas, Brooklyn, N. Y. Umbrella. 2,319,118; May 11.

Farkas, William. (See Farkas, Amelia and W.)

Fassin, Gustave, Grosse Pointe, Mich., assignor to Spencer Lens Company, Buffalo, N. Y. Optical instrument. 2,318,844; May 11.

Fawick, Thomas L., Akron, Ohio. Handle grip. 2,318,682; May 11.

Fays, René. (See Picard, R., and Fays.)

Feagin, Roy C., Flushing, N. Y., and C. H. Prange, Short Hills, N. J., assignors to Austenal Laboratories, Inc., New York, N. Y. Dental resin. 2,318,845; May 11.

Federal Cartridge Corporation. (See Hoffman, Harry W., assignor.)

Febrey, Harold H., South Orange, N. J., assignor to The American Steel and Wire Company of New Jersey. Rail bond. 2,318,604; May 11.
Feinberg, Archie S., Dallas, Tex. Air conditioning apparatus. 2,319,119; May 11.
Felch, Don H. W. (See King, V. L., Foote and Felch.)
Fell, James R., assignor of fifty percent to H. C. Hayes, Haleyville, Ala. Plant fender. 2,319,047; May 11.
Fell, James R., assignor of fifty percent to H. C. Hayes, Haleyville, Ala. Adjustable heel sweep or scrape. 2,319,048; May 11.
Fendring, Harry E. (See Kidder, Eugene V., assignor.)
Fern, Jules C., et al co-partners. (See Fern, Oscar, assignor.)
Fern, Oscar, assignor to J. C. Fern, H. Sobel and O. Fern, co-partners, doing business under the firm name and style of Fern Shoe Co., Los Angeles, Calif. Shoe and making same. 2,318,846; May 11.
Fern Shoe Co. (See Fern, Oscar.)
Ferris, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Garage door construction. 2,318,991; May 11.
Fess, Emil, Dessau, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Apparatus for developing photographic films. 2,318,605; May 11.
Fierke, Scheuring S. (See Leermakers, J. A., and Fierke.)
Fischer, Albert C., Chicago, Ill. Load transfer joint apparatus. 2,319,049; May 11.
Fischer, Albert C., Chicago, and H. A. Cumfer, Villa Park, Ill. Load transfer joint apparatus for paving and the like. 2,319,050; May 11.
Fisher, Raymond C., Tacoma, Wash. Electrostatic alternator. 2,318,935; May 11.
Fisher, Raymond C., Tacoma, Wash. Multifrequency oscillator. 2,318,936; May 11.
Fix, Oral S., assignor to The Polk Development Company, a copartnership composed of Ralph Polk, Sr., and Ralph Polk, Jr., Tampa, Fla. Apparatus for segmenting and pitting fruits having pits. 2,319,120; May 11.
Flint, George W., Chicago, Ill., and H. J. Liehe, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Bearing grease. 2,318,847; May 11.
Food Machinery Corporation. (See Thompson, Albert R., assignor.)
Foote, James W. (See King, V. L., Foote, and Felch.)
Fordyce, Charles R., and W. F. Hunter, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. High speed method of making cellulose organic derivative film and sheeting. 2,319,051; May 11.
Fordyce, Charles R., and W. F. Hunter, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. High speed method of making cellulose organic derivative film and sheeting. 2,319,052; May 11.
Fordyce, Charles R., and W. F. Hunter, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. High speed method of making cellulose organic derivative film and sheeting. 2,319,053; May 11.
Fordyce, Charles R., and W. F. Hunter, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. High speed method of making cellulose organic derivative film and sheeting. 2,319,054; May 11.
Fordyce, Charles R., and A. J. Gould, assignors to Eastman Kodak Company, Rochester, N. Y. High speed method of making cellulose organic derivative film and sheeting. 2,319,055; May 11.
Foster, William M., and T. W. Drury, assignors to H. A. Douglas Mfg. Co., Bronson, Mich. Electric switch 2,318,768; May 11.
Fox, Arthur L., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reaction of hydrocarbon sulphonyl halides with alcohols. 2,319,121; May 11.
Foxboro Company, The. (See Cook, Lyman, assignor.)
Franta, William A. (See Muskat, I. E., Pollack, Strain, and Franta.)
Frantz Manufacturing Co. (See Ferris, William D., assignor.)
Frederick, Charles A., Wheatland, Ind. Electric fence controller. 2,319,056; May 11.
Freeman, Howard G., and F. Hencinski, assignors to Rockwood Sprinkler Company, Worcester, Mass. Making nozzles. 2,318,769; May 11.
Freeman, Richard M. D., Goldsboro, N. C. Garment hanger. 2,318,770; May 11.
Friedman, David. (See Levy, D., and Friedman.)
Friedman, Joseph, et al. (See Kaphan, Ludwig, assignor.)
Friedman, Sol, New York, N. Y. Slip. 2,318,771; May 11.
Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
Funk, Russell A., Sebewaing, assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electrical connection means. 2,319,122; May 11.
G-H Specialty Company. (See Meyer, J. J., and Jones, assignors.)
Galanot, Camille P., Alliance, Ohio, and J. A. Watson, Jr., Silver Spring, Md., assignors to themselves and C. L. Galanot, Alliance, Ohio, and H. F. Watson, Silver Spring, Md., as trustees. Traction device. 2,318,683; May 11.
Galanot, Charles L., et al, trustees. (See Galanot, C. P., and Watson, assignors.)
Gamble, David E., assignor to Borg-Warner Corporation, Chicago, Ill. Friction clutch. 2,319,123; May 11.
Gartin, Elmer G. (See Curtis, J. C., and Gartin.)
Gaw-O'Hara Envelope Co. (See Hopkins, Alfred J., assignor.)
Gaylor, Peter J., Union, N. J., assignor to Standard Oil Development Company. Impregnating and plasticizing composition. 2,318,684; May 11.
General Aniline & Film Corporation. (See Albers, F., and Allendörfer, assignors.)
General Aniline & Film Corporation. (See Fess, Emil, assignor.)
General Aniline & Film Corporation. (See Polhemus, John K., assignor.)
General Electric Company. (See Atchison, Leonard W., assignor.)
General Electric Company. (See Butler, William L., assignor.)
General Electric Company. (See Doran, John H., assignor.)
General Electric Company. (See Hathaway, Claude M., assignor.)
General Electric Company. (See Jones, Benjamin W., assignor.)
General Electric Company. (See King, Robert A., assignor.)
General Electric Company. (See Lum, Walter O., assignor.)
General Electric Company. (See McArthur, Elmer D., assignor.)
General Electric Company. (See Van Nest, Francis H., assignor.)
General Fire Extinguisher Company. (See Borg, Gustave A., assignor.)
General Motors Corporation. (See Claytor, Edward M., assignor.)
General Motors Corporation. See Claytor, E. M., and Antonidis, assignors.)
General Motors Corporation. (See Hornaday, James R., assignor.)
General Motors Corporation. (See Joyce, W. J., and Geyer, assignors.)
General Motors Corporation. (See Morgan, Harry C., assignor.)
General Motors Corporation. (See Nichols, C. A., and Weiser, assignors.)
General Motors Corporation. (See Smith, Harry F., assignor.)
General Tire & Rubber Company, The. (See Dodge, Howard M., assignor.)
General Tire & Rubber Company, The. (See Iredell, R., and Kraft, assignors.)
Geyer, Harvey D. (See Joyce, W. J., and Geyer.)
Gibson, Symon Z., Seattle, Wash. Hair clipper. 2,318,848; May 11.
Gilbert, A. C., Company, The. (See Jordan, Richard H., assignor.)
Gillette Safety Razor Company. (See Stampleman, S. C., and Muros, assignors.)
Gleason Works. (See Richmond, George O., assignor.)
Globe American Corporation. (See Hill, D. H., and Tolley, assignors.)
Globe Oil and Refining Company. (See Berger, Carl W., assignor.)
Gluck, Fred S., assignor to Waldorf Knitting, Inc., New York, N. Y. Knitted glove. 2,318,772; May 11.
Goebel, Max T., Lakewood, Ohio, and I. F. Walker, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Corrosion inhibition. 2,318,606; May 11.
Goetz, Herbert W., Alhambra, assignor to Patent Royalties, Inc., Huntington Park, Calif. Valve. 2,318,773; May 11.
Goldberg, Manuel E., and R. F. Haughey, McKeesport, Pa. Sectional thread protector. 2,319,124; May 11.
Goldney, Philip T., Dartford, and A. G. Hingley, Bristol, England. Cutting and sorting of paper and like sheets from continuous webs. 2,318,937; May 11.
Goldsmith, Henry F., Longport, N. J. Merchandise display. 2,318,774; May 11.
Goodman Manufacturing Company. (See Madeira, John R., assignor.)
Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodman Manufacturing Company. (See Wood, Frank J., assignor.)
Goodrich, B. F., Company, The. (See Craig, David, assignor.)
Goodrich, B. F., Company, The. (See Gray, Harold, assignor.)
Goodrich, B. F., Company, The. (See Stewart, William D., assignor.)
Gore, Albert J., Washington, D. C. Coupler or hook. 2,319,180; May 11.
Gorham Manufacturing Company. (See Hempel, Edwin G., assignor.)
Gould, Austin J. (See Fordyce, C. R., and Gould.)
Graef, Forrest J. (See Eilers, F. B., and Graef.)
Grant, Harry C., Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J. Thermoresponsive device. 2,318,607; May 11.

Grant, Joseph E., Beverly Hills, Calif. Making toy structural elements. 2,318,849; May 11.
Grant, Joseph E., Beverly Hills, Calif. Coin holder. 2,318,850; May 11.
Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Track for self-laying track vehicles. 2,318,992; May 11.
Griffith, Raymond C., assignor to Vickers Incorporated, Detroit, Mich. Power transmission for machine tools. 2,318,851; May 11.
Griffith, Raymond C., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,318,852; May 11.
Gross, Henry E., College Station, Tex. Portable marine foundation. 2,318,685; May 11.
Grote, Alfred W., Freeport, assignor to The Portland Company, Portland, Maine. Operating and control system for hydraulic elevators. 2,319,125; May 11.
Grote, Alfred W., Freeport, assignor to The Portland Company, Portland, Maine. Hydraulic elevator construction. 2,319,126; May 11.
Grover Tank & Mfg. Co. (See Ellis, Clifford A., assignor.)
Guelson, Stanley S., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Electric switch and terminal connector. 2,318,775; May 11.
Guenther, George G. (See Guenther, Henry J. and G. G.)
Guenther, Henry J. and G. G., New York, N. Y. Brief case and the like. 2,319,127; May 11.
Guidalite Corporation. (See Smith, F. O., and Hirschfeld, assignors.)
Gulf Research & Development Company. (See Peters, Leo J., assignor.)
Gyproc Products Limited. (See Cavadino, Conrad G. F., assignor.)
Hack, Frank W., Des Plaines, assignor to Reconstruction Finance Corporation, Chicago, Ill. Universal machine tool. 2,318,938; May 11.
Hall, Charles L., Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener member. 2,318,853; May 11.
Hall, Ernest A., assignor to The Hall Manufacturing Company, Toledo, Ohio. Portable valve seat grinding means. 2,318,854; May 11.
Hall Manufacturing Company, The. (See Hall, Ernest A., assignor.)
Halm, Alfred, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Gas blast circuit breaker. 2,318,939; May 11.
Halmrast, Carl, Vancouver, British Columbia, Canada. Cutting machine. 2,319,128; May 11.
Hamilton, John G., Orleans County, La. Fastener for wallboard units. 2,319,129; May 11.
Hamlin, Jerry F., Medford, Oreg. Determining the sex of chicks. 2,318,687; May 11.
Hanford, William E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of long chain organic isocyanates. 2,319,057; May 11.
Hansman, George A., Rocky River, assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio. Fastener. 2,319,058; May 11.
Hansman, George A., Rocky River, assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,319,059; May 11.
Hanson, Milton E., Haddonfield, N. J., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Refrigeration control for air conditioned passenger vehicles. 2,319,130; May 11.
Harmon, Carlyle. (See Bird, P. G., Evans, Harmon, and Salvesen.)
Harrington, John T., St. Paul, Minn. Fuel and heat economizer. 2,319,131; May 11.
Harris, James C., Erie, Pa., assignor to The Manufacturers Equipment Company, Dayton, Ohio. Drier. 2,319,060; May 11.
Harvey Corporation. (See Lebach, Hans H., assignor.)
Hasche, Rudolph L., and W. B. Hinche, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Regenerative furnace for manufacture of acetylene by pyrolysis. 2,318,688; May 11.
Hathaway, Claude M., Denver, Colo., assignor to General Electric Company. Automatic scleroscope. 2,318,993; May 11.
Hathaway, Hubert B., Windsor, Ontario, Canada, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Pocket-sewing machine. 2,318,686; May 11.
Haug, Richard J., Oakland, Maine. Tenon anchor. 2,318,776; May 11.
Haughey, Rodger F. (See Goldberg, M. E., and Haughey.)
Hayden, Merrill A., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,318,855; May 11.
Hayes, H. C. (See Fell, James R., assignor.)
Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Bumping post. 2,318,940; May 11.
Hayes Track Appliance Company. (See Hayes, Stanley W., assignor.)
Heigl, John J. (See Hodell, L. R., and Heigl.)
Helmbold, August F. W., Newport, Ky. Bomb. 2,318,994; May 11.
Hempel, Edwin G., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Box and hinge structure. 2,318,608; May 11.
Hencinski, Frank. (See Freeman, H. G., and Hencinski.)
Henderson, Howard J., assignor to Lawyers Cooperative Publishing Company, Rochester, N. Y. Loose leaf binder. 2,318,941; May 11.
Heyman, Ernest. (See Hyatt, L. C., and Heyman.)
Hildenbrand, Kenneth W. (See Watson, J. W., and Hildenbrand.)
Hill, Dewey H., and D. B. Tolley, Macomb, Ill., assignors to Globe American Corporation, Kokomo, Ind. Brooder construction for chicks. 2,318,777; May 11.
Hillier, James, Collingswood, N. J., assignor to Radio Corporation of America. Demountable electron gun. 2,319,061; May 11.
Hincke, William B. (See Hasche, R. L., and Hincke.)
Hines, Benjamin McF., assignor to Vick Chemical Company, New York, N. Y. Container. 2,318,778; May 11.
Hingeley, Alfred G. (See Goldney, P. T., and Hingley.)
Hirschfeld, William V. (See Smith, F. O., and Hirschfeld.)
Hodell, Louis R., and J. J. Heigl, Tulsa, Okla., assignors to Standard Oil Development Company. Tracing gas through underground formations. 2,318,689; May 11.
Hodges, Alfred F., Philadelphia, Pa. Match packet. 2,318,942; May 11.
Hoffman, Harry W., Anoka, assignor to Federal Cartridge Corporation, Minneapolis, Minn. Inspecting device. 2,318,856; May 11.
Hohlweg, Walter, Hohen Neuendorf near Berlin and H. H. Inhoffen, Berlin-Wilmersdorf, Germany, assignors to Schering Corporation, Bloomfield, N. J. Degradation products containing carboxyl groups from compounds of the oestrane series and making the same. 2,318,609; May 11.
Hollaender, Peter R., Cincinnati, Ohio. Building material. 2,318,857; May 11.
Holloway, Wilfrid P. (See Mansell, S. W., and Holloway.)
Holmes, Louis D., assignor to Whiting Corporation, Harvey, Ill. Vehicle washing apparatus. 2,318,995; May 11.
Holmes, Louis D., assignor to Whiting Corporation, Harvey, Ill. Vehicle washing apparatus. 2,318,996; May 11.
Holmes, Melvin C., Cleveland, Ohio. Ladder. 2,318,943; May 11.
Holmes, Richard E., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. 2,319,062; May 11.
Holophane Company. (See Rolph, Thomas W., assignor.)
Hood, John M. (See Stiegler, H. W., and Hood.)
Hood, Walter R., New York, N. Y. Safety water cradle boat. 2,319,132; May 11.
Hoover, Walter S., Montreal, Quebec, Canada. Propeller transfer bearing. 2,318,929; May 11.
Hopkins, Alfred J., assignor to Gaw-O'Hara Envelope Co., Chicago, Ill. Invoice container. 2,318,997; May 11.
Hornaday, James R., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,318,858; May 11.
Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Cross current cylinder type paper-making machine. 2,319,133; May 11.
Houghton, Russell L. (See Bowen, B., and Houghton.)
Hovlid, Norman G., Torrance, Calif. Tire repairing apparatus. 2,318,779; May 11.
Huguelet, John E., Mount Lebanon, Pa., assignor to National Electric Products Corporation. Conductor carrying means. 2,318,859; May 11.
Huguelet, John E., Mount Lebanon, Pa., assignor to National Electric Products Corporation. Electrical distribution system. 2,318,860; May 11.
Huguelet, John E., Mount Lebanon, Pa., assignor to National Electric Products Corporation. Current take-off. 2,318,861; May 11.
Humphrey, James W., Claymont, assignor to American Viscose Corporation, Wilmington, Del. Coating compositions. 2,318,780; May 11.
Humphrey, Shelley B., Huntington Park, Calif. Traffic signal for motor vehicles. 2,318,690; May 11.
Hunter, Walker F., Jr. (See Fordyce, C. R., and Hunter.)
Huthsing, Leo B., assignor to Machinery Manufacturing Co., Los Angeles, Calif. Micrometer stop. 2,318,691; May 11.
Hyatt, Louis C., Albany, and E. Heyman, Hampton Manor, assignors to Consolidated Car-Heating Company, Inc., Albany, N. Y. Hydraulic system for motor vehicles. 2,318,610; May 11.
Ideal Aeroplane & Supply Co. (See Bowen, B., and Houghton, assignors.)
Imperial Chemical Industries, Limited. (See McGill, John H., assignor.)
Imperial Chemical Industries Limited. (See McLean, Andrew, assignor.)
Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Honing apparatus. 2,318,831; May 11.
Industrial Patents Corporation. (See Ingle, James D., assignor.)
Industrial Patents Corporation. (See Walter, Charles T., assignor.)
Ingalls, Willis A., assignor to Tompkins Bros. Co., Syracuse, N. Y. Furnishing wheel assembly and drive therefor. 2,318,998; May 11.

Ingersoll, Elton B. (See Pillsbury, Howard G. and Ingersoll.)
Ingersoll, Elton B., and L. E. Willett, assignors to Chamberlin Metal Weather Strip Company, Detroit, Mich. Wall unit. 2,318,944; May 11.
Ingle, James D., assignor to Industrial Patents Corporation, Chicago, Ill. Milk product. 2,319,186; May 11
Ingle, James D., assignor to Industrial Patents Corporation, Chicago, Ill. Cheese emulsification 2,319,187; May 11.
Inhoffen, Hans H. (See Hohlweg, W., and Inhoffen.)
Interwoven Stocking Company. (See Thurston, Paul L., assignor.)
Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,318,781; May 11.
Iredell, Robert, and H. T. Kraft, assignors to The General Tire & Rubber Company, Akron, Ohio. Suspension device. 2,318,862; May 11.
Jabelmann, Otto, Omaha, Nebr. Railway car. 2,318,863; May 11.
Jackson, Bruce A., Oakland, Calif. Controlled drip milk bottle. 2,318,611; May 11.
Jackson, Thomas E., Detroit, Mich. Medical wood splint. 2,318,864; May 11.
Jansen, Richard L. (See Miller, R., Jansen and Anderson.)
Johannsen, Udo K., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Folding table latch. 2,318,945; May 11.
Johansen, Johan E. (See Voigt, P. A., and Johansen.)
Johns-Manville Corporation. (See Brown, George B., assignor.)
Johns-Manville Corporation. (See Christensen, George, assignor.)
Johns-Manville Corporation. (See Voigt, P. A., and Johansen, assignors.)
Johnson, Harold I., Newport Beach, Calif. Pitch gauge and milling cutter for propellers. 2,318,865; May 11.
Johnson, James P., Shaker Heights, Ohio. Coupling. 2,319,134; May 11.
Johnson, William C., Winterset, Iowa. Anchor groove forming device for concrete structures. 2,318,692; May 11.
Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 2,319,000; May 11.
Jones, Charles R., and A. G. Simpson, Saint Albans, assignors to The Research Association of British Flour Millers, London, England. Conditioning or treatment of wheat prior to milling. 2,318,999; May 11.
Jones, Frank A. (See Meyer, J. J., and Jones.)
Jones & Laughlin Steel Corporation. (See Clark, Harold T., assignor.)
Jordan, Richard H., Hamden, assignor to The A. C. Gilbert Company, New Haven, Conn. Fan oscillator with stationed handle control. 2,319,064; May 11.
Jorgensen, Julius, Detroit, Mich. Pressure pump. 2,318,782; May 11.
Joyce, William J., and H. D. Geyer, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Shredding rubber. 2,318,693; May 11.
June, Aubrey B., Seattle, Wash. Valve keeper tool. 2,318,866; May 11.
K. L. G. Sparking Plugs Limited. (See Caringtion. Charles M., assignor.)
Kalber, Swisher K. (See Smith, S. H., Kalber and Smith.)
Kaphan, Ludwig, Brooklyn, assignor of one-half to J. Friedman, and one-half to R. Lobel, New York, N. Y. Handbag. 2,319,694; May 11.
Kaplan, Felix A., New York, N. Y. Collar stiffener. 2,319,135; May 11.
Karmanocky, Joseph, assignor to New Jersey Interlocking Brick Co., Carteret, N. J. Furnace. 2,319,065; May 11.
Karns, Sherman S., assignor of one-fifth to L. Rosenberg, San Luis Obispo, Calif. Garage door operator. 2,319,136; May 11.
Kass, Samuel M., Philadelphia, Pa. Pipe clamp. 2,318,946; May 11.
Kelleher, Daniel. (See Troche, H. J., and Kelleher.)
Kellogg, M. W., Company, The. (See Mikesh, Martin A., assignor.)
Kenyon, William O. (See Lowe, W. G., and Kenyon.)
Kidder, Eugene V., assignor to H. E. Fendring, Los Angeles, Calif. Door lock. 2,318,947; May 11.
Kiefer, Felix, Beechhurst, N. Y. Preservation of comestibles. 2,318,867; May 11.
Kimbell, Arthur W., West Newton, assignor to United Carr Fastener Corporation, Cambridge, Mass. Electrical socket. 2,318,868; May 11.
King, Robert A., Erie, Pa., assignor to General Electric Company. Refrigerator cabinet. 2,319,001; May 11.
King, Victor L., and J. W. Foote, Bound Brook, and D. H W. Felch, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of copper phthalocyanines. 2,318,783; May 11.
Kitchen, Otis, Chicago, Ill. Automatic railroad crossing signal. 2,319,137; May 11.
Klammt, Arthur, New York, N. Y., and G. W. Kretzschmar, Garfield, N. J., assignors to W. M. Ritter Lumber Company. Assembling machinery. 2,318,695; May 11.
Klatt, Rudolph A., and O. W. Schingeck, Tonawanda, assignors to Auto Wheel Coaster Company, Inc., North Tonawanda, N. Y. Supporting stand for scooters. 2,319,066; May 11.
Klotz Machine Company. (See Nicholas, Herbert T., assignor.)
Kneibler, Arthur R., assignor to Cooper's, Incorporated, Kenosha, Wis. Undergarment. 2,319,138; May 11.
Knott, Edward B. (See Davey, E. P., and Knott.)
Koch, William P., Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company. Fruit juice extractor. 2,318,784; May 11.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Filament supply system. 2,318,948; May 11.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Facsimile system. 2,319,139; May 11.
Koos, Paul V. (See Bidwell, Charles H., and Koos.)
Kopplin, Charles D., Minneapolis, Minn. Mitten. 2,318,785; May 11.
Korte, Alfred C., and K. Lannert, assignors to Carter Carburetor Corporation, St. Louis, Mo. Centrifugal pump. 2,318,786; May 11.
Kosatka, Thomas O., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Oil seal. 2,319,067; May 11.
Kossman, Hans R. (See Mayer, A. L., and Kossman.)
Kothny, Gottdank L., Strafford, assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Well surveying device. 2,318,612; May 11.
Kottmann, Arthur A., and F. Rohlfing, Davenport, Iowa, assignors, by mesne assignments, to The Bettendorf Company. Lubricating device for bread slicers. 2,319,140; May 11.
Kraft, Herman T. (See Iredell, R., and Kraft.)
Kramer, Fred W., New Orleans, La. Motor vehicle body. 2,319,002; May 11.
Kretzschmar, George W. (See Klammt, A., and Kretzschmar.)
Krone, Howard C., River Edge, and W. Meyer, East Orange, assignors to A. W. Wheaton Brass Works, Newark, N. J. Swing joint connections for liquid loading conduit systems. 2,319,068; May 11.
Krone, Howard C., River Edge, and W. Meyer, East Orange, assignors to Wheaton Brass Works, Newark, N. J. Self-closing valve. 2,319,069; May 11.
Kroner, Friedrich, Berlin-Charlottenburg, Germany, assignor to Transart Aktiebolag Goteborg, Sweden. Image sheet. 2,318,949; May 11.
Kuehnel, William J., Sag Harbor, assignor of one-half to J. G. G. Merrow, New York, N. Y. Knitted glove and method of making. 2,319,141; May 11.
Lacey, Harold T., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparation of copper phthalocyanines. 2,318,787; May 11.
Lance, Oliver, Las Vegas, Nev. Apparatus for constructing concrete tunnel linings. 2,318,869; May 11.
Landis Tool Company. (See Price, R. E., and Balsiger, assignors.)
Lane, Frank B., Paragould, assignor to Lifetime Truss Company, Inc., Jonesboro, Ark. Truss. 2,318,613; May 11.
Lannert, Kenneth. (See Forte, A. C., and Lannert.)
Larmour, James J., West Orange, assignor to The Chilton Pen Company, Inc., Summit, N. J. Cap and clip for fountain pens. 2,318,950; May 11.
Latta Syndicate Limited. (See Tull, Alan G., assignor.)
Lawyers Cooperative Publishing Company. (See Henderson, Howard J., assignor.)
Lear, Earl B., Garfield Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Bucking bar. 2,319,003; May 11.
Lebach, Hans H., assignor to Haveg Corporation, Newark, Del. Preparing phenolic resin compositions. 2,319,142; May 11.
Lee, Charles M. (See Nowack, C. F., and Lee.)
Leermakers, John A., and S. S. Fierke, assignors to Eastman Kodak Company, Rochester, N. Y. Incorporation of couplers in nongelatine emulsions. 2,318,788; May 11.
Le Fevre, Walter J. (See Britton, E. C., and Le Fevre.)
Leman, Arthur L. (See Nevill, G. E., and Leman.)
Leonard, William E., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Producing wire. 2,318,614; May 11.
Le Tourneau, Robert G., assignor to R. G. Le Tourneau, Inc., Peoria, Ill. Continuous parts-heating furnace. 2,318,870; May 11.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Leventhal Patents, Inc. (See Spence, John L., Jr., assignor.)
Levey, Fred'k H., Co. (See Wilson, Mitchell, assignor.)
Levy, David, and D. Friedman, Chicago, Ill. Shoe pressure pad. 2,319,143; May 11.
Levy, Joseph. (See Trube, C. E., Shahovskoy, and Levy.)
Lewis, John O., Woodside, assignor to Delta Nozzle Corp., New York, N. Y. Spray nozzle. 2,318,951; May 11.
Liatex Corporation. (See Snyder, Chester, assignor.)
Liehe, Hurbert J. (See Flint, G. W., and Liehe.)
Lifetime Truss Company. (See Land, Frank B., assignor.)
Lillis, Stephen M. (See Bernstein, W. F., Mika, Lillis, and Colwell.)

Linckh, Eduard. (See Duftschmid, F., Linckh, and Winkler.)
Linden, Walter R., Palisades Park, N. J., assignor to Union Carbide and Carbon Corporation. Nozzle cleaning tool. 2,318,696; May 11.
Line Material Company. (See Schultz, William O., assignor.)
Lobel, Rudolph, et al. (See Kaphen, Ludwig, assignor.)
Lockwood, Lewis B. (See Stubbs, J. J., Lockwood, Roe, and Ward.)
Lodge, Edmund G., assignor to Stackpole Carbon Company, St. Marys, Pa. Gaseous discharge lighting apparatus. 2,319,144; May 11.
Lombardini, Pietro C., Frosterley, England. Watercraft. 2,318,789; May 11.
Loomis, Evarts G., Newark, N. J. Blocking press. 2,319,145; May 11.
Lotter, William, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Door. 2,319,004; May 11.
Lowe, Wesley G., and W. O. Kenyon, assignors to Eastman Kodak Company, Rochester, N. Y. Manufacture of unsaturated aliphatic acids and anhydrides. 2,319,070; May 11.
Lubri-Zol Corporation, The. (See Prutton, Carl F., assignor.)
Lum, Walter O., West Orange, N. J., assignor to General Electric Company. Refrigerating system. 2,319,005; May 11.
MacDonald, George S., assignor to Spencer Lens Company, Buffalo, N. Y. Microscope. 2,318,871; May 11.
Machinery Manufacturing Co. (See Huthsing, Leo B., assignor.)
MacKenzie, Wilbur L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Feeding means for shoe sole treating machines. 2,318,697; May 11.
Madeira, John R., assignor to Goodman Manufacturing Company, Chicago, Ill. Extensible conveyer. 2,318,872; May 11.
Mallory, Bonnie L., Cleveland Heights, Ohio. Friction type shock absorber for knee action or the like. 2,318,873; May 11.
Mansell, Stanley W., and W. P. Holloway, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Reduction gearing for aircraft propellers. 2,319,146; May 11.
Manthey, Carleton. (See Abramson, A. A., and Manthey.)
Manufacturers Equipment Company, The. (See Harris, James C., assignor.)
Marathon Paper Mills Company, et al. (See Bird, P. G., Evans, Harmon, and Salvesen, assignors.)
Marien, Charles A., and M. W. Marien, assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston skirt expander. 2,319,006; May 11.
Marien, Melvin W. (See Marien, Charles A., and M. W.)
Martin, Carl L., Rome, Ga. Sanitary waste pail lining. 2,318,952; May 11.
Martin, Charles H., Springfield, Mass. Coin controlled time operated signaling mechanism. 2,318,615; May 11.
Martindale Electric Company, The. (See Martindale, G. E., and Scharping, assignors.)
Martindale, George E., Lakewood, and O. W. Scharping, Cleveland, assignors to The Martindale Electric Company, Lakewood, Ohio. Respirator. 2,318,790; May 11.
Marvel Equipment Corporation. (See Roethel, John H., assignor.)
Mason, Ernest J., Marion, Ind. Auiliary handle. 2,319,147; May 11.
Mason, Herbert B., Columbus, Ohio. Paper holding and dispensing receptacle. 2,319,071; May 11.
Mast, Gifford M., Davenport, Iowa. Picture film display machine. 2,318,874; May 11.
Mayer, Alvin L., Cincinnati, Ohio, and H. R. Kossman, New York, N. Y.; said Kossman assignor to said Mayer. Light control mechanism. 2,318,616; May 11.
McAnlis, Wallace C., Detroit, Mich. Heat control. 2,318,875; May 11.
McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Electric valve frequency changer. 2,319,072; May 11.
McCabe, Ira E., Chicago, Ill. Electric switch mechanism. 2,318,698; May 11.
McCabe, Ira E., Chicago, Ill. Temperature responsive electric switch. 2,318,699; May 11.
McCabe, Ira E., Chicago, Ill. Combined incandescent lamp and flasher switch. 2,318,700; May 11.
McCarthy, Edmund, Brooklyn, N. Y. Rotary conveyer. 2,319,007; May 11.
McCormack, Charles V., Chicago, Ill. Carriage truck. 2,319,008; May 11.
McCormick, Lewis M., Palo Alto, Calif., assignor to The Scholl Mfg. Co., Inc., Chicago, Ill. Measuring device. 2,319,148; May 11.
McElhaney, James H., assignor to Wissahickon Plush Mills, Inc., Philadelphia, Pa. Plush and making the same. 2,319,073; May 11.
McGill, John H., Debdale Park, Manchester, England, assignor to Imperial Chemical Industries Limited. Manufacture of leather cloth and similar coated fabrics. 2,319,074; May 11.
McKinnis Foods. (See McKinnis, Ronald B., assignor.)
McKinnis, Ronald B., assignor, by mesne assignments, to R. B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla. Control for bottom filling of containers. 2,319,075; May 11.
McLean, Andrew, West Kilbride, Scotland, assignor to Imperial Chemical Industries Limited. Shaped articles made from vegetable seed proteins and making same. 2,319,009; May 11.
McLennan, Lester W., Richmond, and O. W. Neukom, Berkeley, assignors to Union Oil Company of California, Los Angeles, Calif. Hot neck grease. 2,319,076; May 11.
McLeod, John K., Buffalo, N. Y. Collision alarm. 2,319,010; May 11.
McNally, James G. (See Dickey, J. B., and McNally.)
McNally, James G., and D. R. Morey, assignors to Eastman Kodak Company, Rochester, N. Y. Producing cellulose derivative crepe yarns. 2,319,077; May 11.
McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Aminophenol and its preparation. 2,319,078; May 11.
Means, Dwight R., Wadsworth, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Liquefaction of chlorine. 2,318 876; May 11.
Mechanical Research, Inc. (See Birdseye, Clarence, assignor.)
Mellett, Dana S., Upper Darby, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Desalting crude. 2,319,188; May 11.
Meredith, Frederick W., assignor to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England. Resilient diaphragm pressure operated device. 2,319,011; May 11.
Merrow, John G. G. (See Kuehnel, William J., assignor.)
Meyer, Joseph E., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet and signature handling mechanism. 2,318,953; May 11.
Meyer, Joseph J., and F. A. Jones, assignors to G. H. Specialty Company, Milwaukee, Wis. Quilting frame. 2,318,877; May 11.
Meyer, William. (See Krone, H. C., and Meyer.)
Micromatic Hone Corporation. (See Connor, Kirke W., assignor.)
Micuta, George R., Seattle, Wash. Jet propulsion engine. 2,319,149; May 11.
Miescher, Karl, Riehen, and A. Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Dimethyl-cyclopentanopolyhydrophenanthrene compounds and making same. 2,319,012; May 11.
Miescher, Karl, Riehen, and A. Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Dimethyl-cyclopentanopolyhydrophenanthrene compounds and making same. 2,319,013; May 11.
Mika, Thomas F. (See Bernstein, W. F. Mika, Lillis, and Colwell.)
Mikesh, Martin A., Lawrenceville, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. X-ray machine moving device. 2,318,701; May 11.
Millar, John R., Reno, Nev., assignor to National Automotive Fibres, Inc., Detroit, Mich. Upholstery. 2,318,702; May 11.
Miller, De Mont G., San Marino, assignor to Patterson-Ballagh Corporation, Los Angeles, Calif. Open hole tool joint protector. 2,318,878; May 11.
Miller, Harry, Amsterdam, N. Y. Garment. 2,318,617; May 11.
Miller, Ralph, Buffalo, R. L. Jansen and J. W. Anderson, Auburn, assignor to American Locomotive Company, New York, N. Y. Internal combustion engine. 2,318,954; May 11.
Miller, Raymond S., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,318,879; May 11.
Milnor, Leland T., Indian Hill, assignor to The Cincinnati Fly Screen Company, Cincinnati, Ohio. Frameless insect screen. 2,318,955; May 11.
Milwaukee Gas Specialty Company. (See Engholdt, Richard K., assignor.)
Milwaukee Gas Specialty Company. (See Guelson, Stanley S., assignor.)
Milwaukee Gas Specialty Company. (See Wantz, Clarence, assignor.)
Mine Safety Appliances Company. (See Yant, William P., assignor.)
Minett, Wilfrid T., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe upper flanging machine. 2,318,703; May 11.
Mink, Isadore, Brooklyn, N. Y. Mattress protector. 2,319,150; May 11.
Minneapolis-Honeywell Regulator Company. (See Baak, Albert E., assignor.)
Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)
Mokin, Max, Brooklyn, N .Y. Contact jaw element for the positive carbons of arc lamps. 2,319,151; May 11.
Moncrieff, Robert W., and C. W. Sammons, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of artificial filaments, foils, and like shaped articles. 2,318,704; May 11.
Moore, Omer, Corvallis, Oreg. Power tool machine. 2,318,956; May 11.

Morey, Donald R. (See McNally, J. G., and Morey.)
Morgan, Harry C., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Metallographic filtering system. 2,318,705; May 11.
Morris, James C., Wadsworth, and P. J. Yarman, Barberton, assignors to The Ohio Boxboard Company, Rittman, Ohio. Container closure and carrier. 2,318,957; May 11.
Morton, George A., Haddon Heights, N. J., assignor to Radio Corporation of America. Image reproducer. 2,319,195; May 11.
Movie-Mite Corporation. (See Calvin, F. O., Wilson, and Smith, assignors.)
Mueller, George C., assignor to Cullen-Friestedt Company, Chicago, Ill. Work positioner. 2,318,791; May 11.
Mueller, Homer L., assignor to The Cleveland Welding Company, Cleveland, Ohio. Hydraulic coaster brake. 2,318,880; May 11.
Mundy, Elias G., New York, N. Y., assignor to Mundy Grain Trimmers Patent Ltd., Montreal, Quebec, Canada. Grain trimming device. 2,318,881; May 11.
Mundy Grain Trimmers Patents Ltd. (See Mundy, Elias G., assignor.)
Munising Paper Company, The. (See Ullman, Martin, assignor.)
Muros, Joseph. (See Stampleman, S. C., and Muros.)
Murphy, Thomas J., Liberty, N. Y. Amusement device. 2,318,958; May 11.
Murray, Alexander, and J. A. C. Yule, assignors to Eastman Kodak Company, Rochester, N. Y. Photomechanical process. 2,319,079; May 11.
Muskat, Irving E., M. A. Pollack, and F. Strain, Akron, and W. A. Franta, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa. Artificial glass. 2,318,959; May 11.
Myerson, Martin. (See Myerson, Simon and Martin, and Evans.)
Myerson, Simon and M., Brookline, and I. W. Evans, Newton, Mass.; said M. Myerson and said Evans, assignors to said S. Myerson. Receptacle. 2,318,618; May 11.
Nadeau, Gale F., and A. D. Slack, assignors to Eastman Kodak Company, Rochester, N. Y. Antihalation backing for photographic film. 2,319,080; May 11.
National Aluminate Corporation et al. (See Bird, P. G., Evans, Harmon, and Salvesen, assignors.)
National Aluminate Corporation. (See Carter, Willard K., assignor.)
National Automotive Fibres, Inc. (See Millar, John R., assignor.)
National Battery Company. (See Paddock, George A., assignor.)
National Battery Company. (See Snyder, Almond H., assignor.)
National Carbon Company. (See Werking, Leroy C., assignor.)
National Electric Products Corporation. (See Huguelet, John E., assignor.)
National Oil Products Company. (See Buxton, Loran O., assignor.)
National Oil Products Company. (See Buxton, L. O., and Colman, assignors.)
National Oil Products Company. (See Buxton, L. O., and Simons, assignors.)
National Oil Products Company. (See Davis, G. D., and Dombrow, assignors.)
National Supply Company, The. (See Nevill, G. E., and Leman, assignors.)
National Television and Manufacturing Corporation. (See Tubbs, Ernest A., assignor.)
Neely, Glen W., River Forest, Ill., assignor to The Richardson Company, Lockland, Ohio. Insulator. 2,319,152; May 11.
Neeper, Edward R., Colorado Springs, Colo. Assembled transplanting pot. 2,319,081; May 11.
Nestor, John W., Wilmette, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for overspray recovery. 2,319,082; May 11.
Neukow, Oliver W. (See McLennan, L. W., and Neukow.)
Nevill, Gale E. H., and A. Leman, Crosby, Tex., assignors to The National Supply Company, Pittsburgh, Pa. Ram construction for blowout preventers. 2,318,882; May 11.
New Jersey Interlocking Brick Co. (See Karmanocky, Joseph, assignor.)
New Wrinkle, Inc. (See Waldie, William A., assignor.)
Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,318,706; May 11.
Nicholas, Herbert T., assignor to Klotz Machine Company, Sandusky, Ohio. Knife blade grinding machine. 2,318,883; May 11.
Nichols, Charles A., and G. L. Weiser, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Manufacture of T's from metal tubing. 2,318,707; May 11.
Nichols, Edward C., Upton, assignor to Draper Corporation, Hopedale, Mass. Filling end parting mechanism. 2,319,181; May 11.
Nichols, William M. (See Anderson, J. W., and Nichols.)
Noel, Alfred J., Stratford, assignor to The Bodine Corporation, Bridgeport, Conn. Multiple spindle drill press. 2,318,619; May 11.
Nolde, George V., assignor to Butte Electric Manufacturing Co., San Francisco, Calif. Traffic counter. 2,319,153; May 11.
Norton Company. (See Crompton, George, Jr., assignor.)
Norton Company. (See Indge, Herbert S., assignor.)
Nowack, Carl F., and C. M. Lee, assignors to Eastman Kodak Company, Rochester, N. Y. Lens mount. 2,319,083; May 11.
Nutt, Harold, assignor to Borg-Warner Corporation, Chicago, Ill. Friction clutch. 2,318,620; May 11.
O'Brien, William L., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,318,621; May 11.
Ohio Boxboard Company, The. (See Morris, J. C., and Yarman, assignors.)
Oil Well Manufacturing Corporation. (See White, Clarence, assignor.)
O'Kelley, Francis A., Toledo, Ohio. Multislat shutter laundry. 2,318,884; May 11.
Okun, Nathaniel N., Bronx, assignor to Atlas Floor Surfacing Machinery Corporation, New York, N. Y. Floor polishing machine. 2,318,960; May 11.
Olofson, Karl R., Laurelton, Long Island, assignor to Western Electric Company, Incorporated, New York, N. Y. Safety device. 2,319,084; May 11.
Orlow, Ernest M., Lannon, Wis. Apparatus and method for breaking slabs of stone. 2,319,154; May 11.
Osmun, Fred N., Houston, Tex. Retriever. 2,318,885; May 11.
Outboard, Marine & Manufacturing Company. (See Sidell, Philip A., assignor.)
Owens-Corning Fiberglas Corporation. (See Wallrath, B., and Basinski, assignors.)
Packard Motor Car Company. (See Christman, John M., assignor.)
Paddock, George A., Stow, Ohio, assignor to National Battery Company, St. Paul, Minn. Handle for storage batteries. 2,318,792; May 11.
Paget, Win W., Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 2,318,622; May 11.
Paiement, Joseph, Pointe-Claire, Quebec, Canada. Loading and unloading mechanism for trucks. 2,318,886; May 11.
Pait, David E., Eustis, Fla. Game apparatus. 2,318,793; May 11.
Park, William, Toronto, Ontario, Canada. Planetarium. 2,318,961; May 11.
Parker, Arthur L., Cleveland, Ohio. Valve assembly. 2,318,962; May 11.
Parker, Arthur L., Cleveland, Ohio. Valve assembly. 2,318,963; May 11.
Parker, Arthur L., Cleveland, Ohio. Valve assembly. 2,318,964; May 11.
Parker, Arthur L., and J. N. Wolfram, Cleveland, Ohio, said Wolfram assignor to said Parker. Valved coupling. 2,318,965; May 11.
Parker, George W., Jr., assignor to Specialty Engineering Company, Philadelphia, Pa. Truck body. 2,318,794; May 11.
Parker Rust Proof Company. (See Thompson, John S., assignor.)
Parr, Bernard A., East Sheen, London, England, assignor to Tinnerman Products, Inc., Cleveland, Ohio. Sheet metal nut. 2,318,708; May 11.
Parr, Josephus O., Jr. (See Petty, O. S., and Parr.)
Passanante, Patrick F., and F. Santagata, Brooklyn, N. Y. Tire remover. 2,319,155; May 11.
Patent Royalties, Inc. (See Goetz, Herbert W., assignor.)
Patterson-Ballagh Corporation. (See Miller de Mont G., assignor.)
Penfold, Charles S., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Connector. 2,318,648; May 11.
Penfold, Charles S., assignor to H. A. Douglas Manufacturing Co., Bronson, Mich. Electrical connection means. 2,318,649; May 11.
Penfold, Charles S., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electrical connection means. 2,318,650; May 11.
Penfold, Charles S., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electrical connection means. 2,318,651; May 11.
Perkins, Kenneth, Scotch Plains, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Process of inlaying and molding articles. 2,319,156; May 11.
Persson, Per O., assignor to Quality Hardware and Machine Corporation, Chicago, Ill. Gauge for metallic cartridge belt links. 2,318,709; May 11.
Persyn, Albert A., Associated, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Gum inhibitor. 2,318,710; May 11.
Peters, Leo J., Tulsa, Okla., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Seismograph amplifier system. 2,318,795; May 11.
Petersen Oven Company, The. (See Cook, John V., assignor.)
Peterson, Howard B., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Can closing machine. 2,318,623; May 11.
Petty, Olive S., and J. O. Parr, Jr., said Parr assignor to said Petty, San Antonio, Tex. Automatic volume control for recorder amplifiers. 2,318,624; May 11.
Phelan, Louis V., Wayland, assignor to Dennison Manufacturing Company, Framingham, Mass. Seed germinating tray. 2,318,711; May 11.

Phillips Petroleum Company. (See Carney, Samuel C., assignor.)
Picard, René, and R. Fays, Paris, France; vested in the Alien Property Custodian. Making retractile articles. 2,318,796; May 11.
Pier, Mathias, Heidelberg, and F. Christmann, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Production of lubricating oils. 2,318,625; May 11.
Pier, Mathias, Heidelberg, and E. Donath, Mannheim, Germany; vested in the Alien Property Custodian. Production of products rich in unsaturated hydrocarbons; 2,318,626; May 11.
Pillsbury, Howard G., and E. B. Ingersoll, assignors to Chamberlin Metal Weather Strip Company, Detroit, Mich. Wall and building structure. 2,318,966; May 11.
Pillsbury, Howard G., and E. B. Ingersoll, assignors to Chamberlin Metal Weather Strip Company, Detroit, Mich. Wall structure. 2,318,967; May 11.
Pines, Herman. (See Ipatieff, V. N., and Pines.)
Piper, Walter F., assignor to The Beardsley & Piper Company, Chicago, Ill. Mulling apparatus. 2,318,797; May 11.
Piron, Emil H., New York, N. Y., assignor to Transit Research Corporation. Fluid pressure actuated brake system. 2,318,798; May 11.
Pittsburgh Plate Glass Company. (See Means, Dwight R., assignor.)
Pittsburgh Plate Glass Company. (See Muskat, I. E., Pollack, Strain, and Franta, assignors.)
Plant, Thomas F., Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y. Raincoat. 2,319,085; May 11.
Plastic Inlays, Inc. (See Sypher, Milford G., assignor.)
Polhemus, John K., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Shutter release for folding cameras. 2,319,157; May 11.
Polk Development Company, The. (See Fix, Oral S., assignor.)
Pollack, Maxwell A. (See Muskat, I. E., Pollack, Strain, and Franta.)
Portland Company, The. (See Grote, Alfred W., assignor.)
Prange, Charles H. (See Feagin, R. C., and Prange.)
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer. 2,318,712; May 11.
Preble, Andrew Y., El Centro, Calif. Preserving and shipping corn. 2,318,713; May 11.
Price, Ralph E., Highfield, Md., and H. E. Balsiger, assignors to Landis Tool Company, Waynesboro, Pa. Spindle reciprocating mechanism. 2,318,799; May 11.
Proctor, B. A., Company. (See Proctor, Barton A., assignor.)
Proctor, Barton A., Larchmont, assignor to B. A. Proctor Company, Inc., New York, N. Y. Sound recording and reproducing. 2,318,627; May 11.
Proctor, Barton A., Larchmont, assignor to B. A. Proctor Company, Inc., New York, N. Y. Sound translating machine. 2,318,628; May 11.
Proescher, Frederick, San Jose, and V. M. Sycheff, Palo Alto, Calif., assignors to Research Corporation, New York, N. Y. Acridinium azo compounds. 2,318,968; May 11.
Prutton, Carl F., Cleveland Heights, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio. Lubricating composition. 2,318,629; May 11.
Prutton, Carl F., Cleveland, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio. Lubricating composition. 2,318,630; May 11.
Quality Hardware and Machine Corporation. (See Persson, Per O., assignor.)
Quillin, Richard H., Aberdeen Proving Ground, Md. Masonry drill. 2,318,631; May 11.
Quinn, Edward, Saugus, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Assembling machine. 2,318,632; May 11.
Radio Corporation of America. (See Evans, John, assignor.)
Radio Corporation of America. (See Hillier, James, assignor.)
Radio Corporation of America. (See Koch, Winfield R., assignor.)
Radio Corporation of America. (See Morton, George A., assignor.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Rakow, Melvin H., Elgin, assignor, by mesne assignments, to Acme Visible Records, Inc., Chicago, Ill. Drawer slide. 2,318,800; May 11.
Ramsell, Harold G., Wolverhampton, and J. W. Taylor, Wednesfield, England, assignors to The Yale & Towne Manufacturing Company, Stamford, Conn. Key for cylinder locks. 2,318,887; May 11.
Ramsey Accessories Manufacturing Corporation. (See Marien, Charles A. and M. W., assignors.)
Ray, William A., Glendale, Calif. Electrical control system for valves. 2,318,801; May 11.
Reconstruction Finance Corporation. (See Hack, Frank W., assignor.)
Regents of the University of Minnesota. (See Smith, Lee I., assignor.)
Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Trailer vehicle. 2,318,802; May 11.
Reiff, Orland M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition and improving agent therefor. 2,319,189; May 11.
Reiff, Orland M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition. 2,319,190; May 11.
Research Association of British Flour Millers, The. (See Jones, C. R., and Simpson, assignors.)
Research Corporation. (See Proescher, F., and Sycheff, assignors.)
Research Corporation. (See Winnek, Douglas F., assignor.)
Revere Electric Manufacturing Co. (See Winters, Alva B., assignor.)
Reynolds, Richard, Washington, D. C. Water distribution apparatus. 2,318,969; May 11.
Rhinelander Paper Company, (See Dodge, Lloyd L., assignor.)
Richardson Company, The. (See Neely, Glen W., assignor.)
Richardson Company, The. (See Rieser, Oliver O., assignor.)
Richmond, George O., assignor to Gleason Works, Rochester, N. Y. Apparatus for testing gears. 2,318,970; May 11.
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photoflash synchronizing apparatus. 2,319,086; May 11.
Rienstra, Albert R., Garden City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric organ keying system. 2,319,087; May 11.
Ries, Park J., Los Angeles, Calif. Instrument mounting device. 2,318,633; May 11.
Rieser, Oliver O., Oak Park, Ill., assignor to The Richardson Company, Lockland, Ohio. Electrolyte control device. 2,319,158; May 11.
Ritter, W. M., Lumber Company. (See Klammt, A., and Kretzschmar, assignors.)
Roach, John, assignor of one-half to E. B. H. Tower, Jr., Milwaukee, Wis. Electric fence. 2,318,832; May 11.
Robertson, Harold J., Tulsa, and T. G. Wisherd, Sand Springs, Okla., assignors to Sinclair Refining Company, New York, N. Y. Emulsion. 2,318,714; May 11.
Robinot, David H., New York, and A. Weil, Jamaica, N. Y. Fly trap. 2,318,634; May 11.
Rockwood Sprinkler Company. (See Freeman, H. G., and Henciński, assignors.)
Roe, Edward T. (See Stubbs, J. J., Lockwood, Roe, and Ward.)
Roethel, John H., assignor to Marvel-Equipment Corporation, Detroit, Mich. Window regulator. 2,319,088; May 11.
Rohlfing, Fred. (See Kottman, A. A., and Rohlfing.)
Rolph, Thomas W., Newark, Ohio, assighor to Holophane Company, Inc., New York, N. Y. Luminaire. 2,318,715; May 11.
Rolph, Thomas W., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Luminaire. 2,318,716; May 11.
Rose, William H., Jersey City, N. J., assignor to Stanco Incorporated. Snap-on attachment cap. 2,318,717; May 11.
Rosenberg, Louis. (See Karns, Sherman S., assignor.)
Roumage, Camille C., and A. K. Blodjer, Auburn, Calif.; said Roumage assignor to said Blodjer. Ski rack for motor vehicles. 2,318,971; May 11.
Ruprecht, Louis. (See Sheldon, William M., assignor.)
St. Louis, Charles V., Oak Park, assignor to Wilson-Jones Company, Chicago, Ill. Punch. 2,318,900; May 11.
Sailer, Rudolph J., Townley, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Attachment holder for sewing machines. 2,319,191; May 11.
Salinger, Fred, Chicago, Ill. Fountain toothbrush. 2,318,635; May 11.
Salomon, Vicente, Rochester, N. Y. Game board. 2,319,159; May 11.
Salvesen, Jorgen R. (See Bird, P. G., Evans, Harmon, and Salvesen.)
Sammons, Charles W. (See Moncrieff, R. W., and Sammons.)
Sanders, Clarence E., Kansas City, Kans., assignor to American Hospital Supply Corporation, Chicago, Ill. Therapeutic appliance. 2,318,888; May 11.
Sanford, Charles L., Bedford, Ohio. Partition block. 2,318,889; May 11.
Santagata, Frank. (See Passanante, P. F., and Santagata.)
Schaaff, Louis W., Elmhurst, N. Y. Apparatus for sweetening breath. 2,318,636; May 11.
Scharping, Otto W. (See Martindale, G. E., and Scharping.)
Scherer, Robert P., Detroit, Mich. Method and apparatus of fabricating filled capsules. 2,318,718; May 11.
Schering Corporation. (See Hohlweg, W., and Inhoffen, assignors.)
Schingeck, Oscar W. (See Klatt, R. A., and Schingeck.)
Schneider, Helmuth G., and L. A. Bannon, Roselle, N. J., assignors to Standard Oil Development Company. Polymerizing olefins to lubricating oils. 2,318,719; May 11.

Schneider, Wallace K., and G. W. Seagren, assignors to Stoner-Mudge, Inc., Pittsburgh, Pa. Marking composition. 2,318,808; May 11.
Scholl Mfg. Co., The. (See McCormick, Lewis M., assignor.)
Scholl, William M., Chicago, Ill. Arch support. 2,319,160; May 11.
Schultz, William O., South Milwaukee, assignor to Line Material Company, Milwaukee, Wis. Combined fuse cut-out and disconnect switch. 2,319,161; May 11.
Schwab, Martin C., Chicago, Ill. Liquid dispensing device. 2,318,637; May 11.
Schwarze Engineering Company, The. (See Souther, John G., assignor.)
Schweitzer & Conrad, Inc. (See Triplett, Hugh A., assignor.)
Scott, Charles H., Westport, Conn., assignor to The Dorr Company, Inc., New York, N. Y. Valve. 2,318,638; May 11.
Seagren, George W. (See Schneider, W. K., and Seagren.)
Secretary of Agriculture of the United States of America, Henry A. Wallace, and to his successors in office. (See Stubbs, J. J., Lockwood, Roe, and Ward, assignors.)
Seelman, John J., assignor to Seelman Laboratories, Milwaukee, Wis. Filing case. 2,318,890; May 11.
Seelman Laboratories. (See Seelman, John J., assignor.)
Seger, Francis M. (See Bandertscher, D. E., Berger, and Seger.)
Selden, Robert F. (See Waldron, C. D., and Selden.)
Servel, Inc. (See O'Brien, William L., assignor.)
Severance, Louise, Point Pleasant, N. J. Hospital garment. 2,319,089; May 11.
Sewell, Benjamin W., Tulsa, Okla., assignor to Standard Oil Development Company. Magnetic permeability indicator. 2,318,720; May 11.
Shahovskoy, George S. (See Truebe, C. E., Shahovskoy, and Levy.)
Shannon, Leo C., Knox, Ind. Hairpin. 2,318,804; May 11.
Sheldon, William M., Elizabeth, assignor to L. Ruprecht, Montclair, N. J. Pulverizing mill. 2,319,192; May 11.
Shell Development Company. (See van Leeuwen, Gerrit H., assignor.)
Sheppard, Samuel E., and W. Vanselow, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion containing fog inhibitors. 2,319,090; May 11.
Short, Vernon R., Westbrook, Conn. Educational device. 2,319,162; May 11.
Sibert, Lewis R., Kansas City, Mo. Smoking pipe. 2,318,639; May 11.
Sidell, Philip A., assignor to Outboard, Marine & Manufacturing Company, Galesburg, Ill. Condensing radiator system for refrigerator installations. 2,318,891; May 11.
Silva, Frank C., San Jose, Calif. Grape stemmer. 2,318,805; May 11.
Simas, Charles P., Taunton, Mass. Hair curler. 2,318,972; May 11.
Simmonds, Oliver E., London, England, assignor to Tinnerman Products, Inc., Cleveland, Ohio. Spring fastener. 2,318,640; May 11.
Simons, Eric J. (See Buxton, L. O., and Simons.)
Simpson, Albert. (See Willis, F. W., and Simpson.)
Simpson, Arthur G. (See Jones, C. R., and Simpson.)
Sinclair Refining Company. (See Robertson, H. J., and Wisherd, assignors.)
Singer Manufacturing Company, The. (See Clayton, Andrew B., assignor.)
Singer Manufacturing Company, The. (See Enos, John P., assignor.)
Singer Manufacturing Company, The. (See Perkins, Kenneth, assignor.)
Singer Manufacturing Company, The. (See Sailer, Rudolph J., assignor.)
Sisson, Kenneth O., Dayton, Ohio, and C. E. Bowyer, assignors to Bendix Home Appliances, Inc., South Bend, Ind. Cleaning machine. 2,318,806; May 11.
Siver, Chester A., United States Navy, assignor to Union Carbide and Carbon Corporation. Fluid pressure regulator. 2,318,721; May 11.
Slack, Alfred D. (See Nadeau, G. F., and Slack.)
Slevin, Julian B., Jr., Drexel Hill, Pa. Carrier for bottles and the like. 2,318,807; May 11.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Feeder head for shaker conveyers. 2,318,808; May 11.
Slovin, David G., Providence, R. I., assignor to United States Rubber Company, New York, N. Y. Making coreless golf balls. 2,319,163; May 11.
Slupesky, Frank B. (See Tow, Albert H., assignor.)
Smart, Sidney K. (See Atwood, R. V., and Smart.)
Smith, Burton O., Kennett Square, Pa. Shipping carton. 2,318,973; May 11.
Smith, Charles M. (See Smith, S. H., Kalber, and Smith.)
Smith, Charles V., assignor to The Univis Lens Company, Dayton, Ohio. Method of molding. 2,319,014; May 11.
Smith, Ferdinand O., Hamden, and W. V. Hirschfeld, New Haven, Conn., assignors to Guidalite Corporation. Highway-illuminating system. 2,318,722; May 11.
Smith, Fred B., Winthrop, Mass. Manifolding packet. 2,318,892; May 11.
Smith, Harry F., Lexington, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,318,893; May 11.
Smith, Lee I., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Biologically active substance for controlling procreative metabolism. 2,318,894; May 11.
Smith, Lee I., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Biologically active product for controlling procreative metabolism. 2,318,895; May 11.
Smith, Lee I., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Biologically active compounds for controlling procreative metabolism. 2,318,896; May 11.
Smith, S., & Sons (Motor Accessories) Limited. (See Meredith, Frederick W., assignor.)
Smith, Samuel H., and S. K. Kalber, Bucyrus, and C. M. Smith, La Grange, Ohio; said Kalber and said C. M. Smith, assignors to said S. H. Smith. Egg container and operating the same. 2,319,091; May 11.
Smith, Thomas R. (See Calvin, F. O., Wilson, and Smith.)
Snyder, Almond H., Lancaster, N. Y., assignor to National Battery Company, St. Paul, Minn. Positive electrode for storage batteries. 2,318,809; May 11.
Snyder, Chester, Yonkers, assignor to Liatex Corporation, New York, N. Y. Plastic product and process. 2,319,164; May 11.
Sobel, Harry, et al., co-partners. (See Fern, Oscar, assignor.)
Socony-Vacuum Oil Company. (See Badertscher, D. E., Berger, and Seger, assignors.)
Socony-Vacuum Oil Company. (See Crowley, John A., Jr., assignor.)
Socony-Vacuum Oil Company. (See Mellett, Dana S., assignor.)
Socony-Vacuum Oil Company. (See Reiff, Orland M., assignor.)
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Inducting head. 2,319,093; May 11.
Sornberger, George E., Sanborn, assignor to American Sales Book Company, Inc., Niagara Falls, N. Y. Continuous record assembly. 2,319,165; May 11.
Souther, John G., Alameda, assignor to The Schwarze Engineering Company, Inc., San Francisco, Calif. Preparation of acid vegetable juices. 2,318,810; May 11.
Spang, Joseph P., Quincy, assignor to Cube Steak Machine Company, Inc., Boston, Mass. Meat-slitting machine. 2,318,897; May 11.
Spaulding, Wellington H., West Hempstead, Long Island, N. Y. Building unit. 2,319,166; May 11.
Speakman, John B., Far Headlingley, Leeds, assignor to Cefoil Limited, Maidenhead, England. Manufacture of textile fibers. 2,319,168; May 11.
Spear, Walter A., assignor to Victor Electric Products, Inc., Cincinnati, Ohio. Electric iron. 2,318,811; May 11.
Specialties Development Corporation. (See Grant, Harry C., Jr., assignor.)
Specialty Engineering Company. (See Parker, George W., Jr., assignor.)
Spence, John L., Jr., Brooklyn, assignor to Leventhal Patents, Inc., New York, N. Y. Slack controller. 2,319,092; May 11.
Spencer Lens Company. (See Fassin, Gustave, assignor.)
Spencer Lens Company. (See MacDonald, George S., assignor.)
Sperry-Sun Well Surveying Company. (See Kothny, Gottdank L., assignor.)
Speth, Lloyd G., East Cleveland, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Valve coupling. 2,319,015; May 11.
Spilo, Edward J., Chicago, Ill. Measuring and dispensing device for packaged material. 2,318,812; May 11.
Spitz, Henry. (See Bolten, J., and Spitz.)
Sponge Rubber Products Company, The. (See De Wyk, Ludolf H., Jr., assignor.)
Stackpole Carbon Company. (See Lodge, Edmund G., assignor.)
Stambach, Robert G., Pekin, Ill. Airplane control. 2,318,833; May 11.
Stampleman, Samuel C., Cohasset, and J. Muros, Cambridge, assignors to Gillette Safety Razor Company, Boston, Mass. Magazine razor. 2,318,974; May 11.
Stanco Incorporated. (See Rose, William H., assignor.)
Standard Catalytic Company. (See Duftschmid, F., Linckh, and Winkler, assignors.)
Standard Oil Company. (See Flint, G. W., and Liehe, assignors.)
Standard Oil Development Company. (See Boucher, Frank G., assignor.)
Standard Oil Development Company. (See Bruce, William A., assignor.)
Standard Oil Development Company. (See Calkins, Austin E., assignor.)
Standard Oil Development Company. (See Gaylor, Peter J., assignor.)
Standard Oil Development Company. (See Hodell, L. R., and Heigl, assignors.)

Standard Oil Development Company. (See Schneider, H. G., and Bannon, assignors.)
Standard Oil Development Company. (See Sewell, Benjamin W., assignor.)
Standard Products Company, The. (See Barnette, Le Roy T., assignor.)
Stanley, William C., Portland, Oreg. Handle. 2,318,975; May 11.
Stevens, Le Roy L., assignor to California Walnut Growers' Association, Los Angeles, Calif. Nut separating machine. 2,318,976; May 11.
Stewart, Robert J., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Casing machine. 2,319,167; May 11.
Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preserving latex and products thereof. 2,318,813; May 11.
Stiegler, Harold W., Stamford, and J. M. Hood, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Stabilized wax composition. 2,318,898; May 11.
Stilwell, Neil C., Richmond, Ind. Box opener and pouring spout. 2,318,899; May 11.
Stoner-Mudge, Inc. (See Schneider, W. K., and Seagren, assignors.)
Stoops, William N. (See Carruthers, Thomas F., and Stoops.)
Strauch, Clauss B., Hazel Green, Wis. Pneumatic protector for automobiles. 2,318,901; May 11.
Strong, George F., Grosse Pointe Farms, Mich. Motor drive for toggle links. 2,318,814; May 11.
Strain, Franklin. (See Muskat, I. E., Pollack, Strain, and Franta.)
Stuart, Charles J., assignor to Wellman Company, Medford, Mass. Locking adjustment. 2,318,815; May 11.
Stubbs, Joseph J., Washington, D. C., L. B. Lockwood, Alexandria, E. T. Roe, and G. E. Ward, Arlington, Va., assignors to Henry A. Wallace, as Secretary of Agriculture of the United States of America, and his successors in office. 2,318,641; May 11.
Sturtevant, B. F., Company. (See Hanson, Milton E., assignor.)
Sullivan Machinery Company. (See Curtis, John C., assignor.)
Sullivan Machinery Company. (See Curtis, J. C., and Gartin, assignors.)
Sullivan Machinery Company. (See Paget, Win W., assignor.)
Sulzer Frères, Société Anonyme. (See Traupel, Walter, assignor.)
Sweitz, Henry L., Chicago, Ill. Mop. 2,318,902; May 11.
Swezey, Burdette S., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication switching system. 2,318,723; May 11.
Sycheff, Vladimir M. (See Proescher, F., and Sycheff.)
Sypher, Milford G., assignor to Plastic Inlays, Inc., Summit, N. J. Machine for inlaying. 2,318,977; May 11.
Tampier, René, Cricklewood, London, England. Aircraft. 2,319,169; May 11.
Taylor, Jack W. (See Ramsell, H. G., and Taylor.)
Taylor, James S., Tulsa, Okla. Spider and slip construction. 2,319,016; May 11.
Taylor, Taylor & Hobson Limited. (See Warmisham, A., and Wynne, assignors.)
Teletype Corporation. (See Burcky, Charles W., assignor.)
Temple, Robert, Swissvale, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc. Apparatus for testing pressure gauges. 2,318,724; May 11.
Temple Velocity Equipment, Inc. (See Temple, Robert, assignor.)
Thomas, Claude C., Birmingham, Ala., assignor of one-half to E. H. Clements, Roanoke, Va. Sacking and measuring device. 2,318,725; May 11.
Thomas, Stanley R., Lyons, Mich., assignor to Bantam Bearings Corporation, South Bend, Ind. Cam follower. 2,318,903; May 11.
Thompson, Albert R., Los Gatos, assignor to Food Machinery Corporation, San Jose, Calif. Cutting machine. 2,318,904; May 11.
Thompson, John S., Detroit, assignor to Parker Rust Proof Company, County of Wayne, Mich. Coated metal article and making same. 2,318,642; May 11.
Thompson, John S., Detroit, assignor to Parker Rust Proof Company, Wayne County, Mich. Coated metal article and making same. 2,318,656; May 11.
Thurston, Paul L., Martinsburg, W. Va., assignor to Interwoven Stocking Company, New Brunswick, N. J. Article of hosiery including terry fabric. 2,318,643; May 11.
Tide Water Associated Oil Company. (See Persyn, Albert A., assignor.)
Tillman, George, Kingsville, Tex. Bathroom fixture. 2,319,017; May 11.
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,318,816; May 11.
Tinnerman Products, Inc. (See Hansman, George A., assignor.)
Tinnerman Products, Inc. (See Parr, Bernard A., assignor.)
Tinnerman Products, Inc. (See Simmons, Oliver E., assignor.)
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Tokheim Oil Tank and Pump Company. (See Eilers, F. B., and Graef, assignors.)
Tolley, Donald B. (See Hill, D. H., and Tolley.)
Tompkins Bros. Co. (See Ingalls, Willis A., assignor.)
Toner, Royal, Garden City, N. Y. Oyster spat collector. 2,319,170; May 11.
Tow, Albert H., Atlanta, Ga., assignor of one-half to F. B Slupesky, Indianapolis, Ind. Flush tank. 2,318,978; May 11.
Tower, Edwin B. H., Jr. (See Roach, John, assignor.)
Transart Aktiebolag. (See Kroner, Friedrich, assignor.)
Transit Research Corporation. (See Piron, Emil H., assignor.)
Traupel, Walter, assignor to Sulzer Frères, Société, Anonyme, Winterthur, Switzerland. Gas turbine plant. 2,318,905; May 11.
Triplett, Hugh A., Wilmette, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse construction. 2,318,817; May 11.
Troche, Herman J., Cleveland Heights, and D. Kelleher, Strongsville, assignors to The American Coach & Body Company, Cleveland, Ohio. Collapsible reel. 2,318,906; May 11.
Truebe, Carl E., Saybrook, G. S. Shahovskoy, Essex, and J. Levy, New Haven, assignors to Ernst Bischoff Company, Inc., Ivoryton, Conn. Organic chemical product. 2,319,094; May 11.
Tubbs, Ernest A., Long Island City, N. Y., assignor to National Television and Manufacturing Corporation. Voltage regulation and supply. 2,318,644; May 11.
Tull, Alan G., Purley, assignor to Latta Syndicate Limited, London, England. Production of colored photographic images. 2,318,818; May 11.
Ullman, Martin, New York, N. Y., assignor to The Munising Paper Company, Chicago, Ill. Self-locking box. 2,319,018; May 11.
Union Carbide and Carbon Corporation. (See Linden, Walter R., assignor.)
Union Carbide and Carbon Corporation. (See Siver, Chester A., assignor.)
Union Oil Company of California. (See Carr, Donald E., assignor.)
Union Oil Company of California. (See Dunham, Robert A., assignor.)
Union Oil Company of California. (See McLennan, L. W., and Neukow, assignors.)
Union Switch & Signal Company, The. (See Blosser, Herman G., assignor.)
Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)
United-Carr Fastener Corporation. (See Hall, Charles L., assignor.)
United-Carr Fastener Corporation. (See Kimbell, Arthur W., assignor.)
United Shoe Machinery Corporation. (See Dixon, Paul H., assignor.)
United Shoe Machinery Corporation. (See MacKenzie, Wilbur L., assignor.)
United Shoe Machinery Corporation. (See Minett, Wilfrid T., assignor.)
United Shoe Machinery Corporation. (See Quinn, Edward, assignor.)
United States Rubber Company. (See Alexander, Robert O., assignor.)
United States Rubber Company. (See Plant, Thomas F., assignor.)
United States Rubber Company. (See Slovin, David G., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Ipatieff, V. N., and Pines, assignors.)
Univis Lens Company, The. (See Smith, Charles V., assignor.)
Upton, George, Newton, Mass., assignor to American Sandpaper Company. Abrasive article. 2,318,907; May 11.
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency modulator. 2,318,979; May 11.
Van Court, Ruth, New York, N. Y. Nonfraying fabric strip. 2,319,019; May 11.
Van der Pyl, Edward, Holden, Mass., assignor to Agicide Laboratories, Inc., Racine, Wis. Molded article. 2,319,182; May 11.
Vanity Fair Mills, Inc. (See Amidon, Roy C., assignor.)
Van Leeuwen, Gerrit H., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Process of impermeabilizing, tightening, or consolidating grounds and other earthy and stony masses and structures. 2,319,020; May 11.
Van Nest, Francis H., Marblehead, Mass., assignor to General Electric Company. Relief valve. 2,319,021; May 11.
Vanselow, Waldemar. (See Sheppard, S. E., and Vanselow.)
Verson, David C., Chicago, Ill. Multiple action punch press die and cushion. 2,318,819; May 11.
Vick Chemical Company. (See Hines, Benjamin McF., assignor.)
Vickers Incorporated. (See Griffith, Raymond C., assignor.)

Vickers Incorporated. (See Hayden, Merrill A., assignor.)
Vickers Incorporated. (See Miller, Raymond S., assignor.)
Victor Electric Products, Inc. (See Spear, Walter A., assignor.)
Victor Manufacturing & Gasket Company. (See Bernstein, W. F., Mika, Lillis and Colwell, assignors.)
Victor Manufacturing & Gasket Company. (See Kosatka, Thomas O., assignor.)
Voigt, Paul A., Bellerose Manor, and J. E. Johansen, Brooklyn, assignors to Johns-Manville Corporation, New York, N. Y. Building construction. 2,318,820; May 11.
Wagner, Harold A., Portland, Oreg. Power driven truck. 2,318,726; May 11.
Waldie, William A., assignor to New Wrinkle, Inc., Dayton, Ohio. Making an oil modified alkyd resin. 2,319,022; May 11.
Waldorf Knitting, Inc. (See Gluck, Fred S., assignor.)
Waldron, Cloyd D., Newport News, and R. F. Selden, Hampton, Va. Horsepower meter. 2,318,645; May 11.
Walker, Isaac F. (See Goebel, M. T., and Walker.)
Walker, William O., Whiting, Ind. Apparatus for removing wall paper or other surface ornamentation. 2,319,023; May 11.
Wallrath, Burton, and L. Basinski, Saginaw, Mich., assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Method and apparatus for making fibrous mineral material. 2,318,821; May 11.
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Filling and sealing device. 2,319,193; May 11.
Walter, Frederick R., administrator. (See Conradson, Conrad M.)
Wantz, Clarence, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Lead connector. 2,318,822; May 11.
Wantz, Clarence, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Safety shut-off and control device. 2,318,823; May 11.
Ward, George E. (See Stubbs, J. J., Lockwood, Roe, and Ward.)
Warmisham, Arthur, and C. G. Wynne, assignors to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective. 2,319,171; Mar. 11.
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Watson, Harold F., et al., trustees. (See Galanot, C. P., and Watson, assignors.)
Watson, James A., Jr. (See Galanot, C. P., and Watson.)
Watson, John W., Wayne, Pa., and K. W. Hildenbrand, Monroe, Mich., assignors to John Warren Watson Company, Philadelphia, Pa. Spacing device for frictionally opposed bodies. 2,319,172; May 11.
Watson, John W., Company. (See Watson, J. W., and Hildenbrand, assignors.)
Webb, Christopher F., and N. E. Brewerton, Uxbridge, assignors to Bell Punch Company Limited, London, England. Indicator for synchronous electrical control systems. 2,318,727; May 11.
Wehringer, Herman H., Montclair, N. J. Hose coupling. 2,319,024; May 11.
Wehringer, Herman H., Montclair, N. J. Workbench for power tools. 2,319,025; May 11.
Weightman, William A., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Press welding machine. 2,319,095; May 11.
Weil, Alex. (See Robinot, D. H., and Weil.)
Weiser, George L. (See Nichols, C. A., and Weiser.)
Weiss, Frank L., New York, N. Y. Ash tray and token holder combination. 2,319,173; May 11.
Welch, Nicholas A., West Hartford, assignor to The American Hardware Corporation, New Britain, Conn. Lock. 2,318,908; May 11.
Wellman Company. (See Stuart, Charles J., assignor.)
Wepplo, Isaac W., Minneapolis, Minn. Fuel vaporizer. 2,318,824; May 11.
Werking, Leroy C., Cleveland, Ohio, assignor to National Carbon Company, Inc. Diffusion of gases into liquids. 2,318,728; May 11.
Western Electric Company. (See Fairley, Frank, assignor.)
Western Electric Company. (See Olofson, Karl R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Holmes, Richard E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wiener, Charles, assignor.)
Wettstein, Albert. (See Miescher, K., and Wettstein.)
Wheaton, A. W., Brass Works. (See Krone, H. C., and Meyer, assignors.)
Wheaton Brass Works. (See Krone, H. C., and Meyer, assignors.)
Wheel Aligning Necessities, Inc. (See Castiglia, Biagis, assignor.)
White, Clarence, Walnut Park, assignor to Oil Well Manufacturing Corporation, Los Angeles, Calif. Cylinder liner puller. 2,318,980; May 11.
White, Jesse M., Philadelphia, Pa., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Connecting sleeve. 2,318,647; May 11.
White, Jud E., Knoxville, Tenn. Telemetric system. 2,318,646; May 11.
Whiting Corporation. (See Holmes, Louis D., assignor.)
Wico Electric Company. (See Atwood, R. V., and Smart, assignors.)
Wiener, Charles, Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Making lamp stems. 2,318,652; May 11.
Wiener, Charles, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge lamp and stem therefor. 2,318,653; May 11.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Cutoff and transfer mechanism. 2,318,825; May 11.
Wiley, James M., Memphis, Tenn. Combined cultivator and harrow. 2,318,981; May 11.
Willhide, Glenn C., Towson, Md., assignor to The Black and Decker Manufacturing Company. Portable sheet metal cutting tool. 2,318,982; May 11.
Willett, Leon E. (See Ingersoll, E. B., and Willett.)
Willis, Frederick W., and A. Simpson, Belfast, Northern Ireland. Producing a bath liquid, spray, or the like. 2,318,826; May 11.
Wilson, Alexander L., Sharpsburg, Pa., assignor to Carbide and Carbon Chemicals Corporation. Process for making amino-alkyl compounds. 2,318,729; May 11.
Wilson, Alexander L., Sharpsburg, Pa., assignor to Carbide and Carbon Chemicals Corporation. Making alkylene polyamines. 2,318,730; May 11.
Wilson-Jones Company. (See St. Louis, Charles V., assignor.)
Wilson, Mitchell, assignor to Fred'k H. Levey Co., Inc., New York, N. Y. Method of and apparatus for printing. 2,319,174; May 11.
Wilson, William G. (See Calvin, F. O., Wilson, and Smith.)
Winkler, Fritz. (See Duftschmid, F., Linckh and Winkler.)
Winnek, Douglas F., Rye, assignor to Research Corporation, New York, N. Y. Stereo-photography. 2,318,983; May 11.
Winters, Alva B., assignor to Revere Electric Manufacturing Co., Chicago, Ill. Fixture mounting. 2,319,175; May 11.
Wisherd, Thomas G. (See Robertson, H. J., and Wisherd.)
Wissahickon Plush Mills, Inc. (See McElheney, James H., assignor.)
Wissner, Benjamin F., New York, N. Y. Automatic phonograph. 2,318,654; May 11.
Wolfram, John N. (See Parker, A. L., and Wolfram.)
Wood, Conrad, Geneva, assignor to The Fork & Hoe Company, Cleveland, Ohio. Fish lure. 2,319,096; May 11.
Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Slitter. 2,318,731; May 11.
Woods, Robert J., Grand Island, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Wing construction. 2,318,909; May 11.
Wright, John B., Lovingston, Va. Saw. 2,319,176; May 11.
Wright, Paul, Birmingham, Ala. Discharging hopper. 2,319,177; May 11.
Wrona, Frank S., Aurora, Ill. Military tank. 2,319,178; May 11.
Wynne, Charles G. (See Warmisham, A., and Wynne.)
Yale & Towne Manufacturing Company, The. (See Ramsell, H. G., and Taylor, assignors.)
Yant, William P., Murraysville, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Valve. 2,318,827; May 11.
Yarman, Paul J. (See Morris, J. C., and Yarman.)
Yerkovich, Simon, Bridgeport, Conn., assignor to Dictaphone Corporation, New York, N. Y. Phonograph. 2,318,828; May 11.
Yoder, Carl M., Lakewood, Ohio. Machine for operating on the side edges of sheet metal stock. 2,318,732; May 11.
Youhouse, Joseph, Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Electric motor. 2,319,194; May 11.
Young, L. A., Spring & Wire Corporation. (See Hathaway, Hubert B., assignor.)
Youngstown Steel Door Company, The. (See Ditchfield, Frank, assignor.)
Yule, John A. C. (See Murray, A., and Yule.)
Zahodiakin, Victor F., New York, N. Y. Piston ring. 2,319,097; May 11.
Zahodiakin, Victor F., New York, N. Y. Piston ring. 2,319,098; May 11.
Zalkind, Philip, New York, N. Y. Container. 2,318,655; May 11.
Zeppo Parachute Attachment Company. (See Coleman, George G., assignor.)
Zimmerman, David, Cleveland, Ohio. Lapel. 2,318,829; May 11.
Zucker, Frank C., New York, N. Y. Adjustable instrument support. 2,318,910; May 11.
Zweber, Cyril J. (See Zweber, John P., and C. J.)
Zweber, John P., Hastings, and C. J. Zweber, Farmington, Minn. Tablet crusher. 2,318,911; May 11.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Blind, Louver. W. L. Roy. Re. 22,311; May 11.
Coupling. S. Guarnaschelli. Re. 22,309; May 11.
Mechanism for butt welding. E. F. Nelson. Re. 22,310; May 11.
Photographic pictures, Production of colored. B. Gáspár. Re. 22,308; May 11.

LIST OF PLANT INVENTIONS

Rose plant. R. L. Byrum. 582; May 11.
Rose plant. S. B. Roberts. 583; May 11.

LIST OF DESIGN INVENTIONS

Airplane. P. Sullivan. 135,667; May 11.
Bank, Coin. R. V. Moran. 135,671–2; May 11.
Banner or the like. H. S. Mikesell. 135,663; May 11.
Battery charger. C. G. Sherman and W. P. Ryan. 135,650; May 11.
Bench for lathes or the like. H. H. Logan. 135,669; May 11.
Board, Game. W. G. Fletcher. 135,681; May 11.
Bolt, Spring shackle. E. O. Krauter. 135,661; May 11.
Bottle. F. McIntosh. 135,679; May 11.
Boutonniere, Artificial. A. G. Spilka. 135,666; May 11.
Cabinet, Refrigerator. P. Vassallo. 135,651; May 11.
Casserole. T. Kapner and D. Kamenstein. 135,649; May 11.
Conduit for tank water heaters, Heat-absorbing water. C. H. Morrow. 135,655; May 11.
Corsage, Artificial. A. G. Spilka. 135,665; May 11.
Doll. M. Hirsch. 135,684; May 11.
Door, Cabinet. A. Marchand. 135,654; May 11.
Door panel for camp stoves, Front. A. M. Cochran. 135,652; May 11.
Earphone. A. L. W. Williams and D. E. Rutter. 135,674; May 11.
Flag. W. S. Bailey. 135,658; May 11.
Font of type. B. Goldsmith, Jr. 135,683; May 11.
Hat or similar article, Scarf. L. Karlen. 135,678; May 11.
Holder, Book. W. L. Pollard. 135,664; May 11.
Mixer, Food. W. J. Burford. 135,647; May 11.
Nail or similar article. E. C. Matignon. 135,662; May 11.
Ornament, Automobile. R. V. Franceschi. 135,659; May 11.
Package for fire extinguishing material or similar article. H. G. Hastert. 135,677; May 11.
Pad, pencil, and holder therefor, or similar article, Combined memorandum. S. Brodsky. 135,675–6; May 11.
Pin or similar article, Brooch. S. L. Hirson. 135,653; May 11.
Poultry picking machine. F. Corey and M. J. Fletcher. 135,668; May 11.
Power set, Engine-driven plural-electric-generator. C. J. Holsag. 135,648; May 11.
Rack, Shovel. A. P. Zetterberg. 135,657; May 11.
Rack, Tie. W. G. Williams. 135,656; May 11.
Regulator, Temperature. W. H. Geddes. 135,682; May 11.
Steamer, Hat. R. C. Utley and A. Feilchenfeld. 135,680; May 11.
Suit or similar article, Bathing. M. J. Miles. 135,670; May 11.
Vehicle, Juvenile. W. I. Smith. 135,673; May 11.
Wreath, Artificial. T. Kirchen. 135,660; May 11.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article. G. Upton. 2,318,907; May 11.
Acid compounds, Treating ricinoleic. G. D. Davis and B. A. Dombrow. 2,318,762; May 11.
Acid vegetable juices, Preparation of. J. G. Souther. 2,318,810; May 11.
Adhesive. F. Albers and A. Allendorfer. 2,319,102; May 11.
Adjustable instrument support. F. C. Zucker. 2,318,910; May 11.
Aeration of plaster of paris compositions. C. G. F. Cavadino. 2,318,754; May 11.
Aeroplane control. R. G. Stambach. 2,318,833; May 11.
Agitator and drive with molded compression strain driven element, Composite. H. H. Crimmel. 2,318,759; May 11.
Air conditioning apparatus. R. E. Holmes. 2,319,062; May 11.
Air conditioning apparatus. A. S. Feinberg. 2,319,119; May 11.
Air conditioning system. A. B. Newton. 2,318,706; May 11.
Aircraft. R. Tampier. 2,319,169; May 11.
Alarm, Collision. J. K. McLeod. 2,319,010; May 11.
Aliphatic acids and anhydrides, Manufacture of. W. G. Lowe and W. O. Kenyon. 2,319,070; May 11.
Alkylene polyamines, Making. A. L. Wilson. 2,318,730; May 11.
Alternator, Electrostatic. R. C. Fisher. 2,318,935; May 11.
Amino-alkyl compounds, Making. A. L. Wilson. 2,318,729; May 11.
Aminophenol and its preparation. J. G. McNally and J. B. Dickey. 2,319,078; May 11.
Amplifier system, Seismograph. L. J. Peters. 2,318,795; May 11.
Amusement device. T. J. Murphy. 2,318,958; May 11.
Anchor groove forming device for concrete structures. W. C. Johnson. 2,318,692; May 11.
Anchor, Tenon. R. J. Haug. 2,318,776; May 11.
Antioxidant. D. Craig. 2,318,758; May 11.
Apparatus and method for breaking slabs of stone. E. M. Orlow. 2,319,154; May 11.
Apparatus calling for a material representation of numbers. P. L. Couffignal. 2,318,591; May 11.
Apparatus for assorting record cards, sheets, and the like. D. Broido. 2,319,108; May 11.
Apparatus for constructing concrete tunnel linings. O. Lance. 2,318,869; May 11.
Apparatus for developing photographic films. E. Fess. 2,318,605; May 11.
Apparatus for overspray recovery. J. W. Nestor. 2,319,082; May 11.
Apparatus for printing, Method of. M. Wilson. 2,319,174; May 11.
Apparatus for removing wall paper or other surface ornamentation. W. O. Walker. 2,319,023; May 11.
Apparatus for segmenting and pitting fruit having pits. O. S. Fix. 2,319,120; May 11.
Apparatus for sweetening breath. L. W. Schaaff. 2,318,636; May 11.
Apparatus for tempering flat glass. G. W. T. Bird. 2,318,584; May 11.
Apparatus for testing gears. G. O. Richmond. 2,318,970; May 11.
Apparatus for testing pressure gauges. R. Temple. 2,318,724; May 11.
Arch support. W. M. Scholl. 2,319,160; May 11.
Article of hosiery, including terry fabric. P. L. Thurston. 2,318,643; May 11.
Articles, Inlaying and molding. K. Perkins. 2,319,156; May 11.
Articles made from vegetable seed proteins and making same, Shaped. A. McLean. 2,319,009; May 11.
Articles of manufacture, Making. Le R. T. Barnette. 2,318,589; May 11.
Asphalt emulsions, Producing. R. A. Dunham. 2,318,932; May 11.
Assembling machine. E. Quinn. 2,318,632; May 11.
Assembling machinery. A. Klammt and G. W. Kretzschmar. 2,318,695; May 11.
Automatic loom. C. D. Brown. 2,318,743; May 11.
Automatic railroad crossing signal. O. Kitchen. 2,319,137; May 11.
Auxiliary handle. E. J. Mason. 2,319,147; May 11.
Azo compounds, Acridinium. F. Proescher and V. M. Sycheff. 2,318,968; May 11.
Backing for photographic film, Antihalation. G. F. Nadeau and A. D. Slack. 2,319,080; May 11.
Balls, Making coreless golf. D. G. Slovin. 2,319,163; May 11.
Bar: *See*—
Bucking bar.
Bath liquid, spray, or the like, Producing a. F. W. Willis and A. Simpson. 2,318,826; May 11.
Bearing: *See*—
Propeller transfer bearing.
Belt, Suspender. A. D. Cohn. 2,318,924; May 11.
Bench for power tools, Work. H. H. Wehringer. 2,319,025; May 11.
Biologically active product for controlling procreative metabolism. L. I. Smith. 2,318,895; May 11.
Biologically active substance for controlling procreative metabolism. L. I. Smith. 2,318,894; May 11.
Biologically active compounds for controlling procreative metabolism. L. I. Smith. 2,318,896; May 11.
Block: *See*—
Partition block.
Blocking press. E. G. Loomis. 2,319,145; May 11.
Board: *See*—
Game board.
Boat, Safety water cradle. W. R. Hood. 2,319,132; May 11.
Bomb. A. F. W. Helmbold. 2,318,994; May 11.
Box: *See*—
Self-locking box.
Box and hinge structure. E. G. Hempel. 2,318,608; May 11.
Bottle, Controlled drip milk. B. A. Jackson. 2,318,611; May 11.
Bottle construction with temperature indicator. S. S. Anderson. 2,319,101; May 11.
Brake: *See*—
Hydraulic coaster brake.
Brake for vehicles. L. C. Chouings. 2,318,756; May 11.
Brake system, Fluid pressure actuated. E. H. Piron. 2,318,798; May 11.
Brief case and the like. H. J. and G. G. Guenther. 2,319,127; May 11.
Brooder construction for chicks. D. H. Hill and D. B. Tolley. 2,318,777; May 11.
Brush, Back scrubbing. F. H. Ellinger. 2,318,680; May 11.
Brush, Shoe polish. J. Arena. 2,319,028; May 11.
Bucking bar. E. B. Lear. 2,319,003; May 11.
Building construction. P. A. Voigt and J. E. Johansen. 2,318,820; May 11.
Building material. P. R. Hollaender. 2,318,857; May 11.
Building unit. W. H. Spaulding. 2,319,166; May 11.
Burner: *See*—
Gas burner.
Butadiene, Purification of. D. Craig. 2,318,988; May 11.
Cabinet: *See*—
Refrigerator cabinet.
Cabinet. H. C. Bullard. 2,318,921; May 11.
Cam follower. S. R. Thomas. 2,318,903; May 11.
Camera, Folding. M. R. Hutchison, Jr. 2,319,063; May 11.
Can closing machine. H. B. Peterson. 2,318,623; May 11.
Cap: *See*—
Snap-on attachment cap.
Cap and clip for fountain pens. J. J. Larmour. 2,318,950; May 11.
Capsules, Method and apparatus of fabricating filled. R. P. Scherer. 2,318,718; May 11.
Car: *See*—
Railway car.
Carrier: *See*—
Clothespin carrier. Slide carrier.
Carrier for bottles and the like. J. B. Slevin, Jr. 2,318,807; May 11.
Cartridge, Grease gun. E. C. Deighton. 2,318,928; May 11.
Carton, Shipping. B. O. Smith. 2,318,973; May 11.
Case: *See*—
Filing case.
Case filling machine. A. C. Davis. 2,318,598; May 11.
Case filling machine. A. C. Davis. 2,318,927; May 11.
Casing machine. R. J. Stewart. 2,319,167 May 11.
Cementing machine for thin material. P. H. Dixon. 2,318,600; May 11.
Centrifugal pump. A. C. Korte and K. Lannert. 2,318,786; May 11.

Ceramics. W. K. Carter. 2,318,753; May 11.
Chart or placard for paint sets, Improved outline. P. Di Lemme. 2,319,044; May 11.
Cheese emulsification. J. D. Ingle. 2,319,187; May 11.
Chemical product, Organic. C. E. Truebe, G. S. Shahovskoy, and J. Levy. 2,319,094; May 11.
Chicks, Determining the sex of. J. F. Hamlin. 2,318,687; May 11.
Circuit breaker. W. L. Butler. 2,318,987; May 11.
Circuit breaker, Gas blast. A. Halm. 2,318,939; May 11.
Circuit controller. H. Brandt. 2,319,107; May 11.
Clamp: *See*—
Pipe clamp.
Clay activation. J. A. Crowley, Jr. 2,319,185; May 11.
Cleaning machine. K. O. Sisson and C. E. Bowyer. 2,318,806; May 11.
Clipper, Hair. S. Z. Gibson. 2,318,848; May 11.
Clothespin carrier. J. A. Bickford. 2,318,735; May 11.
Clutch: *See*—
Friction clutch.
Coated metal article and making same. J. S. Thompson. 2,318,642; May 11.
Coated metal article and making same. J. S. Thompson. 2,318,656; May 11.
Coating composition. J. W. Humphrey. 2,318,780; May 11.
Coin box system, Prepayment. H. M. Bascom. 2,319,032; May 11.
Coin holder. J. E. Grant. 2,318,850; May 11.
Coin lock coat hanger. E. J. Comfort. 2,319,039; May 11.
Collapsible reel. H. J. Troche and D. Kelleher. 2,318,906; May 11.
Collar stiffener. F. A. Kaplan. 2,319,135; May 11.
Collector, Oyster spat. R. Toner. 2,319,170; May 11.
Combined cultivator and harrow. J. M. Wiley. 2,318,981; May 11.
Comestibles, Preservation of. F. Kiefer. 2,318,867; May 11.
Communication switching system. B. S. Swezey. 2,318,723; May 11.
Composite materials, Method for making. T. F. Carruthers and W. N. Stoops. 2,318,670; May 11.
Composition and method for treating boiler water to prevent caustic embrittlement. P. G. Bird, W. Evans, C. Harmon, and J. R. Salvesen. 2,318,663; May 11.
Compounds and cellulose derivatives colored therewith, Anthraquinone. J. B. Dickey and J. G. McNally. 2,319,043; May 11.
Compression coupling. G. A. Borg. 2,318,835; May 11.
Concrete bodies, Reinforcing. K. P. Billner. 2,310,105; May 11.
Conditioning or treatment of wheat prior to milling. C. R. Jones and A. G. Simpson. 2,318,999; May 11.
Conductor carrying means. J. E. Huguelet. 2,318,859; May 11.
Connecting sleeve. J. M. White. 2,318,647; May 11.
Connector: *See*—
Lead connector.
Connector. C. S. Penfold. 2,318,648; May 11.
Constant velocity joint. E. B. Anderson. 2,319,100; May 11.
Container: *See*—
Invoice container. Shipping container.
Container. G. C. Erb. 2,318,603; May 11.
Container. B. McF. Hines. 2,318,778; May 11.
Container. P. Zalkind. 2,318,655; May 11.
Container and operating the same, Egg. S. H. Smith, S. K. Kalber, and C. M. Smith. 2,319,091; May 11.
Container closure and carrier. J. C. Morris and P. J. Yarman. 2,318,957; May 11.
Container-making machine. A. A. Abramson and C. Manthey. 2,319,099; May 11.
Continuous parts-heating furnace. R. G. Le Tourneau. 2,318,870; May 11.
Control apparatus. L. Cook. 2,319,114; May 11.
Control device. O. P. Crouse. 2,319,041; May 11.
Control device for motor driven vehicles, Throttle. T. S. Diver. 2,318,931; May 11.
Control for air conditioned passenger vehicles, Refrigeration. M. E. Hanson. 2,319,130; May 11.
Control for bottom filling of containers. R. B. McKinnis. 2,319,075; May 11.
Controller, Electric fence. C. A. Frederick. 2,319,056; May 11.
Controller, Slack. J. L. Spence, Jr. 2,319,092; May 11.
Conveyer, Bucket. J. M. Alvey. 2,318,658; May 11.
Conveyer, Extensible. J. R. Madeira. 2,318,872; May 11.
Conveyer for baking ovens. J. V. Cook. 2,318,925; May 11.
Conveyer, Shaker. C. A. Pratt. 2,318,712; May 11.
Copper phthalocyanines, Preparation of. V. L. King, J. W. Foote, and D. H. W. Felch. 2,318,783; May 11.
Copper phthalocyanines, Preparation of. H. T. Lacey. 2,318,787; May 11.
Corn, Preserving and shipping. A. Y. Preble. 2,318,713; May 11.
Counter, Traffic. G. V. Nolde. 2,319,153; May 11.
Coupler or hook. A. J. Gore. 2,319,180; May 11.
Couplers in non-gelatinous emulsions, Incorporation of. J. A. Leermakers and S. S. Fierke. 2,318,788; May 11.
Coupling: *See*—
Compression coupling. Valve coupling.
Hose coupling. Valved coupling.
Pipe coupling.
Coupling. J. P. Johnson. 2,319,134; May 11.
Crusher, Tablet. J. P. and C. J. Zweber. 2,318,911; May 11.
Curler, Hair. C. P. Simas. 2,318,972; May 11.
Cushion, Upholstery. H. M. Dodge. 2,318,841; May 11.
Cutter: *See*—
Strawberry runner cutter.
Cutting and sorting of paper and like sheets from continuous webs. P. T. Goldney and A. G. Hingley. 2,318,937; May 11.
Cutting machine. A. R. Thompson. 2,318,904; May 11.
Cutting machine. C. Halmrast. 2,319,128; May 11.
Cutoff and transfer mechanism. R. L. Wilcox. 2,318,825; May 11.
Cylinder line puller. C. White. 2,319,980; May 11.
Degradation products containing carboxyl groups from compounds of the oestrane series and making the same. W. Hohlweg and H. H. Inhoffen. 2,318,609; May 11.
Dental resin. R. C. Feagin and C. H. Prange. 2,318,845; May 11.
Desalting crude. D. S. Mellett. 2,319,188; May 11.
Die and cushion, Multiple action punch press. D. C. Verson. 2,318,819; May 11.
Dimethyl-cyclopentano-polyhydrophenanthrene compounds and making same. K. Miescher and A. Wettstein. 2,319,012–13; May 11.
Dispensing device. B. Deland. 2,318,676; May 11.
Display device. W. H. Druce. 2,319,046; May 11.
Display machine, Picture film. G. M. Mast. 2,318,874; May 11.
Distributor. R. V. Atwood and S. K. Smart. 2,318,659; May 11.
Door. W. Lotter. 2,319,004; May 11.
Door construction, Garage. W. D. Ferris. 2,318,991; May 11.
Door lock. E. V. Kidder. 2,318,947; May 11.
Door operator, Garage. S. S. Karns. 2,319,136; May 11.
Drier. J. C. Harris. 2,319,060; May 11.
Drill: *See*—
Rock drill.
Drill mounting. J. C. Curtis. 2,318,595; May 11.
Drill press, Multiple spindle. A. J. Noel. 2,318,619; May 11.
Drilling apparatus. W. W. Paget. 2,318,622; May 11.
Educational device. V. R. Short. 2,319,162; May 11.
Electric ironer. W. A. Spear. 2,318,811; May 11.
Electric motor. J. Youhouse. 2,319,194; May 11.
Electric sign. F. G. Davenport. 2,318,596; May 11.
Electric switch. E. M. Claytor. 2,318,671; May 11.
Electric switch. W. M. Foster and T. W. Drury. 2,318,768; May 11.
Electric switch. B. W. Jones. 2,319,000; May 11.
Electric switch and terminal connector. S. S. Guelson. 2,318,775; May 11.
Electric switch mechanism. I. E. McCabe. 2,318,698; May 11.
Electrical calculating machine. C. L. Blackburn. 2,310,106; May 11.
Electrical connection means. C. S. Penfold. 2,318,649–51; May 11.
Electrical connection means. R. A. Funk. 2,319,122; May 11.
Electrical control system for valves. W. A. Ray. 2,318,801; May 11.
Electrical distribution system. J. E. Huguelet. 2,318,860; May 11.
Electrical means for indicating temperature conditions. F. C. Doble. 2,318,601; May 11.
Electrode for storage batteries, Positive. A. H. Snyder. 2,318,809; May 11.
Electrodeposition. M. E. Cupery. 2,318,592; May 11.
Electrolyte control device. O. O. Rieser. 2,319,158; May 11.
Elements of organic materials, Preserving. G. D. Arnold. 2,318,576; May 11.
Elevator construction, Hydraulic. A. W. Grote. 2,319,126; May 11.
Emulsion. H. J. Robertson and T. G. Wisherd. 2,318,714; May 11.
Emulsion containing fog inhibitors, Photographic. S. E. Sheppard and W. Vanselow. 2,319,090; May 11.
Engine: *See*—
Internal combustion engine. Jet propulsion engine.
Engine. J. M. Christman. 2,319,113; May 11.
Exercising device. G. C. Bulloch. 2,319,109; May 11.
Extractor: *See*—
Fruit juice extractor.
Facsimile system. W. R. Koch. 2,319,139; May 11.
Fastener: *See*—
Spring fastener.
Fastener. G. A. Hansman. 2,319,058; May 11.
Fastener and installation thereof, Molding and like. S. M. Del Camp. 2,318,840; May 11.
Fastener for wall board units. J. G. Hamilton. 2,319,129; May 11.
Fastener member. C. L. Hall. 2,318,853; May 11.
Fastening device. G. A. Tinnerman. 2,318,816; May 11.
Fastening device. G. A. Hansman. 2,319,059; May 11.

Fastening flexible members. W. R. Buxton. 2,318,750; May 11.
Fats and oils, Refining and concentrating the unsaponifiable fraction of. L. O. Buxton and E. J. Simons. 2,318,748; May 11.
Feeder head for shaker conveyers. W. W. Sloane. 2,318,908; May 11.
Fence, Electric. J. Roach. 2,318,832; May 11.
Fender, Plant. J. R. Fell. 2,319,047; May 11.
Fermentation process for the production of 5-ketogluconic acid. J. J. Stubbs, L. B. Lockwood, E. T. Roe and G. E. Ward. 2,318,641; May 11.
Fibers, Manufacture of textile. J. B. Speakman. 2,319,168; May 11.
Filament supply system. W. R. Koch. 2,318,948; May 11.
Filaments, films, and like materials, Production of artificial. H. Dreyfus. 2,318,679; May 11.
Filaments, foils and like shaped articles, Production of artificial. R. W. Moncrieff and C. W. Sammons. 2,318,704; May 11.
Filing case. J. J. Seelman. 2,318,890; May 11.
Filling and sealing device. C. T. Walter. 2,319,193; May 11.
Filling end parting mechanism. E. C. Nichols. 2,319,181; May 11.
Film and sheeting, High speed method of making cellulose organic derivatives. C. R. Fordyce and W. F. Hunter, Jr. 2,319,051–4; May 11.
Film and sheeting, High speed method of making cellulose organic derivative. C. R. Fordyce and A. J. Gould. 2,319,055; May 11.
Filtering system, Metallographic. H. C. Morgan. 2,318,705; May 11.
Fixture, Bathroom. G. Tillman. 2,319,017; May 11.
Fixture mounting. A. B. Winters. 2,319,175; May 11.
Flexible pocket receptacle. W. R. Buxton. 2,319,110; May 11.
Floor polishing machine. N. N. Okun. 2,318,960; May 11.
Fluid pressure regulator. C. A. Siver. 2,318,721; May 11.
Flush tank. A. H. Tow. 2,318,978; May 11.
Food products, Treating. C. Birdseye. 2,318,736; May 11.
Fly trap. D. H. Robinot and A. Weil. 2,318,634; May 11.
Folding table latch. U. K. Johannsen. 2,318,945; May 11.
Frame: *See*—
Quilting frame.
Frameless insect screen. L. T. Milnor. 2,318,955; May 11.
Frequency changer, Electric valve. E. D. McArthur. 2,319,072; May 11.
Frequency modulator. G. L. Usselman. 2,318,979; May 11.
Friction clutch. D. E. Gamble. 2,319,123; May 11.
Friction clutch. H. Nutt. 2,318,620; May 11.
Fruit juice extractor. W. P. Koch. 2,318,784; May 11.
Fuel and heat economizer. J. T. Harrington. 2,319,131; May 11.
Fuel tank. T. R. Arden. 2,318,917; May 11.
Furnace: *See*—
Continuous parts heating furnace.
Furnace. J. Karmarocky. 2,319,065; May 11.
Furnace for manufacture of acetylene by pyrolysis, Regenerative. R. L. Hasche and W. B. Hincke. 2,318,688; May 11.
Fuse construction. H. A. Triplett. 2,318,817; May 11.
Fuse cutout and disconnect switch. W. O. Schultz. 2,319,161; May 11.
Game apparatus. D. E. Pait. 2,318,793; May 11.
Game board. V. Salomon. 2,319,150; May 11.
Game, Quiz. P. Di Lemme. 2,319,045; May 11.
Garment. H. Miller. 2,318,617; May 11.
Garment hanger. R. M. D. Freeman. 2,318,770; May 11.
Garment, Hospital. L. Severance. 2,319,089; May 11.
Gas burner. C. I. Baker. 2,318,985; May 11.
Gas through underground formations, Tracing. L. R. Hodell and J. J. Heigl. 2,318,689; May 11.
Gases into liquids, Diffusion of. L. C. Werking. 2,318,728; May 11.
Gases, Treatment of. S. C. Carney. 2,318,752; May 11.
Gasket material. W. F. Bernstein, T. F. Mika, S. M. Lillis, and O. L. Colwell. 2,319,033; May 11.
Gauge and milling cutter for propellers, Pitch. H. I. Johnson. 2,318,865; May 11.
Gauge for metallic cartridge belt links. P. O. Persson. 2,318,709; May 11.
Gear crowning. R. S. Drummond. 2,319,117; May 11.
Gearing for aircraft propellers, Reduction. S. W. Mansell and W. P. Holloway. 2,319,146; May 11.
Glass, Artificial. I. E. Muskat, M. A. Pollack, F. Strain, and W. A. Franta. 2,318,959; May 11.
Glove and making, Knitted. W. J. Kuehnel. 2,319,141; May 11.
Glove, Knitted. F. S. Gluck. 2,318,772; May 11.
Grading apparatus, Subaqueous. J. D. Andrews, Jr. 2,318,587; May 11.
Grain trimming device. E. G. Mundy. 2,318,881; May 11.
Grease, Bearing. G. W. Flint and H. J. Liebe. 2,318,847; May 11.
Grease, Hot neck. L. W. McLennan and O. W. Neukom. 2,319,076; May 11.
Grease manufacture. A. E. Calkins. 2,318,668; May 11.
Grinder, Knife. G. P. Dorris. 2,318,764; May 11.
Grounds, and other earthy and stony masses and structures, Impermeabilizing, tightening, or consolidating. G. H. van Leeuwen. 2,319,020; May 11.
Gum inhibitor. A. A. Persyn. 2,318,710; May 11.
Gun, Demountable electron. J. Hillier. 2,319,061; May 11.
Hairpin. L. C. Shannon. 2,318,804; May 11.
Handbag. L. Kaphan. 2,319,694; May 11.
Handle: *See*—
Auxiliary handle.
Handle. W. C. Stanley. 2,318,975; May 11.
Handle for storage batteries. G. A. Paddock. 2,318,792; May 11.
Handle grip. T. L. Fawick. 2,318,682; May 11.
Hanger: *See*—
Coin lock coat hanger. Garment hanger.
Hanger having suspension members of plastic material, Garment. J. Bolten and H. Spitz. 2,318,604; May 11.
Head, Inducing. H. E. Somes. 2,319,093; May 11.
Heat control. W. C. McAnlis. 2,318,875; May 11.
Heater: *See*—
Water heater.
Heel sweep or scrape, Adjustable. J. R. Fell. 2,319,048; May 11.
Highway-illuminating system. F. O. Smith and W. V. Hirschfeld. 2,318,722; May 11.
Holder: *See*—
Coin holder. Soap holder.
Holder for sewing machines, Attachment. R. J. Sailer. 2,319,191; May 11.
Holding device. E. A. Christoph. 2,319,112; May 11.
Holding means for instruments. H. G. Blosser. 2,318,738; May 11.
Honing apparatus. H. S. Indge. 2,318,831; May 11.
Honing machine. G. Crompton, Jr. 2,318,830; May 11.
Hopper, Discharging. P. Wright. 2,319,177; May 11.
Horsepower meter. C. D. Waldron and R. F. Selden. 2,318,645; May 11.
Hose coupling. H. H. Wehringer. 2,319,024; May 11.
Hydraulic coaster brake. H. L. Mueller. 2,318,880; May 11.
Hydraulic system for motor vehicles. L. C. Hyatt and B. Heyman. 2,318,610; May 11.
Hydraulic transmission, Automatic. E. L. Barrett. 2,318,660; May 11.
Hydrocarbons, Synthesis of. F. Duftschmid, E. Linckh and F. Winkler. 2,318,602; May 11.
Hydrocarbons, Treatment of. G. Egloff. 2,318,765; May 11.
Hydrocarbons, Treatment of. V. N. Ipatieff and H. Pines. 2,318,781; May 11.
Image reproducer. G. A. Morton. 2,319,195; May 11.
Impregnating and plasticizing composition. P. J. Gaylor. 2,318,684; May 11.
Incandescent lamp and flasher switch, Combined. I. E. McCabe. 2,318,700; May 11.
Indicator: *See*—
Magnetic permeability indicator.
Indicator for synchronous electrical control systems. C. F. Webb and N. E. Brewerton. 2,318,727; May 11.
Ingredients for agricultural parasiticides. K. R. Brown. 2,318,920; May 11.
Inhibition, Corrosion. M. T. Goebel and L. F. Walker. 2,318,606; May 11.
Insulator. G. W. Neely. 2,319,152; May 11.
Insole and treatment thereof, Flexible. C. H. Daniels. 2,318,926; May 11.
Inspecting device. H. W. Hoffman. 2,318,856; May 11.
Instrument mounting device. P. J. Ries. 2,318,633; May 11.
Insulating. G. B. Brown. 2,318,744; May 11.
Internal combustion engine. J. W. Anderson and W. M. Nichols. 2,318,914–15; May 11.
Internal combustion engine. R. Miller, R. L. Jansen and J. W. Anderson. 2,318,954; May 11.
Internal combustion engine, Multiple firing X type four cycle. A. G. Davis. 2,318,599; May 11.
Invoice container. A. J. Hopkins. 2,318,997; May 11.
Isocyanates, Preparation of long chain organic. W. E. Hanford. 2,319,057; May 11.
Jaw element for the positive carbons of arc lamps, Contact. M. Mokin. 2,319,151; May 11.
Jet propulsion engine. G. R. Micuta. 2,319,149; May 11.
Joint: *See*—
Constant velocity joint. Universal joint.
Joint apparatus for paving and the like, Load transfer. A. C. Fischer and H. A. Cumfer. 2,319,050; May 11.
Joint connection for liquid loading conduit systems, Swing. H. C. Krone and W. Meyer. 2,319,068; May 11.
Joints, Testing weld. W. A. Bruce. 2,318,667; May 11.
Key for cylinder locks. H. G. Ramsell and J. W. Taylor. 2,318,887; May 11.
Keying system, Electric organ. A. R. Rienstra. 2,319,087; May 11.
Knife blade grinding machine. H. T. Nicholas. 2,318,883; May 11.
Ladder. M. C. Holmes. 2,318,943; May 11.
Lamp and stem therefor, Discharge. C. Wiener 2,318,653; May 11.

Lamp stems, Making. C. Wiener. 2,318,652; May 11.
Lapel. D. Zimmerman. 2,318,829; May 11.
Latch: *See*—
Folding table latch.
Latex articles, Deposited. R. O. Alexander. 2,318,657; May 11.
Lead connector. C. Wantz. 2,318,822; May 11.
Leather cloth and similar coated fabrics, Manufacture of. J. H. McGill. 2,319,074; May 11.
Light control mechanism. A. L. Mayer and H. R. Kossman. 2,318,616; May 11.
Lighting apparatus, Gaseous discharge. E. G. Lodge. 2,319,144; May 11.
Lining sanitary waste pail. C. L. Martin. 2,318,952; May 11.
Liquefaction of chlorine. D. R. Means. 2,318,876; May 11.
Liquid dispensing device. M. C. Schwab. 2,318,637; May 11.
Liquor, Treatment of waste. C. J. Brockman. 2,318,919; May 11.
Load transfer joint apparatus. A. C. Fischer. 2,319,049; May 11.
Loading and unloading mechanism for trucks. J. Paiement. 2,318,886; May 11.
Lock: *See*—
Door lock. Thread lock.
Lock. N. A. Welch. 2,318,908; May 11.
Locking adjustment. C. J. Stuart. 2,318,815; May 11.
Loom: *See*—
Automatic loom.
Loose-leaf binder. H. J. Henderson. 2,318,941; May 11.
Lubricating composition. C. F. Prutton. 2,318,629–30; May 11.
Lubricating device for bread slicers. A. A. Kottmann and F. Rohling. 2,319,140; May 11.
Luminaire. T. W. Rolph. 2,318,715–16; May 11.
Lure, Fish. C. Wood. 2,319,096; May 11.
Lure, Fishing. L. D. Adam. 2,319,026; May 11.
Machine for inlaying. M. G. Sypher. 2,318,977; May 11.
Machine for operating on the side edges of sheet metal stock. C. M. Yoder. 2,318,732; May 11.
Magnetic permeability indicator. W. A. Bruce 2,318,666; May 11.
Magnetic permeability indicator. B. W. Sewell. 2,318,720; May 11.
Mandrel, Hydrostatic. C. M. Conradson. 2,318,838; May 11.
Manifolding packet. F. B. Smith. 2,318,892; May 11.
Manifolding register and method. W. G. Borchers. 2,319,184; May 11.
Marine foundation, Portable. H. E. Gross. 2,318,685; May 11.
Marking composition. W. K. Schneider and G. W. Seagren. 2,318,803; May 11.
Masonry drill. R. H. Quillin. 2,318,631; May 11.
Match packet. A. F. Hodges. 2,318,942; May 11.
Materials for use in tumbling barrel polishing and finishing and producing same. W. G. Balz and L. R. Davidson. 2,318,581; May 11.
Materials, Forming particles of thermoplastic. F. R. Conklin. 2,319,040; May 11.
Matrix drying and forming machine. C. C. Baker. 2,319,030–1; May 11.
Mattress protector. I. Mink. 2,319,150; May 11.
Measuring and dispensing device for packaged material. E. J. Spilo. 2,318,812; May 11.
Measuring device. F. G. Boucher. 2,318,665; May 11.
Measuring device. L. M. McCormick. 2,319,148; May 11.
Meat-slitting machine. J. P. Spang. 2,318,897; May 11.
Merchandise display. H. F. Goldsmith. 2,318,774; May 11.
Meter: *See*—
Horsepower meter.
Method and apparatus for making fibrous mineral material. B. Wallrath and L. Basinski. 2,318,821; May 11.
Method and material for polishing metal articles. W. G. Balz and L. R. Davidson. 2,318,580; May 11.
Micrometer stop. L. B. Huthsing. 2,318,691; May 11.
Microscope. G. S. MacDonald. 2,318,871; May 11.
Military tank. F. S. Wrona. 2,319,178; May 11.
Milk product. J. D. Ingle. 2,319,186; May 11.
Mill: *See*—
Pulverizing mill.
Mitten. C. D. Kopplin. 2,318,785; May 11.
Model balancer. B. Castiglia. 2,319,037; May 11.
Molded article. E. Van der Pyl. 2,319,182; May 11.
Molding. C. V. Smith. 2,319,014; May 11.
Mop. H. L. Sweitz. 2,318,902; May 11.
Mote remover, Pneumatic. A. C. Blaylock. 2,318,727; May 11.
Motor: *See*—
Electric motor.
Motor drive for toggle links. G. F. Strong. 2,318,814; May 11.
Mount, Lens. C. F. Nowack and C. M. Lee. 2,319,083; May 11.
Mounting: *See*—
Drill mounting. Fixture mounting.
Mower. R. D. Clemson. 2,319,038; May 11.
Mulling apparatus. W. F. Piper. 2,318,797; May 11.
Needle, Pointed bearded knitting machine. R. C. Amidon. 2,318,586; May 11.
Nitroguanidine. K. D. Ashley. 2,318,577; May 11.
Nozzle cleaning tool. W. R. Linden. 2,318,696; May 11.
Nozzle, Liquid dispensing. F. B. Eilers and F. J. Graef. 2,318,933; May 11.
Nozzle, Spray. J. O. Lewis. 2,318,951; May 11.
Nozzles, Making. H. G. Freeman and F. Hencinski. 2,318,769; May 11.
Nut separating machine. Le R. L. Stevens. 2,318,976; May 11.
Nut, Sheet metal. B. A. Parr. 2,318,708; May 11.
Oil composition and improving agent therefor, Mineral. O. M. Reiff. 2,319,189; May 11.
Oil composition, Mineral. O. M. Reiff. 2,319,190; May 11.
Oils, Polymerizing olefins to lubricating. H. G. Schneider and L. A. Bannon. 2,318,719; May 11.
Oils, Production of lubricating. M. Pier and F. Christmann. 2,318,625; May 11.
Oils, Refining hydrocarbon. C. W. Berger. 2,318,582; May 11.
Open hole tool joint protector. DeM. G. Miller. 2,318,678; May 11.
Operating and control system for hydraulic elevators. A. W. Grote. 2,319,125; May 11.
Optical instrument. G. Fassin. 2,318,844; May 11.
Optical objective. A. Warmisham and C. G. Wynee. 2,319,171; May 11.
Oscillator, Multifrequency. R. C. Fisher. 2,318,936; May 11.
Oscillator with stationed handle control, Fan. R. H. Jordan. 2,319,064; May 11.
Outfit for shipping liquid and dipping articles therein. C. F. Eaton. 2,318,842; May 11.
Packing. G. Christenson. 2,318,757; May 11.
Pad: *See*—
Shoe pressure pad.
Paint brush and paint holders, Combination. H. J. Dietrich. 2,318,930; May 11.
Paper and making same. L. L. Dodge. 2,319,116; May 11.
Paper holding and dispensing receptacle. H. B. Mason. 2,319,071; May 11.
Papermaking machine, Cross current cylinder type. L. Hornbostel. 2,319,133; May 11.
Parachute. G. G. Coleman. 2,318,674; May 11.
Parachute harness and pack. G. G. Coleman. 2,318,673; May 11.
Partition block. C. L. Sanford. 2,318,889; May 11.
Perchloromethyl mercaptan reaction product. D. Baderstscher, H. G. Berger, and F. M. Seger. 2,319,183; May 11.
Phase modulation. J. Evans. 2,318,934; May 11.
Phonograph. S. Yerkovich. 2,318,828; May 11.
Phonograph, Automatic. B. F. Wissner. 2,318,654; May 11.
Photoflash synchronizing apparatus. W. A. Riddell. 2,319,086; May 11.
Photographic images, Production of colored. A. G. Tull. 2,318,818; May 11.
Photographic printing material. E. P. Davey and E. B. Knott. 2,318,597; May 11.
Photomechanical process. A. Murray and J. A. C. Yule. 2,319,079; May 11.
Pipe: *See*—
Smoking pipe.
Pipe clamp. S. M. Kass. 2,318,946; May 11.
Pipe coupling. G. E. and R. Q. Armington. 2,318,575; May 11.
Piston ring. V. F. Zahodiakin. 2,319,007–8; May 11.
Piston ring honing method. K. W. Connor. 2,318,837; May 11.
Piston skirt expander. C. A. and M. W. Marien. 2,319,006; May 11.
Planetarium. W. Park. 2,318,961; May 11.
Plant treatment composition. G. S. Avery, Jr. 2,318,733; May 11.
Plastic product and process. C. Snyder. 2,319,164; May 11.
Plug: *See*—
Sparking plug.
Plush and making the same. J. H. McElhaney. 2,319,073; May 11.
Pocket sewing machine. H. B. Hathaway. 2,318,686; May 11.
Polishing material for tumbling barrels, Preparing. W. B. Balz and L. R. Davidson. 2,318,578; May 11.
Portable sheet metal cutting tool. G. C. Wilhide. 2,318,982; May 11.
Post, Bumping. S. W. Hayes. 2,318,940; May 11.
Pot, Assembled transplanting. E. R. Neeper. 2,319,081; May 11.
Power tool machine. O. Moore. 2,318,956; May 11.
Power transmission. M. A. Hayden. 2,318,855; May 11.
Power transmission. R. C. Griffith. 2,318,852; May 11.
Power transmission. R. S. Miller. 2,318,879; May 11.
Preserving latex and products thereof. W. D. Stewart. 2,318,813; May 11.
Press: *See*—
Blocking press.
Multiple spindle drill press.
Pressure operated device, Resilient diaphragm. F. W. Meredith. 2,319,011; May 11.
Pressure pump. J. Jorgensen. 2,318,782; May 11.

Products rich in unsaturated hydrocarbons, Production of. M. Pier and E. Donath. 2,318,626; May 11.
Projector, Sound motion picture. F. O. Calvin, W. G. Wilson, and T. R. Smith. 2,319,111; May 11.
Propeller transfer bearing. W. S. Hoover. 2,318,929; May 11.
Protector: *See*—
Mattress protector. Sectional thread protector.
Open hole tool joint protector.
Protector for automobiles, Pneumatic. C. B. Strauch. 2,318,901; May 11.
Provitamin A extraction process. L. O. Buxton. 2,318,747; May 11.
Puller: *See*—
Cylinder line puller.
Pulverizing mill. W. M. Sheldon. 2,319,192; May 11.
Pump: *See*—
Centrifugal pump. Pressure pump.
Punch. C. V. St. Louis. 2,318,900; May 11.
Purification of partially oxidized styrene by treating with sodium bisulphite. E. C. Britton and W. J. Le Fevre. 2,318,742; May 11.
Quilting frame. J. J. Meyer and F. A. Jones. 2,318,877; May 11.
Rack for motor vehicles, Ski. C. C. Roumage and A. K. Biodjer. 2,318,971; May 11.
Racket, Tennis. A. D. Andreef. 2,318,916; May 11.
Radiator system for refrigerator installations, Condensing. P. A. Sidell. 2,318,891; May 11.
Rail bond. H. H. Febrey. 2,318,604; May 11.
Railway car. O. Jabelmann. 2,318,863; May 11.
Raincoat. T. F. Plant. 2,319,085; May 11.
Ram construction for blowout preventers. G. E. Nevill and A. L. Leman. 2,318,882; May 11.
Razor, Magazine. S. C. Stampleman and J. Muros. 2,318,974; May 11.
Reaction of hydrocarbon sulphonyl halides with alcohols. A. L. Fox. 2,319,121; May 11.
Receptacle: *See*—
Flexible pocket receptacle.
Paper holding and dispensing receptacle.
Receptacle. S. and M. Myerson and I. W. Evans. 2,318,618; May 11.
Record assembly, Continuous. G. E. Sornberger. 2,319,165; May 11.
Reel: *See*—
Collapsible reel.
Refrigerating apparatus. J. R. Hornaday. 2,318,858; May 11.
Refrigerating apparatus. H. F. Smith. 2,318,893; May 11.
Refrigerating system. W. O. Lum. 2,319,005; May 11.
Refrigeration. W. L. O'Brien. 2,318,621; May 11.
Refrigerator cabinet. L. W. Atchison. 2,318,984; May 11.
Refrigerator cabinet. R. A. King. 2,319,001; May 11.
Regulator: *See*—
Fluid pressure regulator. Window regulator.
Release for folding cameras, Shutter. J. K. Polhemus. 2,319,157; May 11.
Relief valve. F. H. Van Nest. 2,319,021; May 11.
Resin compositions, Preparing phenolic. H. H. Lebach. 2,319,142; May 11.
Respirator. G. E. Martindale and O. W. Scharping. 2,318,790; May 11.
Resin, Making an oil modified alkyd. W. A. Waldie. 2,319,022; May 11.
Retractile articles, Making. R. Picard and R. Fays. 2,318,796; May 11.
Retriever. F. N. Osman. 2,318,885; May 11.
Ribbon mechanism, Two-color. C. W. Burcky. 2,319,036; May 11.
Ring: *See*—
Piston ring.
Rock drill. J. C. Curtis. 2,318,594; May 11.
Rock drill. J. C. Curtis and E. G. Gartin. 2,318,760; May 11.
Rotary conveyer. E. McCarthy. 2,319,007; May 11.
Rubber compounding. T. A. Bulifant. 2,318,745; May 11.
Rubber, Compounding. T. A. Bulifant. 2,318,746; May 11.
Rubber, Method of shredding. W. J. Joyce and H. D. Geyer. 2,318,693; May 11.
Sacking and measuring device. C. C. Thomas. 2,318,725; May 11.
Safety device. K. R. Olofson. 2,319,084; May 11.
Safety shutoff valve. R. K. Engholdt. 2,318,767; May 11.
Sanitary apparatus. R. F. Bracke. 2,319,034; May 11.
Saw. J. B. Wright. 2,319,176; May 11.
Scleroscope, Automatic. C. M. Hathaway. 2,318,993; May 11.
Scraping tool. A. W. Abrahamsen. 2,318,585; May 11.
Screen: *See*—
Frameless insect screen.
Seal, Oil. T. O. Kosatka. 2,319,067; May 11.
Seat: *See*—
Vehicle seat.
Sectional thread protector. M. E. Goldberg and R. F. Haughey. 2,319,124; May 11.
Self-closing valve. H. C. Krone and W. Meyer. 2,319,069; May 11.
Self-locking box. M. Ullman. 2,319,018; May 11.
Sewing machine cover plate. A. B. Clayton. 2,318,836; May 11.
Sheet and signature handling mechanism. J. E. Meyer. 2,318,953; May 11.
Sheet, Image. F. Kroner. 2,318,949; May 11.
Shielded amplifier reversing switch. R. C. Curtis. 2,318,761; May 11.
Shipping container. F. Ditchfield. 2,318,763; May 11.
Shock absorber for knee action or the like, Friction type. B. L. Mallory. 2,318,873; May 11.
Shoe and making same. O. Fern. 2,318,846; May 11.
Shoe pressure pad. D. Levy and D. Friedman. 2,319,143; May 11.
Shoe sole treating machines, Feeding means for. W. L. McKenzie. 2,318,697; May 11.
Shoe upper flanging machine. W. T. Minett. 2,318,703; May 11.
Shoe uppers, Shaping. P. H. Dixon. 2,318,678; May 11.
Shut-off and control device, Safety. C. Wantz. 2,318,823; May 11.
Shutter laundry, Multislat. F. A. O'Kelley. 2,318,884; May 11.
Signal: *See*—
Automatic railroad crossing signal.
Signal for motor vehicles, Traffic. S. B. Humphrey. 2,318,690; May 11.
Signaling mechanism, Coin controlled time operated. C. H. Martin. 2,318,615; May 11.
Slide carrier. D. L. Babcock and T. G. Clement. 2,319,029; May 11.
Slide, Drawer. M. H. Rakow. 2,318,800; May 11.
Slip. S. Friedman. 2,318,771; May 11.
Slitter. F. J. Wood. 2,318,731; May 11.
Smoking pipe. L. R. Sibert. 2,318,639; May 11.
Snap action switch. A. E. Baak. 2,318,734; May 11.
Snap-on attachment cap. W. H. Rose. 2,318,717; May 11.
Soap holder. A. M. Andrews. 2,319,104; May 11.
Socket, Electrical. M. Alden. 2,318,912; May 11.
Socket, Electrical. A. W. Kimbell. 2,318,868; May 11.
Socket, Swivel. C. S. Crickmer. 2,318,839; May 11.
Solenoid switch. E. M. Claytor and J. E. Antonidis. 2,318,672; May 11.
Sound recording and reproducing. B. A. Proctor. 2,318,627; May 11.
Sound translating machine. B. A. Proctor. 2,318,628; May 11.
Spacing device for frictionally opposed bodies. J. W. Watson and K. W. Hildenbrand. 2,319,172; May 11.
Sparking plug. C. M. Carington. 2,318,922; May 11.
Speed responsive device. H. L. Bone. 2,318,740; May 11.
Spider and slip construction. J. S. Taylor. 2,319,016; May 11.
Spindle reciprocating mechanism. R. E. Price and H. E. Balsiger. 2,318,799; May 11.
Splint, Medical wood. T. E. Jackson. 2,318,864; May 11.
Spout, Box opener and pouring. N. C. Stilwell. 2,318,899; May 11.
Spring fastener. O. E. Simmonds. 2,318,640; May 11.
Stand for scooters, Supporting. R. A. Klatt and O. W. Schingeck. 2,319,066; May 11.
Stemmer, Grape. F. C. Silva. 2,318,805; May 11.
Stereophotography. D. F. Winnek. 2,318,983; May 11.
Storage tank, Automatic hydraulic-gasoline. C. A. Ellis. 2,318,766; May 11.
Strawberry runner cutter. H. A. Congdon. 2,318,675; May 11.
Strip, Non-fraying fabric. R. Van Court. 2,319,019; May 11.
Support: *See*—
Adjustable instrument support.
Support. J. C. Curtis. 2,318,593; May 11.
Suspension device. R. Iredell and H. T. Kraft. 2,318,862; May 11.
Suspension unit. S. S. Bernstein. 2,318,583; May 11.
Switch: *See*—
Electric switch. Snap action switch.
Fuse cutout and disconnect switch. Solenoid switch.
Shielded amplifier reversing switch. Temperature responsive electric switch.
Switch for automotive vehicles, Automatic safety. C. Dearbaugh. 2,318,989; May 11.
System, in particular to internal combustion engine, including compressors. L. Birkigt. 2,318,834; May 11.
Take-off, Current. J. E. Huguelet. 2,318,861; May 11.
Tank: *See*—
Flush tank. Military tank.
Fuel tank.
Tape severing mechanism. H. G. Allen. 2,319,103; May 11.

Tee's from metal tubing, Manufacture of. C. A. Nicholas and G. L. Weiser. 2,318,707; May 11.
Telemetric system. J. E. White. 2,318,646; May 11.
Telephone set. F. Fairley. 2,318,681; May 11.
Temperature responsive electric switch. I. E. McCabe. 2,318,699; May 11.
Terminal, Distributing. J. W. Channell. 2,318,755; May 11.
Testing apparatus. H. T. Clark. 2,318,923; May 11.
Therapeutic appliance. C. E. Sanders. 2,318,888; May 11.
Thermoresponsive device. H. C. Grant, Jr. 2,318,607; May 11.
Thread lock. A. Boynton. 2,318,590; May 11.
Thread-severing device for sewing machines. J. P. Enos. 2,318,843; May 11.
Threshing machine. R. T. Beckmann. 2,318,661; May 11.
Tire remover. P. F. Passanante and F. Santagata. 2,319,155; May 11.
Tire repairing apparatus. N. G. Hovlid. 2,318,779; May 11.
Tobacco feed for cigarette machines. C. Arelt. 2,318,588; May 11.
Tool: *See*—
Nozzle cleaning tool. Scraping tool.
Portable sheet metal cutting tool. Universal machine tool.
Valve keeper tool.
Toothbrush, Fountain. F. Salinger. 2,318,635; May 11.
Toy structural elements, Making. J. E. Grant. 2,318,849; May 11.
Track for self-laying track vehicles. H. Gray. 2,318,992; May 11.
Traction device. C. P. Galanot and J. A. Watson, Jr. 2,318,683; May 11.
Traction device for automobiles. A. B. Austin. 2,318,918; May 11.
Trailer vehicle. F. M. Reid. 2,318,802; May 11.
Training device for aviators. J. E. Crowell. 2,319,115; May 11.
Transmission for machine tools, Power. R. C. Griffith. 2,318,851; May 11.
Trap: *See*—
Fly trap.
Tray and token holder combination, Ash. F. L. Weiss. 2,319,173; May 11.
Tray, Seed germinating. L. V. Phelan. 2,318,711; May 11.
Truck body. G. W. Parker, Jr. 2,318,794; May 11.
Truck, Carriage. C. V. McCormack. 2,319,008; May 11.
Truck, Power driven. H. A. Wagner. 2,318,726; May 11.
Truss. F. B. Lane. 2,318,613; May 11.
Tumbling material for polish finishing metal articles and method. W. G. Balz and L. R. Davidson. 2,318,579; May 11.
Turbine or compressor, Radial flow elastic fluid. J. H. Doran. 2,318,990; May 11.
Turbine plant, Gas. W. Traupel. 2,318,905; May 11.
Umbrella. A. Farkas and W. Farkas. 2,319,118; May 11.
Uncoupling means for the cars of toy trains. B. Bowen and R. L. Houghton. 2,318,741; May 11.
Undergarment. A. R. Kneibler. 2,319,138; May 11.
Universal joint. E. S. Aker. 2,319,027; May 11.
Universal machine tool. F. W. Hack. 2,318,938; May 11.
Upholstery. J. R. Millar. 2,318,702; May 11.
Vacuum tube amplifying apparatus. C. H. Bidwell and P. V. Koos. 2,318,662; May 11.
Valve: *See*—
Relief valve. Self-closing valve.
Safety shutoff valve.
Valve. H. W. Goetz. 2,318,773; May 11.
Valve. C. H. Scott. 2,318,638; May 11.
Valve. W. P. Yant. 2,318,827; May 11.
Valve assembly. A. L. Parker. 2,318,962–4; May 11.
Valve coupling. L. G. Speth. 2,319,015; May 11.
Valve keeper tool. A. B. June. 2,318,866; May 11.
Valve seat grinding means, Portable. E. A. Hall. 2,318,854; May 11.
Valved coupling. A. L. Parker and J. N. Wolfram. 2,318,965; May 11.
Vaporizer, Fuel. I. W. Wepplo. 2,318,824; May 11.
Vehicle: *See*—
Trailer vehicle.
Vehicle body, Motor. F. W. Kramer. 2,319,002; May 11.
Vehicle seat. P. Carlson. 2,318,751; May 11.
Ventilating apparatus and method. J. L. Breese. 2,319,035; May 11.
Vitamin concentrates, Production of fat-soluble. L. O. Buxton and H. B. Colman. 2,318,749; May 11.
Voltage regulation and supply. E. A. Tubbs. 2,318,644; May 11.
Volume control for recorder amplifiers, Automatic. O. S. Petty and J. O. Parr, Jr. 2,318,624; May 11.
Vulcanizing running length of composite rubber strip and apparatus therefor. L. H. DeWyk, Jr. 2,319,042; May 11.
Wall and building structure. H. G. Pillsbury and E. B. Ingersoll. 2,318,966; May 11.
Wall structure. H. G. Pillsbury and E. B. Ingersoll. 2,318,967; May 11.
Wall unit. E. B. Ingersoll and L. E. Willett. 2,318,944; May 11.
Wallet with envelope, War bond credit ration. L. E. Delson. 2,318,677; May 11.
Washing apparatus, Vehicle. L. D. Holmes. 2,318,995–6; May 11.
Water distribution apparatus. R. Reynolds. 2,318,969; May 11.
Water heater. L. I. Aldrich. 2,318,913; May 11.
Watercraft. P. C. Lombardini. 2,318,789; May 11.
Wax composition, Stabilized. H. W. Stiegler and J. M. Hood. 2,318,898; May 11.
Wax, Method of oxidizing. D. E. Carr. 2,318,669; May 11.
Welding machine, Press. W. A. Weightman. 2,319,095; May 11.
Well surveying device. G. L. Kothny. 2,318,612; May 11.
Wheel and making the same, Buffing. H. R. Benbow. 2,318,986; May 11.
Wheel assembly and drive therefor, Furnishing. W. A. Ingalls. 2,318,998; May 11.
Window frame and outer sash. E. L. Cridge. 2,319,179; May 11.
Window regulator. J. H. Roethel. 2,319,088; May 11.
Wing construction. R. J. Woods. 2,318,909; May 11.
Wire, Producing. W. E. Leonard. 2,318,614; May 11.
Work positioner. G. C. Mueller. 2,318,791; May 11.
Wrapping and winding machine. T. J. Boles. 2,318,739; May 11.
X-ray machine, moving device. M. A. Mikesh. 2,318,701; May 11.
Yarns, Producing cellulose derivative crepe. J. G. Mcnally and D. R. Morey. 2,319,077; May 11.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

MAY 11, 1943

The applications listed below have been vested by the Alien Property Custodian, who has authorized their publication. Printed copies of these applications as filed may be obtained from the Commissioner of Patents, Washington, D. C., for ten cents each. In ordering copies of these applications they must be ordered by serial number, the serial number to be preceded by the letters "A.P.C.".

Copies of patents may be obtained from the Commissioner of Patents, Washington, D. C., for ten cents each. Patents should be ordered by the patent number.

CLASS 103

A.P.C. 239,352. Hydraulic power transmission unit. Erwin Sturm, Boll Bei Goppingen, Germany. Published May 11, 1943.

A.P.C. 249,805. Hydraulically operating transmitting devices of the piston type. Hans Molly, Berlin-Tempelhof, Germany. Published May 11, 1943.

A.P.C. 309,103. Air carburation system. Pier Giorgio Vanni, Milan, Italy. Published May 11, 1943.

A.P.C. 339,025. Diaphragm pumps for feeding fuel to explosion engines. Louis Guichard, Paris, France. Published May 11, 1943.

A.P.C. 341,835. Hydraulic continuous press for concrete and the like. Alberto Falasconi, Fermignano, Italy. Published May 11, 1943.

A.P.C. 344,512. Driving device for rotary piston machines. Paul Sobek, Vienna, Germany. Published May 11, 1943.

A.P.C. 352,146. Axial piston pump. Hans Molly, Berlin-Tempelhof, Germany. Published May 11, 1943.

A.P.C. 352,147. Pump, more particularly an axial piston pump with adjustable stroke. Hans Molly, Berlin-Tempelhof, Germany. Published May 11, 1943.

A.P.C. 356,697. Circulating pump for pasty masses especially for concrete. Fritz Hell, Kiel, Germany. Published May 11, 1943.

A.P.C. 358,109. Tappet guide, specially for plunger pumps. Heinz Links, Gaggenau/Baden, Germany. Published May 11, 1943.

A.P.C. 365,724. Pneumatic device for raising and conveying semi-solids. Georg Neidl, Berlin, Germany. Published May 11, 1943.

A.P.C. 390,902. Fuel injection pump for internal combustion engines. Helmut Muller et al., Cologne, Germany. Published May 11, 1943.

A.P.C. 417,719. Valve gear for piston engines or machines. Paul Reichsfeld, Vienna, Germany. Published May 11, 1943.

A.P.C. 420,409. Pump structure. Carl Schmitt, Leipzig, Germany. Published May 11, 1943.

A.P.C. 429,040. Gear pumps. Fritz Egersdorfer. Berlin, Germany. Published May 11, 1943.

A.P.C. 437,428. Piston and cylinder systems. Paul Decourtis, Paris, France. Published May 11, 1943.

CLASS 104

A.P.C. 348,896. Electromagnetic transport device. Andre Lucien Dauphin, Paris, France. Published May 11, 1943.

CLASS 105

A.P.C. 316,577. Vehicle moving on rails. Rudolf Fuchs, Brunn, Moravia. Published May 11, 1943.

A.P.C. 338,670. Gangway connection between two vehicles coupled to each other, particularly flexible gangway-bellows for railway carriages. Herbert Goy, Berlin-Tempelhof, Germany. Published May 11, 1943.

A.P.C. 368,540. Transmissions for motor vehicles. Karl Maybach, Friedrichshafen, Bodensee, Germany. Published May 11, 1943.

CLASS 106

A.P.C. 176,066. Method for converting colloidal masses into dried powdered form. Walter Tell, Berlin-Friedenau, Germany. Published May 11, 1943.

A.P.C. 191,000. Manufacture of artificial textile fibres. Antonio Ferretti, Milan, Italy. Published May 11, 1943.

A.P.C. 203,679. Material for structural parts, and parts made therefrom. Gustav Adolf Haseke, Bremen, Germany. Published May 11, 1943.

A.P.C. 240,418. Porous building element. Carl Fabritz, Konigsberg, Preussen, Germany. Published May 11, 1943.

A.P.C. 245,735. Bituminous composition. Robert Horn, Berlin, Germany. Published May 11, 1943.

A.P.C. 248,646. Cement and asbestos base mixtures used as plaster work covering layers or walls. Leon Joseph Bille, Nogent sur Marne, France. Published May 11, 1943.

A.P.C. 263,577. Artificial product imitating skins and leather and process for making same. Gaston Hubert Vulliet-Durand, Paris, France. Published May 11, 1943.

A.P.C. 264,072. Plaster-like materials for application to walls and like surfaces. Ludwig Ephraim et al., Grossbothen, Germany. Published May 11, 1943.

A.P.C. 269,236. Ceramic goods. Emil Klingler et al., Korntal Stuttgart-Feuerbach, Germany. Published May 11, 1943.

A.P.C. 283,225. Dental cement composition. Bruno Schmidl, Berlin, Germany. Published May 11, 1943.

A.P.C. 284,099. Glass compositions. Hans Steinbock, Dusseldorf-Gerresheim, Germany. Published May 11, 1943.

A.P.C. 301,323. Electrical insulating body. Werner Rath, Bad Klosterlausnitz, Germany. Published May 11, 1943.

A.P.C. 306,501. Manufacture of multicellular glass. Bernard Long, Paris, France. Published May 11, 1943.

A.P.C. 305,404. Process for sizing of fibrous materials. Rudolf Anton Hirsch, Vienna, Germany. Published May 11, 1943.

A.P.C. 332,850. Adhesives. Hendrik Willem Meijer, Veendam, Netherlands. Published May 11, 1943.

A.P.C. 333,593. Composite paint and the method of manufacturing the same. Albert Francois X. F. A. Claessens, Hove, Belgium. Published May 11, 1943.
A.P.C. 334,095. Friction material. Ernst Doetsch, Nurnberg, Germany. Published May 11, 1943.
A.P.C. 334,902. Mortar-like construction material. Hans Jaruschka, Vienna, Austria. Published May 11, 1943.
A.P.C. 340,837. Process of obtaining cold glue and castor oil from castor beans. Felix Grandel, Emmerich/Rhein, Germany. Published May 11, 1943.
A.P.C. 342,112. Highly refractory building material and method of making same. Kristoffer Johannes Stenvik, Oslo, Norway. Published May 11, 1943.
A.P.C. 345,372. Enamels. Werner Heimsoeth et al., Leverkusen-Wiesdorf, Germany. Published May 11, 1943.
A.P.C. 350,065. Process for the production of cadmium red. Johannes Loeffler, Berlin-Dahlem, Germany. Published May 11, 1943.
A.P.C. 351,640. Hydraulic cement. Walter Dyckerhoff et al., Mainz-Amoneburg, Germany. Published May 11, 1943.
A.P.C. 353,386. Cellulose solutions and a process of preparing such solutions. Otto Hecht et al., Ludwigshafen-on-the-Rhine, Germany. Published May 11, 1943.
A.P.C. 353,906. Bonded refractories and method of making same. Victor Moritz Goldschmidt, Semestad, Norway. Published May 11, 1943.
A.P.C. 356,564. Process for the manufacture of a linoleum-like product by employing substances extracted from tomato skins. Guido De Blasio et al., Narni, Italy. Published May 11, 1943.
A.P.C. 358,067. Sealing compounds. Felix Herriger, Berlin, Germany. Published May 11, 1943.
A.P.C. 358,184. Production of silver preparation. Max Kollmar, Frankfurt, Germany. Published May 11, 1943.
A.P.C. 360,204. Process for the production of masses and shaped pieces possessing high electric, chemical, mechanical and thermic strength. Herbert Witzenmann, Munich, Germany. Published May 11, 1943.
A.P.C. 362,656. Method of producing high fireproof materials. Otto Krause et al., Breslau, Germany. Published May 11, 1943.
A.P.C. 365,650. Road constructional materials. Heinrich Ulrich et al., Ludwigshafen-on-Rhine, Germany. Published May 11, 1943.
A.P.C. 369,351. Frost resistant microporous product. Gommaris Franciscus Hannot, Rotterdam. Netherlands. Published May 11, 1943.
A.P.C. 373,185. Carbohydrate solutions. Bruno Wendt, Dessau, Germany. Published May 11, 1943.
A.P.C. 373,797. Process for preparing ceramic masses. Fritz Ganeis, Wirges (Westerwald), Germany. Published May 11, 1943.
A.P.C. 375,680. Process for the production of lead and boron free glazes. Wilhelm Diether, Kelsterbach A. Main, Germany. Published May 11, 1943.
A.P.C. 380,605. Process of preparing cement powders and acid-proof mortars. Karl Dietz, Kronberg im Taunus, Germany. Published May 11, 1943.
A.P.C. 380,632. Manufacture of improved fibrous materials and the materials thus obtained. Ludwig Orthner et al., Frankfurt-am-Main, Germany. Published May 11, 1943.
A.P.C. 381,856. Textile goods. Bruno Wendt, Dessau, Germany. Published May 11, 1943.
A.P.C. 382,101. Refractory products. Georges Passelecq et al., Paris, France. Published May 11, 1943.
A.P.C. 387,359. Method for the production of ceramic goods. Emil Klingler, Korntal, Germany. Published May 11, 1943.
A.P.C. 391,006. Latently hydraulic binder. Walter Dyckerhoff et al., Mainz-Amoneburg, Germany. Published May 11, 1943.
A.P.C. 395,364. Method for producing optical glasses. Edwin Berger et al., Jena, Germany. Published May 11, 1943.
A.P.C. 396,355. Process of consolidating or waterproofing mortar. Carl Letters, Koln-Braunsfeld, Germany. Published May 11, 1943.
A.P.C. 398,421. Binders for glass fiber threads. Hans Steinbock, Dusseldorf-Gerresheim, Germany. Published May 11, 1943.
A.P.C. 398,422. Binders for glass fiber threads. Hans Steinbock, Dusseldorf-Gerresheim, Germany. Published May 11, 1943.
A.P.C. 414,866. Methods eliminating the coloration of glass obtained by electric melting. Bernard Long, Paris, France. Published May 11, 1943.
A.P.C. 423,037. Decolorizing and refining agent for glass. Hans Kohl, Frankfurt-am-Main, Germany. Published May 11, 1943.
A.P.C. 436,541. Manufacture of molded products. Georges Passelecq, Paris, France. Published May 11, 1943.

CLASS 108

A.P.C. 407,663. Buildings. Paul C. Chelazzi, Shanghai, China. Published May 11, 1943.

CLASS 109

A.P.C. 286,688. Air raid and like shelters. Otokar Ployer, Prague, Czechoslovakia. Published May 11, 1943.

CLASS 110

A.P.C. 248,047. Furnaces and stoking installations therefor. Jacobus Nicolaas Van Rijswijk, The Hague, Holland. Published May 11, 1943.
A.P.C. 292,743. Method for operating dust fuelled furnaces. Hans Rohrbach, Bemerode, near Hannover, Germany. Published May 11, 1943.
A.P.C. 337,713. Methods for complete combustion of fuel in boilers and arrangements therefor. Kotaro Wakabayashi, Tokyo-shi, Japan. Published May 11, 1943.
A.P.C. 345,866. Electromotor-driven mechanical stokers. Jorgen Helge Jacobsen, Hellerup, Denmark. Published May 11, 1943.

CLASS 111

A.P.C. 254,631. Regulating roller for machines sowing in rows. Enrico De Visart, Pombia, Italy. Published May 11, 1943.

CLASS 112

A.P.C. 293,903. Machines for producing edge ornamentation for fabrics. Frederick Lutz, Stuttgart/Wuerttemberg, Germany. Published May 11, 1943.
A.P.C. 299,222. Automatic blank chain stitcher. Otto Mohn et al., Stuttgart-S., Germany. Published May 11, 1943.
A.P.C. 311,428. Apparatus for the automatic quilting of articles of material especially collars. Ernst Sommer, Berlin, Germany. Published May 11, 1943.
A.P.C. 331,044. Apparatus for moving tool means in an irregular path. Walter Hugo Dittrich, Burgstadt, Germany. Published May 11, 1943.
A.P.C. 333,312. Sewing machine and needle. Georges Bastard et al., Saint-Junien, France. Published May 11, 1943.
A.P.C. 333,562. Edge ornamentation for fabrics. Frederick Lutz, Stuttgart, Germany. Published May 11, 1943.

A.P.C. 374,084. Process of soaking all kinds of dried and salted hides and skins. Carl Riess, Ludwigshafen-on-the-Rhine, Germany. Published May 11, 1943.
A.P.C. 422,672. Sewing machine. Werner Kurt Rudolf Beyer, Dresden, Germany. Published May 11, 1943.

CLASS 113

A.P.C. 188,829. Vehicle bodies. Kurt Schafer, Berlin-Eichkamp, Germany. Published May 11, 1943.
A.P.C. 270,210. Electrical connection and method of making same. Gilles Holst et al., Eindhoven, Holland. Published May 11, 1943.
A.P.C. 276,257. Method of producing metallic coatings. Heinz Barwich, Berlin-Halensee, Germany. Published May 11, 1943.
A.P.C. 362,519½. Presses. Wilhelm Schmitt, Goppingen, Germany. Published May 11, 1943.
A.P.C. 366,470. Method and device for manufacturing diaphragms. Gunter Kammerling, Berlin-Charlottenburg, Germany. Published May 11, 1943.
A.P.C. 380,991. Getter pellet box. Walther Burstyn, Berlin, Germany. Published May 11, 1943.

CLASS 114

A.P.C. 132,695. Method and arrangements for varying the stability of a ship. Hermann Hort, Berlin-Charlottenburg, Germany. Published May 11, 1943.
A.P.C. 236,335. Floating breakwater. Alfredo Varni, Pallanza (Novara), Italy. Published May 11, 1943.
A.P.C. 268,421. Self stabilizing boats or other floating bodies. Oskar Tietjens, Berlin-Schmockwitz, Germany. Published May 11, 1943.
A.P.C. 361,463. Device for varying the stability of marine craft. Carl Von Den Steinen, Hamburg, Germany. Published May 11, 1943.
A.P.C. 369,630. Anti-oscillation suspension for beds and the like. Laszlo Sebestyen, Budapest, Hungary. Published May 11, 1943.
A.P.C. 383,215. Ship form. Ernst Klindwort, Hamburg-Blankensee, Germany. Published May 11, 1943.
A.P.C. 386,560. Smoke producing means. Celestin Leon Herbline, Paris, France. Published May 11, 1943.
A.P.C. 393,434. Life-saving and exploring device for submerged submarine vessels. Francesco Lamberti, Genoa, Italy. Published May 11, 1943.

CLASS 115

A.P.C. 433,077. Boat. Kalman Farkas, Budapest, Hungary. Published May 11, 1943.

CLASS 116

A.P.C. 285,861. Devices for the release of a warning signal by one vehicle to another. Joseph Schwarz, Berlin, Germany. Published May 11, 1943.
A.P.C. 363,141. Photographic cameras. Rudolf Reuss, Dresden, Germany. Published May 11, 1943.
A.P.C. 365,646. Echo sounding device. Peter Orlich et al., Kiel, Germany. Published May 11, 1943.

CLASS 117

A.P.C. 123,856. Adhesive layers and their production. Heinrich Prufer, Vienna, Austria. Published May 11, 1943.
A.P.C. 248,645. Process for varnishing supports mainly comprising rubber. Roger Girche, Paris, France. Published May 11, 1943.
A.P.C. 279,187. Method for surface-treatment of writing and drawing-pencils and other rod-shaped articles. Georg Loy, Nuremberg, Germany. Published May 11, 1943.
A.P.C. 281,738. Method for the providing a permanent layer on leather and the like. Ferdinand Moog et al., Francfort-on-the-Main, Germany. Published May 11, 1943.
A.P.C. 284,648. Condenser microphones. Erwin Gerlach, Berlin, Germany. Published May 11, 1943.
A.P.C. 285,951. Outer cover of rigid airships and method of manufacturing the same. Erich Hilligardt, Friedrichshafen, Bodensee, Germany. Published May 11, 1943.
A.P.C. 292,505. Process for the impregnation of all kinds of woods. Karl Wolman, Berlin-Grunewald, Germany. Published May 11, 1943.
A.P.C. 308,380. Method of changing the physical and chemical properties of the surface of objects of silicious material. Edwin Berger et al., Jena, Germany. Published May 11, 1943.
A.P.C. 310,581. Method for increasing the durability of polished surfaces of optical elements. Alexander Smakula, Jena, Germany. Published May 11, 1943.
A.P.C. 312,254. Processes for the supply of moisture to products of fibrous substances with a bituminous coating. Erik Franck Philipson, Copenhagen, Denmark. Published May 11, 1943.
A.P.C. 313,985. Method for producing metallized dielectric sheets. Hermann Strab, Stuttgart, Germany. Published May 11, 1943.
A.P.C. 318,782. Pliable envelope or balloon bag for inflammable gases. Rene Leboime, Paris, France. Published May 11, 1943.
A.P.C. 326,537. Production of soft rubber-like tubes, plates, rods, etc., out of polyvinyl chlorides. Josef Vonbank, Burghausen, upper Bavaria, Germany. Published May 11, 1943.
A.P.C. 327,474. Sound and heat insulation. Hugo Stossel, Berlin-Lichterfelde-West, Germany. Published May 11, 1943.
A.P.C. 333,249. Process for water-repelling impregnation of textiles, paper, skins, and leather. Adalbert Muller, Augsburg, Germany. Published May 11, 1943.
A.P.C. 337,664. Process of stiffening hats and the hats thus produced. Hermann Haakh et al., Bad Soden (Taunus), Germany. Published May 11, 1943.
A.P.C. 353,978. Method and device for producing wax ribbons for mechanical sound recording. Richard Ruhnau, Berlin-Tempelhof, Germany. Published May 11, 1943.
A.P.C. 354,393. Method of producing an article impregnated with synthetic resin. Nagao Hayami, Nishinomiya City, Japan. Published May 11, 1943.
A.P.C. 355,270. Production of metallized dielectric materials. Hermann Strab et al., Sillenbuch, Germany. Published May 11, 1943.
A.P.C. 361,011. Process of preparing coatings and the materials thus obtained. Walter Pense et al., Frankfurt-am-Main, Germany. Published May 11, 1943.
A.P.C. 367,225. Process for the production of protective layers on optically active surfaces. Gustav Joseph Weissenberg, Berlin-Mariendorf, Germany. Published May 11, 1943.
A.P.C. 368,502. Process for producing an aluminium-coated metal article in which magnesium forms the base metal. Eduard Nachtigall, Bitterfeld, Germany. Published May 11, 1943.
A.P.C. 373,037. Treatment of textile material. Fritz Drechsel, Kufstein/Tyrol, Germany. Published May 11, 1943.

A.P.C. 382,094. Metallic coating. Jean Loiseleur, Paris, France. Published May 11, 1943.

A.P.C. 382,660. Process for the production of shaped products and coatings, which are resistant to the influence of motor fuels, oils and solvents. Fritz Heinrich et al., Selters, Germany. Published May 11, 1943.

A.P.C. 392,524. Method of coating wax bands, bearing a mechanical sound record, with graphite, and a device for carrying out this method. Arno Woitscheck, Porz, near Koln, Germany. Published May 11, 1943.

A.P.C. 395,459. Manufacture of coated pipes. Heinrich Klas, Dusseldorf, Germany. Published May 11, 1943.

A.P.C. 397,138. Process of producing films, coatings and impregnations. Hans Fikentscher et al., Ludwigshafen-on-Rhine, Germany. Published May 11, 1943.

A.P.C. 415,485. Method of treating wood. Christian Julius Valdemar Andreasen, Frederikshavn, Denmark. Published May 11, 1943.

A.P.C. 421,394. Method of drying artificial sausage skins. Julius Wolff, Amstenrade, Holland. Published May 11, 1943.

A.P.C. 421,395. Method of and a device for the manufacture of artificial sausage skins. Julius Wolff, Amstenrade, Holland. Published May 11. 1943.

A.P.C. 421,396. Method of and an apparatus for producing artificial sausage skins. Julius Wolff, Amstenrade, Holland. Published May 11, 1943.

A.P.C. 421,399. Method of and an apparatus for drying and hardening impregnated artificial sausage skins. Julius Wolff, Amstenrade, Holland. Published May 11, 1943.

A.P.C. 433,206. Process for increasing the retention capacity of the sealing surface of artificial porcelain teeth. Paul Jean Jacques Gonon, Paris, France. Published May 11, 1943.

CLASS 120

A.P.C. 377,575. Fountain pen. Karoly Bodo, Budapest, Hungary. Published May 11, 1943.

A.P.C. 388,680. Multiple-mechanical pencil. Georg Meier, Nuremberg, Germany. Published May 11, 1943.

A.P.C. 421,061. Fountain pen. Theodor Kovacs, Wien, Germany. Published May 11, 1943.

A.P.C. 421,062. Fountain pen. Theodor Kovacs, Wien, Germany. Published May 11, 1943.

CLASS 121

A.P.C. 273,365. Indirectly operating regulating or controlling apparatus. Otto Lesser, Berlin-Charlottenburg, Germany. Published May 11, 1943.

A.P.C. 316,982. Driving means for kinematograph film apparatus. Gustav Fries, Berlin-Charlottenburg, Germany. Published May 11, 1943.

A.P.C. 326,461. Pneumatic tools, particularly such with reciprocating pistons, such as rock drills and coal pickers. Hubert Grobe, Wuppertal-Barmen, Germany. Published May 11, 1943.

A.P.C. 395,884. Casings for internal combustion engines. Eugen Stumpf, Friedrichshafen, Bodensee, Germany. Published May 11, 1943.

A.P.C. 400,816. Operating mechanism for clutches. Richard Lang et al., Ravensburg, Germany. Published May 11, 1943.

CLASS 122

A.P.C. 134,706. Steam power plant with heat accumulator. Paul Gilli, Vienna, Austria. Published May 11, 1943.

A.P.C. 226,820. High pressure steam boiler for indirectly generating steam. Otto Hartmann, Kassel-Wilhelmshohe, Germany. Published May 11, 1943.

A.P.C. 326,527. Regulating device for steam generators. Guido Wunsch, Berlin-Wannsee, Germany. Published May 11, 1943.

A.P.C. 326,790. Apparatus for transforming mechanical energy into heat. Alessandro Beldimano, Rome, Italy. Published May 11, 1943.

A.P.C. 338,719. Desuperheater for locomotive application. Andre Huet, Paris, France. Published May 11, 1943.

A.P.C. 349,853. High pressure steam generator. Walter Bredtschneider, Berlin-Charlottenburg, Germany. Published May 11, 1943.

A.P.C. 374,611. Low-pressure steam heatings for vehicles. Hans Appel, Prag, Germany. Published May 11, 1943.

A.P.C. 390,848. Process for preventing the formation of scale and/or for removing any scale formed in boilers. Iren Kovacs, Budapest, Hungary. Published May 11, 1943.

CLASS 123

A.P.C. 189,394. Cooling arrangement for internal combustion engines. Wilhelm Seyerle, Waldenbronn, near Esslingen-am-Neckar, Germany. Published May 11, 1943.

A.P.C. 237,472. Injection internal combustion engine especially for light fuels with timed spark ignition. Hans Scherenberg, Stuttgart, Germany. Published May 11, 1943.

A.P.C. 251,007. Diesel motor. Paul Wiebicke, Nurnberg, Germany. Published May 11, 1943.

A.P.C. 254,474. Four-cycle internal combustion engine. Hermann Oestrich, Berlin-Spandau, Germany. Published May 11, 1943.

A.P.C. 265,597. Governors. August Lichte, Dessau-Alten, Germany. Published May 11, 1943.

A.P.C. 271,462. Injection internal combustion engine with fuel injection into a combustion chamber. Kurt Thomas, Gaggenau, Germany. Published May 11, 1943.

A.P.C. 283,256. Drive mechanisms for attachment to air plane motors. Otto Mader et al., Dessau. Germany. Published May 11, 1943.

A.P.C. 288,942. Liquid pumps. Oskar Posch, Stuttgart-Bad-Cannstatt, Germany. Published May 11, 1943.

A.P.C. 288,979. Fuel admission system for internal combustion engines. Josef Biechl, Munich, Germany. Published May 11, 1943.

A.P.C. 288,980. Fuel metering devices for internal combustion engines. Josef Biechl, Munich, Germany. Published May 11, 1943.

A.P.C. 296,469. Air cooled radial engine. Erwin Schnetzer, Munich, Germany. Published May 11, 1943.

A.P.C. 296,630. Charge-coolers for radial engines. Theodor Helmbold et al., Munich, Germany. Published May 11, 1943.

A.P.C. 296,654. Air charge cooling device. Kurt Lohner et al., Munich, Germany. Published May 11, 1943.

A.P.C. 299,652. Gearing for aircrafts. Otto Nubling et al., Berlin-Frohnau, Germany. Published May 11, 1943.

A.P.C. 303,121. Motor with cylinders arranged in rows in V-fashion. Fritz Gosslau, Berlin-Charlottenburg, Germany. Published May 11, 1943.

A.P.C. 314,190. Fuel supply control apparatus for injection internal combustion engines. Max Hurst, Stuttgart, Germany. Published May 11, 1943.

A.P.C. 326,141. Controllable cowling for air-cooled internal combustion engines. Reinhard Ramshorn, Munich/Grafelfing, Germany. Published May 11, 1943.

A.P.C. 332,506. Internal combustion engine. Fritz Nallinger et al., Stuttgart, Germany. Published May 11, 1943.

A.P.C. 342,325. Aero-engine sparking plug with a solid insulator. Slobodan M. Dobrosavljevitch, Belgrade, Jugoslavia. Published May 11, 1943.

A.P.C. 348,726. Internal combustion engines. Max Hurst, Stuttgart, Germany. Published May 11, 1943.

A.P.C. 348,782. Liquid fuel injection system for multicylinder internal combustion engines. Willy Voit, Stuttgart, Germany. Published May 11, 1943.

A.P.C. 356,072. Process and apparatus for maintaining the velocity of flow of the gas in the supply of internal combustion engines with gas generators. Emil Schimanek, Budapest, Hungary. Published May 11, 1943.

A.P.C. 368,293. Internal combustion engines. Werner von Mallinckrodt, Stuttgart-Bad-Cannstatt, Germany. Published May 11, 1943.

A.P.C. 370,141. Percussive tools operated by an internal combustion engine. Josef Wohlmeyer, Berlin, Germany. Published May 11, 1943.

A.P.C. 371,803. Cylindrical rotary slide valve. Christian Wilhelm Paul Heylandt et al., Berlin-Britz, Germany. Published May 11, 1943.

A.P.C. 376,679. Device for obtaining automatically the proper fuel-air mixture under all conditions of operation of internal combustion engines fitted with electromagnetic injection. Ottavio Fuscaldo, Milan, Italy. Published May 11, 1943.

A.P.C. 378,640. Lubrication devices. Emile Loison et al., Paris, France. Published May 11, 1943.

A.P.C. 381,094. Method of operating free-piston internal combustion engines. Franz Neugebauer, Munich-Allach, Germany. Published May 11, 1943.

A.P.C. 383,510. Fuel injection type internal combustion engine having a whirl chamber. Anton Pischinger et al., Cologne-Deutz, Germany. Published May 11, 1943.

A.P.C. 398,831. Internal combustion engine. Hugo Ruppe, Berlin, Germany. Published May 11, 1943.

A.P.C. 412,524. Regenerating devices for the lubricating oil for motors and the like. Jean Andre Lautrette, Paris, France. Published May 11, 1943.

A.P.C. 418,665. Free piston motor compressor. Franz Neugebauer et al., Munich-Allach, Germany. Published May 11, 1943.

A.P.C. 421,060. Method and device for regulating the ratio of mixture of gases. Emil Schimanek, Budapest, Hungary. Published May 11, 1943.

A.P.C. 422,843. Injection means for internal combustion engines. Attilio Carlin, Trento-Pergine, Italy. Published May 11, 1943.

A.P.C. 428,778. Internal combustion engines with crosshead. Ove Petersen et al., Gentofte, (near Copenhagen), Denmark. Published May 11, 1943.

A.P.C. 450,937. Devices for starting aircraft engines. Charles Raymond Waseige, Rueil-Malmaison, Seine-et-Oise, France. Published May 11, 1943.

CLASS 125

A.P.C. 308,213. Metallic saw blade for sawing stone, marble plates and the like from stone blocks. Franco Bandini, Rome, Italy. Published May 11, 1943.

A.P.C. 316,697. Acting device for centrifugal force percussion apparata. Giosue Pinazza, Milan, Italy. Published May 11, 1943.

A.P.C. 384,197. Tool for cutting grooves. Ottmar Schilling, Griefenstein-on-the-Danube, Germany. Published May 11, 1943.

CLASS 126

A.P.C. 320,946. Heating apparatus for the heating of rooms. Guido Wunsch, Berlin, Germany. Published May 11, 1943.

A.P.C. 362,559½. Stand for cooking vessels. Margarete Hendel, Leipzig, Germany. Published May 11, 1943.

A.P.C. 442,130. Hearth for burning solid fuels leaving ashes having any melting point. Alexandre Adrianoff, Ixelles-Brussels, Belgium. Published May 11, 1943.

CLASS 127

A.P.C. 356,560. Method of manufacturing dry powdered sugar. Takeshi Hara, Taiwan, Japan. Published May 11, 1943.

A.P.C. 358,942. Bleaching process for fluids. Heinrich Schmidt, Niedercunnersdorf, Germany. Published May 11, 1943.

A.P.C. 359,575. Purification of sugar containing liquids. Pieter Smit, Zandvoort, Netherlands. Published May 11, 1943.

A.P.C. 415,634. Method for the concentration of crude sugar cane sap. Jacob Dienema, Semarang, Java, Netherlands East Indies. Published May 11, 1943.

A.P.C. 439,604. Method for saccharifying cellulosic materials by means of diluted mineral acids. Firmin Charles Boinot, Melle, France. Published May 11, 1943.

CLASS 128

A.P.C. 222,683. Hygienic bandage made of an absorbing material. Johannes Hildner, Freiburg in Breisgau, Germany. Published May 11, 1943.

A.P.C. 250,746. Method for retaining the radioactivity of all liquids intended for injections. Stefan Klinghoffer, Paris, France. Published May 11, 1943.

A.P.C. 270,551. Cannula holder. Yoshimitsu Kono, Hiroshima, Japan. Published May 11, 1943.

A.P.C. 281,413. Ice-bags and hot-water bottles. Luis S. Rebano, Tanauan, P. I. Published May 11, 1943.

A.P.C. 304,428. Method of, and apparatus for, sterilizing organic or synthetic materials, especially chirurgical sewing threads. Bernd Braun et al., Melsungen, Germany. Published May 11, 1943.

A.P.C. 320,074. Apparatus for the recording of slow processes. Laszlo Rosa et al., Budapest, Hungary. Published May 11, 1943.

A.P.C. 345,670. Appliances for mechanical cosmetic treatment. Herbert Gottlieb, Brno, Czechoslovakia. Published May 11, 1943.

A.P.C. 347,414. Apparatus for producing artificial respiration. Elettra Diena, nee Bruno, Turin, Italy. Published May 11, 1943.

A.P.C. 384,006. Breathing apparatus for respiration of high altitudes. Rodolfo Margaria, Milano, Italy. Published May 11, 1943.

A.P.C. 392,529. Cool wet dressing with bandages. Manfred Seng, Berlin, Germany. Published May 11, 1943.

A.P.C. 395,760. Treatment of tissue with therapeutically active rays. Erwin Schopper et al., Dessau, Germany. Published May 11, 1943.

A.P.C. 401,123. Bandage for women. Frederik Carsten Van Den Bergh, Nijmegen, Holland. Published May 11, 1943.

A.P.C. 405,261. Syringe for medical purposes. Franz Lautenschlager, Berlin-Nikolassee, Germany. Published May 11, 1943.

A.P.C. 437,449. High altitude flying suit. Maxime Jean Richou, Paris, France. Published May 11, 1943.

CLASS 129

A.P.C. 333,335. Device for filing documents. Raymond Arthur Eugene Guichard, Paris, France. Published May 11, 1943.

A.P.C. 358,039. Card filing compartments. Nicolaus Per Mathiesen, Drammen, Norway. Published May 11, 1943.
A.P.C. 414,965. Card index system. Otto Lampertz, Berlin, Germany. Published May 11, 1943.

CLASS 130

A.P.C. 419,560. Method and apparatus for cropping hops. Vladislav Sykora, Neusattel, Germany. Published May 11, 1943.

CLASS 131

A.P.C. 254,575. Cigarette rod making machine. Paul Johannes Herrmann, Dresden, Germany. Published May 11, 1943.
A.P.C. 261,049. Tobacco products and process of making same. Jules Martin Lande, The Hague, Holland. Published May 11, 1943.
A.P.C. 279,073. Tobacco spreader. Richard Erich Rossler, Dresden, Germany. Published May 11, 1943.
A.P.C. 304,214. Method of increasing the volume of organic substances, particularly vegetable substances. Joachim Bohme et al., Berlin-Schoneberg, Germany. Published May 11, 1943.

CLASS 132

A.P.C. 283,283. Heater for permanent waving. Jean Leclabart, Courbevoie, France. Published May 11, 1943.
A.P.C. 377,912. Devices for applying hair pins to curls or waves. Giovanni Rossi, Milan, Italy. Published May 11, 1943.
A.P.C. 424,071. Container for a razor with stropping device. Max Schmidt, Berlin-Wilmersdorf, Germany. Published May 11, 1943.

CLASS 133

A.P.C. 338,135. Coin counting device. Eugen Reis, Bruchsal, Baden, Germany. Published May 11, 1943.

CLASS 136

A.P.C. 17,398. Lead electric accumulators. Lucien Jules Jumau, Paris, France. Published May 11, 1943.
A.P.C. 282,296. Dry cell. Erich Marhenkel, Berlin-Sudende, Germany. Published May 11, 1943.
A.P.C. 355,709. Electric storage batteries. Friedrich Schneider, Hagen, Germany. Published May 11, 1943.
A.P.C. 363,506. Process for increasing the efficiency of storage batteries. Richard Beck, Mainz, Germany. Published May 11, 1943.
A.P.C. 385,561. Electric cells. Jozsef Szabo, Szombathely, Hungary. Published May 11, 1943.
A.P.C. 394,417. Production of galvanic dry cells. Erich Marhenkee, Berlin-Tegel, Germany. Published May 11, 1943.

CLASS 137

A.P.C. 243,016. Gas analyser and gas analysis apparatus. Victor Bayerl, Berlin, Germany. Published May 11, 1943.
A.P.C. 266,692. Fluid handling mechanism. Jacques Muller, La Garenne-Colombes, France. Published May 11, 1943.
A.P.C. 302,585. Dosing arrangements. Michiel Johannes Stoel Feuerstein, The Hague, Netherlands. Published May 11, 1943.
A.P.C. 318,940. Automatic pump for fuel injection actuated by the compression of gas in the cylinder of an internal combustion engine. Oleg Archaouloff, Paris, France. Published May 11, 1943.
A.P.C. 357,688. Refrigerating apparatus of the compression type. Rudolf Hintze et al., Berlin-Charlottenburg, Germany. Published May 11, 1943.
A.P.C. 362,699. Devices responsive to the rate of flow through a conduit. Guido Wunsch, Berlin-Wannsee, Germany. Published May 11, 1943.
A.P.C. 376,678. Electro-magnetic control for injectors of internal combustion engines. Ottavio Fuscaldo, Milan, Italy. Published May 11, 1943.
A.P.C. 404,526. Device for maintaining constant pressure in conduits or reservoirs filled with liquids or gases. Rudolf Kleeberger, Munich, Germany. Published May 11, 1943.

CLASS 138

A.P.C. 278,373. Pipe line systems. Dan Meyer, London, England. Published May 11, 1943.
A.P.C. 286,803. Methods of insulating metal surfaces. John Langbein, Hamburg, Germany. Published May 11, 1943.
A.P.C. 293,095. Equalization device. Henri Thaon, Saint Cloud, France. Published May 11, 1943.
A.P.C. 340,187. Laminated tubes. Matthaus Braun, Frankfurt-am-Main, Germany. Published May 11, 1943.
A.P.C. 368,646. Assembly arrangements for power transmission in aircraft. Paul Rohr, et al., Dessau, Germany. Published May 11, 1943.
A.P.C. 397,372. Distributor for fluids. Hans Klein et al., Mannheim, Germany. Published May 11, 1943.

CLASS 139

A.P.C. 310,552. Process for the manufacture of sieve nettings. Emil Hubert et al., Dessau-Ziebigk, Germany. Published May 11, 1943.
A.P.C. 338,620. Change-over device for circular weaving looms. Henri Pelce, Flixecourt, France. Published May 11, 1943.
A.P.C. 415,025. Weaver's shuttle. Rudolf Schmidt, Passeck A/Iser, Germany. Published May 11, 1943.

CLASS 140

A.P.C. 400,274. Machine for making helically wound barrel-shaped springs. Hendrikus Knoop, Utrecht, Netherlands. Published May 11, 1943.
A.P.C. 445,791. Process of forming spring fillers for furniture and the like. Hugo Buttner, Wuppertal-Vohwinkel, Germany. Published May 11, 1943.
A.P.C. 445,792. Method and device for manufacturing spring-nets for mattresses, seat-cushions and the like. Hugo Buttner, Wuppertal-Vohwinkel, Germany. Published May 11, 1943.

CLASS 141

A.P.C. 241,833. Dishwashing machines, primarily for household use. Jorgen Hertz, Copenhagen, Denmark. Published May 11, 1943.

CLASS 143

A.P.C. 287,832. Motor-driven chain saws. Fritz Seibel, Essen-Ruhr, Germany. Published May 11 1943.

CLASS 144

A.P.C. 224,114. Method of binding bodies together. Heinrich Prufer, Vienna, Germany. Published May 11, 1943.
A.P.C. 290,146. Wood cutting machines. Robert Alexander Nielsen, Copenhagen, Denmark. Published May 11, 1943.
A.P.C. 290,908. Construction of hollow bodies such as aircraft elements. Ettore Bugatti, Paris. France. Published May 11, 1943.
A.P.C. 299,880. Machine for disbarking logs. Richard Mehlhorn, Mannheim-Waldhof, Germany. Published May 11, 1943.
A.P.C. 308,486. Edge gluing wood sheets with synthetic resin. Rudolf Ludwig, Lissone, Italy. Published May 11, 1943.

A.P.C. 354,762. System for disbarking trunks. Anton Holzhey et al., Schongau A. Lech, Germany. Published May 11, 1943.
A.P.C. 370,059. Method and apparatus for joining veneers. Adolf Friz, Stuttgart-Bad-Cannstatt, Germany. Published May 11, 1943.
A.P.C. 370,060. Veneering press. Adolf Friz, Stuttgart-Bad-Cannstatt, Germany. Published May 11, 1943.
A.P.C. 379,694. Method and apparatus for fabricating objects from plywood and products thereof. Marcelle Jeanne Lyon et al., Paris, France. Published May 11, 1943.
A.P.C. 392,181. Vehicle body. Conrad Schulz, Berlin-Spandau, Germany. Published May 11, 1943.
A.P.C. 398,008. Method of and means for making and applying corrugated wood. Friedrich Wilhelm Franke, Leipzig, Germany. Published May 11, 1943.

CLASS 145

A.P.C. 360,381. Implements for driving in screws, wire nails, etc. Gerrit Hilgers, Rotterdam, Netherlands. Published May 11, 1943.
A.P.C. 374,746. Saw with a freely projecting saw blade. Rudolf Gubik, Vienna, Germany. Published May 11, 1943.

CLASS 146

A.P.C. 324,232. Reducing machines. Ludwig Pallmann, Zweibrucken, Germany. Published May 11, 1943.
A.P.C. 369,982. Apparatus for processing materials. Wilhelm Model, Stuttgart-Feuerbach, Germany. Published May 11, 1943.

CLASS 148

A.P.C. 174,078. Method of increasing the quality of structures of aluminum alloy such as girders for airships and the like. Ludwig Durr, Friedrichshafen, Bodensee, Germany. Published May 11, 1943.
A.P.C. 283,320. Methods of producing hard-soldered or welded joints. Hans Edner, Dessau, Germany. Published May 11, 1943.
A.P.C. 304,413. High grade steels for building purposes. Roland Wasmuht, Dortmund, Germany. Published May 11, 1943.
A.P.C. 315,184. Process for the production of coloured protective layers on castings, especially die-castings, of magnesium base alloys. Gustav Siebel et al., Bitterfeld, Germany. Published May 11, 1943.
A.P.C. 330,156. Articles in which constant and stable permeability values are required, as for instance pupin coils, krarup conductors, etc. Hermann Fahlenbrach, Essen-Steele, Germany. Published May 11, 1943.
A.P.C. 339,132. Process for the introduction of chromium into iron or steel articles. Gottfried Becker et al., Buderich Bei Dusseldorf, Germany. Published May 11, 1943.
A.P.C. 360,936. Producing rails of high resistance to wear. Fritz Hofmann, Starachowice, Poland Published May 11, 1943.
A.P.C. 369,614. Production of corrosion-proof surfaces on steel by chromium diffusion. Gottfried Becker et al., Buderich, near Neuss, Germany. Published May 11, 1943.
A.P.C. 377,047. Aluminium alloys. Gaston Gauthier, Chambery (Savoie), France. Published May 11, 1943.
A.P.C. 383,243. Method of eliminating impurities contained in iron and steel, and vacuum oven heated by glow discharge, more particularly annealing and melting oven adapted to carry into effect said method. Wilhelm Burkhardt, Berlin-Grunewald, Germany. Published May 11, 1943.

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A.P.C. 421,960. Process for the production of articles made of iron and steel with corrosion-proof surface. Gottfried Becker et al., Buderich B. Neuss, Germany. Published May 11, 1943.

CLASS 149

A.P.C. 365,389. Preparation of skins and the like. Zoltan Vag, Budapest, Hungary. Published May 11, 1943.
A.P.C. 434,625. Process of soaking all kinds of dried and salted hides and skins. Carl Riehs, Ludwigshafen-on-the-Rhine, Germany. Published May 11, 1943.

CLASS 150

A.P.C. 290,983. Handbag. Viktor Ehrenhaft. Brunn, Moravia. Published May 11, 1943.
A.P.C. 380,014. Lady's handbag. Daniele Morichetto, Gablonz, Germany. Published May 11, 1943.

CLASS 151

A.P.C. 267,209. Nut locking device. Adolf Fehrmann, Hamburg, Germany. Published May 11, 1943.
A.P.C. 338,173. Lock washers and method for producing same. Gustav Willy Heinold, Leipzig, Germany. Published May 11, 1943.
A.P.C. 368,592. Lock-nuts. Walter Engelmann. Seestadt Rostock, Germany. Published May 11, 1943.
A.P.C. 382,653. Locking device for bolts, spindles or the like. Katsuichi Ozuka, Itabashi-ku-Tokyo, Japan. Published May 11, 1943.
A.P.C. 400,471. Self-locking nut. Ernst Rudiger, Berlin, Germany. Published May 11, 1943.
A.P.C. 411,076. Spreading ring lock-washer. Paul Jacob, Dessau, Germany. Published May 11, 1943.

CLASS 152

A.P.C. 377,371. Non-skid device. Fritz Hetz. Ettlingen/Baden, Germany. Published May 11, 1943.
A.P.C. 384,730. Floating swivel rings for non-skid chains. Otto Bornemann, Berlin, Germany. Published May 11, 1943.
A.P.C. 398,922. Wheel with spring spokes. Andries de Jong, The Hague, Netherlands. Published May 11, 1943.
A.P.C. 441,860. Air tubes for pneumatic tyres. Alfred Louis Couturier, Orleans, France. Published May 11, 1943.

CLASS 153

A.P.C. 268,830. Bending rollers for bar or rod iron benders or the like. Anton Wagenbach, Wuppertal-Elberfeld, Germany. Published May 11, 1943.
A.P.C. 283,285. Bender for rolled-up strip such as window frame, pipe or fuel tank of motor vehicles. Takeo Sato, Tsurumi-ku-Yokohama, Japan. Published May 11, 1943.
A.P.C. 296,515. Method of straightening metal bars. Rudolf Schmidt, Vienna, Germany. Published May 11, 1943.
A.P.C. 360,151. Straightening machine for sheet metal plates. Fritz Ungerer, Pforzheim, Germany. Published May 11, 1943.
A.P.C. 373,697. Method for the manufacture of high grade metal bars, rods or the like. Rudolf Schmidt, Vienna, Austria. Published May 11, 1943.
A.P.C. 373,778. Twisting reinforcements for concrete. Rudolf Schmidt, Vienna, Austria. Published May 11, 1943.

CLASS 154

A.P.C. 163,602. Method and apparatus for molding perforated elastic material. Josef A. Grabec, Bratislava, Czechoslovakia. Published May 11, 1943.

A.P.C. 202,136. Process and apparatus for the impregnation of fibre fleeces with binding agents Carl Ludwig Nottebohm, Weinhem/Baden, Germany. Published May 11, 1943.

A.P.C. 212,074. Light weight sheet-like construction material. Claude Dornier, Friedrichshafen, A. B., Germany. Published May 11, 1943.

A.P.C. 212,075. Light weight construction materials and method of producing same. Claude Dornier, Friedrichshafen, A. B., Germany. Published May 11, 1943.

A.P.C. 229,251. Manufacture of vehicle doors. Fritz Schnell, Chemnitz, Germany. Published May 11, 1943.

A.P.C. 229,798. Manufacture of compound lumber. Wolfgang Baseler et al., Munich, Germany. Published May 11, 1943.

A.P.C. 243,598. Structural parts for coachwork and the like. Gustav Barchfeld, Troisdorf, Cologne, Germany. Published May 11, 1943.

A.P.C. 244,268. Tubular sheaths for bowden cable devices and the like. Helmut Zundorf, Rodenkirchen, Germany. Published May 11, 1943.

A.P.C. 255,779. Method of producing very thin silk paper. Wolfgang Holthof, Worms A. Rhein, Germany. Published May 11, 1943.

A.P.C. 255,866. Process for production of plastic plywood. Louis Charles Frederic Pechin, Louvain, Belgium. Published May 11, 1943.

A.P.C. 260,172. Rubber insulation for metallic conductors. Emil Klingler et al., Korntal, Germany. Published May 11, 1943.

A.P.C. 269,395. Joining parts made of thermoplastic material. Alfred Henning, Leuna (Kreis Merseburg), Germany. Published May 11, 1943.

A.P.C. 273,397. Laminated body. Erwin Komenda, Stuttgart-Korntal, Germany. Published May 11, 1943.

A.P.C. 273,885. Process of producing a floor covering. Johan Leon Goudsmit, Nijmegen, Holland. Published May 11, 1943.

A.P.C. 289,432. Processes for the manufacture of fibre board. Heinz Meyer, Hamburg-Altona, Germany. Published May 11, 1943.

A.P.C. 291,280. Materials resistant to poisonous gases. Raoul Wechsberg, deceased, by J. C. A. Buchner, Amsterdam, Holland, administrator. Published May 11, 1943.

A.P.C. 293,601. Impervious packings and receptacles. Charles Nicolle, Montrouge, France. Published May 11, 1943.

A.P.C. 297,182. Method for manufacturing balls for games. Sylvain Lejeune, Paris, France. Published May 11, 1943.

A.P.C. 299,782. Linoleum coverings and process of making the same. Raffaele Amendola, Milano, Italy. Published May 11, 1943.

A.P.C. 306,031. Production of artificial leather. Carl Ludwig Nottebohm, Weinheim/Baden, Germany. Published May 11, 1943.

A.P.C. 308,846. Material for arresting sounds and holding warmth. Masaichi Tominaga. Hasunumacho. Kamata-ku, Tokyo, Japan. Published May 11, 1943.

A.P.C. 316,636. Building plate. Artur Schumann, Kustrin-Neustadt, Germany. Published May 11, 1943.

A.P.C. 320,200. Corrugated fibro-cement slabs. Giovanni Guerci, Turin, Italy. Published May 11, 1943.

A.P.C. 346,496. Process for manufacturing pile fabric such as carpet. Genkichi Niki, Shibuyaku, Tokyo, Japan. Published May 11, 1943.

A.P.C. 358,825. Method of manufacturing clutch discs for airplanes. Masayosi Hasimoto, Azabuku, Tokyo, Japan. Published May 11, 1943.

A.P.C. 359,744. Preparation of composite rubber articles. Otto Hecht et al., Ludwigshafen-on-Rhine, Germany. Published May 11, 1943.

A.P.C. 365,862. Vitreous insulators. Andre Laurent Camille Delloye, Paris, France. Published May 11, 1943.

A.P.C. 367,723. Foils for coating purposes. Otto Herrmann, Wiesbaden, Germany. Published May 11, 1943.

A.P.C. 372,674. Apparatus for the longitudinal creping of webs of paper, or other sheet material. Rudolf Haas, Berlin-Zehlendorf, Germany. Published May 11, 1943.

A.P.C. 373,283. Method of manufacturing composite sheet material. Josef Grabec, Bratislava, Slovakia. Published May 11, 1943.

A.P.C. 382,146. Manufacture of flexible envelopes or the like. Rene Leboime et al., Collonges, France. Published May 11, 1943.

A.P.C. 388,710. Arrangement for avoiding errors in measurement due to one-sided heating of the cases of optical instruments. Max Maurer, Vienna, Germany. Published May 11, 1943.

A.P.C. 391,220. Method of manufacturing flattened condensers. Walter Pfeiffer, Berlin-Spandau, Germany. Published May 11, 1943.

A.P.C. 395,118. Bipartite tube with tube body wound of several layers and containing at least one layer of metal foil. Werner Friedrichs, Berlin, Germany. Published May 11, 1943.

A.P.C. 424,624. Process for making tennis balls. Leon Sylvain Max LeJeune, Paris, France. Published May 11, 1943.

CLASS 155

A.P.C. 331,871. Resilient saddle for cycles, motorcycles and like vehicles. Enrico Musso, Turin, Italy. Published May 11, 1943.

A.P.C. 352,080. Pillion saddle for motorcycles. Rudolf Schleicher, Munich, Germany. Published May 11, 1943.

A.P.C. 369,346. Resilient seat or back. Anthonie Story, Amsterdam, Netherlands. Published May 11, 1943.

A.P.C. 373,784. Hollow ring-shaped seat-cushion. Willy Rusch, Rommelshausen, near Stuttgart, Germany. Published May 11, 1943.

A.P.C. 378,045. Driver's seat especially for tractors and agricultural machines. Anton Lentz, Heidelberg, Germany. Published May 11, 1943.

A.P.C. 383,860. Rubber cushioning device and rubber cushioning elements adapted for use therein. Nicolaas Sluyter, Haarlem, Netherlands. Published May 11, 1943.

A.P.C. 407,661. Bed settees or chairs. Antoon Mattheus de Nachtegaal, Scheveningen, The Hague, Netherlands. Published May 11, 1943.

A.P.C. 435,159½. Saddle support for cycle. Michele Grivetto, Turin, Italy. Published May 11, 1943.

CLASS 158

A.P.C. 323,160. Reversing apparatus for furnace. Otto Reiner. Rheinhausen-NRH.-Hochemmerich, Germany. Published May 11, 1943.

A.P.C. 332,417. Crude oil burners. Arien Dekker, Fynaart, Netherlands. Published May 11, 1943.

CLASS 164

A.P.C. 315,157. Gun perforator. Marcel Schlumberger, Paris, France. Published May 11, 1943.

A.P.C. 385,034. Arrangement for producing filters. Manfred von Ardenne, Berlin-Lichterfelde-Ost, Germany. Published May 11, 1943.

CLASS 167

A.P.C. 143,736. Emulsions of physiologically active compounds. Felix Haffner et al., Tubingen, Germany. Published May 11, 1943.

A.P.C. 211,101. Pancreatic hormone preparations and the production thereof. Fritz Lasch et al., Vienna, Germany. Published May 11, 1943.

A.P.C. 250,064. Preparation of solutions of medicaments insoluble or sparingly soluble in water. Werner Ursum, Frankfurt-am-Main, Germany. Published May 11, 1943.

A.P.C. 254,967. Process for making froths containing hydrocyanic acid. Leo Lowenstein, Berlin-Wilmersdorf, Germany. Published May 11, 1943.

A.P.C. 263,240. Preparation of immune blood, separated plasma and serum of said blood. Yu Maekawa, Nakano-ku-Tokyo, Japan. Published May 11, 1943.

A.P.C. 275,543. Production of vitamin-F preparations. Felix Grandel, Emmerich-am-Rhein, Germany. Published May 11, 1943.

A.P.C. 277,259. Impregnating preparation with insecticidal effect for textile goods. Paul Nestler, Rabenstein, Germany. Published May 11, 1943.

A.P.C. 281,683. Production of disinfectants and pest exterminating agents. Karl Wilhelm Rosenmund, Kiel, Germany. Published May 11, 1943.

A.P.C. 321,912. Hormone preparations and method for producing the same. Lajos Paunz et al., Budapest, Hungary. Published May 11, 1943.

A.P.C. 322,257. Disinfecting product and processes for its manufacture and application. Boruk Carnauh, Paris, France. Published May 11, 1943.

A.P.C. 340,476. Therapeutically valuable calcium salt dissolved in oil and a process for the production thereof. Bela Moskovits, Budapest, Hungary. Published May 11, 1943.

A.P.C. 345,841. Disinfectants. Edmund Weidner, Berlin-Charlottenburg, Germany. Published May 11, 1943.

A.P.C. 347,311. Insecticides. Hans von Philipp, Leipzig, Germany. Published May 11, 1943.

A.P.C. 352,309. Arsenical insecticidal composition. Carlo Paoloni, Pieve Vergonte, Italy. Published May 11, 1943.

A.P.C. 352,814. Wood preservative and process of preparing the same. Hilarion G. Henares, Manila, P. I. Published May 11, 1943.

A.P.C. 356,558. Method of preparing stable dry vitamin C. Ryo Yamamoto et al., Taiwan, Japan. Published May 11, 1943.

A.P.C. 356,559. Method of extracting vitamin C. Ryo Yamamoto et al., Taiwan, Japan. Published May 11, 1943.

A.P.C. 358,278. Process for the production of substances expediting the growth of cells. Felix Grandel et al., Emmerich/Rhein, Germany. Published May 11, 1943.

A.P.C. 358,279. Production of vitamin-F preparations. Felix Grandel, Emmerich/Rhein, Germany. Published May 11, 1943.

A.P.C. 361,329. Process of producing sulphurous powders. Herbert Fiedler, Leipzig, Germany. Published May 11, 1943.

A.P.C. 368,731. Wound healing preparations and the production thereof. Albert Fischer, Copenhagen, Denmark. Published May 11, 1943.

A.P.C. 371,834. Process for increasing the efficiency of insect destroying drug extracts. Jean Komeda, Schaerbeek-Brussels, Belgium. Published May 11, 1943.

A.P.C. 373,185. Carbohydrate solutions. Bruno Wendt, Dessau, Germany. Published May 11, 1943.

A.P.C. 373,612. Process for the preparation of durable aqueous solutions particularly of pharmaceutical nature. Jan Kok, Amsterdam, Netherlands. Published May 11, 1943.

A.P.C. 374,085. Mouth washes. Franz Gilloy, Dessau, Germany. Published May 11, 1943.

A.P.C. 379,550. Process for extracting durable concentrates of fat-soluble vitamines free from fatty acid. Felix Grandel, Emmerich/Rhein, Germany. Published May 11, 1943.

A.P.C. 395,485. Therapeutical uses of organic peroxides. Henri Achille Etienne Porsin, Paris, France. Published May 11, 1943.

A.P.C. 401,974. Weed-destroying preparations. Herbert Schotte et al., Berlin-Charlottenburg, Germany. Published May 11, 1943.

A.P.C. 414,980. Manufacturing of concentrates of fat-soluble active substances, especially vitamines. Felix Grandel et al., Emmerich/Rhein, Germany. Published May 11, 1943.

A.P.C. 421,249. Preparation of powerful soluble tubercle bacilli antigen. Yu Maekawa, Nakanoku, Tokyo, Japan. Published May 11, 1943.

A.P.C. 427,984. Pharmaceutical preparations possessing surface-active properties and process of making same. Hermann Engelhard et al., Berlin-Germany. Published May 11, 1943.

A.P.C. 430,304. Product for overcoming the crytogamic diseases of plants and its manufacturing process. Henri Bernat, Bordeaux, France. Published May 11, 1943.

A.P.C. 434,148. Method and products for treating plants or plant parts. Emile Kolb, La Plaine Saint-Denis, France. Published May 11, 1943.

CLASSIFICATION OF PATENTS

ISSUED MAY 11, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 73: 2,318,771
87: 2,319,085
93: 2,318,829
98: 2,318,617
114: 2,319,089
132: 2,319,135
158: 2,318,785
230: 2,318,924
234: 2,319,138
4— 41: 2,318,978
185: 2,319,017
222: 2,319,034
5— 354: 2,319,150
8—115.5: 2,319,009
116: 2,319,168
10— 25: 2,318,825
12— 1: 2,318,632
97: 2,318,703
142: 2,318,678
2,318,846
146: 2,318,926
15— 49: 2,318,960
53: 2,318,995
2,318,996
77: 2,318,884
104.05: 2,318,696
137: 2,318,635
176: 2,319,028
222: 2,318,680
229: 2,318,902
16— 114: 2,319,147
115: 2,318,792
17— 26: 2,318,897
18— 6: 2,319,042
16: 2,319,145
18: 2,318,779
19: 2,319,099
21: 2,318,718
47.5: 2,318,670
2,319,040
48: 2,318,657
54: 2,318,679
2,318,704
55: 2,319,014
57: 2,318,796
2,319,051
2,319,052
2,319,053
2,319,054
2,319,055
59: 2,318,589
2,319,156
19— 58: 2,318,737
20— 1: 2,318,820
19: 2,318,991
36: 2,319,004
55: 2,319,179
74: 2,318,857
92: 2,318,776
23— 277: 2,318,688
24— 11: 2,318,950
19: 2,318,946
73: 2,318,853
206: 2,318,816
236: 2,319,180
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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Designs	25—No.	135,685 to No.	135,709, inclusive.
Total	784		

Interference Notices

U. S. Patent Office, *Richmond, Va., Apr. 14, 1943.*

The Circus Sally Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered March 3, 1925, No. 195,692, to The Circus Sally Company, 227 W. Austin Ave., Chicago, Ill., and the notice of such proceeding sent by registered mail to said The Circus Sally Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Circus Sally Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Richmond, Va., Apr. 14, 1943.*

William B. Fundis, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered Sept. 15, 1931, No. 287,072, to William B. Fundis, 837 W. North Ave., Pittsburgh, Pa., and the notice of such proceeding sent by registered mail to said William B. Fundis at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said William B. Fundis, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Richmond, Va., Apr. 14, 1943.*

Unicy Marshmallow Co., Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Gutman Bros., 43 East 12th St., New York, N. Y., for registration of a trade-mark and trade-mark registered Oct. 22, 1929, No. 262,792, to Unicy Marshmallow Co., Inc., 404 Platt St., Rochester, N. Y., and the notice of such proceeding sent by registered mail to said Unicy Marshmallow Co., Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Unicy Marshmallow Co., Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,146,430, C. D. Hazen, Welding apparatus, decided April 19, 1943, claims 1, 2, 3, 7, 10, 11, 12, 13, 18, 19, and 23.

Pat. 2,251,806, J. B. Rust and I. Pockel, Resinous reaction product and process therefor, decided April 20, 1943, claim 1.

Pat. 2,252,588, R. J. Whitesell, Vitreous enamel opacifier, decided April 21, 1943, claim 1.

Pat. 2,257,677, C. Goodwin, Printing telegraph system, decided March 29, 1943, claims 2, 3, and 4.

Notice

See page xxxi for list of applications published by the Alien Property Custodian.

Conditions of Applications Under Examination at Close of Business May 1, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,958; Trade-Mark Division, 1034. Oldest new case, June 18, 1942; oldest amended June 29, 1942)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Nov. 30	Dec. 18	320
2. HERRMANN, L., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Feb. 26	Dec. 31	228
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	July 20	July 10	946
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Nov. 4	Nov. 13	409
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Aug. 29	Aug. 25	510
6. GENIESSE, E. W., Carbon Chemistry (part)	Aug. 27	Aug. 22	1025
7. JARBOE, C. G., Optics, Photography	Oct. 8	Oct. 6	904
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Oct. 12	Oct. 12	616
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Sept. 16	Sept. 5	740
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Nov. 19	Nov. 24	379
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Dec. 31	Nov. 23	332
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making.	Oct. 26	Oct. 19	646
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 12	Jan. 9	431
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Oct. 30	Oct. 22	681
16. SPENCER, C. J., Telegraphy; Telephony	Sept. 19	Sept. 10	618
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Feeding; Sheet or Web Feeding; Type Setting.	July 20	Aug. 6	716
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 13	Sept. 5	539
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Aug. 17	Aug. 14	642
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Nov. 16	Nov. 3	442
21. THOMPSON, T. J., Textiles	Nov. 28	Nov. 12	293
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	July 24	July 28	1703
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 13	Nov. 12	135
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Dec. 10	Dec. 10	553
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 29	Oct. 19	624
26. YOUNG, R. R., Electricity—Generation and Motive Power	Oct. 1	Oct. 12	620
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 8	Oct. 10	580
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 13	July 11	628
29. SHKLARIN, J. D., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 8	Dec. 30	330
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Jan. 8	Jan. 8	313
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Nov. 12	Nov. 12	1364
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 26	Sept. 24	638
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Dec. 3	Dec. 8	642
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Oct. 22	Nov. 6	401
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Dec. 10	Nov. 18	605
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Nov. 14	Sept. 30	380
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 23	Dec. 12	412
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 5	Oct. 14	634
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	†Jan. 8	†Jan. 2	383
40. DRUMMOND, E. J., Receptacles	†Jan. 17	†Jan. 21	317
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 19	Oct. 19	405
42. MARANS, H., Electric Signaling	Dec. 11	Dec. 21	332
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	July 3	July 4	871
44. HARVEY, L. P., Refrigeration	Sept. 23	Sept. 16	330
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Oct. 31	Nov. 25	715
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Sept. 30	Sept. 30	479
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Oct. 2	Oct. 9	1013
48. ROEPKE, O. B., Electricity, General Applications; Igniters	June 18	June 29	721
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Nov. 3	Nov. 3	599
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Oct. 1	Oct. 3	1225
51. BACKUS, C. D., Radiant Energy	Oct. 8	Oct. 8	997
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Oct. 27	Nov. 5	644
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Feb. 18	†Dec. 30	201
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Sept. 29	Sept. 30	449
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	Aug. 20	Aug. 20	776
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Oct. 9	Oct. 9	778
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	July 1	July 7	449
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 26	Nov. 12	535
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	June 30	July 7	1288
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Aug. 18	Aug. 18	448
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Sept. 29	Sept. 30	577
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	†Jan. 4	†Jan. 1	457
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Aug. 5	Sept. 12	953
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Nov. 18	Nov. 16	1100
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Sept. 17	Sept. 16	663
Trade Marks: RICHMOND, F. A.	Mar. 24	Apr. 9	274
Designs: KALUPY, H. H.	Mar. 22	Apr. 9	1034

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

ABBOTT AND ABBOTT MACHINE COMPANY

v.

SHEPHERD AND THE CLARK THREAD COMPANY

No. 7,903. Decided December 31, 1942

1. APPEAL—DOCTRINE OF ABBOTT *v.* COE.

"In view of * * * contrariety in result and reasoning, on the part of both the primary tribunals and the parties, the case is not one appropriate for disposal merely by applying the doctrine of *Abbott* v. *Coe*, 512 O. G. 3, 71 App. D. C. 195, 109 F.(2d) 449 (1939), and a statement of the evidence from which the various opinions have been drawn is necessary."

2. INTERFERENCE—PRIORITY.

Evidence reviewed and *Held* that appellee Shepherd constructively reduced the process in issue to practice prior to actual reduction thereof by appellant Abbott, and that appellant Abbott was not diligent, and accordingly *Held* that priority of invention properly was decided in favor of appellee Shepherd.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Robert Cushman (*Mr. Arlon V. Cushman* and *Mr. Clarence H. Porter* of counsel) for Abbott and Abbott Machine Company.

Mr. Harry G. Kimball (*Mr. Leslie C. Garnett* and *Mr. Samuel F. Beach* of counsel) for Shepherd and the Clark Thread Company.

Before GRONER, Chief Justice, and STEPHENS and RUTLEDGE, Associate Justices.

RUTLEDGE, *A. J.:*

The suit is pursuant to Rev. Stat. § 4915 (1878), 35 U. S. C. § 63 (1940), to obtain Letters Patent. The only question is priority of invention, which in turn depends upon reduction to practice and diligence. In interference proceedings the Patent Office, through the Board of Appeals, awarded priority to Shepherd,[1] although the Examiner of Interferences previously had found in favor of Abbott. The district court also decided for Shepherd, on both diligence and reduction to practice, and accordingly dismissed Abbott's complaint. He now appeals.

The invention relates to a process for weaving into cloth flexible yarn, composed wholly or in part of rubber. It is useful in making rubber garments or garments containing rubber strands. For instance, in making men's clothing, the art has developed a fabric made with all worsted warp yarns, and mainly worsted filling or weft yarns interspersed every fourth, fifth or sixth yarn with an elastic rubber one. One of these elastic threads was known as "Lastex."

Difficulties arose in weaving due to uneven tensioning of the elastic yarns. Variations in tension, caused by machine action, varied the stretch of the yarn. Such a variation in the finished cloth would draw in its edges unevenly, making them wavy, and would tend to make the cloth pucker or "cockle." The gist of the invention, to meet these and other difficulties, is in coating the elastic thread with a sizing or liquid composition, so that when the coating hardens it forms a jacket around the thread and holds it in the tension which exists when the sizing is applied. The effect is to render the yarn sufficiently rigid to prevent the uneven tensions, but at the same time sufficiently flexible to permit weaving like ordinary yarn. The sizing is applied before the yarn is woven and is washed out or dissolved afterward. The yarn may be coated either in stretched or in relaxed condition as desired. One claimed advantage of interspersing rubber threads with worsted ones is to give the cloth greater capacity for holding crease when pressed. The process is useful also in weaving the more elastic garments women wear. Perhaps one element of genius in the invention is this achievement, at a single stroke, of greater rigidity for men's apparel and greater elasticity for that of women.

Abbott conceived the invention about June 1, 1933. His application was not filed until September 22, 1934. Shepherd's United States application is based on a British patent. His earliest date is March 19, 1934, when he filed a provisional specification in England, followed shortly by his complete one there and the parent United States application. His United States divisional application, which was the one involved in the Interference, was filed after September, 1934.

In view of his priority in conception, Abbott is entitled to priority in invention if he reduced it to practice prior to March 19, 1934, or if he maintained due diligence in perfecting it until the time of his application.[2] The filing of Shepherd's application constitutes a constructive reduction to practice as of March 19, 1934, if his disclosure is sufficient to enable one skilled in the art to practice the invention. At various stages in the Patent Office proceedings and in the district court the issues have been: (1) whether Abbott reduced the invention to practice prior to March 19, 1934; (2) whether, if not, he was diligent in perfecting the invention from a time prior to that date to September 22 following, when his application was filed; (3) whether Shepherd's disclosure is sufficient to enable one skilled in the art to practice the invention, and therefore to constitute a constructive reduction to practice.

[1] The parties to the suit, including the corporate assignees, will be designated by the names of the individual parties, who claim respectively to be the inventor.

[2] Cf. *Woods* v. *Poor* (1), 130 O. G. 1313, 29 App. D. C. 397 (1907); *Kitchen* v. *Smith*, 189 O. G. 255, 39 App. D. C. 500 (1913); *Seurer* v. *Graebli*, 239 O. G. 653, 45 App. D. C. 298 (1916); *Dickinson* v. *Swinehart*, 273 O. G. 407, 49 App. D. C. 222, 263 Fed. 474 (1920); *Gannetor* v. *Backdahl*, 276 O. G. 778, 50 App. D. C. 45, 267 Fed. 347 (1920); *Joy* v. *Morgan*, 320 O. G. 4, 54 App. D. C. 110, 295 Fed. 931 (1924).

[1] Except in respects not now important, material evidence was not greatly different in the Patent Office and the district court. Notwithstanding this, as has been noted, there were contrariety of opinion within the trial tribunals and apparent confusion, if not inconsistency, in some of the parties' contentions, especially concerning what is a sufficient reduction to practice and when this took place. Thus, Abbott claims conception and reduction to practice in 1933. But he admits and all of his evidence to show diligence is to the effect that he or Burke, through whom his experiments were performed, had not perfected the invention or found a satisfactory size before March 19, 1934, or in fact until late in May of that year. He contends, and must do so to retain priority in conception, that the gist of the invention is not in any specific sizing formula, but lies in the more general idea of applying any suitable sizing to the yarn, weaving it, and then washing out the sizing. Yet he urges strongly that Shepherd's equally general disclosure, that is, apart from Abbott's specific formulas, is not sufficient and therefore cannot be a constructive reduction to practice. Shepherd, on the other hand, seems to argue that his own disclosure is sufficient, and that Burke, who only devised formulas for Abbott's sizing, not Abbott, is the inventor of the latter's process. In view of this contrariety in result and reasoning, on the part of both the primary tribunals and the parties, the case is not one appropriate for disposal merely by applying the doctrine of *Abbott* v. *Coe*, 512 O. G. 3, 71 App. D. C. 195, 109 F.(2d) 449 (1939), and a statement of the evidence from which the various opinions have been drawn is necessary.

I

Abbott is an experienced and fertile inventor, gifted in designing machinery, especially for use in textile manufacturing, and in developing textile processes. He is also a business executive, engaged in the textile business since 1909 and in the textile machinery business since 1928. He is not an expert chemist or a specialist in the field of sizing yarns. He carries on his executive duties and his work of invention simultaneously, often conducting or directing several inventive projects at once. He is president of the Abbott Machine Company, which makes dyeing machinery among other things. In 1933 the company employed Mr. Burke, a trained chemist

"primarily as an expert engineer, chemist, and dye man, to sell and engineer various problems in promotion of this dye machinery."

Burke lived in Melrose, Massachusetts, where he had a private laboratory in his home. His sales work required travel, so that he was away from home three or four nights each week.

Abbott testified he conceived the idea of sizing or coating rubber yarn for weaving purposes about June 1, 1933, and first mentioned it to Burke about July 4, just before leaving for his vacation. He returned just after Labor Day and gave Burke directions about following up the invention. These were that the best solution, apparently, would be

"to stretch the yarn out and coat it with some material which would hold it in place; and then it could be woven or knitted and then the coating material washed off."

At the same time Abbott himself considered mechanical possibilities for controlling the stretch of the yarn in the loom or knitting machine, a problem distinct from the coating.[3] Burke was told

"to take almost any kind of rubber yarn that he could pick up and stretch it and coat it with various materials and see what we could do about a material which would hold it in stretched-out condition."

Among the possibilities Abbott mentioned were starch, casein and glue.

Burke tried out "some preliminary compounds" on ordinary small rubber bands. Before the end of September he reported to Abbott that a sizing would hold the strands extended. Following Abbott's instructions, early in October Burke tried the coating on regular rubber yarn, samples of Lastex procured from a friend, Meade, who was an official of the United States Rubber Company, and made a brief memorandum stating, "Tried size on rubber thread; it holds . . . sets o. k. with special size." He reported this to Abbott soon afterward.

From then on Burke's efforts were given to developing suitable formulas for sizing. He worked chiefly on three general types, based largely on dextrine, casein and thymal-iodoform. Eventually he developed three specific formulas, which he termed the "dextrine type," the "casein type" and the "thymol-iodoform type," respectively. They were incorporated in that order of preference in Abbott's application as "preferred compositions of size." But the specification stated:

"The size may be any suitable adhesive composition of sufficient tenacity for the purpose indicated, but not destructive of the flexibility necessary for winding and weaving, and capable of subsequent removal, preferably by water."

Formula No. 1, the "dextrine type," was the most satisfactory and the one which finally convinced Abbott the search for the right compound had been concluded successfully. Just when this was developed is not entirely clear. But it was on May 25, 1934, when Burke took coated specimens of the Lastex yarn to him, that Abbott approved the results finally and told Burke to write up a report covering his whole work. Burke did so, and on May 29 Abbott instructed his attorneys to proceed with the preliminary search and a patent application.

The evidence for Abbott consisted largely of his own and Burke's testimony and a few documentary and physical exhibits, although Mrs. Burke gave supporting evidence, and one of Abbott's attorneys gave evidence to show diligence from May 29 to September 22, 1934. According to the testimony of Abbott and Burke, the latter worked continuously on experiments to develop a suitable sizing from September, 1933, to the latter part of May, 1934. Apart from procuring the yarns and reporting to Abbott, the work was done in the laboratory in Burke's

[3] The opinion will not be burdened with the details concerning these and other projects on which Abbott was working, although Shepherd contends that some of the documentary and other evidence which Abbott says relates to the invention now in issue in fact relates to these other projects.

home. This was in the evenings three of four days a week or over week ends when he could be at home. The remainder of his time was spent in travel on his duties as sales and engineering consultant.

Burke saw Abbott usually once a week on Fridays at the latter's home in New Hampshire. Then he would report on his work for the company and also from time to time on his progress with the formulas. During these conferences Abbott instructed him concerning further procedure. Their testimony is that from the "fall of 1933" to April, 1934, Burke made thirty or forty experiments on the Lastex yarn he procured in October from Meade with different formulas, and that it took several days to complete any one experiment with any one formula. The work included compounding the formula, putting it in solution, stretching, coating and drying the yarn, testing it, and removing the sizing. In April, 1934, Abbott procured a new supply of Lastex from Adamson Bros. in New York and the experiments thereafter continued with this yarn.

Burke early found that the "casein" and "thymol-iodoform" formulas offered less favorable possibilities than the "dextrine" type, because of greater difficulty in procuring the materials and in dissolving or washing out after weaving. He therefore concentrated on the dextrine formula. Most of his work was done on that, extending apparently from October, 1933, to May, 1934.

From the beginning the formula was satisfactory as to rigidity, and apparently also as to washing out. But its flexibility for withstanding the operations of the weaving and knitting machines did not quite satisfy Abbott. This was the problem on which Burke worked exclusively for nearly nine months. When Abbott procured the new Lastex in April, he turned some of it over to Burke and, according to the latter,

"His instructions to me then were that he felt that the formula that I had showed to him previously, that is the results of it were so close to what he wanted that I should concentrate all my efforts on just that one thing and not take any departures whatever, and to modify that by various experiments, to overcome that inflexibility and scaling of the formula . . ."

Burke then modified it by removing the small amounts of glue and glycerine it had contained and substituting glucose. This took "six or seven weeks of further work," and "at least six or seven" further experiments, during April and May.

Documentary and other exhibits introduced to support this version of extensive and long-continued chemical experimentation upon the narrow phase of the formula's flexibility included: a strand of the original rubber bands sized by Burke in September, 1933; two detached loose-leaf notebook pages containing brief memoranda, one dated October 5, 1933, signed by Burke, and witnessed by his wife on October 7, summarizing in a few lines what he had done up to that time and containing later notations, one dated "Apr. 1934," that "E. J. A. handed bbn rubber yarn cotton coated—will size See report Mr. E. J. A. June 1934 Report Dec. 1934," the other sheet containing brief chemical notations, apparently for the three types of formula, not dated; a rough pencil sketch of a projected sizing machine, dated "Dec. 1933" and signed by Burke; and a printed form of acknowledgment of an order for ten pounds of Lastex, dated March 17, 1934, sent by Adamson Bros. Company to Abbott Worsted Mills, Wilton, N. H.; a notice of shipment of this order dated March 21; and a letter from Abbott to Adamson Bros. dated March 20, which appears to be concerned almost entirely with business matters, though possibly it had slight relation to the invention.[4] The record also includes a copy of Burke's final report to Abbott, several pages long, made in June, 1934. Exhibit 6–A was a deteriorated sample of Adamson Brothers' shipment of Lastex, and Exhibits 38–A and 38–B were Burke's final specimens of Lastex which Abbott found satisfactory.

In summary, the physical exhibits covering nine months' work comprised samples of the original coated rubber bands (September, 1933); a sample from the Adamson shipment of March, 1934; and specimens of the final coated yarn (May, 1934). The documentary evidence for the same period includes Burke's two brief loose-leaf sheets, dated October 5, 1933, with their later brief notations; his rough pencil sketch of the projected sizing machine dated "Dec. 1933"; Adamson's acknowledgment of Abbott's order for Lastex, of March 17, 1934; the notice of shipment of March 21; Abbott's letter to them of March 20; and Burke's final report of June, 1934.

II

If Abbott's evidence is taken fully at face value, he not only conceived the invention about June 1, 1933, but he and Burke were at work upon it constantly and continuously from early in September of that year to the end of May, 1934. From that time forward his attorneys were engaged in preparation of the application for filing, and it seems not to be questioned that there was due diligence in this phase of the work from May 29 to September 22, 1934, when the application was filed.

Shepherd, however, attacks the evidence given on Abbott's behalf, both for want of legal sufficiency to show diligence and reduction to practice prior to March 19, 1934, and for want of credibility. He divides Abbott's activities into three periods: first, from conception in June, 1933, to an indefinite time in December, 1933; second, from the December date to an indefinite one in April, 1934 (during which Shepherd entered the field); and third, from the April date to September 22, 1934. Discounting the seriousness of the work done in the first period, he says the second is barren of any credible evidence of continued and diligent activity, as is the third

[4] The letter expressed thanks for "the opportunity of talking with your Mr. Percy and Mr. Seth Adamson in regard to the use of Lastex yarn in our fine fancy men's wear fabrics," explaining Abbott's textile and textile machinery manufacturing facilities, the merits of his organization for adapting its equipment and doing necessary experimental work "to make these fabrics right," and expressing appreciation for "the information you gave me as to how to handle this yarn and worsted fabric." It also notes their acknowledgment of order "covering shipment of sample lots," and ends: "As soon as these are received, we will start work with them."

up to May 29. This is especially true, he argues, of the time extending from a date prior to March 19, 1934, when Shepherd filed, to May 29 that year, a period which appears to be conceded, and the trial court found, is crucial on the question of diligence. Shepherd also says that Abbott did not reduce the invention to practice prior to March 19, 1934, apparently because his work on the formula was not finished and because the process was never tried out in actual weaving or knitting. Abbott, as has been said, relied not only on his own efforts, but also upon the asserted insufficiency of Shepherd's disclosure, basing this apparently upon the absence of a specific formula.

In this state of the evidence and the issues the trial court made findings of fact and conclusions of law in Shepherd's favor, too long for inclusion here, but material parts of which were as follows:

Findings of fact

12. Both of the Patent Office tribunals held and this court finds the defendant Thomas Lewis Shepherd to be entitled to a date of conception and constructive reduction to practice of the invention in issue as of March 19, 1934, this being the date of filing of Shepherd's British application which, like his later filed United States applications and his said patent, embodies adequate disclosures of the invention in issue.

13. Upon the evidence adduced on behalf of Abbott in the Patent Office interference, the Board of Appeals found that none of the plaintiffs' activities could be accepted as constituting a reduction to practice of the invention prior to Shepherd's date of March 19, 1934; also, that Abbott had failed to prove diligence in reducing the invention to practice, especially throughout the period from March 21, 1934 until May 29, 1934.

14. The evidence presented before this court consists of the Patent Office Record with certain additional matter. So far as physical evidence is concerned, the sole addition to the Patent Office Record is an exhibit comprising some samples of sized rubber yarn said to have been newly discovered. The plaintiff Abbott and his assistant Burke, both of whom had testified in the Patent Office proceeding, gave further oral testimony before the court and were cross-examined at length. One new witness (Burke's wife) testified by deposition in support of some of the early work claimed to have been done by Burke on Abbott's behalf, and an attorney testified that he made a novelty search for Abbott (long after Shepherd's date).

15. Abbott had not reduced the invention to practice prior to Shepherd's date of March 19, 1934. He never made the fabric nor a sufficient amount of sized yarn to weave in fabric, nor tested it in weaving or knitting, although the facilities for doing all these things were readily available to him.

17. The plaintiffs' evidence fails to establish diligence, regardless of the purpose of the alleged activities. This is especially true of the period between March 21, 1934 and May 29, 1934, to which the new evidence was in part directed.

18. The testimony that many experiments were made for determining a satisfactory formula for the size was not convincing either as to the time when made or the need for them.

Conclusions of law

4. The plaintiffs have failed to sustain the burden of proving by evidence which in character and amount carries thorough conviction, that the Board of Appeals erred in holding Shepherd to be the prior inventor and entitled to a patent for the invention in issue.

On these findings and conclusions, the court entered the following order:

So far as any question of reduction to practice of the invention involved in this case is concerned, I am satisfied that Abbott had not reduced it to practice before March 19, 1934. He had never made the fabric, nor a sufficient amount of sized yarn to weave a fabric, nor tested it in weaving or knitting.

The evidence of the plaintiff as to diligence is largely based upon memory; the documentary evidence consisted in part of memoranda and letters, which are connected by oral testimony with the facts in issue. When it is borne in mind that the plaintiff Abbott had had experience in obtaining patents and his employee Burke was a research chemist it is difficult to understand why more accurate entries were not made showing the progress of the work. I am not satisfied that the plaintiffs have maintained the burden of proof either of reduction to practice or of diligence. As to the latter this is especially true of the period between March 21, 1934 and May 29, 1934. I think too that suspicion always attaches to testimony introducing memoranda which it is claimed were not discovered until after a former hearing.

I think that the plaintiffs have failed to sustain the allegations of the complaint, and that it should be dismissed with costs.

III

In our view of the case it is necessary first to clarify the apparent confusion relating to what constitutes the invention or, more precisely, to the consequences for reduction to practice and diligence which grow out of that question. If the gist of the invention is in a specific formula or formulas for sizing, obviously Shepherd's disclosure is not sufficient and he has never conceived the invention. It would follow also that Abbott has conceived it, fully disclosed it, reduced it to practice, at least constructively by the filing of his application, perhaps also by completing his experiments, and that he is entitled to the patent, whether or not this work was done diligently.

On the other hand, if the invention consists in the general idea of coating elastic yarns with sizing or other material to make them rigid, yet sufficiently flexible for weaving purposes, weaving the yarn into cloth in its sized condition, and washing out or otherwise dissolving the sizing after the cloth is finished, that also has obvious consequences, generally of a contrary character, for the issues and the parties. This view of the invention necessarily affects the questions, what are a sufficient disclosure, a constructive and an actual reduction to practice, and due diligence. They will be determined differently, depending upon whether the rather simple general idea or the more complex problem of the specific chemical formula embodies the invention.

It is too late to take the view that the invention lies in devising a specific sizing formula or formulas. The interference proceedings, as well as the previous ones by both parties in the Patent Office, and the trial were conducted throughout on the basis that the invention is embraced in the general idea. Both parties concede this, though each has departed for argumentative purposes from the necessary consequences of that fact at one stage or another of the proceedings. Thus, Abbott states in his brief:

"The gist of the invention is the coating of an elastic thread with a sizing composition in liquid form, the thread being either in stretched condition or relaxed condition as desired, so that when the coating hardens it forms a jacket around the thread and holds it in its then condition. The thread will therefore neither extend nor contract in the fabric-making operations . . . . Thereafter the coating is removed . . . preferably made of a sizing soluble in water or in soap and water so as to be removed during the usual finishing operations on the cloth."

His specification says:

"The size *may be of any suitable adhesive composition* of sufficient tenacity for the purpose indicated, but not destructive of the flexibility necessary for winding and weaving, and capable of subsequent removal, preferably by water." [Italics supplied.]

It then sets forth as "preferred compositions of size" the three specific formulas. But Abbott's most significant statement is in a letter to his atttorneys dated July 3, 1934:

"I do not think we need to go into the composition of the size at this time. We could merely describe it as a size made of starch, glucose, etc. making this application purely one on the process. Later on, *when we get some formulae which may present something of novelty*, we can make further application, if need be, on the composition of the size." [Italics supplied.]

The attorneys responded on August 30:

"We are not sure that it is safe to describe the size in the very general language employed in this draft of the application, for the reasons that the Patent Office or a court might hold that you had not adequately described a size suitable for use in the process. This would depend somewhat upon the question whether *most ordinary sizes* used for textile purposes would work satisfactorily in your process."[5] [Italics supplied.]

The letter went on to point out that if only certain sizes ordinarily used would work there was "some danger" of the application being rejected for insufficient disclosure or, if granted, later held invalid for this reason, and suggested inserting

"a brief description of one size which will work, by inserting after the general description of the size contained in the application the words, *'for example'* followed by a specification of one suitable size." [Italics supplied.]

On September 5, Abbott replied:

"We agree with you that it would be in order to define the particular kind of size used, but in a definite description."

Two days later he sent the three formulas to the attorneys, which they inserted in the application in the form stated above. None of Abbott's original fifteen claims includes a specific sizing formula, but all use general terms such as "applying size," "applying and hardening soluble substance thereon," "fixed by soluble adhesive," "including a soluble size," "including initially suppressing the inherent elasticity of the elastic yarns." Finally, the five counts set up in the interference proceeding were cast in equally general terms, "applying size thereto" or "to the yarn," "having a soluble size deposited thereupon," none specifying any particular formula or composition.

IV

Notwithstanding all this, Abbott still contends that Shepherd's disclosure of the invention is not sufficient to enable one skilled in the art to operate it, and therefore his filing of March 19, 1934, was not a constructive reduction to practice, a position apparently contrary to the one he took in the interference proceedings.[6]

Shepherd's provisional British application, which entitles him to the date of March 19, 1934, sets forth the difficulties of controlling the stretch of elastic or rubber threads caused by weaving and that the thread itself may vary in flexibility. It then states the object of the invention is

"to overcome this loss of control by coating the yarn, either in its natural relaxed condition or having a desired degree of stretch, with a suitable kind of soluble adhesive, such as glue, solutions of cellulose or the like, or a suitable varnish."

Application by coating, spraying or otherwise is specified, so as to impart a rigid or semirigid "set."

"The adhesive used,"

it is further stated,

"is preferably of such character that it will quickly dry or any artificial drying means may be used. . . . The thread or yarn having thus been coated . . . is then woven or knitted into a fabric. . . . Subsequently by a later process the adhesive coating is removed or otherwise eliminated by washing, dissolving or otherwise leaving the fabric with its original flexibility, or with the flexibility it should possess."

Shepherd's disclosure in his United States divisional application, so far as is material, was:

"The object of the invention is to so control the thread before and during weaving that it exerts no tension, that is to say, it is in a static condition, so as to thereby eliminate all irregular patches, lines or zones in the fabric. Another object . . . is to temporarily deprive the rubber thread of its elasticity to enable it to be conveniently worked, the elasticity being finally restored to it again, by and during the subsequent dressing, finishing and other operations necessary to completely finish the fabric. . . . In carrying the invention into effect the rubber thread *a* [referring to a drawing] is prepared in any suitable way. . . . A thread thus prepared may then be extended for weaving, knitting, lace making or any other purpose . . . , and the thread *a* is then coated either in its natural relaxed condition, or under any desired degree of stretch as above described, with a suitable kind of soluble adhesive as shown at 11 in the drawing. Such an adhesive coating which should be of a quick drying character may consist of glue, gelatine, a solution of cellulose, starch, wax, resin or the like or a suitable varnish. It may be applied by coating, spraying, painting or otherwise and the coating is then allowed to dry to such a degree as will impart to the thread a rigid or semi-rigid set so that the resulting thread will not possess the characteristic of extensibility but is deprived of its elasticity."

Then are described the succeeding steps of weaving or knitting and removal of the sizing "by being boiled or heat treated in any suitable way." One of Shepherd's claims is even more specific than Abbott's as to the nature of the sizing, namely, claim 2, which specifies "coating an elastic rubber thread with soluble material such as gelatine," though the others use more general language, "coated with soluble material," or "a suitable soluble material." It will be noted that the complete specification adds gelatine, starch, wax and resin "or the like," as "suitable adhesives," to the "glue, solutions of cellulose or the like, or a suitable varnish" mentioned in the provisional one.

The finding was clearly right that Shepherd's disclosure was sufficient and establishes a constructive reduction to practice as of March 19, 1934. In this the Examiner of Interferences, the Board of Appeals and the district court are agreed. The finding is correct first because the invention consists in the general idea, not in the specific formula or formulas for sizing. Shepherd clearly sets forth that idea. Further, it is one which, on the record, must be taken as capable of being made to work by one skilled in the art.

Abbott makes the contrary argument as follows,

"*No single substance* such as the Shepherd specifications prescribe would do the work,"

and relies upon Burke's "uncontradicted testimony" to that effect. [Italics supplied.] The argument and the testimony attempt to pin Shepherd down to what his disclosure does not require and what in fact Abbott himself does not require. This is use of each of the substances mentioned by way of example, singly and exclusively, without modification or combination in any degree with any other. Shepherd does not limit the coating to the substances he specifically mentions, nor does he require that they be used singly or in unmodified purity. The language of the provisional British specification is:

"a suitable kind of soluble adhesive, *such as* glue, solutions of cellulose or *the like*, or a suitable varnish."

[5] Cf. note 7 infra and text.

[6] The opinion of the Acting Examiner of Interferences states: "Abbott does not contend that the filing of this provisional specification does not constitute a constructive reduction to practice by Shepherd, but urges that it is overcome by his own priority proofs."

The coating is one which will impart to the fabric

"a rigid *or semi-rigid 'set'*, so that the resulting fabric or thread will be rendered inflexible *or semi-flexible*,"

and such as, subsequent to weaving or knitting, may be

"removed or otherwise eliminated by *washing*, dissolving *or otherwise* leaving the fabric with its original flexibility, or with the flexibility it should possess." [Italics supplied.]

The complete specification requires "a suitable kind of soluble adhesive," which should be "quick drying," but

"if necessary the drying can be accelerated by artificial drying means of any kind . . . may consist of glue, gelatine, solution of cellulose, starch, wax, resin or the like, or a suitable varnish . . . may be applied by coating, spraying or otherwise, . . . to such a degree as will impart to the thread a rigid or semi-rigid set," etc.

Both specifications obviously were drawn broadly with a view to the existing art in sizing, as well as in other respects, and were intended to leave to the artisan the selection of materials and methods known to the art to accomplish the specified results.[7] They designedly avoid limiting the process to particular or specified materials, methods of application and removal, or exact degrees of consistency or flexibility. Those mentioned are by way of illustration, example or general guide-post. They presuppose adaptability to different kinds of threads and fabrics.[8] The general characteristics of solubility, quick drying, rigid or semirigid set sufficient for holding the yarn without stretch in the loom or knitting machine are required. But room is allowed for play of the artisan's skill in selecting sizings which meet these conditions in particular machines and fabrics.

The reason for making the disclosure in these broad terms is obvious. It is that little or no protection would be afforded the inventor if the specification were limited to a single specific formula or to a few set forth with chemical accuracy. Such a patent would be almost worthless. That undoubtedly is why Abbott was unwilling, first, to specify any particular formula at all, second, to limit his disclosure to the three formulas he finally included on the advice of his attorneys. He wanted a patent which would cover his invention and do so adequately. Only one broad enough to cover the general idea could do this. One limited to his specific formulas could give him monopoly of only a very narrow segment of the field, leaving open to his competitors or the public by far the larger area of his conception. This he avoided by specifying the formulas as merely "preferred compositions of size." He too left room for the artisan's skill in his general and controlling specification quoted above. This, like Shepherd, told the artisan broadly to use his art in selecting the composition to accomplish the purpose specified. That Abbott added "preferred compositions" also to show specific methods of doing this, only one of which according to all of the evidence finally and completely satisfied his meticulous standards for detail, in no way nullifies the freedom he gave the artisan to apply others. Thus, Abbott's application by its very terms recognizes that the selection of specific materials and methods of application and removal are matters within the scope of the existing art. His letter of July 3, 1934, to his attorneys makes this more than conclusive. Language could not be stronger to annihilate his own argument that Shepherd's disclosure is not sufficient. The latter is entitled to the date of March 19, 1934, as one of constructive reduction to practice.

It may be added that, though Burke testified the particular substances mentioned by Shepherd, used separately, singly and unmodifiedly, would not do the work, neither he nor anyone else testified that no other compositions than Abbott's formulas would accomplish it. There was no evidence that successful compositions are not within the compass of the existing art or cannot be devised by persons skilled in it. The so-called "uncontradicted testimony" of Burke was therefore beside the point or, more accurately, wide of the mark.

V

It remains to consider Abbott's reduction to practice and diligence. From what has already been said, it is obvious that most of his work through Burke, namely, from some time in October, 1933, to May 25, 1934, was not necessary to reduce the invention to practice. The opposite might be true, if the invention had consisted in developing specific sizing formulas, except for one fact. That is that Burke developed his three general types of formula very early in his work, apparently in October, 1933. He found that all three would work experimentally. None was tried in actual weaving or knitting. But almost as soon as he found the general formulas, he stopped work on two of them, and concentrated thereafter upon refining the feature of flexibility in the dextrine type. This continued for nine months. But when the application was drawn and filed Abbott not only stamped all the formulas merely as "preferred compositions." He included the two upon which work had been finished the preceding October.

The significance of this is obvious. The casein and thymol-iodoform types are included as workable sizings. They were developed almost a year before Abbott's application was filed, nine months before

[7] During the interlocutory stage of the interference, Abbott moved to dissolve on the ground that Shepherd had no right to make the count. In denying the motion, the Primary Examiner ruled:

"It is held that in view of the well known use of sizes in the textile arts that the skilled artisan provided with the teachings of the Shepherd application could readily formulate the specific size required to produce the desired result without entering the realm of the inventor."

Commenting upon this, the Acting Examiner of Interferences said:

"In view of this holding in the case, it seems proper to accept the statement made on Shepherd's behalf before the Primary Examiner, 'that it is quite superfluous to refer specifically to the solutions suitable for rubber thread when bare or when covered' and it is obvious that if such details were not needed in Shepherd's disclosure, they correspondingly would not be needed in Abbott's."

Accordingly it was held in Abbott's favor and against Shepherd's contention that Burke, not Abbott, was the inventor, that Abbott had established conception in (June) 1933, a ruling obviously impossible if devising a specific sizing formula were not the work of the skilled artisan rather than invention. It may be noted again that these rulings coincide completely with Abbott's own views, as expressed in his letter to his attorneys of July 3, 1934.

[8] The opinion of the Board of Appeals states: "Each count [in the interference] definitely includes some limitation to the weaving or knitting yarn."

he pronounced the dextrine type satisfactory. In other words, the invention as such was completed in the fall of 1933. Thereafter there was refinement in a detail of one form of its application. This however was not essential to workability if, as Abbott's application necessarily implies, the other two formulas are workable. In short, if his evidence is accepted fully at face value, Abbott completed the invention in the fall of 1933, probably in October, but waited about nine months before instructing his attorneys to prepare and file his papers. During this time he was occupied busily with a nonessential refinement of one form of the invention's application, which he himself characterized in the letter of July 3, 1934, as not presenting anything of novelty.

One conclusion which might be drawn from these facts is that Abbott reduced his invention to practice in 1933. The Acting Examiner of Interferences made no ruling on this, since he regarded Abbott as having used reasonable diligence from just prior to March 19, 1934, to the date of his application. The Board of Appeals found the opposite on diligence, holding that Burke's work in refining the dextrine formula was not relevant to the counts of the interference. The opinion states,

"it appears that the particular size involved in this method is not critical"

and there was

"no indication of diligence from March 21, 1934 until May 29, 1934."

The Board also observed

"that it appears conclusive that none of Abbott [sic] or Burke's activities can be accepted as constituting a reduction to practice prior to Shepherd's record date of March 19, 1934."

This followed statements that Abbott had unlimited opportunity to proceed more directly and diligently

"in that he was president of, and apparently a large owner of interests in extensive textile industries"

and that

"it would be a matter at most of only a slight effort to size up and run through a loom some of the 'Lastex' yarns."

The district court's similar finding, set forth above, is based on like reasons. Although a contrary one might be sustained, in view of the invention's relatively simple nature and the testimony that actual demonstration was not necessary to confirm the experimental one, we cannot say that the finding made both by the Board of Appeals and by the district court was not supported by sufficient evidence or that it constituted an abuse of discretion. Accordingly the finding that Abbott had not reduced the invention to practice prior to March 19, 1934, must be sustained.

But if that finding were to the contrary, the record shows conclusively that the Board and the court were right in finding that Abbott did not exercise diligence. The Board's finding apparently was based solely on the ground that the evidence was legally insufficient for this purpose. The trial court's findings, numbers 17 and 18 set forth above, appear to be based both on this ground and on want of credibility in the evidence presented for Abbott. Accordingly it concluded that Abbott had

"failed to sustain the burden of proving by evidence which in character and amount carries thorough conviction, that the Board of Appeals erred in holding Shepherd to be the prior inventor and entitled to a patent for the invention in issue."

Credibility is largely for the trial court's determination. In this case the record is not such that we can say there was error in refusing to give full credence to the evidence favorable to Abbott. When account is taken of the comparatively simple character of the invention, its large reliance upon the prior art, the ease with which the basic problem was solved, and the early date at which this occurred, the evidence of long and exhaustive experiments upon a mere refinement of one phase of one formula for use in only one of many possible applications well might strain credulity. The strain is not lessened by the paucity of physical exhibits and laboratory notes or memoranda made during this long research. Research chemists are notably meticulous in this respect, especially when engaged in extensive and baffling projects. The character of the memoranda, especially in content and dating, as well as the volume, add to the doubt. In these respects the cases Abbott cites, upholding the credibility of testimony based largely on memory, are distinguishable.[9] The evidence with which they were concerned did not involve such inherent marks of untrustworthiness. Nor were the arguments drawn from it so wholly inconsistent as some presented here. On this basis alone, therefore, the finding concerning diligence could not be set aside.

But the case for Abbott would hardly be better if full credence had been given to all the evidence admitted on his behalf. The reasons for this have been stated. The principal one is that, after completing his invention, he delayed too long in refinement of a minor and nonessential detail of one application of his process, work which belonged to the artisan, not to the inventor. However necessary and convincing that activity might have been if the invention claimed had been in the specific formula it finally developed, in relation to the invention in issue it was at most an artisan's sidetrack where the inventor had no business to be when others were coming along the main line. Perfection of utility is to be encouraged.[10] But delay, while one is engaged only in what is already known to the art after the essential idea has been proved, is not that diligence which is required to secure priority in invention.

[2] The judgment is affirmed.

[9] *Storck* v. *Reichhelm*, 44 App. D. C. 438 (1916), 227 O. G. 365; *McAfee* v. *Gray*, 47 App. D. C. 237 (1918), 251 O. G. 675; *Lautenschlager* v. *Glaes* (1), 47 App. D. C. 443 (1918), 249 O. G. 1224; *Browning* v. *Johnson*, 50 App. D. C. 335, 271 Fed. 1017 (1921), 287 O. G. 785; *Bijur* v. *Bendix*, 52 App. D. C. 240, 285 Fed. 974 (1923), 308 O. G. 232; *Penn Oil Co.* v. *Vacuum Oil Co.*, 60 App. D. C. 96, 48 F.(2d) 1008 (1931). See also the authorities cited in note 2 supra.

[10] See note 2 supra.

Adjudicated Patent

(D. C. N. Y.) Cornell, Jr., patent, No. 2,025,973, for hollow wrought metal body and method of making same, claims 1 to 6 and 8 *Held* invalid and not infringed. *Cornell* v. *Chase Brass & Copper Co.*, 48 F. Supp. 979.

Disclaimers

1,899,821.—*Cecil J. Parker,* Baltimore, Md. CONTAINER. Patent dated February 28, 1933. Disclaimer filed April 21, 1943, by the assignee, *Crown Cork & Seal Company, Inc.*

Hereby enters this disclaimer to claims 1, 2, 3, 6, and 7 of said patent.

2,205,670.—*Harold C. Pye,* Oak Park, Ill. SOUND TRANSLATING DEVICE. Patent dated June 25, 1940. Disclaimer filed April 16, 1943, by the assignee, *Associated Electric Laboratories, Inc.*

Hereby enters this disclaimer to claims 1 and 2 in said specification.

2,208,211.—*John J. Crowe,* Westfield, N. J. VARIABLE-SPEED TORCH CARRIAGE. Patent dated July 16, 1940. Disclaimer filed April 16, 1943, by the assignee, *Air Reduction Company, Incorporated.*

Hereby enters this disclaimer to claims 1, 8, and 9 of said patent.

2,208,212.—*John J. Crowe,* Westfield, N. J. VARIABLE-SPEED TORCH CARRIAGE. Patent dated July 16, 1940. Disclaimer filed April 16, 1943, by the assignee, *Air Reduction Company, Incorporated.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 6, 10, and 11 in said patent.

2,252,588.—*Robert J. Whitesell,* Philadelphia, Pa. VITREOUS ENAMEL OPACIFIER. Patent dated August 12, 1941. Disclaimer filed April 17, 1943, by the assignee, *Röhm & Haas Company.*

Hereby enters this disclaimer to claim 1 of said patent.

2,257,677.—*Clayton Goodwin,* Denver, Colo. PRINTING TELEGRAPH SYSTEM. Patent dated September 30, 1941. Disclaimer filed April 17, 1943, by the assignee, *American Telephone and Telegraph Company.*

Hereby enters this disclaimer to claims 2, 3, and 4 of said patent.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 14, 1943.*

Jamestown Brewing Company, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Fox Head Waukesha Corporation, Waukesha, Wis., to effect the cancellation of trade-mark registration of Jamestown Brewing Company, Jamestown, N. Y., No. 305,465, dated August 15, 1933, and the notice of such proceeding sent by registered mail to the said Jamestown Brewing Company at the said address having been returned by the post office with the notation "Out of Business" endorsed thereon, notice is hereby given that unless said Jamestown Brewing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 22, 1943.*

James Hatsuto Yamada, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by James L. Younghusband, 30 West Hubbard Street, Chicago, Ill., to effect the cancellation of trade-mark registration of James Hatsuto Yamada, 1736 Divisadero Street, San Francisco, Calif., No. 277,432, dated Nov. 11, 1930, and communications addressed to said James Hatsuto Yamada at the above address and 1690 Post Street, San Francisco, Calif., having been returned by the post office as undeliverable, notice is hereby given that unless said James Hatsuto Yamada, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Changes in Classification

Order No. 3,716, April 20, 1943, directs:

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In *class 196, Mineral Oils* (Division 31), abolish the following subclass and its definition:

Mineral oils from hydrocarbon gases
10 Polymerizing of gas,

The patents formerly contained in this subclass have been placed for the most part in class 196, Mineral Oils, subclass 7 and indented subclasses, and class 260, Chemistry, Carbon Compounds, subclasses 671, 673, 683.1, 683.15, 683.4 and 683.6, the last three subclasses being established in this order.

In *class 260, Chemistry, Carbon Compounds* (Division 15), subclass 106, change the subclass title to read as follows:

Natural resins and reaction products
106 Pyrolytic or heat modified products (e. g., rosin oil)

In *class 260, Chemistry, Carbon Compounds* (Divisions 6, 15, 31, and 59), abolish the following subclasses and definitions:

Carbohydrates and derivatives
210 Glucosides (including pectins),
Heterocyclic carbon compounds
Azoles
Thiazoles
304 Benzothiazoles
Pyrrols
314 Intracyclic tetra-pyrryl (e. g., phthalocyanines),
Hetero-O-atom
334 Heavy metal or aluminum containing,
341 Polycarboxylic acid anhydrides (e. g., phthalic anhydride)
343 Purification or recovery,
Carbocyclic or acyclic
Fats, fatty oils, ester type waxes or higher fatty acids
Synthetically produced higher fatty esters
411 Glycerides,
Hydroxy
630 Terpenes
631 Menthols,
Halogenated hydrocarbons
Aromatic
650 Monocyclic
Hydrocarbons
Aromatic
673 From normally gaseous acyclic hydrocarbons,

The patents formerly contained in subclass 210 have been placed in class 260, subclass 209.5 established in this order and a subclass having the same number hereinafter established; those in subclasses 304, and 314 have been placed in new subclasses having the same numbers hereinafter established; those in subclass 334 have been placed in class 260, subclass 333 and indented subclasses; those in subclass 341 have been placed in a new subclass having the same number hereinafter established and subclasses 342.4, 342.5, and 342.6, established in this order; those in subclass 343 have been placed in class 260, Chemistry, Carbon Compounds, subclass 341 and indented subclasses; those in subclass 411 have been placed in class 260, Chemistry, Carbon Compounds, subclasses 410.7 and 410.8, established hereinafter; those in subclass 630 have been placed in class 260, Chemistry, Carbon Compounds, subclass 631.5, established in this order; and those in subclasses 631, 650, and 673 have been respectively placed in new subclasses having the same numbers, hereinafter established.

In *class 260, Chemistry, Carbon Compounds* (Divisions 6, 15, 31, 59, 63), establish the following subclasses and definitions; subclasses 209.5 and 210 in Division 15; subclasses 239.5, 239.6, 249.5, 295.5, 297.5, 304, 306.5, 306.6, 307.5, 309.5, 309.6, 314.5, 341, 342.4 to 342.6, 348.5, and 348.6 in Division 59; subclasses 402.5, 404.5, 404.8, 410.5 to 410.9 in Division 63; subclasses 449.5, 449.6, 631, 631.5 and 650 in Division 6; and subclasses 673, 673.5, 681.5, 683.15, 683.4, and 683.6 in Division 31.

Carbohydrates and derivatives
209.5 Pectins and reaction products,
210 Glycosides (e. g., glucosides),
Heterocyclic carbon compounds
239.5 Cyclopentanohydrophenanthrene nucleus containing,
239.6 Para-N-benzenesulfoxy-X (X=C or N),
Azines
Triazines
249.5 Extracyclic nuclear amino (e. g., melamine),
Six-membered rings containing one hetero-N-atom
Pyridines
Non-oxo carbonylic,
295.5 Beta-positioned (e. g., nicotinic acid),
Oxo or oxy
297.5 2-alkyl, 3-oxy, 4,5-di-oxyalkyl (e. g., vitamin B_6),
Azoles
Thiazoles
304 Arylenethiazoles
1-Thio
306.5 1-S to S linkage (persulfides),
306.6 1-S-nitrogenous radical,
Oxazoles,
307.5 Anthrone or anthraquinone nuclei,
Diazoles
309.5 2,4-di-C=X (X=O or S, e. g., hydantoin),
309.6 Imidazolines,
Pyrrols
314 Intracyclic tetra-pyrryl (e. g., porphyrins)
314.5 Phthalocyanines,
Hetero-O-atom
341 Polycarboxylic acid anhydrides
342.4 Condensation products of unsaturated acid anhydrides (e. g., diene synthesis),
342.5 Phthalic anhydride,
342.6 Anhydrides of acyclic polycarboxylic acids,
Intracyclic carbonyl-oxy (e. g., lactones)
344.5 Ascorbic acids (e. g., vitamin C),
344.6 Fused carbocyclic nucleus containing,
Epoxy (e. g., ethylene oxide)
348.5 By oxidation of olefines,
348.6 By dehalogenation,
Carbocyclic or acyclic
Fats, fatty oils, ester type waxes or higher fatty acids
Sulfur containing
402.5 Nitrogen containing,
Nitrogen containing
404.5 Poly-nitrogen containing,
404.8 Reaction products with polycarboxylic compounds,
Synthetically produced higher fatty esters
410.5 With phenols or aromatic alcohols,
410.6 With acyclic polyoxy alcohols
410.7 Glycerides
410.8 With non-higher-fatty monocarboxylic acid,
410.9 With acyclic monohydric alcohol,
Hydrogenation of carbon oxides and products thereof
449.5 Methanol synthesis,
449.6 Production of hydrocarbons (e. g., Fischer-Tropf synthesis),
Hydroxy
631 Cyclohexanols (including menthols),
631.5 Terpene derived,
Halogenated hydrocarbons
Aromatic
650 Less than 12 nuclear carbons,
Hydrocarbons
Aromatic
673 From acyclic hydrocarbons
673.5 Six or more carbons in molecule,
Acyclic
Unsaturated
Diolefines
681.5 Purification or recovery,
Olefines from hydrocarbons
By polymerization of olefines
683.15 Catalytic,
683.4 Alkylation or condensation,
683.6 With hydrogenation.

209.5. Compounds under subclass 209 which are pectins and reaction products thereof.

Search Class—
99—FOODS AND BEVERAGES, subclasses 132 and 133, for food compositions containing pectin.

210. Compounds under subclass 209 which are glycosides and their reaction products wherein the glycosidal nucleus is not destroyed, e. g., saponin, arbutin, digitoxin and nucleosides.
Search this class, subclasses—
209.5—for pectins.
473.5 and 473.6—for tannins, some of which are probably glucosides.

239.5. Compounds under subclass 239 which contain the cyclopentanohydrophenanthrene nucleus.
Search this class, subclasses—
210—for steroid glucosides, e, g., digitalis glucosides.
397—and indented subclasses, for non-heterocyclic cyclopentanohydrophenanthrene compounds.

239.6. Compounds under subclass 239 which contain the grouping para-nitrogen-benzene-sulfoxy-X (X=C or N).
Note.—this subclass includes, for example, compounds known as sulfa drugs, e. g., sulfathiazole and sulfapyridine.
Search this class, subclasses—
397.6 and 397.7—for non-heterocyclic compounds having the grouping para-N-benzene-sulfoxy-X (X=C or N).

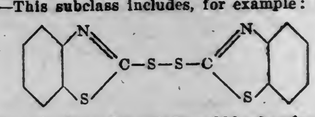
249.5. Compounds under subclass 248 containing an amino group bonded to a nuclear carbon of the triazine nucleus.
Note.—This subclass includes, for example, melamines, and guanamines.

295.5. Compounds under subclass 295 which contain a non-oxo carbonylic group bonded to a nuclear carbon in the beta position, e. g., nicotinic acid or amides thereof.

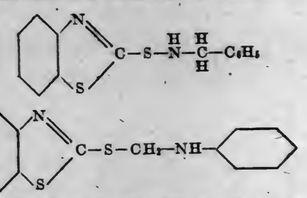
297.5. Compounds under subclass 297 which are 2-alkyl, 3-oxy, 4,5-di-oxyalkyl pyridines.
Note.—This subclass includes, for example, vitamin B_6.

304. Compounds under subclass 302 which contain a thiazole nucleus fused to a benzene ring at two ortho-positioned nuclear carbons thereof which benzene ring may have other rings fused thereon, e. g., naphthothiazole.
Note.—this subclass includes, for example, dehydrothiotoluidine.
Search this class, subclass—
785—and indented subclasses, for thiazoles employed as rubber accelerators.

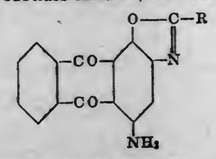
306.5. Compounds under subclass 306 wherein the sulfur atom is directly bonded to another sulfur atom.
Note.—This subclass includes, for example:



306.6. Compounds under subclass 306 wherein the sulfur atom is further bonded to N or to a radical containing N.
Note.—This subclass includes, for example:

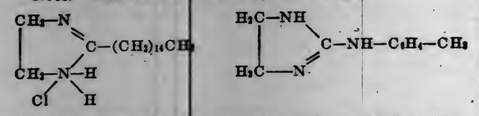


307.5. Compounds under subclass 307 which contain an anthrone or anthraquinone nucleus or leuco forms.
Note.—This subclass includes, for example:



309.5 Compounds under subclass 309 which are 1,3-diazoles containing the ring C's in the 2,4-positions doubly bonded to either O or S, that is, present as keto or thione groups.
Note.—This subclass includes, for example, hydantoin, thiohydantoin and allantoin.

309.6. Compounds under subclass 309 which are 1,3-diazoles containing only one double bond in the diazole ring, i. e., dihydroimidazoles or dihydroglyoxalines.
Note.—This subclass includes, for example:

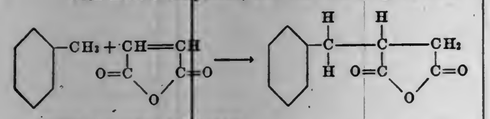


314. Compounds under subclass 313 containing four pyrrole nuclei linked together in a great ring.
Note.—This subclass includes, for example, chlorophyll and bilirubin.

314.5. Compounds under subclass 314 known as phthalocyanines.

341. Compounds under subclass 333 wherein two carbonyl groups are bonded to the same oxygen atom, whereby an oxygen ring is formed.

342.4. Compounds under subclass 341 which are formed by the condensation of unsaturated polycarboxylic anhydrides through the doubly bonded carbons (i. e., —C=C—) to the carbons of other carbon compounds.
Note.—This subclass includes, for example, compounds containing the anhydride ring formed by the diene synthesis (Diels-Alder reaction), e. g., butadiene with maleic anhydride, and the following reaction:

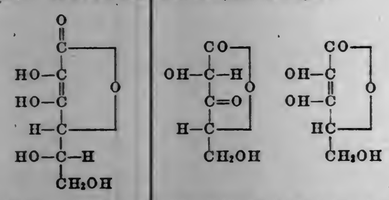


Search this class, subclasses—
22—for alkyd resins made with adducts of maleic anhydride or similar acting anhydride and drying oils or acids thereof.
102—for adducts of maleic anhydride with terpene and natural resins.
404.8—for adducts of maleic acid and drying oils or acids therefrom as well as adducts of maleic anhydride and drying oils which are hydrolyzed to form the free acid.
514—for adducts of conjugated dienic compounds, e. g., butadiene and maleic acid.

342.5. The definite compound under subclass 341 known as phthalic anhydride.
Note.—This subclass includes, for example, processes of preparing phthalic anhydride other than by the oxidation of aromatic compounds which is found in subclass 342, processes of purifying the same and phthalic anhydride products having particular physical forms.

342.6. Compounds under subclass 341 which are anhydrides of aliphatic polycarboxylic acids, e. g., maleic anhydride.
Search this class, subclass—
342—for the preparation of aliphatic polycarboxylic anhydrides by the oxidation of aromatic compounds, e. g., maleic by the catalytic oxidation of benzene.

344.5. Compounds under subclass 344 known as ascorbic acids or which contain the characteristic nucleus of the ascorbic acids.
Note.—This subclass includes, for example:



344.6. Compounds under subclass 344 wherein a carbocyclic nucleus, e. g., aryl or hydroaryl, is fused with the lactone ring.
Note.—This subclass includes, for example, coumarin, phthalide and benzotetronic acid.

348.5. Processes under subclass 348 wherein an epoxy group is formed by the direct oxidation of olefines.

348.6. Processes under subclass 348 wherein an epoxy group is formed by the dehalogenation of halogen compounds, e. g., chlorhydrins.

402.5. Compounds under subclass 309 which contain nitrogen.

404.5. Compounds under subclass 404 which contain two or more atoms of nitrogen in a molecule thereof.
Note.—This subclass includes, for example, polyamino, polynitro, and nitro-amino compounds.

404.8. Compounds under subclass 398 which are formed by the reaction (e. g., condensation or esterification) of a higher fatty acid or compound thereof with a polycarboxylic compound.
Note.—This subclass includes, for example, compounds formed by condensing drying oils or acids thereof with maleic acid (or anhydride when the oxygen ring is subsequently destroyed), which reaction is known as the Diels-Alder or diene synthesis, and the reaction product of castor oil and a polycarboxylic acid or anhydride where there is no evidence of cleavage of the oil into the component acid and glycerol whereby an alkyd resin is formed.
Search this class, subclasses—
22—for alkyd resins formed by reacting maleic acid adducts of drying oils or acids thereof with polyhydric alcohols.
342.4—for condensation products of drying oils or acids thereof and polycarboxylic anhydrides wherein the oxygen ring is not destroyed,
514—for adducts of dienic compounds and maleic acid.

410.5. Compounds under subclass 410 which are identical in structure with those compounds formed by esterifying a higher fatty acid with a phenol or an aromatic alcohol.
Search this class, subclasses—
479 and **480**—for phenol esters of acyclic carboxylic acids other than higher fatty acids.

410.6. Compounds under subclass 410 which are identical in structure with those formed by replacing the OH of an acyclic polyoxy alcohol by a higher fatty acid radical. By "polyoxy alcohol" is meant an alcohol which in addition to an alcoholic OH contains at least one other oxy group, that is, "O—X" where X may be H, organic radical or metal.
Note.—This subclass includes, for example, higher fatty acid esters of glycols, monoalkyl ethers of glycols and polyglycerols.

410.7. Compounds under subclass 410.6 which are glycerides of higher fatty acids.
Note.—This subclass includes, for example, glycerides made by reacting glycerine or functional derivative thereof with a higher fatty acid or functional derivative thereof, as well as mono- or diglycerides made by reacting a naturally occurring triglyceride with glycerine.
Search this class, subclass—
410.6—for higher fatty acid esters of polyglycerols.

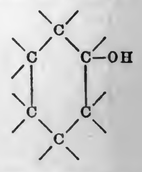
410.8. Compounds under subclass 410.7 which also contain a monocarboxylic acid radical other than that of a higher fatty acid.
Note.—This subclass includes, for example, mixed esters formed by replacing in a glyceride a naturally occurring fatty acid radical by a carboxylic acid radical not of the higher fatty acid type.

410.9. Compounds under subclass 410 which are identical in structure with compounds formed by esterifying a higher fatty acid with an acyclic monohydric alcohol.
Note.—This subclass includes, for example, ethyl stearate.
Search this class, subclasses—
404.8—for esters of maleic acid adducts of drying oils or acids thereof.
405—for esters formed by acylating a hydroxy group present in a higher fatty acid radical, e. g., castor oil or acids thereof or hydroxystearic acid.

449.5. Processes under subclass 449 which produce methanol.

449.6. Processes under subclass 449 wherein (1) the reaction products are essentially hydrocarbons, or (2) the chemical nature of the products is not stated but a catalyst of the 8th group of the periodic table (e. g., iron, cobalt, and nickel) is employed.

631. Compounds under subclass 617 which contains the nucleus



Note.—This subclass includes, for example, cyclohexanol and menthol.

631.5. Compounds under subclass 617 which are derived from terpenes.

Note.—This subclass includes, for example, borneol, terpin hydrate, terpineol, geraniol, fornesol and linalool.
Search this class, subclasses—
333—for cineol and eucalyptol.
631—for menthol.

650. Compounds under subclass 649 having less than twelve nuclear carbon atoms in the molecule.
Note.—This subclass includes, for example, halogenated compounds of the benzene, indene or naphthalene series having no further carbocyclic rings substituted or fused thereon.

673. Processes under subclass 668 directed to the conversion of acyclic hydrocarbons to aromatic hydrocarbons.
Note.—This subclass includes, for example, processes utilizing normally gaseous hydrocarbons, e. g., the pyrolysis of methane and methane-containing gases, e. g., natural or refinery gas, to produce benzene or other aromatic hydrocarbons.
Search this class, subclasses—
671—for processes of preparing alkylated aromatic hydrocarbons by treatment of a mixture containing aromatic hydrocarbons and olefines to effect condensation therebetween. The mixture may be formed by the controlled pyrolysis and/or condensation of lower hydrocarbons.
679—for similar processes employing normally gaseous hydrocarbons but which are controlled to yield primarily acetylene.
683.1 and **683.15**—for other processes employing lower hydrocarbons, that is, hydrocarbons having 5 or less carbons in the molecule, but which are controlled to produce olefine hydrocarbons. The line between these subclasses and subclass 673 in regard to processes for pyrolysing (cracking) and/or condensing lower hydrocarbon mixtures to form oily products, when the chemical constitution of the reaction product is not stated, is that patents covering such processes are placed in subclasses 683.1 and 683.15 unless it is clear that aromatic hydrocarbons are formed in which case they are placed in subclass 673. To complete a search for such processes, subclasses 673, 683.1, and 683.15 should therefore be investigated.

673.5. Processes under subclass 673 wherein the hydrocarbons employed as starting materials contain 6 or more C's in the molecule.
Note.—This subclass includes, for example, the ring closing (cyclization) of acyclic hydrocarbons, e. g., the production of benzene from hexane.

681.5. Processes under subclass 680 directed to the purification, separation or recovery of diolefines.

683.15. Processes under subclass 683.1 wherein polymerization is promoted by a catalyst which is significantly claimed, such as, for example, by its chemical or physical characteristics or a particular mode of use. A mere reference to "catalyst", "polymerization catalyst", or "polymerizing conditions" is not enough to take a patent into this subclass.
Search Class—
252—COMPOSITIONS, subclass 195 and indented subclasses for catalysts, per se.

683.4. Processes under subclass 676 wherein saturated acyclic hydrocarbons are produced by introducing an alkyl group into a hydrocarbon molecule.
Note.—This subclass includes, for example, the production of a higher paraffin hydrocarbon (e. g., isooctane) by condensing a lower olefine (e. g., butene) with a lower paraffin (e. g., iso-butene), and alkylation of paraffin hydrocarbon by means of alkyl halides.
Search this class, subclasses—
671—for alkylation of aromatic hydrocarbons.
683.6—for polymerization of olefines associated with hydrogenation of the polymerizate.

683.6. Processes under 676 utilizing hydrogenation for the production of saturated acyclic hydrocarbons.

The patents in subclasses 209.5 and 210 have been taken from class 260, subclass 210, abolished and reestablished in this order; those in subclasses 239.5 and 239.6 have been taken from class 260, subclass 239 and indented subclasses; those in subclass 249.5 have been taken from class 260, subclass 248; those in subclass 295.5 have been taken from class 260, subclass 295; those in subclass 297.5 from class 260, subclass 297; those in subclass 304 from class 260, subclass 304, abolished and reestablished in this order; those in subclasses 306.5 and 306.6 from class 260, subclass 306; those in subclass 307.5 from class 260, subclass 307; those in subclasses 309.5 and 309.6 from class 260, subclass 309; those in subclass 314 and 314.5 from class 260, subclass 314, abolished and reestablished in this order; those in subclasses 341, 342.4, 342.5, and 342.6, from class 260, subclass 341, abolished and reestablished in this order and subclass 343 abolished in this order; those in subclasses 344.5 and 344.6 from class 260, subclass 344; those in subclasses 348.5 and 348.6 from class 260, subclass 348; those in subclass 402.5 from class 260, subclass 399; those in subclass 404.5 from class 260, subclass 404; those in subclass 404.8 from class 260, subclass 405; those in subclasses 410.5 to 410.9 from class 260, subclasses 405, 410, and 411, the last mentioned being abolished in this order; those in subclasses 449.5 and 449.6 from class 260, subclass 449; those in subclass 631 from class 260, subclasses 617, and 631, the latter subclass being abolished and reestablished in this order; those in subclass 631.5 from class 260, subclass 630 abolished in this order; those in subclass 650 from class 260, subclass 650 abolished and reestablished in this order; those in subclass 673 from class 260, subclass 673 abolished and reestablished in this order and class 196, subclass 10, abolished in this order; those in subclass 673.5 from class 260, subclass 668; those in subclass 681.5 from class 260, subclass 680; those in subclass 683.15 from class 260, subclass 683.1, and class 196, subclass 10, abolished in this order; those in subclasses 683.4 and 683.6 from class 260, subclass 676 and class 196, subclass 10, abolished in this order.

In *class 15, Brushing, Scrubbing, and General Cleaning* (Division 27), subclass 104.03, under "(3) Search Classes", add:

294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 86 and indented subclasses, for grapples of general application.;

and in subclass 104.30, add:

(5) Note.—See class 294, HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 86 and indented subclasses, for grapples of general application.

In *class 23, Chemistry* (Division 59), subclass 2, add the following note:

(3.5) Note.—See class 196, MINERAL OILS, subclasses 27, 28, and 36, for the purification of vaporized mineral oils or fractions thereof.

In *class 44, Fuel and Igniting Devices* (Division 64), subclass 54, note (2), change "449 and 450" to *449 to 450*; in subclass 72, note (1), "nitrade" should be *nitrate*.

In *class 99, Foods and Beverages* (Division 63), subclass 133, note (3), change "210" to *209.5*.

In *class 196, Mineral Oils* (Division 31), main class definition, rewrite note (2) as follows:

(2) Note.—Class 260, CHEMISTRY, CARBON COMPOUNDS, is the generic class for carbon compounds and takes processes of preparing and treating hydrocarbons including mixtures thereof resulting from a synthesis, not more specifically provided for in some other main class. Class 260 takes the chemical conversion, e. g., pyrolysis and/or condensation of lower hydrocarbons, that is, hydrocarbons having 5 or less carbon atoms in a molecule thereof, including mixtures consisting essentially of lower hydrocarbons which are of natural origin (e. g., natural gas) as well as those which result from a chemical treatment (e. g., refinery gas) or a fractionation step even though in each case an oily liquid may be formed. The treatment of higher acyclic mineral oil hydrocarbons to form oily liquids, the condensation of higher hydrocarbons of mineral oil origin with lower hydrocarbons, and the blending of mineral oils with oily products produced by the conversion of lower hydrocarbons are in this class (196). Class 260 also includes, in subclass 449.6 thereof, processes for producing hydrocarbons by the hydrogenation of carbon oxides, e. g., Fischer-Tropf synthesis.;

in subclass 7 in the definition thereof, after "art", add:

and include more than the conversion, e. g., pyrolysis and/or condensation of lower acyclic hydrocarbon mixtures (5 or less C's in molecule);

in note (2) under "Search Classes", insert the following reference:

260—CHEMISTRY, CARBON COMPOUNDS, subclass 676 and indented subclasses, particularly subclasses 673 and 683 to 683.6, for reactions of lower acyclic hydrocarbons including naturally occurring mixtures thereof or mixtures resulting from a synthesis or fractionation even though an oily liquid is produced.

In *class 206, Special Receptacles and Packages* (Division 27), subclass 0.5, under "Search Classes" cancel the reference to class 23.

In *class 210, Liquid Separation or Purification* (Division 49), subclass 53, in the note, change "83, Mills" to *209, Classifying, Separating and Assorting Solids.*

In *class 248, Supports* (Division 52), main class definition, note (1), at the end of the paragraph, add the following sentence:

Also subclass 361 and indented subclass of this class (248) includes holddowns as there defined for both single and plural articles.;

in subclass 95, in note (1) change "36" to *94*;

and in subclass 361 at the end of the definition, add:

(0.5) Note.—The claim may include the shelf or base upon which the article and holddown are mounted, which base may carry the weight of the article.

In *class 260, Chemistry, Carbon Compounds* (Divisions 6, 15, 31, 43, 50, 59, 63), in subclass 93, note (2), last sentence of first paragraph, change "and 681" to *681 and 681.5*, after "683", add *and indented subclasses*;

in subclass 94, cancel the notes to the definition thereof and substitute:

Search this class, subclasses—

79—for products made by sulfurizing olefines or derivatives thereof, e. g., ethylene dihalide.

82—for polymerization of olefines present in cracked petroleum distillates.

673, 683.1, and **683.15**—for polymerization of olefines to non-resinous products.;

in subclass 236.6, note (2) change "630" to *631.5*;

in subclass 295, cancel "and nicotinic.";

in subclass 306, cancel the first formula;

in subclass 307, cancel the second formula;

in subclass 309, cancel "and hydantoins.";

in subclass 344, cancel "e. g. . . . ellagic acid.";

in subclass 397, cancel the note and substitute:

Search this class, subclasses—

210—for steroid glucosides, e. g., digitalis glucosides.

239.5—for cyclopentanohydrophenanthrene compounds containing a heterocyclic nucleus.

Search Class—

167—MEDICINES, POISONS, AND COSMETICS, subclass 74, for the extraction of sex hormones from sources of animal origin.;

in subclass 397.6, number the existing note (*1*) and add:

(2) Note.—See this class, subclass 239.6, for heterocyclic compounds containing the grouping, para-nitrogen-benzene-sulfoxy-X (X=C or N).;

in subclass 405, cancel the definition and note and substitute:

405. Products under subclass 398 resulting from the introduction of an acyl group (R—CO) into a higher fatty acid radical of a fat, fatty oil, ester-type wax or higher fatty acid compound.

Note.—This subclass includes, for example, acetylated ricinoleic acid or castor oil.

Search this class, subclasses—

404.8—for maleic acid condensation products (adducts) of drying oils or acids thereof.

410.3 and **410.4**—for esters formed by esterifying a hydroxy group present in the glyceryl radical or by exchanging an acyl radical for one already present in a glyceride.;

in subclass 410, in the definition, cancel "e. g., ethyl stearate", and the note, and add:

Search this class, subclasses—

402.5, 404, and **404.5**—for esters made with alkylolamines.

404.8—for esters made with polycarboxylic acids or compounds thereof.

405—for esters formed by introducing an acyl group into a higher fatty acid radical.;

in subclass 449, in the definition, cancel the last sentence;

in subclass 537, in the note, after "subclasses" insert *particularly subclass 404.8*;

in subclass 615, cancel (cellosolve);

in subclass 617, cancel the note;

in subclass 632, note (1), change "449" to *449.5*;

in subclass 666, note (6), change "449" to *449.6*;

in subclass 679, cancel notes (1) and (2) to the definition thereof, and substitute:

Search this class, subclasses—

673—for pyrolytic treatments of lower hydrocarbons to produce aromatic hydrocarbons.

683.1 and **683.15**—for similar pyrolytic treatments when the production of olefines is claimed or the disclosure is silent as to the chemical nature of the resulting product and it is not clear that aromatic hydrocarbons are formed.

Search Classes—

48—GAS, HEATING AND ILLUMINATING, for the preparation of acetylene from carbides by decomposition with water.

183—GAS SEPARATION, particularly subclass 115, for processes of purifying or separating acetylene from mixtures with other gases not involving chemical action.;

in subclass 683, cancel note (3);

in subclass 683.1, cancel the note and substitute:

Note.—This and the indented subclass include, for example, the production of oily liquids, usually adapted for use as fuels or lubricants, by the polymerization of lower olefine mixtures whether or not the olefines are produced in situ by the cracking of lower hydrocarbons. Processes of polymerizing olefines wherein the source or production of the olefines is broadly claimed are also included.

Search this class, subclasses—

671—for processes for alkylating aromatic hydrocarbons by condensing them with olefines.

673—and the notes to the definition thereof, for the line between said subclass (673) and this subclass in regard to processes for the pyrolytic conversion of lower hydrocarbons.

683.6—for processes which claim the polymerization of olefines or unsaturated hydrocarbons followed by hydrogenation to form saturated hydrocarbons.

Search Class—

196—MINERAL OILS, subclass 7, and indented subclasses, for mineral oils prepared by admixing (blending) or chemically combining a mineral oil or fraction thereof with lower (usually normally gaseous) hydrocarbon mixtures or conversion products thereof; and subclass 78 for similar processes applied to olefine containing liquid mineral oil fractions.;

in subclass 683.3, under "Search this class, subclass", insert:

683.1 and **683.15**—for dehydrogenation (e. g., cracking) associated with polymerization of the olefines so produced.;

in subclass 687, in note (1), insert *348.5*;

in subclass 695, cancel the notes to the definition and substitute:

Search this class, subclasses—

80—and indented subclasses, for synthetic resin forming polymerization processes.

407—for the polymerization of fatty oils or acid thereof.

683.1 and **683.15**—for the polymerization of olefines.

Search Class—

196—MINERAL OILS, appropriate subclasses, for processes of producing mineral oils by cracking and/or polymerization of normally liquid hydrocarbon mixtures.;

and in subclass 788, change "305" to *306.6*.

In *class 294, Handling—Hand and Hoist-Line Implements* (Division 4), in the definition of subclass 68, after "with", add *hand or*;

in subclass 86, under "(2) Search Classes", at the end of the reference to class 15, Brushing, Scrubbing, and General Cleaning, add:

especially subclass 104.30 for the combination of a grapple and a flexible linkage organized to grasp obstructions inside a tortuous conduit.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 18, 1943

[VOL. 550. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 448,157. LOCKPORT COTTON BATTING CO., Lockport, N. Y. Filed Oct. 27, 1941.

SNOW MAN

FOR COTTON BATTING OR COTTON BATTS.
Claims use since Jan. 10, 1941.

Ser. No. 458,544. NEWPORT INDUSTRIES, INC., Pensacola, Fla. Filed Feb. 15, 1943.

ZINAR

FOR SOLID ZINC-TREATED ROSIN.
Claims use since Nov. 21, 1940.

Ser. No. 459,127. NEWPORT INDUSTRIES, INC., Pensacola, Fla. Filed Mar. 15, 1943.

NUROZ

FOR POLYMERIZED OR PARTIALLY POLYMERIZED ROSIN.
Claims use since Nov. 15, 1938.

CLASS 2

RECEPTACLES

Ser. No. 458,676. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed Feb. 22, 1943.

V...-Tex

FOR COTTON FABRIC BAGS OF LOW COUNT WEAVE.
Claims use since Dec. 18, 1942.

Ser. No. 459,568. INTERNATIONAL PLASTIC CORPORATION, Morristown, N. J. Filed Apr. 1, 1943.

filmonize

FOR TAPE DISPENSERS.
Claims use since Nov. 4, 1942.

Ser. No. 459,573. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn. Filed Apr. 1, 1943.

TUCK-AWAY

FOR HOSE REELS.
Claims use since Jan. 13, 1943.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 451,220. BEACH SOAP COMPANY, Lawrence, Mass. Filed Feb. 26, 1942.

COLDSPRAY

FOR SOAP.
Claims use since May 5, 1937.

Ser. No. 451,221. BEACH SOAP COMPANY, Lawrence, Mass. Filed Feb. 26, 1942.

WHITE LABEL

Applicant disclaims exclusive use of a white colored label apart from the mark.
FOR SOAP.
Claims use since Jan. 15, 1934.

Ser. No. 457,456. CHARLES M. ADDIS, doing business as Refiners Lubricating Company, New York, N. Y. Filed Dec. 17, 1942.

SOL-SPEEDI-DRI

The words "Speedi-Dri" are disclaimed apart from the mark.

FOR CLEANING MATERIAL HAVING OIL AND WATER ABSORBENT AND FIRE PREVENTIVE PROPERTIES.

Claims use since Sept. 28, 1942.

Ser. No. 457,752. ROMAN CLEANSER CO., Detroit, Mich. Filed Jan. 4, 1943.

ROMAY

FOR CLEANER FOR PAINTED WALLS, WOODWORK, LINOLEUM, TILE, PORCELAIN, VENETIAN BLINDS, REFRIGERATORS, STOVES AND FURNITURE.

Claims use since Dec. 1, 1942.

Ser. No. 458,589. EVANGELINE PRODUCTS, INC., Brooklyn, N. Y. Filed Feb. 17, 1943.

WINGS

FOR SHOE DRESSINGS AND SHOE POLISHES.

Claims use since Jan. 14, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 450,177. DERMETICS, INC., Seattle, Wash. Filed Jan. 13, 1942.

KAH - LAY

FOR COSMETIC APPLICATORS AND ROUGE APPLICATORS OR PUFFS, HAVING A FABRIC PORTION IMPREGNATED WITH POWDER AND ROUGE TO BE RUBBED OR PATTED ON THE SKIN.

Claims use since Nov. 7, 1941.

Ser. No. 453,009. B. MARGHRETTA JONES, Chicago, Ill. Filed May 14, 1942.

DOZITAL

FOR HAIR PREPARATION FOR USE AS A TOILET PREPARATION TO BE APPLIED TO HUMAN HAIR.

Claims use since Dec. 2, 1940.

Ser. No. 455,908. THE COUNTY PERFUMERY COMPANY, INC., Bloomfield, N. J. Filed Oct. 2, 1942.

BRYLCO

FOR BRILLIANTINE.

Claims use since July 9, 1942.

Ser. No. 457,687. REVERIE INC., New York, N. Y. Filed Dec. 31, 1942.

BABY-LAN

The word "Baby" is disclaimed as apart from the mark.

FOR LANOLIN CREAM PREPARATION FOR RELIEF OF CHAPPING, CHAFING, PRICKLY HEAT, DIAPER RASH, URINE SCALD, AND FOR THE PREVENTION OF WINDBURN, SUNBURN, OR FROST BITE, ROUGH, CHAPPED, OR DRIED SKIN, TO BE USED FOR BABIES AND ADULTS.

Claims use since Dec. 14, 1942.

Ser. No. 458,685. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo. Filed Feb. 22, 1943.

E. W. Grove

Trade-mark consists of the facsimile signature of E. W. Grove, deceased.

FOR MEDICINAL TABLET FOR THE RELIEF OF COLDS, SIMPLE HEADACHES AND NEURALGIA, AND VITAMIN CAPSULES.

Claims use since Feb. 1, 1893.

Ser. No. 459,170. ERNEST D. FEAR, Kansas City, Mo. Filed Mar. 17, 1943.

SAY-LAC

FOR MIXTURE COMPRISING DEXTROSE, LACTOSE, CAROTENE, CALCIUM OXIDE, MAGNESIUM OXIDE, COMPOUNDS OF SODIUM AND POTASSIUM, AND OTHER CHEMICAL INGREDIENTS, WHICH MIXTURE IS USED TO INCREASE THE MINERAL CONTENT IN THE PROCESSING OF MILK AND IN THE CONFECTION OF ICE CREAM.

Claims use since Mar. 3, 1943.

Ser. No. 459,171. ERNEST D. FEAR, Kansas City, Mo. Filed Mar. 17, 1943.

SORBETTA

FOR MIXTURE COMPRISING DEXTROSE, LACTOSE, CAROTENE, CALCIUM OXIDE, MAGNESIUM OXIDE, COMPOUNDS OF SODIUM AND POTASSIUM, AND OTHER CHEMICAL INGREDIENTS, WHICH MIXTURE IS USED TO INCREASE THE MINERAL CONTENT IN THE PROCESSING OF MILK AND IN THE CONFECTION OF ICE CREAM.

Claims use since Mar. 5, 1943.

Ser. No. 459,266. FRED S. HIRSCH, doing business as Innerclean Co., Los Angeles, Calif. Filed Mar. 22, 1943.

INNERLAX

FOR LAXATIVE.

Claims use since Mar. 4, 1943.

Ser. No. 459,289. A. H. ROBINS COMPANY, INC., Richmond, Va. Filed Mar. 23, 1943.

HI-PO-VITA

FOR MULTIPLE VITAMIN PREPARATION.

Claims use since Mar. 15, 1942.

Ser. No. 459,343. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Mar. 25, 1943.

DYNEX

FOR MULTIPLE VITAMIN PRODUCT.

Claims use since Mar. 22, 1943.

Ser. No. 459,446. UNITED GILSONITE LABORATORIES, Scranton, Pa. Filed Mar. 27, 1943.

E-JECT-O

FOR CHEMICAL DRAIN PIPE SOLVENT.

Claims use since June 1, 1933.

Ser. No. 459,455. WARWICK CHEMICAL COMPANY, West Warwick, R. I. Filed Mar. 27, 1943.

WARCOPEL

FOR WATER REPELLENT COMPOUNDS FOR TEXTILES AND OTHER FIBROUS MATERIALS.

Claims use since Jan. 17, 1942.

Ser. No. 459,500. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill. Filed Mar. 29, 1943.

Staleymone

FOR PLANT GROWTH PROMOTING SUBSTANCES HAVING CHARACTERISTICS OF WHAT ARE COMMONLY KNOWN AS CHEMICAL HORMONES.

Claims use since Jan. 27, 1943.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 443,870. AUTOMATIC PRODUCTS COMPANY, Milwaukee, Wis. Filed May 24, 1941.

TRAP-IT

FOR STRAINERS USED IN LIQUID SYSTEMS SUCH AS REFRIGERATION AND WATER SYSTEMS.

Claims use since Jan. 25, 1940.

Ser. No. 458,382. JOHN C. ZIEGLER, Weslaco, Tex. Filed Feb. 6, 1943.

THE WONDER WATERLESS EGG POACHER



Applicant disclaims the words "Waterless Egg Poachers" and the representation of the egg apart from the mark.

FOR EGG POACHERS—NAMELY, COMBINATION RECEPTACLES FOR SEPARATELY HOLDING EGGS AND WATER.

Claims use since Apr. 28, 1942.

Ser. No. 458,403. PACIFIC HUTS, INC., Seattle, Wash. Filed Feb. 8, 1943.

PACIFIC HUT

The word "Hut" is disclaimed apart from the mark.

FOR NUTS, BOLTS, DRIVE CLIPS, METAL TIE PLATES, METAL TIE BARS, ANCHOR PLATES, SCREWS, HINGES.

Claims use since Aug. 15, 1942.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,259. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y. Filed Mar. 22, 1943. Under 10-year proviso.

DURKEE

FOR SHIP ANCHORS.

Claims use since 1870.

CLASS 15

OILS AND GREASES

Ser. No. 456,687. PACIFIC PRODUCTS CORPORATION, Seattle, Wash. Filed Nov. 7, 1942.

BAR-DOL

FOR OILY LUBRICANTS FOR MACHINERY AND

ENGINE BEARINGS FOR USE UNDER HIGH PRESSURE TO PREVENT OVERHEATING AND WEAR, AND LUBRICATING GREASES FOR SIMILAR PURPOSES FOR USES UNDER EXTREME PRESSURES.
Claims use since May 9, 1940.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 455,046. CLYDE D. CHAPMAN, doing business as Blucolite Company, Spokane, Wash. Filed Aug. 22, 1942.

BLUCOLITE

FOR LIQUID CLEANING, GLAZING, AND POLISHING MATERIAL FOR AUTOMOBILES, FURNITURE, HARDWOOD FLOORS, AND OTHER FINISHED SURFACES.
Claims use since Mar. 1, 1941.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 455,226. CHARLES & CO., INC., New York, N. Y. Filed Sept. 1, 1942.

BON VOYAGE

FOR SMOKING TOBACCO.
Claims use since Mar. 16, 1917.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 444,741. RCA MANUFACTURING COMPANY, INC., Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware. Filed June 21, 1941.

RCA

FOR ELECTRICALLY OPERATED VACUUM CLEANERS, FACSIMILE TRANSMITTERS, FACSIMILE RECEIVERS, RADIO COMPASSES, TELEVISION TRANSMITTERS, TELEVISION RECEIVERS, TWO-WAY RADIO TELEPHONES, RADIO DIRECTION FINDERS, PARTS THEREOF, ATTACHMENTS THERETO, AND ACCESSORIES THEREFOR.
Claims use on electrically operated vacuum cleaners since May 14, 1941; on facsimile transmitters and facsimile receivers since October 28, 1938; on radio compasses since May, 1937; on television transmitters since May 17, 1937; on television receivers since Mar. 29, 1937; on two-way radio telephones since May 14, 1935; and on radio direction finders since February, 1935.

Ser. No. 451,186. COMMANDER BATTERY MANUFACTURING CO., Chicago, Ill. Filed Feb. 24, 1942.

COMBAT

No claim is made to the term "Chicago, Ill." apart from the mark.
FOR STORAGE BATTERIES.
Claims use since Jan. 29, 1942.

Ser. No. 456,794. C. C. GALBRAITH & SON, INC., New York, N. Y. Filed Nov. 13, 1942.

SAFE-T-GLO

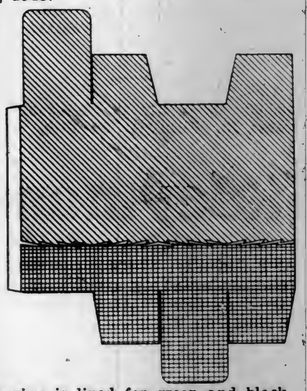
FOR ELECTRIC HEATERS AND ELECTRIC WATER LIGHTS.
Claims use since Nov. 1, 1937, on electric heaters; and since Dec. 1, 1940, on electric water lights.

Ser. No. 457,294. BENDIX AVIATION, LTD., North Hollywood, Calif. Filed Dec. 9, 1942.

GIBSON GIRL

The words "Gibson Girl" suggest a type of American girl portrayed by Charles Dana Gibson as representative of the fashions and manners of the 1890's.
FOR RADIO TRANSMITTERS.
Claims use since Nov. 18, 1942.

Ser. No. 458,200. SPERTI, INC., Cincinnati, Ohio. Filed Jan. 27, 1943.



The drawing is lined for green and black. No claim is made to the representation of the carton per se.
FOR ELECTRICAL VACUUM SWITCHES AND ELECTRONIC TUBES.
Claims use since Dec. 30, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 454,684. EARL PLEASANT BUTLER, doing business under the name of Anma Card Company, Tulsa, Okla. Filed Aug. 3, 1942.

ANMA

FOR PLAYING CARDS.
Claims use since July 15, 1942.

Ser. No. 456,875. E. S. LOWE COMPANY, INC., New York, N. Y. Filed Nov. 17, 1942.

Bookshelf of Games

The word "Games" is disclaimed apart from the mark.
FOR GAME APPARATUS—NAMELY, DOMINOES; A DICE AND COUNTER GAME; GAME BOARDS WITH HOLES AND PEGS TO FIT IN THE HOLES; SETS OF CASES WITH SHIFTING BLOCKS; BACKGAMMON SETS; CHESS BOARDS; GIN RUMMY CARD PLAYING SETS; CHINESE CHECKER GAME BOARDS AND PEGS; POKER CHIPS AND PLAYING CARD SETS; CRIBBAGE BOARDS; CHECKERS; AND BINGO CARDS, SPINNERS AND DISCS.
Claims use since Feb. 5, 1942.

Ser. No. 456,906. SEA-NET MANUFACTURING COMPANY, Los Angeles, Calif. Filed Nov. 18, 1942.

FLIPPER

FOR DEVICES ADAPTED FOR ATTACHMENT TO THE FEET FOR USE AS AIDS IN SWIMMING.
Claims use since Oct. 28, 1942.

Ser. No. 458,741. OTTO RAHN, Ithaca, N. Y. Filed Feb. 24, 1943.



FOR SERIES OF PUZZLE GAMES PLAYED WITH BLOCKS CUT AT VARIOUS ANGLES AND IN VARIOUS SHAPES.
Claims use since Jan. 1, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 457,654. MIXING EQUIPMENT CO., INC., Rochester, N. Y. Filed Dec. 30, 1942.

MIXCO

FOR FLUID AGITATING AND MIXING DEVICES FOR CONTAINERS FOR PROCESSING PETROLEUM AND RUBBER.
Claims use since Nov. 30, 1942.

Ser. No. 458,571. PAPER AND INDUSTRIAL APPLIANCES, INC., New York, N. Y. Filed Feb. 16, 1943.

ROLL-O-FINER

FOR BEATING ENGINES COMPRISING APPARATUS FOR PAPER MAKING.
Claims use since Apr. 14, 1942.

Ser. No. 458,843. METAL CUTTING TOOLS INC., Rockford, Ill. Filed Mar. 1, 1943.

METCUT

FOR METAL CUTTING TOOLS OF THE ROTARY TOOTHED TYPE.
Claims use since June 25, 1941.

Ser. No. 458,963. FORGED STEEL PRODUCTS COMPANY, Newport, Pa. Filed Mar. 8, 1943.

Vacuum Grip

FOR WIRE CUTTERS, WATER PUMP PLIERS, BRAKE PLIERS, BATTERY PLIERS, IGNITION PLIERS, LINEMAN PLIERS, PLIER TYPE LINE CONNECTORS, BOLT CUTTERS, END CUTTING NIPPERS, PISTON RING GROOVE CLEANERS, SCREW DRIVERS, CHISELS AND PUNCHES.
Claims use since July, 1932.

Ser. No. 459,316. ROYAL CROWN BOTTLING COMPANY OF NEWARK, INC., Newark, N. J. Filed Mar. 24, 1943.

BOCAR

FOR DIES AND ALIGNMENT APPARATUS FOR RECLAIMING USED CONTAINER CAPS.
Claims use since Mar. 12, 1943.

Ser. No. 459,349. GLENN T. SCHMIDT, doing business as Grindex Company, Cincinnati, Ohio. Filed Mar. 25, 1943.

Grindex

FOR COFFEE GRINDING MACHINES.
Claims use since Feb. 5, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 455,021. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio. Filed Aug. 21, 1942.

National

FOR REGISTERING MACHINES—NAMELY, CASH REGISTERS; POSTAGE REGISTERING MACHINES; POSTAGE MACHINES; POSTAGE RECEIPTING MACHINES; POSTAGE PRINTING AND POSTAGE ISSUING MACHINES; POSTAGE DISPENSING MACHINES; POSTAGE METERS; POSTAGE PRINTING OR STAMPING AND COUNTING MACHINES.
Claims use on cash registers, since about January 1, 1887; and to postage registering machines, postage machines, postage receipting machines, postage printing and postage issuing machines, postage dispensing machines, postage meters, postage printing or stamping and counting machines, since about Jan. 29, 1926.

Ser. No. 457,613. Q-D-S CORPORATION, New York, N. Y. Filed Dec. 26, 1942.

CINE EXTENAR

No claim is made to the word "Cine" apart from the mark.

FOR LENS, HAVING THE CHARACTERISTIC THAT WHEN USED IN CONJUNCTION WITH ANOTHER LENS, SAID LENS GIVES A WIDE ANGLE COVERING.

Claims use since August, 1940.

Ser. No. 458,597. METRICAL LABORATORIES, INC., Ann Arbor, Mich. Filed Feb. 17, 1943.

METRICATOR

FOR PRECISION INSTRUMENTS—NAMELY, SPACE GAUGES, PLUG GAUGES, RING GAUGES, ALINEMENT GAUGES, AND GUIDE SLEEVES FOR GAUGES.

Claims use since July 1, 1941.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 458,455. COHN & ROSENBERGER, INC., New York, N. Y. Filed Feb. 10, 1943.

Rapture BY Coro

FOR NECKLACES AND BRACELETS NOT INCLUDING WATCHES, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METAL OR PLATED WITH SAME; BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, FANCY CIGARETTE BOXES, FANCY BUCKLES, AND JEWELRY INITIALS.

Claims use since November, 1942.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 458,654. THE HILLIARD CORPORATION, Elmira, N. Y. Filed Feb. 20, 1943.

AIRLINE

FOR FILTERING APPARATUS ESPECIALLY INTENDED FOR THE RECLAIMING OF OIL AND PARTS FOR SUCH APPARATUS AND COTTON, WOOD FIBRE, FULLER'S EARTH, AND SIMILAR MATERIALS EMPLOYED AS A PART OF THE APPARATUS.

Claims use since Apr. 7, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 456,651. CHELSEA FAN & BLOWER CO., INC., Irvington, N. J. Filed Nov. 5, 1942.

THE OCTOPUS

FOR EXHAUST FANS AND BLOWERS USED PRINCIPALLY FOR SHIPHOLD VENTILATION.

Claims use since Sept. 10, 1942.

Ser. No. 458,420. YOUNG RADIATOR COMPANY, Racine, Wis. Filed Feb. 8, 1943.

VERTIVENT

FOR AIR CONDITIONING AND VENTILATING UNITS.

Claims use since Dec. 23, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 456,830. PARA-TONE CO. INC., Chicago, Ill. Filed Nov. 14, 1942.

ZIP-A-TONE

The notation "Tone" is disclaimed apart from the mark as shown.

FOR TRANSFER SCREEN SHEETS FOR TINTING OR SHADING ARTISTS' DRAWINGS OR THE LIKE.

Claims use since Apr. 1, 1937.

Ser. No. 458,384. BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION, San Francisco, Calif. Filed Feb. 8, 1943.

TENPLAN

FOR PRINTED FORMS—NAMELY, CHECK BOOKS.

Claims use since Jan. 20, 1943.

Ser. No. 459,044. THE ESTERBROOK STEEL PEN MANUFACTURING COMPANY, Camden, N. J. Filed Mar. 12, 1943.

PALLADAR

FOR WRITING PENS OF ALL KINDS, FOUNTAIN PENS, AND PARTS THEREOF.

Claims use since Feb. 24, 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 459,279. THE S. K. WELLMAN COMPANY, Cleveland, Ohio. Filed Mar. 22, 1943.

Velvetalk

FOR HOUSE ORGAN.

Claims use since Dec. 24, 1942.

Ser. No. 459,283. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed Mar. 23, 1943.

Our Gang COMICS

No claim is made to the word "Comics" except as shown.

FOR BI-MONTHLY MAGAZINE.

Claims use since Sept. 29, 1942.

Ser. No. 459,465. FIRECRAFT DOOR COMPANY, Chicago, Ill. Filed Mar. 29, 1943.

FIRECRAFT FLAME

FOR PERIODICAL PUBLICATION.

Claims use since Jan. 15, 1943.

Ser. No. 459,536. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed Mar. 31, 1943.

MERRIE MELODIES LOONEY TUNES COMICS

No claim is made to the word "Comics" except as shown.

FOR MONTHLY MAGAZINE.

Claims use since Aug. 1, 1941.

CLASS 39

CLOTHING

Ser. No. 432,647. THE FRANK H. LEE COMPANY, Danbury, Conn. Filed June 4, 1940.

Station Wagon

FOR MEN'S FUR FELT AND STRAW HATS AND CAPS.

Claims use since Feb. 23, 1939.

Ser. No. 449,046. GALE SHOE MFG. CO., Boston, Mass. Filed Nov. 29, 1941.

Galeflex Sole

The word "Sole" is disclaimed except as shown.

FOR SHOES OF LEATHER OR FABRIC OR COMBINATIONS OF BOTH MATERIALS.

Claims use since January, 1935.

Ser. No. 456,725. JOSEPH STEIN, doing business as Joseph Stein Coat Co., New York, N. Y. Filed Nov. 9, 1942.

Barclay Square

The surname "Barclay" is disclaimed apart from the mark.

FOR LADIES' AND MISSES' COATS, SUITS, SKIRTS.

Claims use since August, 1942.

Ser. No. 458,217. ASSOCIATED RETAIL MILLINERY, INC., Dallas, Tex. Filed Jan. 29, 1943.

Vera Whistler Original

Applicant disclaims the expression "Original." The name Vera Whistler is a facsimile signature of Vera Whistler. The right to use and register the same has been granted to applicant by the said Vera Whistler.

FOR HATS FOR WOMEN.

Claims use since Jan. 2, 1943.

Ser. No. 458,250. SOUTHLAND MANUFACTURING CO., INC., Wilmington, N. C. Filed Jan. 30, 1943.

FRANKLIN SQUARE

No claim is made to the word "Franklin" apart from the mark.

FOR MEN'S AND BOYS' OUTER SHIRTS, PAJAMAS, UNDERWEAR, AND SHORTS.

Claims use since 1931.

Ser. No. 458,558. WHITE SWAN UNIFORMS, INC., Yonkers and New York, N. Y. Filed Feb. 15, 1943.

Swanelle

FOR NURSES' UNIFORMS.

Claims use since 1938.

Ser. No. 458,883. ROLLINS HOSIERY MILLS, INC., Des Moines, Iowa. Filed Mar. 3, 1943.

ROLLINETTE

FOR LADIES' UNDERWEAR.

Claims use since Feb. 4, 1943.

Ser. No. 458,949. Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Filed Mar. 6, 1943.

BIG BRAWN

FOR DUNGAREES, WORK SHIRTS AND OVERALLS FOR MEN AND BOYS.
Claims use since Feb. 12, 1942.

Ser. No. 459,022. Frank-Cerf, Inc., New York, N. Y. Filed Mar. 11, 1943.

merry

FOR WOMEN'S, MISSES', AND GIRLS' COATS, SUITS, DRESSES, BLOUSES, SLACKSUITS, AND SKIRTS.
Claims use since Feb. 23, 1943.

Ser. No. 459,055. Tricamp Corporation, New York, N. Y. Filed Mar. 12, 1943.



FOR HOSIERY.
Claims use since May 1, 1940.

Ser. No. 459,067. Barkin, Levin & Co., Inc., New York, N. Y. Filed Mar. 12, 1943.

Dura-Tone

FOR LADIES' AND MISSES' COATS.
Claims use since January, 1942.

Ser. No. 459,082. Prim-Era Hosiery Mills, Inc., Chester, Ill. Filed Mar. 13, 1943.

Miss Prim

FOR LADIES' HOSIERY.
Claims use since Dec. 15, 1921.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 429,392. The Boye Needle Company, Chicago, Ill. Filed Mar. 9, 1940.

G

FOR METAL, COMPOSITION, AND WOODEN CROCHET HOOKS.
Claims use since May 10, 1922.

Ser. No. 429,641. The Boye Needle Company, Chicago, Ill. Filed Mar. 16, 1940.

J

FOR METAL, COMPOSITION, AND WOODEN CROCHET HOOKS.
Claims use since May 10, 1922.

Ser. No. 457,959. David Lippey, doing business as The Lippey Company, Los Angeles, Calif. Filed Jan. 16, 1943.

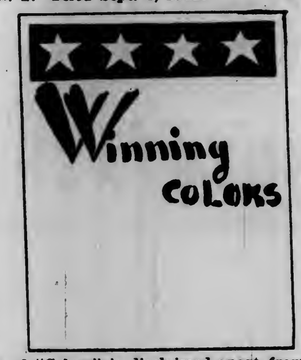
TEXKIN

FOR SHOE LACES.
Claims use since January, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 455,346. Mallinson Fabrics Corporation, New York, N. Y. Filed Sept. 4, 1942.



The word "Colors" is disclaimed apart from the mark.
FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.
Claims use since May 25, 1942.

Ser. No. 458,868. Pacific Mills, Boston, Mass. Filed Mar. 2, 1943.

PAMISHEEN

FOR COTTON AND MIXED COTTON AND RAYON PIECE GOODS.
Claims use since May, 1942.

Ser. No. 459,255. Bulkley, Weinberg & Tormey, Incorporated, New York, N. Y. Filed Mar. 22, 1943.

GREYLAG

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Jan. 1, 1943.

CLASS 43

THREAD AND YARN

Ser. No. 450,073. Manawul Patent Corporation, Boston, Mass. Filed Jan. 8, 1942.

Manawul

FOR YARNS OF WOOL AND RAMIE WITH OR WITHOUT ADMIXTURE OF COTTON, SILK, OR RAYON.
Claims use since August, 1940.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 457,489. The Amalgamated Dental Company Limited, London, England. Filed Dec. 18, 1942.

STELLON

FOR SYNTHETIC RESIN PLASTICS PREPARED FOR USE IN THE MANUFACTURE OF DENTAL PROSTHESES.
Claims use since Oct. 1, 1942.

CLASS 45

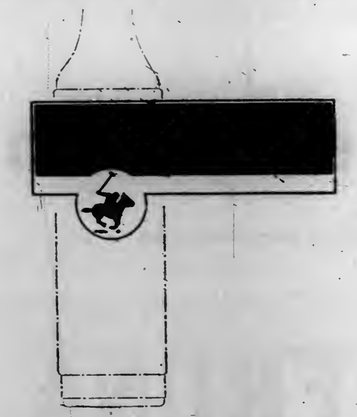
BEVERAGES, NONALCOHOLIC

Ser. No. 451,382. Monroe Harrison, Chicago, Ill. Filed Mar. 4, 1942.

Harrisons FRUITETTE

No claim is made to the name "Harrisons" except as shown.
FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME.
Claims use since Oct. 10, 1941.

Ser. No. 458,519. Samuel E. Webb, doing business as Beverages of America Bottling Company, Philadelphia, Pa. Filed Feb. 13, 1943.



No claim is made to the outline of the bottle.
FOR NONALCOHOLIC, MALTLESS BEVERAGES AND PRODUCTS FOR USE IN MAKING THE SAME.
Claims use since June 1, 1940.

CLASS 46

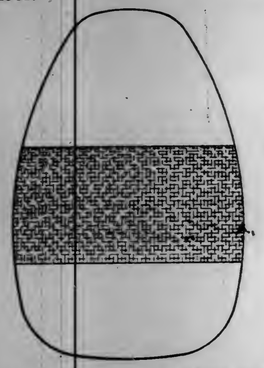
FOODS AND INGREDIENTS OF FOODS

Ser. No. 451,712. Monroe D. Green, San Francisco, Calif. Filed Mar. 18, 1942.



FOR PATNA TYPE RICE.
Claims use since Jan. 24, 1938.

Ser. No. 453,896. OSCAR MAYER & Co., Chicago, Ill. Filed June 26, 1942.



The applicant is the owner of registration No. 393,039, registered Jan. 27, 1942. The mark consists of a yellow colored stripe or band of substantial width applied approximately centrally to a label, said band lying intermediate the ends of the label. The representation of a label or wrapper apart from the mark is disclaimed.

FOR MEAT PRODUCTS—NAMELY, HAM.

Claims use since March, 1929.

Ser. No. 458,022. THE TOLEDO SOYBEAN PRODUCTS COMPANY, Toledo, Ohio. Filed Jan. 19, 1943.

SUPER-DUO

FOR SOYBEAN OIL MEAL FOR USE IN ANIMAL FEEDS.

Claims use since January, 1938.

Ser. No. 458,377. VOLPIT CHEWING CANDY CO., INC., Long Island City, N. Y. Filed Feb. 6, 1943.

FRUNA

FOR CHEWING CANDIES CONTAINING NATURAL FRUIT FLAVORS BUT NOT CONTAINING ANY NUTS OR NUT-LIKE INGREDIENTS.

Claims use since Oct. 8, 1942.

Ser. No. 458,398. INTER-STATE FRUIT & VEGETABLE CO., doing business as Tex-Rio Fruit Co., La Feria, Tex. Filed Feb. 8, 1943.

TEX-RIO

FOR FRESH CITRUS FRUITS.

Claims use since 1931.

Ser. No. 458,418. TURLOCK CO-OPERATIVE GROWERS, Modesto and San Francisco, Calif. Filed Feb. 8, 1943.

The applicant is the owner of registration No. 171,187, dated July 31, 1923.

MOON VALLEY

FOR CANNED FRUITS.

Claims use since Sept. 26, 1917.

Ser. No. 458,658. FRANCIS H. LEGGETT & COMPANY, New York, N. Y. Filed Feb. 20, 1943.

SOYOTASH

FOR CANNED SOY BEAN SUCCOTASH COMPRISING WHOLE KERNEL GOLDEN CORN AND SOY BEANS.

Claims use since Feb. 1, 1943.

Ser. No. 458,683. THE ALBERT DICKINSON COMPANY, Chicago, Ill. Filed Feb. 22, 1943.



The representation of the carton and all wording except "Yankee" and the monogram are disclaimed. The drawing is lined for red, yellow, and blue. Applicant is owner of Reg. Nos. 22,343 (expired), 307,967, 20,592 (renewed), 47,313 (renewed), 55,801 (renewed), and 47,343 (renewed).

FOR SHELLED POPCORN.

Claims use since Aug. 5, 1892.

Ser. No. 458,719. EDWARD BARBERA, Lodi, Calif. Filed Feb. 24, 1943.



The picture of the girl is fanciful. No claim is made to the representation of the bunch of grapes.

FOR FRESH GRAPES.

Claims use since August, 1934.

Ser. No. 458,887. HENRY WIESEHAN, McAllen, Tex. Filed Mar. 3, 1943.

SKY FLEET

FOR FRESH VEGETABLES.

Claims use since Dec. 10, 1942.

Ser. No. 458,943. WM. P. MCDONALD CORPORATION, Lakeland, Fla. Filed Mar. 6, 1943.

MacPak

Applicant disclaims "Pak" separately from the mark.

FOR FRESH CITRUS FRUITS.

Claims use since Dec. 1, 1942.

Ser. No. 458,995. ROBERT ASPINALL, doing business as Robert Aspinall Company and West American Sales Co., San Francisco, Calif. Filed Mar. 10, 1943.

REMEMBER

FOR JELLIES, FRUIT PRESERVES, CANNED FRUITS AND CANNED VEGETABLES.

Claims use since Feb. 10, 1943.

Ser. No. 459,156. TRADERS OIL MILL COMPANY, Fort Worth, Tex. Filed Mar. 16, 1943.

CINACOA

FOR SPECIALLY PROCESSED COTTONSEED FLOUR FOR HUMAN CONSUMPTION.

Claims use since Dec. 4, 1942.

Ser. No. 459,216. ANGELO CATALDO, doing business as Liberty Candy Co. and Liberty Chocolate Co., Boston, Mass. Filed Mar. 19, 1943.

BIG PAY

FOR CANDY.

Claims use since Feb. 15, 1943.

CLASS 47

WINES

Ser. No. 456,546. VALENA WINE CO., INC., New York, N. Y. Filed Oct. 30, 1942.

ROXY

FOR WINES.

Claims use since September, 1941.

Ser. No. 457,836. MONARCH LIQUOR CORP., Syracuse, N. Y. Filed Jan. 9, 1943.

FAIRHILL



FOR RHINE, ZINFANDEL, TOKAY, BARBERA, PORT, SHERRY, BARBERONE, WHITE PORT, AND CHIANTI WINES.

Claims use since Oct. 23, 1942.

Ser. No. 458,795. SAN MARINO WINE CORPORATION, New York, N. Y. Filed Feb. 26, 1943.

Père Manon

FOR CHAMPAGNE WINE.

Claims use since Sept. 8, 1941.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 458,748. HOLIDAY WEBER, doing business as New England Wholesale Co-Operative Buyers, Boston, Mass. Filed Feb. 24, 1943.

★ VICTORY LINK MAT ★

No claim is made to the words "Link Mat" apart from the mark.

FOR DOOR MATS MADE OF WOOD LINKS.

Claims use since Dec. 15, 1941.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 18, 1943

401,403. PRESSURE-SENSITIVE ADHESIVE TAPE. MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn.
Filed October 14, 1940. Serial No. 436,937. PUBLISHED MARCH 9, 1943. Class 5.

401,404. FLEXIBLE, TRANSLUCENT, AND TRANSPARENT MATERIALS USED AS SUBSTITUTES FOR GLASS. HAROLD WARP, doing business as Flex-O-Glass Manufacturing Co., and Warp Brothers, Chicago, Ill.
Filed October 23, 1940. Serial No. 437,229. PUBLISHED JANUARY 26, 1943. Class 50.

401,405. CANNED VEGETABLES, FRUITS, FRUIT JUICES FOR FOOD PURPOSES, FISH, PORK AND BEANS, SOUPS, BROTHS, ETC. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed November 9, 1940. Serial No. 437,747. PUBLISHED FEBRUARY 17, 1942. Class 46.

401,406. FOOD PRODUCTS AND INGREDIENTS THEREOF COMPRISING DRY, DEHYDRATED, OR PARTLY DEHYDRATED MIXTURES FOR USE IN THE PREPARATION OF SOUPS, PIE CRUST, MUFFINS, ETC. KITCHEN ART FOODS INC., Chicago, Ill.
Filed May 26, 1941. Serial No. 443,939. PUBLISHED MARCH 9, 1943. Class 46.

401,407. PERFUMERY AND COSMETICS—NAMELY, FACE CREAM, FACE POWDER, ROUGE, AND LIPSTICK. BABS CREATIONS, INCORPORATED, New York, N. Y.
Filed August 23, 1941. Serial No. 446,483. PUBLISHED MARCH 9, 1943. Class 6.

401,408. AUTOMATIC GERMICIDE MIXERS AND DISPENSERS FOR USE IN DISH AND SIMILAR STERILIZING. NATIONAL TECHNICAL LABORATORIES, South Pasadena, Calif.
Filed September 2, 1941. Serial No. 446,743. PUBLISHED MARCH 9, 1943. Class 13.

401,409. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,153. PUBLISHED MARCH 9, 1943. Class 1.

401,410. PERFUMES AND TOILET WATER. CHARLES OF THE RITZ, INC., New York, N. Y.
Filed December 2, 1941. Serial No. 449,090. PUBLISHED MARCH 9, 1943. Class 6.

401,411. SOCKS (FOR WEAR) AND STOCKINGS ALL MADE WHOLLY OR PRINCIPALLY OF NYLON. ARTISTOC, LIMITED, Nottinghamshire, England.
Filed December 8, 1941. Serial No. 449,247. PUBLISHED FEBRUARY 9, 1943. Class 39.

401,412. BITUMINOUS ROOFING CEMENT. THE FLINTKOTE COMPANY, New York, N. Y.
Filed December 8, 1941. Serial No. 449,259. PUBLISHED FEBRUARY 2, 1943. Class 12.

401,413. BANK PASS BOOKS, COVERS FOR BOOKS—NAMELY, CHECK BOOKS, TELEPHONE DIRECTORIES, MENUS, SCHOOL ANNUALS, AND CARD CASES, COVERS FOR CATALOGUES, AND LOOSE-LEAF FORMS. THE PASS BOOK AND CHECK COVER COMPANY, Denver, Colo.
Filed December 26, 1941. Serial No. 449,778. PUBLISHED MARCH 9, 1943. Class 37.

401,414. METALLIC WIRE AND STRIPS FOR USE FOR PARTS OF RADIO TUBES. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed December 30, 1941. Serial No. 449,853. PUBLISHED FEBRUARY 24, 1942. Class 21.

401,415. INTESTINAL ANTISEPTIC AND AN INTERNAL DISINFECTANT. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed January 17, 1942. Serial No. 450,290. PUBLISHED MARCH 9, 1943. Class 6.

401,416. SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed March 17, 1942. Serial No. 451,671. PUBLISHED MARCH 9, 1943. Class 4.

401,417. WASHING PREPARATIONS — NAMELY, WASHES FOR AUTOMOBILES, TRUCK BODIES, AND AIRPLANES. LEE H. THOMPSON, doing business as Southern Supply Company, Pasadena, Calif.
Filed March 18, 1942. Serial No. 451,733. PUBLISHED MARCH 9, 1943. Class 4.

401,418. MEDICINAL PREPARATIONS USED FOR THE PREVENTION AND TREATMENT OF DISTURBANCES OF SKIN SURFACES. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed March 23, 1942. Serial No. 451,850. PUBLISHED MAY 5, 1942. Class 6.

401,419. MINERAL OILS FOR USE IN AGRICULTURE AND HORTICULTURE FOR THE CONTROL OF INSECTS AND FUNGI. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed May 7, 1942. Serial No. 452,875. PUBLISHED JULY 21, 1942. Class 6.

401,420. PETROLEUM ASPHALT FOR PAVING, ROOFING, STREET AND HIGHWAY CONSTRUCTION. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed May 7, 1942. Serial No. 452,876. PUBLISHED SEPTEMBER 1, 1942. Class 12.

401,421. FOUNTAIN PENS, MECHANICAL PENCILS, AND WOODEN LEAD PENCILS. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed May 19, 1942. Serial No. 453,105. PUBLISHED MARCH 9, 1943. Class 37.

401,422. ASH TRAYS. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed May 19, 1942. Serial No. 453,106. PUBLISHED MARCH 9, 1943. Class 8.

401,423. FRESH VEGETABLES AND FRESH DECIDUOUS FRUITS. OSAGE PRODUCE CO., Los Angeles, Calif.
Filed May 21, 1942. Serial No. 453,164. PUBLISHED JULY 21, 1942. Class 46.

401,424. WATCHES, CLOCKS, CHRONOMETERS, WATCH CASES, CLOCK CASES, AND PARTS OF EACH OF THE FOREGOING. WALTHAM WATCH COMPANY, Waltham, Mass.
Filed May 26, 1942. Serial No. 453,286. PUBLISHED MARCH 9, 1943. Class 27.

401,425. CERTAIN CANDIES AND CANDY CONFECTIONS—NAMELY, BURNT ALMONDS, BON BONS, BRITTLES, CARAMELS, CHEWS, CHOCOLATES, COFFEE ROYALS, ENGLISH TAFFEE, FUDGE, GLACE FRUIT, AND HARD CANDIES. CANDY LANE INC., Beverly Hills, Los Angeles, and Glendale, Calif.
Filed June 1, 1942. Serial No. 453,392. PUBLISHED MARCH 9, 1943. Class 46.

401,426. HEATERS USING LIQUID FUELS AS GASOLINE, KEROSENE, STOVE OIL OR LIGHT WEIGHT FUEL OIL, AND USED IN MAINTAINING TEMPERATURES IN WATER AND OIL SYSTEMS AND INTERNAL COMBUSTION ENGINES. CARNA M. KIMBERLIN, doing business as Kimberlin Manufacturing Co., Spokane, Wash.
Filed June 19, 1942. Serial No. 453,756. PUBLISHED MARCH 9, 1943. Class 34.

401,427. NOTE BOOKS AND BLANK BOOKS. ROCKWELL-BARNES COMPANY, Chicago, Ill.
Filed July 18, 1942. Serial No. 454,313. PUBLISHED MARCH 9, 1943. Class 37.

401,428. BOARD GAME PLAYED IN CONJUNCTION WITH CARDS. ALFRED M. VOIT, Louisville, Ky.
Filed July 18, 1942. Serial No. 454,317. PUBLISHED MARCH 9, 1943. Class 22.

401,429. CHEMICAL PREPARATIONS FOR TREATING FIBROUS MATERIAL TO MAKE SAME FIREPROOF, WATERPROOF OR MILDEWPROOF. ALBI CHEMICAL CORPORATION, New York, N. Y.
Filed July 29, 1942. Serial No. 454,567. PUBLISHED MARCH 9, 1943. Class 6.

401,430. ELEVATOR ROLLER GUIDES. ELEVATOR SAFETY CORPORATION, New York, N. Y.
Filed August 22, 1942. Serial No. 455,049. PUBLISHED MARCH 9, 1943. Class 23.

401,431. CHEWING GUM, MINT AND HARD CANDY. LUXURY MINT & GUM COMPANY, Chicago, Ill.
Filed August 22, 1942. Serial No. 455,053. PUBLISHED MARCH 9, 1943. Class 46.

401,432. GELATINE COATED FRESH AND CURED MEATS—NAMELY, BEEF, LAMB, VEAL, PORK, HAMS, PICNICS, BUTTS, BACON, SAUSAGE, MEAT LOAVES AND POULTRY. WILSON & CO., INC., Chicago, Ill.
Filed August 22, 1942. Serial No. 455,058. PUBLISHED MARCH 9, 1943. Class 46.

401,433. LINSEED OIL, DENATURED ALCOHOL USED IN THINNING PAINTS AND DISSOLVING SHELLACS, PINE OIL FOR USE IN PAINTS. DIPENTENE USED AS A PAINT THINNER AND STEAM DISTILLED WOOD TURPENTINE. INDUSTRIAL SALES CORPORATION, New York, N. Y.
Filed September 2, 1942. Serial No. 455,269. PUBLISHED MARCH 9, 1943. Class 16.

401,434. METAL JEWELERS' FINDINGS—NAMELY, METAL CLIPS, METAL PINS, METAL BARS, METAL HOOKS AND EYES, METAL SAFETY CATCHES, AND METAL FRENCH TONGUES. METAL FINDINGS CORPORATION, New York, N. Y.
Filed September 11, 1942. Serial No. 455,483. PUBLISHED MARCH 9, 1943. Class 28.

401,435. GAUZE BANDAGES TREATED FOR SURGICAL, MEDICAL, AND INDUSTRIAL PROTECTIVE USES. AMERICAN BANDAGE CORP., Chicago, Ill.
Filed September 12, 1942. Serial No. 455,494. PUBLISHED NOVEMBER 17, 1942. Class 44.

401,436. FIBROUS MATERIALS IN THE FORM OF FILAMENTS OF STAPLE OR LONGER LENGTHS PRODUCED FROM PROTEINACEOUS SUBSTANCES. ARALAC, INC., New York, N. Y.
Filed September 29, 1942. Serial No. 455,838. PUBLISHED MARCH 9, 1943. Class 1.

401,437. INORGANIC PREPARATION FOR USE IN THE TREATMENT OF VARIOUS RESPIRATORY DISEASES—NAMELY, CORYZA, SUBACUTE RHINITIDES, RHINITIS VASOMOTORIA, HYDRORRHOEA NASALIS, ASTHMA BRONCHIALE, AND HAY FEVER. ALBA PHARMACEUTICAL COMPANY, INC., New York, N. Y., now, by consolidation, Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York.
Filed October 10, 1942. Serial No. 456,112. PUBLISHED DECEMBER 15, 1942. Class 6.

401,438. PREPARATION USED IN THE TREATMENT OF DISEASES OF THE RESPIRATORY TRACT. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed October 12, 1942. Serial No. 456,156. PUBLISHED MARCH 9, 1943. Class 6.

401,439. AEROPLANES MADE PRINCIPALLY OF WOOD AND WOODEN STRUCTURAL PARTS THEREOF. HORDERN-RICHMOND AIRCRAFT LIMITED, Haddenham, England.
Filed October 14, 1942. Serial No. 456,184. PUBLISHED MARCH 9, 1943. Class 19.

401,440. PLYWOOD. HORDERN-RICHMOND AIRCRAFT LIMITED, Haddenham, England.
Filed October 14, 1942. Serial No. 456,185. PUBLISHED MARCH 9, 1943. Class 12.

401,441. MALLETS AND HAMMERS HAVING RAWHIDE FACES AND RAWHIDE FACES FOR HAMMERS AND LOOM PICKERS AND SWEEPSTICK HEADS FOR LOOMS. AMERICAN RAW HIDE PRODUCTS CO., Providence, R. I.
Filed November 5, 1942. Serial No. 456,649. PUBLISHED MARCH 9, 1943. Class 23.

401,442. CHEMICAL PREPARATION FOR TREATING, PRESERVING, OR MAKING FABRICS WATER REPELLENT. PURITAN CHEMICAL COMPANY, Atlanta, Ga.
Filed November 9, 1942. Serial No. 456,724. PUBLISHED MARCH 9, 1943. Class 6.

401,443. MECHANICALLY DRIVEN MIXING DEVICES FOR CEMENTITIOUS MATERIALS, RECEPTACLES CONNECTED THERETO FOR RECEIVING SAID MIXED CEMENTITIOUS MATERIALS THEREFROM, ETC. WESTERN WATERPROOFING COMPANY, Detroit, Mich.
Filed November 13, 1942. Serial No. 456,815. PUBLISHED FEBRUARY 23, 1943. Class 23.

401,444. WALL PAPER. UNITED WALL PAPER FACTORIES, INC., Chicago, Ill.
Filed November 16, 1942. Serial No. 456,856. PUBLISHED MARCH 9, 1943. Class 37.

401,445. NECKLACES AND BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, ETC. COHN & ROSENBERGER, INC., New York, N. Y.
Filed November 17, 1942. Serial No. 456,864. PUBLISHED MARCH 9, 1943. Class 28.

401,446. NECKLACES AND BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METAL OR PLATED WITH SAME; BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, FANCY CIGARETTE BOXES, FANCY BUCKLES, AND JEWELRY INITIALS. COHN & ROSENBERGER, New York, N. Y.
Filed November 17, 1942. Serial No. 456,865. PUBLISHED MARCH 9, 1943. Class 28.

401,447. TIRE CASING AND TUBE PATCHES AND TIRE AND TUBE PATCHING KITS FOR USE EITHER AS A VULCANIZING UNIT OR AS A COLD REPAIRING UNIT. BETTER MONKEY GRIP CO., Arlington, Tex.
Filed November 21, 1942. Serial No. 456,951. PUBLISHED MARCH 9, 1943. Class 35.

401,448. GAME CONSISTING OF ONE OR MORE PLAYING BALLS, BASKETS FOR RECEIVING THE BALLS AND ACTUATING DEVICES FOR MANIPULATING SAID BALLS. VOLUME SPRAYER MANUFACTURING CO., INC., Tulsa, Okla.
Filed November 23, 1942. Serial No. 456,996. PUBLISHED MARCH 9, 1943. Class 22.

401,449. PREPARATION FOR USE IN THE TREATMENT OF SPASTIC CONDITIONS OF THE STOMACH AND BOWELS. THE CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed November 27, 1942. Serial No. 457,074. PUBLISHED MARCH 9, 1943. Class 6.

401,450. FRESH VEGETABLES. ARIZONA FARMS, Tolleson, Ariz.
Filed November 30, 1942. Serial No. 457,110. PUBLISHED MARCH 9, 1943. Class 46.

401,451. ELECTRIC NEEDLE MACHINES FOR KILLING THE ROOTS OF, OR THE REMOVAL OF, UNDESIRED HUMAN HAIR BY ELECTROLYSIS. FRANCES POMILLA, doing business as Beaux Arts Professional Instrument Mfg. Co., and also Beaux Arts Instruments Co., Passaic, N. J.
Filed December 4, 1942. Serial No. 457,207. PUBLISHED MARCH 9, 1943. Class 44.

401,452. BURR TRIMMING MACHINES, CUSHIONED CUTTER PILOTS, DRILL GRINDING FIXTURE, HACK SAW BLADE GRINDING FIXTURES, SAW FILING MACHINES, UNIVERSAL TOOL AND CUTTER GRINDERS. INDUSTRIAL ENGINEERING CO. INC., Minneapolis, Minn.
Filed December 5, 1942. Serial No. 457,222. PUBLISHED MARCH 2, 1943. Class 23.

401,453. UNDERWEAR, FOR GIRLS AND WOMEN. J. R. BEATON CO., INC., New York, N. Y., assignor to Berkshire Knitting Mills, Wyomissing, Pa., a corporation of Pennsylvania.
Filed December 8, 1942. Serial No. 457,267. PUBLISHED MARCH 2, 1943. Class 39.

401,454. SELF POLISHING WAX FOR FLOORS, LINOLEUM, AND FURNITURE. CLAIRE MANUFACTURING COMPANY, Chicago, Ill.
Filed December 8, 1942. Serial No. 457,272. PUBLISHED MARCH 9, 1943. Class 16.

401,455. VITAMIN PREPARATION. AMERICAN DRUGGISTS SYNDICATE, INC., Long Island City, N. Y.
Filed December 9, 1942. Serial No. 457,293. PUBLISHED MARCH 9, 1943. Class 6.

401,456. WRENCHES AND PARTS THEREOF, ADJUSTABLE HAND WRENCHES, WRENCH SETS AND CASES, COUNTER ADVERTISING CARDS DISPLAYING WRENCHES, ETC., DIAMOND CALK HORSESHOE COMPANY, Duluth, Minn.
Filed December 14, 1942. Serial No. 457,386. PUBLISHED MARCH 9, 1943. Class 23.

401,457. SINGLE END ADJUSTABLE WRENCHES, DOUBLE END ADJUSTABLE WRENCHES, WRENCH PARTS, COUNTER ADVERTISING BOARDS DISPLAYING WRENCHES, ETC. DIAMOND CALK HORSESHOE COMPANY, Duluth, Minn.
Filed December 14, 1942. Serial No. 457,387. PUBLISHED MARCH 9, 1943. Class 23.

401,458. OIL BASE PAINTS FOR INTERIOR USE. SAPOLIN CO. INC., New York, N. Y.
Filed December 16, 1942. Serial No. 457,451. PUBLISHED MARCH 9, 1943. Class 16.

401,459. TOOLS—NAMELY, DRILLS, COUNTERSINKS, COUNTER-BORES, PUNCHES, DIES, PLIERS, AND SIMILAR TOOLS FOR DRILLING, COUNTER-SINKING, AND DIMPLING SHEET MATERIAL. CAMLOC FASTENER COMPANY, New York, N. Y.
Filed December 17, 1942. Serial No. 457,458. PUBLISHED MARCH 9, 1943. Class 23.

401,460. VITAMIN PREPARATION USED AS A FOOD SUPPLEMENT. HOFFMANN-LA ROCHE, INC., Nutley, N. J.
Filed December 17, 1942. Serial No. 457,469. PUBLISHED MARCH 9, 1943. Class 6.

401,461. MEN'S AND BOYS' SPORT JACKETS. WILSON BROTHERS, Chicago, Ill.
Filed December 17, 1942. Serial No. 457,487. PUBLISHED MARCH 2, 1943. Class 39.

401,462. LINEMEN'S PLATFORMS, PLATFORM RAILINGS AND LIVE LINE GUARDS COMPRISING RECTANGULAR WOODEN TROUGHS WHICH COVER AND ARE SUPPORTED BY THE LINE AT A CROSS ARM TO PROTECT THE LINEMEN FROM THE LINE AND PERMIT THEM TO SIT OR STAND ON THE CROSS SUPPORT BY THE LINE. A. B. CHANCE COMPANY, Centralia, Mo.
Filed December 18, 1942. Serial No. 457,492. PUBLISHED MARCH 9, 1943. Class 12.

401,463. WOMEN'S AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES. SIEGEL BROTHERS KIKI MAID KOATS, INC., New York, N. Y.
Filed December 29, 1942. Serial No. 457,644. PUBLISHED MARCH 2, 1943. Class 39.

401,464. DOG FOOD. BLANEY BAKERIES, INC., Philadelphia, Pa.
Filed December 31, 1942. Serial No. 457,671. PUBLISHED MARCH 9, 1943. Class 46.

401,465. OVERALLS AND OVERALL JACKETS, BAND OVERALLS AND DUNGAREES, WORK PANTS AND SHIRTS, AND ONE-PIECE WORK SUITS FOR MEN AND BOYS. BLUE BUCKLE OVERALL CO. INC., Lynchburg, Va.
Filed January 2, 1943. Serial No. 457,714. PUBLISHED MARCH 2, 1943. Class 39.

401,466. ROTARY PLOWS. HARRY J. SEAMAN, doing business as Seaman Motors, Milwaukee, Wis.
Filed January 2, 1943. Serial No. 457,729. PUBLISHED MARCH 2, 1943. Class 23.

401,467. PHOTOGRAPHIC SHUTTERS. WOLLENSAK OPTICAL COMPANY, Rochester, N. Y.
Filed January 2, 1943. Serial No. 457,733. PUBLISHED MARCH 9, 1943. Class 26.

401,468. MULTIPLE VITAMIN MINERAL THERAPY, VITAMINS IN CAPSULE FORM AND MINERALS IN TABLET FORM. LIBERTY VITAMIN CORPORATION, New York, N. Y.
Filed January 5, 1943. Serial No. 457,764. PUBLISHED MARCH 9, 1943. Class 6.

401,469. OINTMENT FOR USE IN THE TREATMENT OF MINOR CUTS AND BURNS. JOHN L. NORRIS, JR., doing business as Victus Products, Lyndonville, Vt.
Filed January 7, 1943. Serial No. 457,795. PUBLISHED MARCH 9, 1943. Class 6.

401,470. COMPOSITION CONTAINING CHEMICAL INGREDIENTS FOR STRENGTHENING, STERILIZING, FEEDING, AND PROMOTING THE DEVELOPMENT OF CUT PLANTS AND ADAPTED TO BE ADDED TO WATER IN WHICH THE PLANTS ARE IMMERSED. FLOWER FOODS, INC., Maywood, Ill.
Filed January 8, 1943. Serial No. 457,808. PUBLISHED MARCH 9, 1943. Class 6.

401,471. PRUNE BUTTER. MAX AMS, INC., New York, N. Y.
Filed January 11, 1943. Serial No. 457,844. PUBLISHED MARCH 9, 1943. Class 46.

401,472. CARBURETORS, GOVERNORS, AND ACCESSORIES THEREFOR. BENDIX AVIATION CORPORATION, South Bend, Ind.
Filed January 11, 1943. Serial No. 457,845. PUBLISHED MARCH 2, 1948. Class 23.

401,473. CONVERTIBLE STUDIO DAVENPORT BEDS. DURA FIXTURE COMPANY, Statesville, N. C.
Filed January 12, 1943. Serial No. 457,870. PUBLISHED MARCH 8, 1943. Class 23.

401,474. FLOOR DRESSING. MASURY-YOUNG COMPANY, Boston, Mass.
Filed January 12, 1943. Serial No. 457,879. PUBLISHED MARCH 8, 1943. Class 32.

401,475. OFFICE CHAIRS. HERBERT HENRY BERNSTEIN, doing business as Typosture Chair Co., New York, N. Y.
Filed January 13, 1943. Serial No. 457,891. PUBLISHED MARCH 9, 1943. Class 32.

401,476. CONTRAST MEDIUM FOR RADIOGRAPHY. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed January 19, 1943. Serial No. 458,010. PUBLISHED MARCH 9, 1943. Class 6.

401,477. STUFFED ANIMAL TOYS AND DOLLS. SIRE-PHILLIPS, INC., Dalton, Ga., and New York, N. Y.
Filed January 19, 1943. Serial No. 458,021. PUBLISHED MARCH 9, 1943. Class 22.

401,478. PREPARATION OF PYRIDOXINE HYDROCHLORIDE FOR TREATMENT OF DEFICIENCY IN B COMPLEX FACTORS. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.
Filed January 20, 1943. Serial No. 458,045. PUBLISHED MARCH 9, 1943. Class 6.

401,479. VITAMIN CONCENTRATE IN CAPSULE, TABLET, AND LIQUID FORM. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.
Filed January 20, 1943. Serial No. 458,046. PUBLISHED MARCH 9, 1943. Class 6.

401,480. PNEUMATIC HORNS AND AIR RAID ALARM EQUIPMENTS OF THE CLASS INCLUDING A HORN OR HORNS OPERABLE THROUGH THE MEDIUM OF AN ELECTRICAL OR FLUID PRESSURE CONTROL SYSTEM. THE WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa.
Filed January 20, 1943. Serial No. 458,056. PUBLISHED MARCH 9, 1943. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

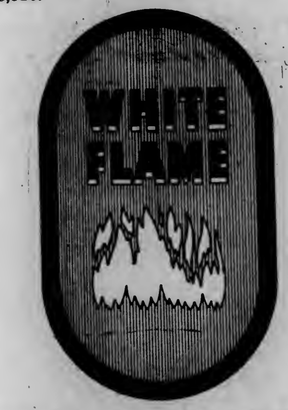
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,481. (CLASS 17. TOBACCO PRODUCTS.) PENNSTATE CIGAR CORPORATION, Philadelphia, Pa. Filed Dec. 16, 1939. Serial No. 426,670.

NOT A BY-PRODUCT A CHEROOT A CIGARILLO BUT A REAL CIGAR!

FOR CIGARS.
Claims use since June 1, 1938.

401,482. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) WHITE FLAME FUEL CO., Los Angeles, Calif., and Denver, Colo. Filed May 12, 1941. Serial No. 443,526.



The words "White Flame" are disclaimed apart from the mark. The drawing is lined for shading only.
FOR COAL.
Claims use since May 1, 1941.

401,483. (CLASS 37. PAPER AND STATIONERY.) ALBERT M. BROUDY, Pittsburgh, Pa. Filed May 15, 1941. Serial No. 443,596.

"BILL-IN"

FOR ENVELOPES PROVIDED WITH JOINED ATTACHING STRIPS.
Claims use since Apr. 1, 1938.

401,484. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DIRATS MANUFACTURING COMPANY, Westfield, Mass. Filed June 13, 1941. Serial No. 444,492.

DIRATS

FOR ABRASIVE GRINDING WHEELS.
Claims use since Apr. 16, 1941.

401,485. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PIGGLY WIGGLY CORPORATION, Atlanta, Ga. Filed June 30, 1941. Serial No. 444,978.

PLYMOUTH

Applicant is the owner of trade-mark registrations No. 281,997, granted April 7, 1931, and No. 393,669, granted February 24, 1942.
FOR PEANUT BUTTER, SALAD DRESSING, MUSTARD, MUSTARD COMPOUND COMPOSED PRINCIPALLY OF MUSTARD SEED, MUSTARD BRAN, VINEGAR, SALT, AND TUMERIC, IMITATION VANILLA EXTRACT FOR FOOD FLAVORING, AND SANDWICH SPREAD COMPOSED PRINCIPALLY OF SALAD DRESSING COMBINED WITH PICKLES AND PIMIENTOS.
Claims use since Aug. 27, 1930.

401,486. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BIRDSBORO STEEL FOUNDRY AND MACHINE COMPANY, Birdsboro, Pa. Filed Feb. 24, 1942. Serial No. 451,185.

BIRDSBORO ROLLS

FOR FINISHING ROLLS FOR ROLLING MILLS.
Claims use since Jan. 28, 1942.

401,487. (CLASS 12. CONSTRUCTION MATERIALS.) J. W. MORTELL COMPANY, Kankakee, Ill. Filed Feb. 28, 1942. Serial No. 451,315.

NO Drip

FOR ADHESIVE PLASTIC COMPOUND CONTAINING GRANULATED CORK TO BE APPLIED TO CONCRETE, MASONRY, AND METAL SURFACES.
Claims use since Jan. 15, 1942.

401,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANLEY AND KINSELLA LABORATORIES, INC., St. Louis, Mo. Filed Mar. 18, 1942. Serial No. 451,714.

2-WAY

FOR NON-SPRAY TYPE LIQUID INSECTICIDE.
Claims use since Mar. 13, 1942.

401,489. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMICAL PRODUCTS COMPANY, Mineola, N. Y. Filed Apr. 7, 1942. Serial No. 452,186.

AIRCRAFT SUPER - CHEMACOL

FOR CHEMICAL FOR REMOVING FOREIGN SUBSTANCES FROM AIRPLANE ENGINES AND PARTS.
Claims use since Mar. 25, 1942.

401,490. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NAT P. STECKLER, doing business as E-Z Products, New York, N. Y. Filed Aug. 6, 1942. Serial No. 454,770.

E-Z

Tankote

FOR COCOA BUTTER U. S. P. AS AN AID FOR SUNBURN, WINDBURN, CHAPPED HANDS, AND USED IN LIQUID, STICK, AND SALVE FORM TO GIVE A COAT OF TAN.
Claims use since January, 1942.

401,491. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ANDREW BROWN COMPANY, Los Angeles, Calif. Filed June 2, 1942. Serial No. 453,408.

RUBBERCOTE

FOR LACQUER COATING FOR WOOD, METAL, FABRIC, OR RUBBER SURFACES.
Claims use since Mar. 20, 1942.

401,492. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) KORN LEATHER COMPANY, Peabody, Mass. Filed Jan. 11, 1943. Serial No. 457,855.

HARDI CHROME

FOR SOLE LEATHER.
Claims use since 1941.

401,493. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MICHIGAN CLAMP COMPANY, Jackson, Mich. Filed Nov. 4, 1942. Serial No. 458,005.

TWISTITE

FOR MECHANICAL PRESSURE UNITS—NAMELY, CLAMPS AND VISES.
Claims use since May 13, 1941.

401,494. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PHONETTE COMPANY OF AMERICA, Los Angeles, Calif. Filed Feb. 13, 1943. Serial No. 458,516.

MEASURED MUSIC

FOR COIN ACTUATED MUSIC PRODUCING APPARATUS AND PARTS THEREFOR.
Claims use since Nov. 4, 1941.

401,495. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAY DEE DRUG CO., Chicago, Ill. Filed Feb. 19, 1943. Serial No. 458,631.

Nu-Color

FOR PREPARATION FOR IMPARTING COLOR TO GRAY HAIR.
Claims use since May 23, 1931.

401,496. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORELLO & DI CARA, New York, N. Y., and Clark Summit, Pa. Filed Mar. 6, 1943. Serial No. 458,945.

The HONOLULU

FOR TOMATOES IN THEIR NATURAL STATE.
Claims use since Aug. 1, 1941.

TRADE-MARK REGISTRATIONS RENEWED

22,797. **COTOSUET.** A SUBSTITUTE FOR LARD. Registered April 11, 1893. SWIFT AND COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed April 11, 1943.

165,304. **"MENDOZA" AND DRAWING.** FURS, SKINS, HIDES, PELTS, AND DYED AND DRESSED FURS FOR USE IN GARMENTS. Registered March 6, 1923. MENDOZA FUR DYEING WORKS, INC. Renewed March 6, 1943, to Henry G. Schlesinger, New York, N. Y., assignee.

165,987. **"UNION" AND DRAWING.** FRESH APPLES. Registered March 27, 1923. SEBASTOPOL APPLE GROWERS' UNION, Sebastopol, Calif., a corporation of California. Renewed March 27, 1943.

166,453. **"SONORA" AND DRAWING.** CANNED VEGETABLES, CANNED FRUITS, AND CANNED FISH. Registered April 3, 1923. R. E. COTTER COMPANY, San Francisco, Calif. Renewed April 3, 1943, to Monterey Canning Company, Monterey, Calif., a corporation of California, successor.

166,598. **"REDFERN" AND DRAWING.** LADIES' SUITS AND COATS. Registered April 10, 1923. THE COHEN, FRIEDLANDER & MARTIN CO., Toledo, Ohio, a corporation of Ohio. Renewed April 10, 1943.

166,674. **"PRINCE" AND DRAWING.** MACARONI. Registered April 10, 1923. PRINCE MACARONI MFG. CO., Boston, Mass. Renewed April 10, 1943, to Prince Macaroni Mfg. Co., Lowell, Mass., a corporation of Massachusetts.

166,816. **ECOMA.** ICE CREAM. Registered April 17, 1923. ERIE COUNTY MILK ASSOCIATION, Erie, Pa., a corporation of Pennsylvania. Renewed April 17, 1943.

166,863. **FASHION LANE.** MEN'S, YOUTHS', AND BOYS' SUITS, AND MEN'S, YOUTHS', AND BOYS' OVERCOATS, INCLUDING RAINCOATS NOT MADE OF RUBBER. Registered April 17, 1923. SANGER BROTHERS, INC., Dallas, Tex., and New York, N. Y. Renewed April 17, 1943, to Sanger Brothers, Inc., Dallas, Tex., a corporation of Texas.

166,899. **GOLDEN WEST.** DRESSED POULTRY. Registered April 17, 1923. SWIFT AND COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 17, 1943.

167,126. **UNCLE WILLIAM.** CERTAIN NAMED CANNED FOODS. Registered April 24, 1923. MARSHALL CANNING COMPANY, Marshalltown, Iowa, a corporation of Iowa. Renewed April 24, 1943.

167,242. **"BLACK BEAUTY" AND DRAWING.** BAKING PANS. Registered April 24, 1923. THE EDWARD KATZINGER COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 24, 1943.

167,245. **VANITY.** BAKING PANS. Registered April 24, 1923. THE EDWARD KATZINGER COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 24, 1943.

167,246. **SLIDEX.** BAKING PANS. Registered April 24, 1923. THE EDWARD KATZINGER COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 24, 1943.

167,347. **REPRESENTATION OF A DIAMOND SHAPED FIGURE.** MATCHES. Registered May 1, 1923. THE DIAMOND MATCH COMPANY, Chicago, Ill. Renewed May 1, 1943, to The Diamond Match Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

167,348. **DIAMOND.** MATCHES. Registered May 1, 1923. THE DIAMOND MATCH COMPANY, Chicago, Ill. Renewed May 1, 1943, to The Diamond Match Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

167,379. **ZIN-OX PADS.** ADHESIVE MEDICATED SHIELDS OR PADS FOR CORNS, CALLUSES, AND BUNIONS. Registered May 1, 1923. THE SCHOLL MANUFACTURING COMPANY. Renewed May 1, 1943, to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York, by change of name.

167,490. **"SANOZONE" AND DRAWING.** DEODORANTS, DISINFECTANTS, INSECTICIDE, ROACH POWDER, PIPE CLEANER, AND SCALE SOLVENT. Registered May 1, 1923. SANOZONE CHEMICAL CO. Renewed May 1, 1943, to R. H. Chapman, Jr., doing business as Sanozone Company, Philadelphia, Pa., assignee.

167,589. **PALUM.** CHEMICAL SUBSTANCE USED AS A WOOD PRESERVER. Registered May 1, 1923. THE CREOLIN CO., Rahway, N. J., a corporation of New Jersey. Renewed May 1, 1943.

167,733. **CHAMPION.** CALCINED GYPSUM, PLASTER OF PARIS, WALL PLASTER, GAUGING PLASTER. Registered May 8, 1923. UNITED STATES GYPSUM COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 8, 1943.

167,736. **CIDOL.** INSECTICIDES. Registered May 8, 1923. WEST DISINFECTING COMPANY, New York, N. Y. Renewed May 8, 1943, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York.

167,792. **"B" IN REPRESENTATION OF A SQUARE.** TRIPOLI FLOUR. Registered May 8, 1923. AMERICAN TRIPOLI COMPANY. Renewed May 8, 1943, to Barnsdall Tripoli Corporation, Seneca, Mo., a corporation of Delaware, assignee.

167,906. **REGALIA.** PREPARATION FOR THE HAIR AND BEARD. Registered May 8, 1923. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn., a corporation of Connecticut. Renewed May 8, 1943.

167,921. **THE THRIFT BOOK OF A NATION.** CATALOGUES PUBLISHED SEMI-ANNUALLY. Registered May 8, 1923. SEARS, ROEBUCK AND CO., Chicago, Ill., a corporation of New York. Renewed May 8, 1943.

168,111. **SWP.** CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Registered May 15, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed May 15, 1943.

168,159. **RED WING SHOES FOR THE FAMILY CIRCLE.** BOOTS AND SHOES OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. Registered May 15, 1923. INTERNATIONAL SHOE CO., St. Louis, Mo., a corporation of Delaware. Renewed May 15, 1943.

168,347. **"SWP COVER THE EARTH" AND DRAWING.** CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Registered May 22, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed May 22, 1943.

168,455. **DRY-O-NITE.** A CERTAIN NAMED DRIER FOR PAINT PRODUCTS. Registered May 22, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed May 22, 1943.

168,637. **BREAKFAST.** FRESH CANTALOUPES. Registered May 29, 1923. EARL FRUIT COMPANY, Sacramento, Calif. Renewed May 29, 1943, to Di Giorgio Fruit Corporation, San Francisco, Calif., a corporation of Delaware, assignee.

168,675. **JELL-WELL.** A COMPOUND OF SUGAR, GELATIN, AND FRUIT ACID, ARTIFICIALLY COLORED AND FLAVORED. Registered May 29, 1923. MILES MANUFACTURING COMPANY. Renewed May 29, 1943, to Jell-Well Dessert Company, Ltd., Los Angeles, Calif., a corporation of California, successor.

168,812. **"QUALITY INN" AND DRAWING.** CANNED FRUITS. Registered May 29, 1923. RICHMOND-CHASE COMPANY. Renewed May 29, 1943, to Richmond-Chase Company, San Jose, Calif., a corporation of California, assignee by mesne assignments.

168,879. **"IVANHOE" AND DRAWING.** FRESH DECIDUOUS FRUITS. Registered May 29, 1923. IVANHOE FRUIT ASSOCIATION, Klink, Calif. Renewed May 29, 1943, to Ivanhoe Fruit Association, Ivanhoe, Calif., a corporation of California.

168,897. **BAQUICK.** SELF-RISING FLOUR. Registered May 29, 1923. NOBLESVILLE MILLING CO., Noblesville, Ind. Renewed May 29, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

169,131. **OVERLAND.** PNEUMATIC TIRES FOR MOTOR-DRIVEN VEHICLES. Registered June 12, 1923. THE WILLYS-OVERLAND COMPANY. Renewed June 12, 1943, to Willys-Overland Motors, Inc., Toledo, Ohio, a corporation of Delaware, assignee by mesne assignments.

169,471. **PERMENTO.** PAINTS (READY-MIXED, PASTE FORM, OR DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered June 19, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed June 19, 1943.

169,472. **SCAR-NOT.** PAINTS (READY-MIXED, PASTE FORM, OR DRY) PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered June 19, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed June 19, 1943.

169,474. **COMMONWEALTH.** PAINTS (READY MIXED, PASTE FORM, OR DRY) PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered June 19, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed June 19, 1943.

169,475. **SHELLACINE.** PAINTS, (READY MIXED, PASTE FORM, AND DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered June 19, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed June 19, 1943.

169,485. **SNUFFITE.** FLINT PAPER AND CLOTH, GARNET PAPER AND CLOTH, EMERY PAPER AND CLOTH. Registered June 19, 1923. AMERICAN GLUE COMPANY, Boston, Mass. Renewed June 19, 1943, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware, assignee by mesne assignments.

169,819. **PINECO.** CANNED PINEAPPLE. Registered July 3, 1923. HAWAIIAN PINEAPPLE COMPANY, LTD. Renewed July 3, 1943, to Hawaiian Pineapple Company, Ltd., Honolulu, Territory of Hawaii, and San Francisco, Calif., a corporation of Territory of Hawaii, assignee.

170,013. **"SEE BOTH WAYS" AND DRAWING.** MIRRORS FOR MOTOR VEHICLES. Registered July 10, 1923. KALES STAMPING COMPANY. Renewed July 10, 1943, to Whitehead Stamping Company, Detroit, Mich., a corporation of Michigan, by change of name.

170,405. **MOGUL.** LEATHER GLOVES, GAUNTLETS, AND MITTENS. Registered July 17, 1923. JOSEPH N. EISENDRATH COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 17, 1943.

170,406. **FOREST KING.** LEATHER GLOVES, GAUNTLETS, AND MITTENS. Registered July 17, 1923. JOSEPH N. EISENDRATH COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 17, 1943.

170,462. **PRIM.** TOILET PREPARATION FOR THE REMOVAL OF SUPERFLUOUS HAIR. Registered July 17, 1923. THE LOWELL COMPANY. Renewed July 17, 1943, to Primrose House, Inc., New York, N. Y., a corporation of Delaware, assignee.

170,531. **"AMERICAN PREMIER" AND DRAWING.** LUBRICATING OILS. Registered July 17, 1923. AMERICAN OIL CORPORATION, Jackson, Mich. Renewed July 17, 1943, to American Oil & Grease Corporation, Chicago, Ill., a corporation of Michigan, assignee.

170,537. **"SWP CUBREN LA TIERRA" AND DRAWING.** PAINTS (READY MIXED, PASTE FORM, AND DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered July 17, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed July 17, 1943.

170,696. **BUBBLES.** CEREAL BREAKFAST FOOD. Registered July 24, 1923. KELLOGG TOASTED CORN FLAKE CO. Renewed July 24, 1943, to Kellogg Company, Battle Creek, Mich., a corporation of Delaware, successor.

170,901. **ALAMO.** SUGAR. Registered July 24, 1923. A. E. STALEY MANUFACTURING CO., Decatur, Ill., a corporation of Delaware. Renewed July 24, 1943.

170,902. **SANGAMO.** SUGAR. Registered July 24, 1923. A. E. STALEY MANUFACTURING CO., Decatur, Ill., a corporation of Delaware. Renewed July 24, 1943.

171,032. **"LARRO" AND DRAWING.** DAIRY AND CATTLE FEED. Registered July 31, 1923. THE LARROWE MILLING COMPANY, Detroit, Mich. Renewed July 31, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

171,109. **LOGAN BRANDS.** BOOK PAPER, COATED AND UNCOATED, BOND PAPER, AND WRITING PAPER. Registered July 31, 1923. THE CHILLICOTHE PAPER COMPANY, Chillicothe, Ohio, a corporation of Ohio. Renewed July 31, 1943.

171,121. **PILOT.** FISH LINES. Registered July 31, 1923. BEVIN-WILCOX LINE COMPANY, East Hampton, Conn., a corporation of Connecticut. Renewed July 31, 1943.

171,135. **"LARRO" AND DRAWING.** DAIRY AND CATTLE FEED. Registered July 31, 1923. THE LARROWE MILLING COMPANY, Detroit, Mich. Renewed July 31, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

171,136. **"LARRO" AND DRAWING.** DAIRY AND CATTLE FEED. Registered July 31, 1923. THE LARROWE MILLING COMPANY, Detroit, Mich. Renewed July 31, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

171,443. **"PAN-DANDY" AND DRAWING.** WHEAT FLOUR. Registered August 7, 1923. WASHBURN-CROSBY COMPANY. Renewed August 7, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

171,810. **"CACTUS" AND DRAWING.** BARBED WIRE. Registered August 14, 1923. GULF STATES STEEL COMPANY, Birmingham, Ala. Renewed August 14, 1943, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey, assignee.

171,811. **"COOSA" AND DRAWING.** BARBED WIRE. Registered August 14, 1923. GULF STATES STEEL COMPANY, Birmingham, Ala. Renewed August 14, 1943, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey, assignee.

171,812. **"CHEROKEE" AND DRAWING.** BARBED WIRE. Registered August 14, 1923. GULF STATES STEEL COMPANY, Birmingham, Ala. Renewed August 14, 1943, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey, assignee.

172,032. **"DIXIE" AND DRAWING.** LUBRICATING OILS AND GREASES. Registered August 21, 1923. HARWOOD BROTHERS, INC., Richmond, Va. Renewed August 21, 1943, to Dixie Distributors Incorporated, Ann Arbor, Mich., a corporation of Michigan, assignee.

172,053. **SUNSET.** CERTAIN NAMED PAINTERS' MATERIALS. Registered August 21, 1923. SUNSET PAINT COMPANY, Los Angeles, Calif. Renewed August 21, 1943, to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa., a corporation of Michigan, assignee.

172,054. **SUN-GLO.** HOUSE PAINT, FLOOR FINISH IN THE NATURE OF A VARNISH, WALL-PAINT, REDUCER, COLOR VARNISH. Registered August 21, 1923. SUNSET PAINT COMPANY, Los Angeles, Calif. Renewed August 21, 1943, to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa., a corporation of Michigan, assignee.

172,346. **"SUNSET" AND DRAWING.** PILLOWS AND CUSHIONS. Registered August 28, 1923. SUNSET FEATHER CO., San Francisco, Calif., a corporation of California. Renewed August 28, 1943.

172,550. **STILLMAN'S.** CREAMS SUITABLE FOR THE TREATMENT OF FRECKLES. Registered September 4, 1923. JAMES HULME BEREMAN, doing business as The Stillman Company, Aurora, Ill. Renewed September 4, 1943.

172,627. **"RECORDS ETERNAL" AND DRAWING.** CARBON PAPER, TYPEWRITER RIBBONS, INKED RIBBONS, AND CARBON-COATED SHEETS. Registered September 11, 1923. H. M. STORMS COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed September 11, 1943.

172,764. **"ZO".** CEREAL BREAKFAST FOOD. Registered September 11, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 11, 1943.

172,885. **PARAMELS.** LAXATIVE. Registered September 11, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 11, 1943.

172,974. **"LA GLOSA" AND DRAWING.** HAIR OILS. Registered September 11, 1923. FOLEY & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 11, 1943.

173,172. **CERO-VITA.** BREAKFAST CEREALS. Registered September 18, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 18, 1943.

173,269. **"ROSEMARY" AND DRAWING.** TABLE DAMASK, TABLE CLOTHS, AND NAPKINS. Registered September 18, 1923. ROSEMARY MANUFACTURING COMPANY, Roanoke Rapids, N. C., a corporation of North Carolina. Renewed September 18, 1943.

173,294. **"GOO GOO" AND DRAWING.** A GRAPE-FLAVORED SUGAR DRINK CONCENTRATE. Registered September 18, 1923. THE HOWDY COMPANY. Renewed September 18, 1943, to The Seven Up Company, St. Louis, Mo., a corporation of Missouri, by change of name.

173,329. **YAK.** FRESH APPLES. Registered September 25, 1923. WILLIAM EMMETT ROCHE, doing business as The Roche Fruit and Produce Co. Renewed September 25, 1943, to W. E. Roche Fruit Company, Yakima, Wash., a corporation of Washington, assignee.

173,385. **"CROWNED LYON" AND DRAWING.** FRESH CANTALOUPES, FRESH CASABA MELONS, FRESH HONEY DEW MELONS, FRESH GRAPES, FRESH LETTUCE, AND FRESH TOMATOES. Registered September 25, 1923. MILLER-CUMMINGS COMPANY, INC., New York, N. Y. Renewed September 25, 1943, to A. Litrov, Los Angeles, Calif., assignee.

173,472. **"ORIOLE" AND DRAWING.** TALCUM POWDER. Registered September 25, 1923. FOLEY & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 25, 1943.

173,488. **BROMOSE.** NUT CEREAL FOOD. Registered September 25, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 25, 1943.

173,501. **SAVITA.** VEGETABLE FLAVORS FOR FOOD-FLAVORING PURPOSES. Registered September 25, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 25, 1943.

167,736. **CIDOL.** INSECTICIDES. Registered May 8, 1923. WEST DISINFECTING COMPANY, New York, N. Y. Renewed May 8, 1943, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York.

167,792. **"B" IN REPRESENTATION OF A SQUARE.** TRIPOLI FLOUR. Registered May 8, 1923. AMERICAN TRIPOLI COMPANY. Renewed May 8, 1943, to Barnsdall Tripoli Corporation, Seneca, Mo., a corporation of Delaware, assignee.

167,906. **REGALIA.** PREPARATION FOR THE HAIR AND BEARD. Registered May 8, 1923. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn., a corporation of Connecticut. Renewed May 8, 1943.

167,921. **THE THRIFT BOOK OF A NATION.** CATALOGUES PUBLISHED SEMI-ANNUALLY. Registered May 8, 1923. SEARS, ROEBUCK AND CO., Chicago, Ill., a corporation of New York. Renewed May 8, 1943.

168,111. **SWP.** CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Registered May 15, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed May 15, 1943.

168,159. **RED WING SHOES FOR THE FAMILY CIRCLE.** BOOTS AND SHOES OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. Registered May 15, 1923. INTERNATIONAL SHOE CO., St. Louis, Mo., a corporation of Delaware. Renewed May 15, 1943.

168,347. **"SWP COVER THE EARTH" AND DRAWING.** CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Registered May 22, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed May 22, 1943.

168,455. **DRY-O-NITE.** A CERTAIN NAMED DRIER FOR PAINT PRODUCTS. Registered May 22, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed May 22, 1943.

168,637. **BREAKFAST.** FRESH CANTALOUPES. Registered May 29, 1923. EARL FRUIT COMPANY, Sacramento, Calif. Renewed May 29, 1943, to Di Giorgio Fruit Corporation, San Francisco, Calif., a corporation of Delaware, assignee.

168,675. **JELL-WELL.** A COMPOUND OF SUGAR, GELATIN, AND FRUIT ACID, ARTIFICIALLY COLORED AND FLAVORED. Registered May 29, 1923. MILES MANUFACTURING COMPANY. Renewed May 29, 1943, to Jell-Well Dessert Company, Ltd., Los Angeles, Calif., a corporation of California, successor.

168,812. **"QUALITY INN" AND DRAWING.** CANNED FRUITS. Registered May 29, 1923. RICHMOND-CHASE COMPANY. Renewed May 29, 1943, to Richmond-Chase Company, San Jose, Calif., a corporation of California, assignee by mesne assignments.

168,879. **"IVANHOE" AND DRAWING.** FRESH DECIDUOUS FRUITS. Registered May 29, 1923. IVANHOE FRUIT ASSOCIATION, Klink, Calif. Renewed May 29, 1943, to Ivanhoe Fruit Association, Ivanhoe, Calif., a corporation of California.

168,897. **BAQUICK.** SELF-RISING FLOUR. Registered May 29, 1923. NOBLESVILLE MILLING CO., Noblesville, Ind. Renewed May 29, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

169,131. **OVERLAND.** PNEUMATIC TIRES FOR MOTOR-DRIVEN VEHICLES. Registered June 12, 1923. THE WILLYS-OVERLAND COMPANY. Renewed June 12, 1943, to Willys-Overland Motors, Inc., Toledo, Ohio, a corporation of Delaware, assignee by mesne assignments.

169,471. **PERMENTO.** PAINTS (READY-MIXED, PASTE FORM, OR DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered June 19, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed June 19, 1943.

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169,475. **SHELLACINE.** PAINTS, (READY MIXED, PASTE FORM, AND DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered June 19, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed June 19, 1943.

169,485. **SNUFFITE.** FLINT PAPER AND CLOTH, GARNET PAPER AND CLOTH, EMERY PAPER AND CLOTH. Registered June 19, 1923. AMERICAN GLUE COMPANY, Boston, Mass. Renewed June 19, 1943, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware, assignee by mesne assignments.

169,819. **PINECO.** CANNED PINEAPPLE. Registered July 3, 1923. HAWAIIAN PINEAPPLE COMPANY, LTD. Renewed July 3, 1943, to Hawaiian Pineapple Company, Ltd., Honolulu, Territory of Hawaii, and San Francisco, Calif., a corporation of Territory of Hawaii, assignee.

170,013. **"SEE BOTH WAYS" AND DRAWING.** MIRRORS FOR MOTOR VEHICLES. Registered July 10, 1923. KALES STAMPING COMPANY. Renewed July 10, 1943, to Whitehead Stamping Company, Detroit, Mich., a corporation of Michigan, by change of name.

170,405. **MOGUL.** LEATHER GLOVES, GAUNTLETS, AND MITTENS. Registered July 17, 1923. JOSEPH N. EISENDRATH COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 17, 1943.

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170,462. **PRIM.** TOILET PREPARATION FOR THE REMOVAL OF SUPERFLUOUS HAIR. Registered July 17, 1923. THE LOWELL COMPANY. Renewed July 17, 1943, to Primrose House, Inc., New York, N. Y., a corporation of Delaware, assignee.

170,531. **"AMERICAN PREMIER" AND DRAWING.** LUBRICATING OILS. Registered July 17, 1923. AMERICAN OIL CORPORATION, Jackson, Mich. Renewed July 17, 1943, to American Oil & Grease Corporation, Chicago, Ill., a corporation of Michigan, assignee.

170,537. **"SWP CUBREN LA TIERRA" AND DRAWING.** PAINTS (READY MIXED, PASTE FORM, AND DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered July 17, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed July 17, 1943.

170,696. **BUBBLES.** CEREAL BREAKFAST FOOD. Registered July 24, 1923. KELLOGG TOASTED CORN FLAKE CO. Renewed July 24, 1943, to Kellogg Company, Battle Creek, Mich., a corporation of Delaware, successor.

170,901. **ALAMO.** SUGAR. Registered July 24, 1923. A. E. STALEY MANUFACTURING CO., Decatur, Ill., a corporation of Delaware. Renewed July 24, 1943.

170,902. **SANGAMO.** SUGAR. Registered July 24, 1923. A. E. STALEY MANUFACTURING CO., Decatur, Ill., a corporation of Delaware. Renewed July 24, 1943.

171,032. **"LARRO" AND DRAWING.** DAIRY AND CATTLE FEED. Registered July 31, 1923. THE LARROWE MILLING COMPANY, Detroit, Mich. Renewed July 31, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

171,109. **LOGAN BRANDS.** BOOK PAPER, COATED AND UNCOATED, BOND PAPER, AND WRITING PAPER. Registered July 31, 1923. THE CHILLICOTHE PAPER COMPANY, Chillicothe, Ohio, a corporation of Ohio. Renewed July 31, 1943.

171,121. **PILOT.** FISH LINES. Registered July 31, 1923. BEVIN-WILCOX LINE COMPANY, East Hampton, Conn., a corporation of Connecticut. Renewed July 31, 1943.

171,135. **"LARRO" AND DRAWING.** DAIRY AND CATTLE FEED. Registered July 31, 1923. THE LARROWE MILLING COMPANY, Detroit, Mich. Renewed July 31, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

171,136. **"LARRO" AND DRAWING.** DAIRY AND CATTLE FEED. Registered July 31, 1923. THE LARROWE MILLING COMPANY, Detroit, Mich. Renewed July 31, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

171,443. **"PAN-DANDY" AND DRAWING.** WHEAT FLOUR. Registered August 7, 1923. WASHBURN-CROSBY COMPANY. Renewed August 7, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

171,810. **"CACTUS" AND DRAWING.** BARBED WIRE. Registered August 14, 1923. GULF STATES STEEL COMPANY, Birmingham, Ala. Renewed August 14, 1943, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey, assignee.

171,811. **"COOSA" AND DRAWING.** BARBED WIRE. Registered August 14, 1923. GULF STATES STEEL COMPANY, Birmingham, Ala. Renewed August 14, 1943, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey, assignee.

171,812. **"CHEROKEE" AND DRAWING.** BARBED WIRE. Registered August 14, 1923. GULF STATES STEEL COMPANY, Birmingham, Ala. Renewed August 14, 1943, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey, assignee.

172,032. **"DIXIE" AND DRAWING.** LUBRICATING OILS AND GREASES. Registered August 21, 1923. HARWOOD BROTHERS, INC., Richmond, Va. Renewed August 21, 1943, to Dixie Distributors Incorporated, Ann Arbor, Mich., a corporation of Michigan, assignee.

172,053. **SUNSET.** CERTAIN NAMED PAINTERS' MATERIALS. Registered August 21, 1923. SUNSET PAINT COMPANY, Los Angeles, Calif. Renewed August 21, 1943, to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa., a corporation of Michigan, assignee.

172,054. **SUN-GLO.** HOUSE PAINT, FLOOR FINISH IN THE NATURE OF A VARNISH, WALL-PAINT, REDUCER, COLOR VARNISH. Registered August 21, 1923. SUNSET PAINT COMPANY, Los Angeles, Calif. Renewed August 21, 1943, to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa., a corporation of Michigan, assignee.

172,346. **"SUNSET" AND DRAWING.** PILLOWS AND CUSHIONS. Registered August 28, 1923. SUNSET FEATHER CO., San Francisco, Calif., a corporation of California. Renewed August 28, 1943.

172,550. **STILLMAN'S.** CREAMS SUITABLE FOR THE TREATMENT OF FRECKLES. Registered September 4, 1923. JAMES HULME BEREMAN, doing business as The Stillman Company, Aurora, Ill. Renewed September 4, 1943.

172,627. **"RECORDS ETERNAL" AND DRAWING.** CARBON PAPER, TYPEWRITER RIBBONS, INKED RIBBONS, AND CARBON-COATED SHEETS. Registered September 11, 1923. H. M. STORMS COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed September 11, 1943.

172,764. **"ZO".** CEREAL BREAKFAST FOOD. Registered September 11, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 11, 1943.

172,885. **PARAMELS.** LAXATIVE. Registered September 11, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 11, 1943.

172,974. **"LA GLOSA" AND DRAWING.** HAIR OILS. Registered September 11, 1923. FOLEY & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 11, 1943.

173,172. **CERO-VITA.** BREAKFAST CEREALS. Registered September 18, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 18, 1943.

173,269. **"ROSEMARY" AND DRAWING.** TABLE DAMASK, TABLE CLOTHS, AND NAPKINS. Registered September 18, 1923. ROSEMARY MANUFACTURING COMPANY, Roanoke Rapids, N. C., a corporation of North Carolina. Renewed September 18, 1943.

173,294. **"GOO GOO" AND DRAWING.** A GRAPE-FLAVORED SUGAR DRINK CONCENTRATE. Registered September 18, 1923. THE HOWDY COMPANY. Renewed September 18, 1943, to The Seven Up Company, St. Louis, Mo., a corporation of Missouri, by change of name.

173,329. **YAK.** FRESH APPLES. Registered September 25, 1923. WILLIAM EMMETT ROCHE, doing business as The Roche Fruit and Produce Co. Renewed September 25, 1943, to W. E. Roche Fruit Company, Yakima, Wash., a corporation of Washington, assignee.

173,385. **"CROWNED LYON" AND DRAWING.** FRESH CANTALOUPES, FRESH CASABA MELONS, FRESH HONEY DEW MELONS, FRESH GRAPES, FRESH LETTUCE, AND FRESH TOMATOES. Registered September 25, 1923. MILLER-CUMMINGS COMPANY, INC., New York, N. Y. Renewed September 25, 1943, to A. Litrov, Los Angeles, Calif., assignee.

173,472. **"ORIOLE" AND DRAWING.** TALCUM POWDER. Registered September 25, 1923. FOLEY & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 25, 1943.

173,488. **BROMOSE.** NUT CEREAL FOOD. Registered September 25, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 25, 1943.

173,501. **SAVITA.** VEGETABLE FLAVORS FOR FOOD-FLAVORING PURPOSES. Registered September 25, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed September 25, 1943.

REISSUES

MAY 18, 1943

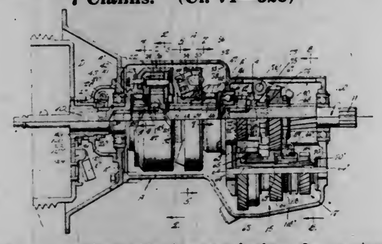
22,312

AUTOMATIC TRANSMISSION

Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware

Original No. 2,262,747, dated November 18, 1941, Serial No. 101,450, September 18, 1936. Application for reissue January 31, 1942, Serial No. 429,099

7 Claims. (Cl. 74—328)



1. In an automatic transmission for automotive vehicles, a casing, a first shaft and a second shaft rotatably mounted in said casing, a planetary gear device adapted to be interposed between said shafts comprising a first gear fixed on said first shaft, a second gear rotatable relative to said second shaft, planet gears meshing with said first and second gears and a planet gear carrier keyed to said second shaft, an overrunning clutch interposed between said planet gear carrier and said first shaft preventing said first shaft from dropping below the speed of said planet gear carrier, a one-way brake interposed between said second gear and said casing permitting said second gear to rotate in one directon but preventing rotation thereof in the opposite direction for rendering said planetary gear device operative, a clutch collar rotatable with said second gear and adapted to engage said planet gear carrier to cause said planetary gear device to operate as a unit, and means for urging said clutch collar toward engaged position, final engagement being under the control of the operator.

22,313

ELECTRIC RESISTOR

Kenneth L. Britton and Reginald O. Eaton, Erie, Pa., assignors to General Electric Company, a corporation of New York

Original No. 2,275,840, dated March 10, 1942, Serial No. 346,612, July 20, 1940. Application for reissue September 19, 1942, Serial No. 459,034

6 Claims. (Cl. 201—74)



1. An electric resistor comprising a supporting metal rod, electrically insulating means loosely mounted upon said metal rod to provide for expansion and contraction of said rod independently of said insulating means, a resistance conductor mounted upon said insulating means, a supporting member made of insulating material at each end of said rod, each of said supporting members being provided with an aperture through which said rod extends loosely so as to be free to expand and contract independently of said supporting member, means on the ends of said rod for securing said supporting members against removal from said rod, and attachment means on said supporting members for securing said supporting members rigidly to a common support in a predetermined fixed spaced relation with respect to each other, said rod being free to expand and contract independently of said insulating means and said supporting members in response to changes in temperature of said rod caused by heating of said resistance conductor.

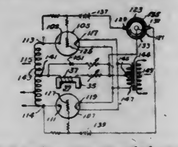
22,314

CONTROL APPARATUS

John W. Dawson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Original No. 1,928,812, dated October 3, 1933, Serial No. 503,484, December 19, 1930. Application for reissue January 11, 1934, Serial No. 706,303

13 Claims. (Cl. 175—363)



1. Control apparatus comprising energy translating means, at least one electric discharge device incorporating a control electrode and a plurality of principal electrodes for transmitting power to said translating means, alternating power supply means for impressing an electromotive force between the principal electrodes of said electric discharge device, means operating in synchronism with said power supply means for alternately applying a distribution of potential between said control electrode and said principal electrodes to maintain said electric discharge device deenergized and another distribution of potential between said control electrodes and said principal electrodes to energize said electric discharge device, and means responsive to the current transmitted by said electric discharge device to maintain said potential-distribution-varying means in synchronism with said power supply means.

22,315

DROP-OUT SWITCH

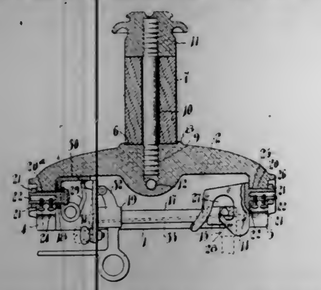
Clifford N. Fry, Toronto, Ontario, Canada, assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware

Original No. 2,264,203, dated November 25, 1941, Serial No. 271,845, May 5, 1939. Application for reissue August 27, 1942, Serial No. 456,382. In Canada September 21, 1938

25 Claims. (Cl. 200—114)

1. In a circuit interrupter of the fuse-released type, an insulating casing closed at the top and having downwardly depending side and end walls, means directly co-operating with said

casing and with a suitable support for rigidly securing said casing in a horizontal position opening downwardly, terminals entering said casing through the opposite ends thereof in horizontally spaced relation, and a fuse-released



switch member co-operatively interposed between said terminals within the casing in a normal substantially horizontal position and adapted to swing downwardly to a substantially vertical position on the rupturing of the fuse.

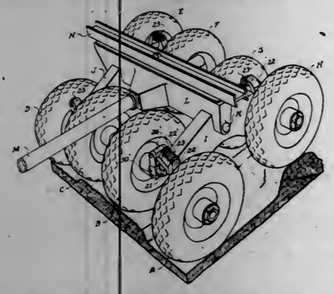
22,316

SHOCK REDUCING AND CUSHIONING WHEEL MOUNTING FOR VEHICLES

Glenn L. Larison, La Grande, Oreg., assignor to Larison Compensating Axle Corporation, a corporation of Oregon

Original No. 2,170,454, dated August 22, 1939, Serial No. 264,361, March 27, 1939. Reissue No. 21,483, dated June 18, 1940, Serial No. 332,416, April 29, 1940. This application for reissue July 7, 1941, Serial No. 401,404

15 Claims. (Cl. 280—81)



1. In a mounting for a pair of vehicle wheels, a vehicle frame, a longitudinal member mounted on said vehicle frame, a pair of wheel-carrying arms, a wheel spindle near the end of each arm, said spindles being substantially perpendicular to the plane of said longitudinal member, and normally in substantially transverse alinement with each other, a hinge connecting each of said arms to said longitudinal member, said hinges having a pivotal axis prependicular to the plane of said longitudinal member, whereby said spindles may be moved up or down with respect to said longitudinal member, but will always be substantially perpendicular to the plane of said longitudinal member and the wheels on said spindles will always be spaced a constant distance from said longitudinal member, compensating linkage joining the spindle-carrying ends of said arms, whereby the vehicle wheels will always carry equal loads, said compensating linkage pivotally mounted on said member, said linkage including resilient means whereby to cushion sudden upward thrusts on either of said arms.

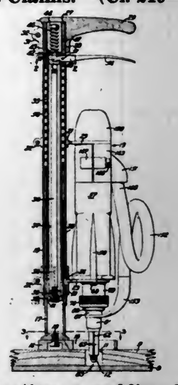
22,317

STUD WELDER

Edward F. Nelson, Vallejo, Calif.

Original No. 2,287,818, dated June 30, 1942, Serial No. 338,179, May 31, 1940. Application for reissue June 30, 1942, Serial No. 449,200

23 Claims. (Cl. 219—4)



9. In combination, a welding head for carrying a first metallic member to be welded to a second metallic member, means for positioning said welding head relative to said second metallic member, and a single self-propelling element in said welding head for moving said first metallic member in a cycle from and toward said second metallic member.

23. In a welding apparatus for welding a stud to a plate through an apertured covering, a welding head including means for holding the stud, a support releasably connected to the welding head and including a hand grip and also a foot on which the apparatus rests upon the covering, and manually operable release means adjacent the hand grip for adapting the welding head and the support to correct their relative positions under the pull of gravity when the stud in the welding head and the support are placed on said plate and covering.

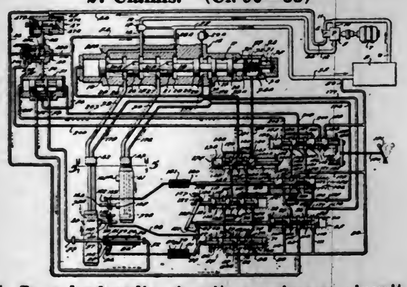
22,318

HYDRAULIC BROACHING MACHINE

Benedict Welte, Lake Orion Township, Oakland County, Mich., assignor to Colonial Broach Company, Detroit, Mich., a corporation of Delaware

Original No. 2,256,332, dated September 16, 1941, Serial No. 203,654, April 22, 1938. Application for reissue June 2, 1942, Serial No. 445,499

27 Claims. (Cl. 90—33)



1. In a hydraulic circuit, a primary circuit, a pair of work performing hydraulic cylinders having one end of each connected in said primary circuit, a valve for controlling said primary circuit so as to move said cylinders simultaneously in opposite directions, a secondary circuit, a work moving hydraulic cylinder connected in said secondary circuit, a single closed circuit interconnecting the opposite ends of said work performing hydraulic cylinders during movement of either cylinder on its work performing stroke, means for blocking said closed circuit to prevent movement of said work performing cylinders during movement of said work moving cylinder, and means for supplying fluid under pressure to all of said circuits.

22,319

FUSE LINK CONSTRUCTION

Alwin G. Steinmayer, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware

Original No. 2,270,225, dated January 13, 1942, Serial No. 420,295, November 24, 1941, which is a division of Serial No. 753,358, November 16, 1934. Application for reissue March 1, 1943, Serial No. 477,531

31 Claims. (Cl. 200—117)

14. A unitary fuse link for insertion into standard expulsion fuse cartridges of varying lengths and bores having upper and lower line terminals and open at its lower end, said link comprising a fusible portion, a flexible terminal portion electrically connected with one end of said fusible portion and of a length permitting said flexible portion to extend out from the open end of said expulsion fuse cartridge for connection with the lower line terminal, a second terminal engaging portion electrically connected with the opposite end of said fusible portion for connection with the upper line terminal, a tubular member surrounding said fusible portion, means retaining said tubular member in place around said fusible portion prior to rupture thereof, said means comprising a coil spring, a bearing surface upon said



second terminal engaging portion for contacting one end of said tubular member, and means coacting with the opposite end portion of said tubular member, whereby a predetermined tension force is applied by said spring to said fusible portion to insure a quick wide separation of its parts upon rupture thereof, said tubular member acting as a compression member resisting tension force prior to rupture of said fusible portion.

PLANT PATENTS

GRANTED MAY 18, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

584

ASTER

John J. Grullemans, Painesville, Ohio, assignor to The Wayside Gardens Company, Mentor, Ohio, a corporation of Ohio

Application November 5, 1942, Serial No. 464,583

1 Claim. (Cl. 47—60)

A new hybrid Novae-angliae aster as herein shown and described; the plant being characterized by its vigorous and generally upright but bush-like, dense and compact growth, tendency of outlying, bloom bearing branches to turn upwardly at their ends and to maintain the blooms borne thereby well off the ground, and by an unusually late blooming habit; and the flowers being characterized particularly by their intense and pure pink color and generally flat disc-like open ray form with comparatively straight, relatively narrow and uniformly spaced petals.

585

PEAR TREE

Wesley F. Shannon, Hood River, Oreg., assignor to Stark Bro's Nurseries and Orchards Company, Louisiana, Mo.

Application March 20, 1942, Serial No. 435,593

1 Claim. (Cl. 47—62)

A new and distinct variety of pear tree, characterized as to novelty by the all-over russet color of the skin of its fruit, the superior and keeping quality of the fruit, and the combination of the white, tender, buttery and juicy flesh with a rich flavor and spicy aroma, substantially as shown and described.

586

ROSE

Jean H. Nicolas, deceased, late of Newark, N. Y., by Fannie Nicolas, administratrix, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y.

Application October 27, 1942, Serial No. 463,526

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climber type characterized as to novelty by the large size and form of the blooms, particularly at its final stage of development, the prolificacy of the bloom and unusual length of the blooming period, the yellow coloring of the bloom flushed with red, and peculiar check-like striping of the petals, and the persistence and disease-resistant leathery foliage of the plant, substantially as shown and described.

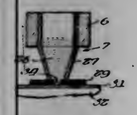
PATENTS

GRANTED MAY 18, 1943

2,319,196
APPARATUS FOR MEASURING THE THICKNESS OF METALLIC PLATING ON BASES

Stanley Anderson and Robert W. Manuel, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois

Application July 24, 1939, Serial No. 286,158
1 Claim. (Cl. 204—195)



An apparatus for measuring electrolytically the thickness of metallic plating, the apparatus having means for attachment to a source of electrical current and in which the plating serves as the anode, comprising in combination a frusto-conical container for an electrolyte, the frusto-conical form of the said container extending immediately upwardly and outwardly from its open bottom, the said container serving as the cathode, a gasket having an aperture therethrough of a diameter equal to the diameter of a local anodic area to be measured, the said gasket aperture being of substantially less diameter than the lower end of the open bottom of the said frusto-conical container, whereby when the said frusto-conical container is placed over the gasket aperture and the current is passed therethrough the distribution of current over the anodic area is substantially uniform throughout.

2,319,197
PRODUCTION OF o-PHENOXY-PHENYL-BENZOATE

Paul W. Bachman, Summit, N. J., and Berndt W. Hammarén, Floral Park, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York

No Drawing. Application January 15, 1940, Serial No. 313,922
2 Claims. (Cl. 260—476)

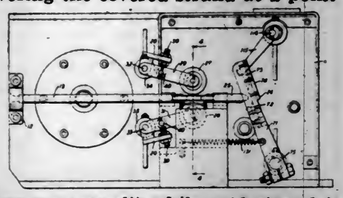
2. The method of producing o-phenoxyl-phenyl-benzoate, which comprises heating diphenyl carbonate mixed with potassium carbonate equal in weight to between about ¼% and about 2% of the weight of the diphenyl carbonate, and maintaining temperature and pressure so correlated as to gradually expel phenol from the mixture and provide a final reaction temperature between 240° C. and 270° C.

2,319,198
APPARATUS FOR SLITTING AND CUTTING CONDUCTORS

William T. Barrans, Towson, Md., Paul M. Cole, Meadville, Pa., and Dan O. Hannan and Duer C. Robson, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 24, 1940, Serial No. 358,132
9 Claims. (Cl. 164—61)

1. In an apparatus for working covered strand material, means for advancing the material, means for intermittently slitting a length of the covering while it is being advanced, and means for severing the covered strand at a point where

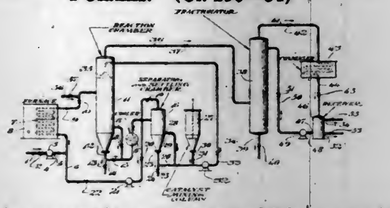


the covering was slit while said strand is being advanced through the slitting means.

2,319,199
CATALYTIC TREATMENT OF HYDROCARBONS

Wayne L. Benedict, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application May 16, 1941, Serial No. 393,704
4 Claims. (Cl. 196—54)



1. A conversion process which comprises cracking hydrocarbon oil while in admixture with a metal halide catalyst in a vertical reaction zone, removing admixed oil and catalyst from the lower portion of the reaction zone and separating from the mixture a relatively clean oil and a liquid containing suspended catalyst, adding charging oil for the process to said relatively clean oil and heating the commingled oils to cracking temperature, introducing the heated oils to the reaction zone at an intermediate point in the height thereof, adding fresh metal halide catalyst to said liquid containing suspended catalyst, introducing the resultant mixture to the upper portion of the reaction zone above said intermediate point, removing vapors from the upper portion of the reaction zone and subjecting the same to fractionation and condensation.

2,319,200
DISPLAY BOOKLET

Clyde Bedell, Park Ridge, Ill.

Application January 10, 1942, Serial No. 426,266
10 Claims. (Cl. 35—53)

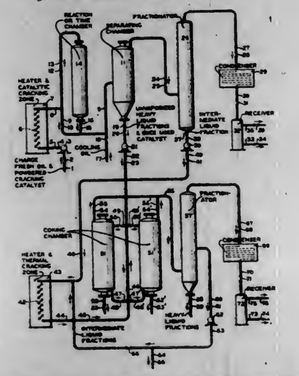


1. A booklet or device for display of composite representations wherein the representations from several sheets may be brought into a variety of different juxtaposed relationships, comprising a plurality of sheets stacked one upon the other in book form, said sheets being folded along a plurality of spaced lines and each providing a plurality of connected leaves bearing respectively different representations, and means adjacent one of said lines connecting said sheets in bound relation.

2,319,201
CONVERSION OF HYDROCARBON OILS

Charles H. Angell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application May 9, 1940, Serial No. 334,148
9 Claims. (Cl. 196—49)



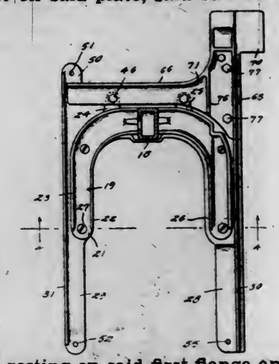
9. A conversion process which comprises subjecting hydrocarbon oil to catalytic cracking conditions in admixture with a powdered cracking catalyst, separating the resultant products into vapors and a residual liquid containing the powdered catalyst, fractionating the vapors to condense heavier fractions thereof, thermally cracking resultant reflux condensate contacting heated products thus formed with said catalyst-containing residual liquid in a vaporizing zone to effect further vaporization of the residual liquid by the heat of said products, and maintaining said vaporizing zone under catalytic conversion conditions to effect further conversion therein with the aid of said catalyst.

2,319,202
SCHOOL DESK SEAT AND SUPPORT THEREFOR

William J. Bargen, Waukegan, Ill.

Application April 8, 1941, Serial No. 387,505
4 Claims. (Cl. 155—134)

3. In a school desk, a pedestal having a U-shaped upper end portion disposed with the bight thereof adjacent one side of the pedestal base and the parallel legs thereof extending in the direction of the other side, a substantially U-shaped plate on said upper end portion having the parallel legs thereof parallel with the legs of said upper end portion and of a length greater than the legs of said upper end portion, a pair of ears carried by said plate extending oppositely from and substantially aligning with the legs of said plate, means securing said plate on said upper end portion, an upwardly extending flange carried by the outer edge of said plate and terminating intermediate the ends of one leg and one ear thereof, a tapering flange at the bight of said plate and extending from one ear to the other ear, a seat engaging on said plate and having a substantial portion thereof extending rearwardly of the latter, and means engaging through said ears and the end portions of the legs of said plate for detachably securing said seat on said plate, said seat at its forward

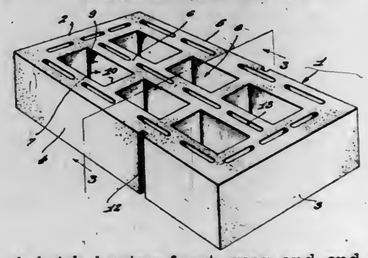


portion resting on said first flange and also resting on said tapering flange whereby said seat will be inclined downwardly from the front to the rear thereof.

2,319,203
BRICK

Martin Branham, Pound, Va.

Application April 16, 1940, Serial No. 329,972
2 Claims. (Cl. 72—41)



1. A brick having front, rear and end walls, a partition extending longitudinally of the brick medially between the front and rear walls and having its ends connected with the end walls, said partition defining inner and outer sections, spaced transverse webs extending between the partition and the front and rear walls and defining ventilation chambers, oblong openings formed in the front and rear walls and in the end walls, certain of the oblong openings in the end walls being of greater length than the thickness of the partition and disposed opposite the ends of said partition and certain of the openings in the front and rear walls being of greater length than the thickness of the webs and disposed opposite the outer ends of the webs, said openings tending to prevent seepage of moisture from the front wall toward the rear wall and from the end walls through said partition to the said front and rear walls each having a rear wall, the outer faces of vertical slot to receive mortar for anchoring the brick to a surface.

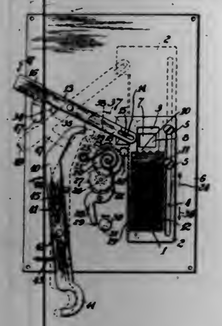
2,319,204
CINEMATOGRAPHIC FADING DEVICE

Jacques Bolsey, New York, N. Y.

Application June 27, 1941, Serial No. 400,049
17 Claims. (Cl. 88—16)

1. In a motion picture camera means for pro-

ducing fading-in and fading-out, and the like, comprising a film gate, driving means for moving a film past said film gate, a movable light reducing member in the path of the light rays impinging through said film gate on said film, means for moving said light reducing member to and fro in front of said film, said moving means including a spring motor adapted to move said light reducing member in one direction, hand-operated means for moving said member in the opposite



direction and simultaneously winding up said spring motor, a speed regulating mechanism for braking the speed of the to and fro movement of said light reducing member and keeping the same substantially constant, and blocking means operated by said hand-operated means for moving said light reducing member, said blocking means adapted to block the movement of the film by said film driving mechanism at the end of each hand-operated fading period.

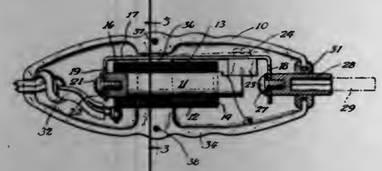
2,319,205

ELECTRICALLY OPERATED TOOTHBRUSH

Foster Buck, Lisle, Ill.

Application April 3, 1939, Serial No. 265,637

3 Claims. (Cl. 128—41)



1. The combination of a casing and an electrically operated tooth brush mechanism or the like, the operating mechanism of which includes a vibratable arm, said casing comprising essentially similar complemental sections which are adapted to form a relatively tight enclosure, the inner surface of each of said sections being provided with a relatively short, narrow upstanding rib which is so constructed and arranged as to frictionally engage one side of said pivoted, vibratable arm of the operating mechanism and positive fastening means to secure the complemental sections together as a unit whereby when the complemental sections are secured together as a unit the mechanism of which the vibratable arm forms a part may be held in position without the necessity for additional fastening means, the parts being so constructed and arranged as to permit movement of said vibratable arm when the operating mechanism is in operation.

2,319,206

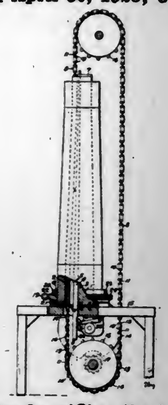
MACHINE FOR RIFLING GUNS

Vannevar Bush, Washington, D. C., assignor to the Government of the United States of America, as represented by the Secretary of War

Application January 23, 1942, Serial No. 427,928

9 Claims. (Cl. 90—28.1)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for rifling the bore of a gun comprising spaced cutters connected in chain fashion, means to guide said cutters in a path substantially parallel to the longitudinal profile of the surface of said bore, said path being constrained by said guiding means to a plane including the axis of the bore, means to advance said cutters along said path, and means to rotate said barrel about its axis as said cutters are advanced whereby said cutters trace helical paths in the wall of said bore.

2,319,207

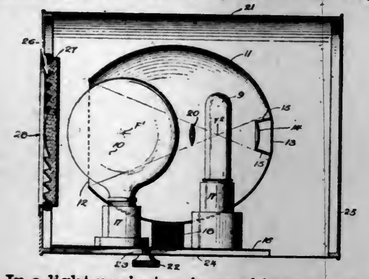
COMBINATION MERCURY MAZDA SPOTLIGHT

Clarence W. Clarkson, Washington, D. C.

Application September 25, 1941, Serial No. 412,227

2 Claims. (Cl. 240—1.1)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a light projector, in combination, an elliptical reflector having smooth polished interior light-reflecting surfaces and including a light-projecting aperture at the front end of said reflector; said aperture being concentric with the axis of projection of the beam, the arrangement being such that the two foci of the elliptical reflector lie in substantial spaced relationship with each other on the said axis of projection, the projection aperture being positioned forwardly of both of said foci; a spherical reflecting surface at the rear end of the elliptical reflector and opposite from the projection aperture, said spherical reflector being of smaller diameter than the projection aperture and arranged to subtend a solid angle with respect to the rear foci of the elliptical reflector opposite and equal to the angle subtended by the projection aperture with respect to the rear foci; a primary light source comprising an incandescent lamp located at the front focus of the elliptical reflector, a secondary light source comprising a mercury vapor lamp located at the rear focus of the elliptical reflector, a condensing lens positioned exteriorly of and in front of the light sources and spaced apart from said aperture, the lens being co-axial with the light sources, the elliptical reflector and the spherical reflector; a secondary condensing lens interposed between the primary light source and the secondary light source, said lens being of a focal length to focus rays emitted from either foci upon the other; common mounting means to maintain the light sources, spherical reflector, secondary condensing lens, and elliptical reflector in fixed relative positions with respect to each other, and adapted to simultaneously shift the light source, the spherical reflector, secondary condensing lens, and the elliptical reflector with respect to the condensing lens, to alter the optical characteristics of the projected light beam.

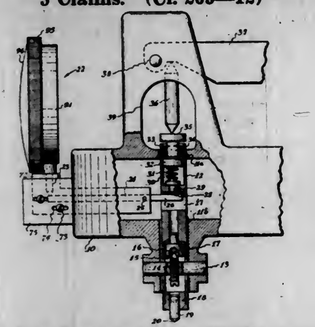
2,319,208

HARDNESS TESTER

Clyde W. Clark, Dearborn, Mich.

Application March 19, 1941, Serial No. 384,083

5 Claims. (Cl. 265—12)



1. In a hardness tester, a spindle upon which is applied a load and whose lower end has a penetrating point, and means for supporting and centering the spindle, the means comprising a stationary cross member to which the spindle is movably connected at a point within a cavity of the latter, a frame having a vertical bore containing but clear of the spindle, with the ends of the cross member, outside the spindle, supported in side walls of the bore, and means for connecting the cross member to the spindle comprising a pin and a block within the spindle cavity, the pin being mounted on and extending upwardly from the cross member and having a cone point receiving a centering cone hole of said block, the latter being in the spindle, the cone point and cone hole forming a spindle bearing centered on the centerline of the spindle.

2,319,209

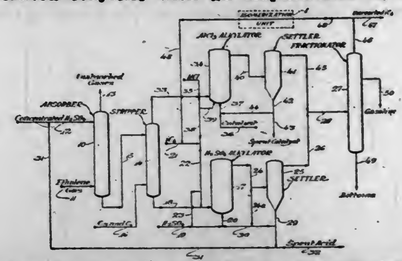
CONVERSION OF HYDROCARBONS

Don R. Carmody, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application February 28, 1942, Serial No. 432,849

7 Claims. (Cl. 196—10)

1. A process for the production of a balanced fuel comprising the steps including contacting at least one olefinic hydrocarbon having more than 2 carbon atoms per molecule with ethylsulfuric acid whereby ethylene is liberated and an alkylsulfuric acid corresponding to said olefinic hydrocarbon is formed, contacting said liberated ethylene with an isoparaffinic hydro-



carbon in the presence of an aluminum halide type catalyst under alkylation conditions, contacting said alkylsulfuric acid with an isoparaffinic hydrocarbon in the presence of strong sulfuric acid under alkylation conditions, recovering alkylate from each of said last mentioned contacting steps and blending said recovered alkylates.

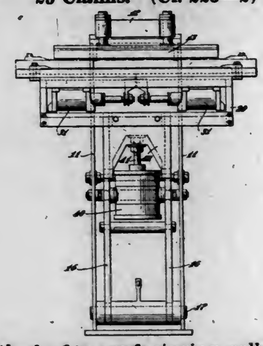
2,319,210

MANUFACTURE OF COLLARS AND THE LIKE

Sanford L. Cluett and George A. Schreiner, Troy, N. Y., assignors to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York

Application April 18, 1940, Serial No. 330,290

25 Claims. (Cl. 223—2)



1. Method of manufacturing collars comprising cutting out the constituent parts of the collar, using sufficient fabric for said parts so that when laundered the collar will not shrink below a certain longitudinal dimension, assembling the collar parts, and applying longitudinal rows of stitches to the collar, then applying longitudinal pressure to the collar as a whole while allowing the longitudinal rows of stitches and the fabric included thereby to draw together lengthwise to an extent such that the collar attains substantially the aforesaid longitudinal dimension, and pressing the collar in this condition.

2,319,211

MANUFACTURE OF COLLARS AND THE LIKE

Sanford L. Cluett and George A. Schreiner, Troy, N. Y., assignors to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York

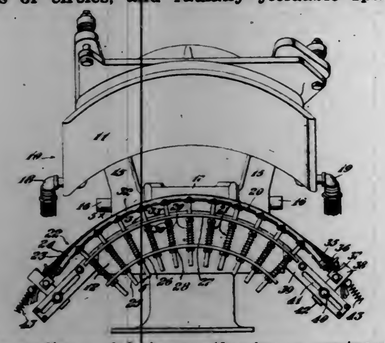
Application April 24, 1941, Serial No. 390,056

In Canada February 1, 1941

17 Claims. (Cl. 223—57)

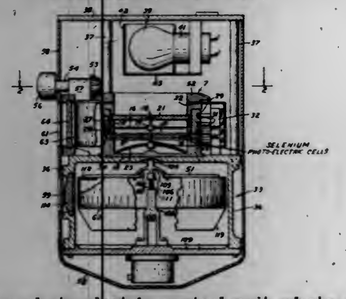
1. A collar press comprising opposed relatively

movable pressure members, a bed of arcuate shape, the bed being longitudinally contractible throughout its thickness, the outer surface of the bed and the opposed surface of one pressure member being adapted to receive between them a collar to be finished, the cross sections of said surfaces each corresponding approximately to arcs of circles, and radially yieldable spacing



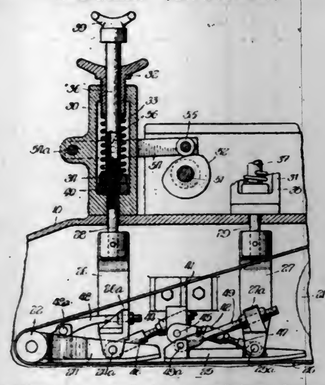
means disposed between the inner contractible surface of the bed and the other said pressure member and comprising radially movable members having their outer ends engaged with the contractible bed so that as the bed is pressed inwardly the places of engagement of the radially movable members with the contracting bed approach each other longitudinally of the bed.

2,319,212
PHOTOELECTRIC CONTROL DEVICE
William L. Cooley, San Carlos, Calif., assignor to Archie A. Baldocchi, San Francisco, Calif.
Application January 18, 1941, Serial No. 375,086
6 Claims. (Cl. 33—204)



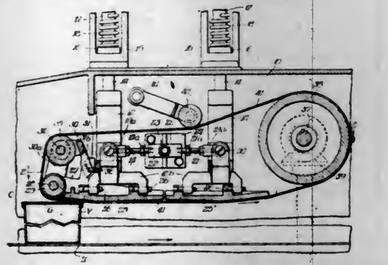
1. In a photo-electric control unit, photo-electric elements providing a plurality of surfaces to be exposed to light, means to project light rays to said surfaces, a shield partially covering the surfaces of the photo-electric elements so as to leave spaced areas of light and shadow over each of said photo-electric elements, a shutter between the said spaced areas of the photo-electric elements and said light rays, said shutter having light admitting portions corresponding to but offset relatively to the uncovered areas of the photo-electric elements so as to uncover the areas of one or another of the photo-electric elements partially or wholly according to the direction and change of degree of relative position between the shutter and the photo-electric elements, means to control the shutter position by a characteristic of an object to be controlled, and means to transmit the electric current from said photo-electric elements to a control circuit.

2,319,213
PACKAGING APPARATUS
Lynn E. Davies, Park Ridge, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application September 25, 1939, Serial No. 296,370
15 Claims. (Cl. 226—80)



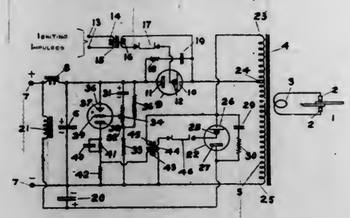
1. Sealing apparatus comprising, in combination, a sealing belt arranged to move about horizontal axes, means for transmitting said belt, shoe sections arranged to bear upon the upper surface of the lower flight of said belt, means for independently adjusting said shoes vertically, and means for selectively changing the inclination of said shoes in the direction of the belt's travel.

2,319,214
SEALING APPARATUS
Lynn E. Davies, Park Ridge, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application April 17, 1940, Serial No. 330,032
17 Claims. (Cl. 226—80)



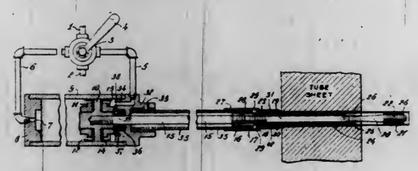
1. In a sealing machine wherein the containers to be sealed are moved progressively by conveyor means, a pressing device under which the containers are moved and which comprises, in combination, an endless flexible belt arranged to travel around horizontal axes and actuated to move its lower flight in the same direction and at the same speed as the containers are moved, shoe supporting means, and a plurality of shoes each extending across the belt and arranged to bear upon the upper surface of said lower flight, said shoes being disposed one ahead of another in the direction of movement of the containers and each being pivotally mounted on the shoe supporting means over the longitudinal median line of the lower flight so as to have transverse oscillatory movement on its supporting means independently of the others.

2,319,215
CONDENSER WELDING SYSTEM
John W. Dawson, Auburndale, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application August 15, 1941, Serial No. 407,034
9 Claims. (Cl. 219—4)



1. A welding system comprising an electrical energy storage device, means for supplying energy to said storage device, a welding load circuit, an additional source of electrical current, means for discharging the energy stored in said storage device into said load circuit, and means operating after a predetermined period of delay after substantially complete discharge of said storage device for connecting said additional source of current to said load circuit in such closely timed sequence as to produce a unitary welding action.

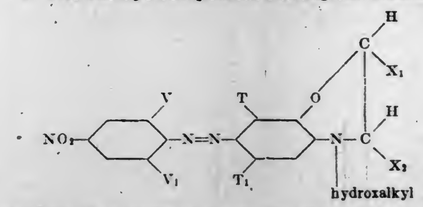
2,319,216
TUBE EXPANDER
Edward A. Dewald, Massillon, Ohio, assignor, by mesne assignments, to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application June 18, 1940, Serial No. 341,080
3 Claims. (Cl. 153—80.5)



3. In apparatus for expanding and drawing a part of a tube disposed in a tube seat formed in a wall of a pressure device, a mandrel having a portion tapered downwardly toward the adjacent end of the tube, an expansible tube drawing head mounted for relative longitudinal movement on the mandrel, a stop on the mandrel adjacent the larger end of said tapered portion, an operator pulling the mandrel out of the tube after the mandrel has been moved so as to position the retracted head within the tube and at a position well beyond the outer end of the tube seat, a retarder separate from the operator and including an element normally positioned in the path of movement of the head or a retarder engaging element moving therewith to prevent the head from moving with the mandrel until the head is effectively expanded, and means releasably mounting the retarder so that its release is effected when the longitudinal force of the mandrel against the expander head reaches a predetermined value.

2,319,217
AZO DYE COMPOUNDS
Joseph B. Dickey and William H. Strain, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 25, 1940, Serial No. 358,292
4 Claims. (Cl. 260—152)

4. The azo dye compounds having the formula:

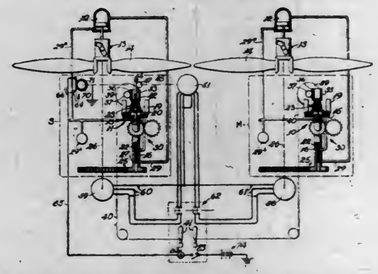


wherein V represents a member selected from the group consisting of hydrogen and a nitro group, V_1 represents a member selected from the group consisting of a halogen atom, a

$$-SO_2N(H)-alkyl$$

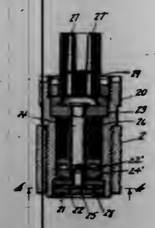
group and a $-SO_2-$alkyl group, T and T_1 each represents a member selected from the group consisting of hydrogen and an acylamino group and wherein at least one of the members T and T_1 must be an acylamino group and X_1 and X_2 each represents a member selected from the group consisting of hydrogen and methyl and wherein at least one of the members X_1 and X_2 must be methyl.

2,319,218
SYNCHRONIZING CONTROL
George Forrest Drake, Rockford, Ill., assignor to Woodward Governor Company, Rockford, Ill., a corporation of Illinois
Application January 2, 1941, Serial No. 372,939
16 Claims. (Cl. 60—97)



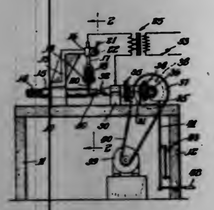
1. A control for matching the speed of one power unit with that of a master unit having, in combination, an adjustable governor controlling the speed of said master unit, a second adjustable governor controlling the speed of said second unit including two individually operable speed adjusting means coacting cumulatively to determine the governor speed setting, manually operable means controlling the adjustment of one of said adjusting means, electromagnetic means controlled selectively in accordance with differences between the speeds of said units, means actuated by said electromagnetic means to actuate said other adjusting means, and means to indicate the position of said second adjusting means approximately midway between the limits of its operating range.

2,319,219
PRESSURE INDICATING APPARATUS
Charles S. Draper, Boston, Mass., and Joseph H. Lancor, Jr., Brooklyn, and Yao Tzu Li, New York, N. Y., assignors to Research Corporation, New York N. Y., a corporation of New York
Application March 29, 1940, Serial No. 326,626
9 Claims. (Cl. 177—311)



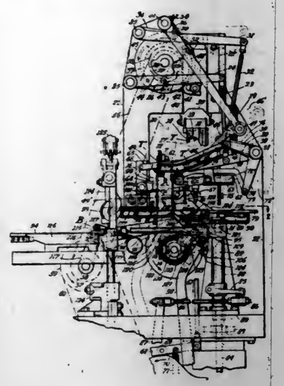
1. In apparatus of the character described, a hollow casing, an outer diaphragm of permeable material closing one end of said casing, an inner diaphragm spaced therefrom, a pole piece of magnetic material mounted on said inner diaphragm and spaced from said outer diaphragm by an air gap, means for producing magnetic flux in said gap variable in accordance with the length thereof and a coil linked with a substantial portion of said flux for generating an E. M. F. in accordance with variations of said flux, said outer and inner diaphragms being adapted to execute vibrations at the same rate when jointly excited by vibration transmitted to said casing.

2,319,220
BRAID SECURING METHOD AND MEANS
David Wendell Fentress, Evanston, and Sidney John Hughes, Maywood, Ill., assignors to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois
Application September 9, 1940, Serial No. 355,882
15 Claims. (Cl. 219—6)



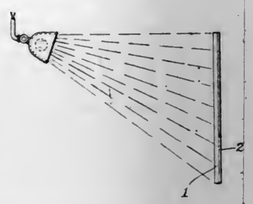
1. Apparatus for forming coupling connections for metal hose provided with metallic braid, comprising a pair of electrode rollers, means for holding a tubing end and associated braid and coupling fitting in position between the electrodes with the braid in encompassing relation with the fitting, means for introducing a braid sleeve around the braid in encompassing relation thereto, means for moving the electrodes relatively toward each other into clamping engagement with the braid sleeve and fitting, and means for rotating at least one of the electrodes while passing current therebetween whereby to produce a circular seam resistance weld between the coupling fitting, the braid sleeve and the braid.

2,319,221
CIGAR BUNCH CUTTING MECHANISM
Lester Ferenci, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Original application January 2, 1937, Serial No. 118,810. Divided and this application December 12, 1940, Serial No. 369,781
5 Claims. (Cl. 146—151)



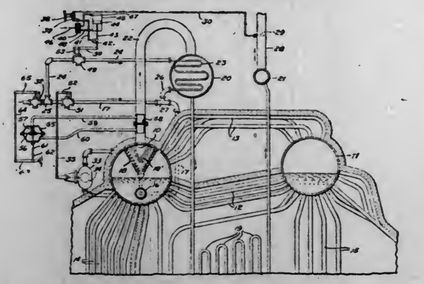
1. In a cigar machine, the combination with members for supporting a vertical column of laminated cigar bunch lengths having corrugated ends, of means for compacting said column vertically to a predetermined density, a horizontal cutter adapted to sever said column horizontally to separate a bunch charge therefrom, mechanism for advancing said cutter horizontally through said column lengthwise of the laminated bunch lengths to sever a bunch charge, means for vibrating said knife horizontally while it is being advanced through said column, and mechanism for transporting the severed charge to bunch rolling position.

2,319,222
FLUORESCENT DEVICE
Warren B. Ferris, Chicago, Ill.
Application December 22, 1941, Serial No. 423,901
4 Claims. (Cl. 250—81)



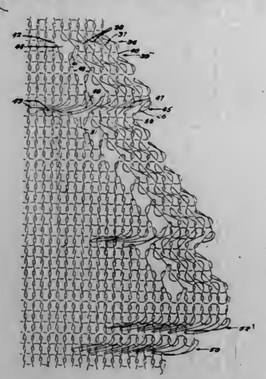
1. The method of making a fluorescent device for use at a distance from a source of ultra-violet light, comprising impregnating plastic material, while in a plastic condition, with fluorescent material and fusing a backing of white non-fluorescent cellulose material to said fluorescent material so that when ultra-violet light is directed upon said plastic material impregnated with fluorescent material, the fluorescent energy within the plane of the plastic material is greatly increased.

2,319,223
METHOD AND APPARATUS FOR TEMPERATURE REGULATION
Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application October 11, 1940, Serial No. 360,825
9 Claims. (Cl. 122—479)



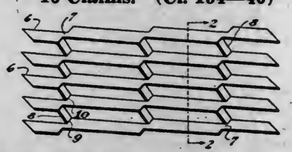
1. The method of superheating vapor which comprises passing unsuperheated vapor from a vapor generating zone and without further heat treatment to a condensing zone, condensing part of the unsuperheated vapor in the condensing zone by indirect contact with a condensing medium, introducing the unsuperheated vapor in admixture with substantially all of the condensate produced in the condensing zone into a superheating zone wherein the condensate is vaporized, and controlling the quantity of vapor condensed to control the final temperature of the vapor.

2,319,224
FULL-FASHIONED HEEL CONSTRUCTION
Joseph Earnest Garrett, Philadelphia, Pa., assignor to Jack Kugelman, Abington, Pa.
Application October 5, 1940, Serial No. 359,956
2 Claims. (Cl. 66—187)



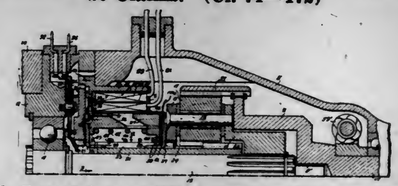
1. In a full fashioned hose, heel fashioning comprising a widened area, the widened area comprising a predetermined number of loops at the edge of the fabric transferred outwardly the distance of one loop in predetermined fashioning courses, a predetermined number of loops at the edge of the fabric of predetermined fashioning courses being transferred inwardly the distance of two loops, the number of loops transferred inwardly being greater than those transferred outwardly, the fabric being formed in each course to the width determined by the loop transfer of the next previous fashioning course.

2,319,225
SUN SCREEN
John J. Grebe, Midland, and Walkley B. Ewing, Grand Rapids, Mich., assignors to Ewing Development Company, Bay City, Mich., a corporation of Michigan
Application January 13, 1941, Serial No. 374,194
16 Claims. (Cl. 154—46)



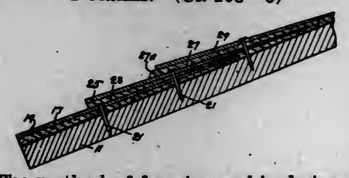
9. In a sun-screen, a series of parallel horizontally disposed strip members which extend across the screen and are offset at intervals along their lengths and are vertically superposed at intervals not greatly exceeding the width of a strip, and legs of sheet material interconnecting the strips at intervals along their lengths.

2,319,226
MOTOR VEHICLE
Walter R. Griswold and James H. O'Brien, Detroit, Mich., assignors to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application March 21, 1941, Serial No. 384,440
20 Claims. (Cl. 74—472)



1. In a drive modifying transmission, a driving shaft, a driven shaft, planetary gearing adapted to establish a driving connection between said shafts and including a driving planet gear carrier, and a sun gear fixed on a shiftable sleeve mounted on the driving shaft and movable into and out of clutched position with said carrier, stationary means engageable by said sleeve in another shifted position to lock said sun gear, a cylindrical solenoid encircling said sleeve and having an interior armature operable to shift said sleeve toward one of said positions, means operable to shift said sleeve toward the other of said positions when the solenoid is deenergized, an electric system connected with said solenoid, and governor means controlling said electric system.

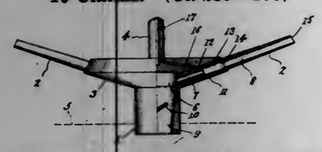
2,319,227
ROOFING SURFACE
James Harris Hardy, Artesia, Miss.
Application July 2, 1941, Serial No. 400,778
4 Claims. (Cl. 108—6)



1. The method of forming a shingle type roofing surface over a roof substructure, which comprises placing over said substructure a sheet of

substantially waterproof material, spreading a thin layer of mortar, having a width of at least tile length, in a strip along the eave edge of said roof, embedding in said mortar, throughout their entire lengths and widths and integrating therewith, substantially abutting, thin tiles and securing said tiles as by nailing, along a line spaced from the butt ends thereof only slightly in excess of a desired exposure distance, spreading over said tiles and substructure and embedding the heads of said nails, a second strip of mortar, substantially of first strip width, spaced from said eave edge said desired exposure distance, similarly embedding therein, and securing a second similar row of tiles, and subsequently repeating the operation until desired roof coverage is complete and all of said mortar is covered by tile, said mortar layers being made of substantially the thickness of the overlying tile portions and being integrated with said tiles into a monolithic roofing structure.

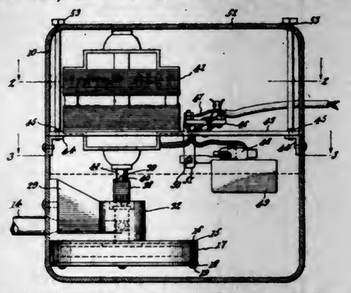
2,319,228
VACUUM PRESSURE PUMP
Lester B. Harrington, Salem, Oreg., assignor of forty per cent to Reynolds Allen, Salem, and fifteen per cent to Clay A. Racely, Portland, Oreg.
Application May 10, 1940, Serial No. 334,433
10 Claims. (Cl. 230—108)



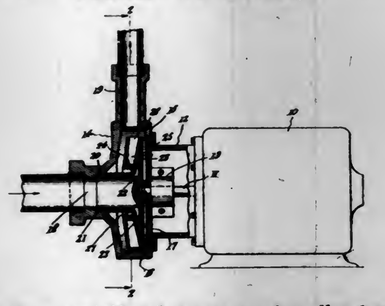
5. A vacuum pump comprising a rotor having a central liquid supply chamber and non-radial passages extending from said liquid supply chamber to and through the outer peripheral edge of said rotor with the outer discharge mouths of the passages trailing the direction of rotation of the rotor, said passages each composed of axially short proximal portions and axially long distal portions, both said portions being in substantial alignment on the axis of the passage, the distal portion of the passage having at its innermost part a space communicating angularly with a source of vacuum and having a diameter greatly in excess of the diameter of the proximal passage portion to induce the formation of a vena contracta in the liquid moving from the proximal to the distal portions of said passage with the vena contracta forming an annular fluid channel in said space, said proximal portion being of progressively increasing diameter from said space to the mouth of the passage.

2,319,229
FUEL PUMP
Lester B. Harrington, Salem, Oreg., assignor of forty per cent to Reynolds Allen, Salem, and fifteen per cent to Clay A. Racely, Portland, Oreg.
Application August 25, 1941, Serial No. 408,257
9 Claims. (Cl. 103—262)

1. In a device as described, a reservoir for containing a body of liquid, a pump impeller located below the level line of liquid in said reservoir and having a passage therein composed of means for forming a vena contracta and means for accelerating the liquid issuing from the vena contracta, a casing for said impeller having a volute internal wall opening at its large end into the liquid space of a reservoir and closed at its smaller end, said casing having a restricted opening to the liquid space of the reservoir and to the inner end of said passage.



2,319,230
CENTRIFUGAL PUMP
Lester B. Harrington, Salem, Oreg., assignor of forty per cent to Reynolds Allen, Salem, and fifteen per cent to Clay A. Racely, Portland, Oreg.
Application August 25, 1941, Serial No. 408,258
6 Claims. (Cl. 103—262)

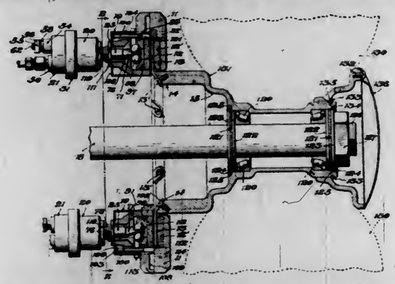


1. In a centrifugal pump, an impeller having passages therein of generally radial disposition but curved at their outer ends to radii of the impeller, said passages composed of inner orifices having restricted cross-sectional area, abruptly enlarged chambers outwardly of said orifices and distal portions of the passages outwardly of said chambers to the periphery of the impeller, said impeller having fluid inlet ports to said enlarged chambers, a hollow neck communicating internally with said inlet ports and extending off one side of said impeller and forming a journal therefor, a casing for the impeller having a liquid intake at one side in communication with the internal space of said hollow neck, a bearing in said casing for said hollow neck, said hollow neck spaced from the inner ends of said passages, said impeller being of a width substantially less than the width of the casing to provide an internal space within the casing beside said impeller communicating both with the inner and outer open ends of said passages, means for driving said impeller, said casing having a volute outer wall, and an outlet for the casing at substantially the largest radius of said volute outer wall.

2,319,231
POWER BOOSTER
Jesse G. Hawley, Painted Post, N. Y.
Application April 24, 1941, Serial No. 390,170
14 Claims. (Cl. 188—152)

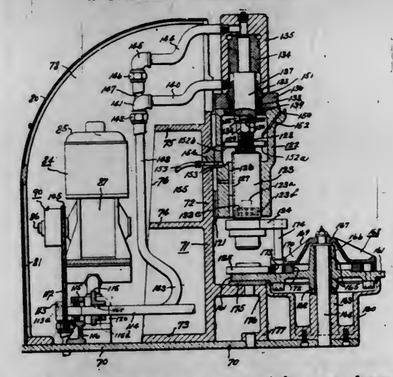
1. A power booster, comprising a power unit

provided with a tapered actuating rod, a concave-faced pressure disc, a plurality of ball bearings interposed between the tapered end of the actuating rod and the face of the pressure disc, and a power head surrounding the actuating rod and preventing movement of the ball bearings in



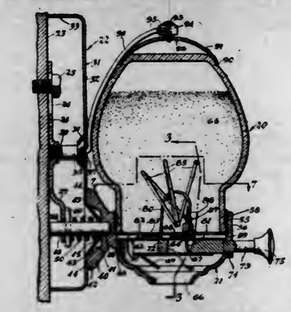
other than a lateral direction, whereby, upon the movement of the actuating rod, its tapered end will force the ball bearings apart against the resistance offered by the pressure disc and deliver a greater pressure against the face of the pressure disc than would be delivered were the actuating rod to bear directly thereagainst.

2,319,232
HYDRAULIC PRESS
John Q. Holmes and Calmer E. Gordon, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 8, 1941, Serial No. 401,544
2 Claims. (Cl. 218—1)



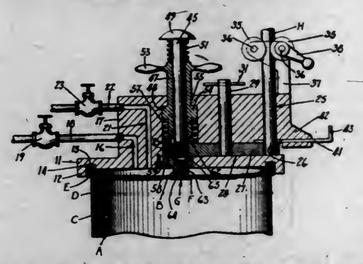
1. A hydraulic press comprising, a base; a frame supported by the base and providing a housing; a ram sub-assembly detachably mounted upon its frame and exterior to the housing and comprising a vertically movable, tool supporting ram, a piston connected with the ram and a fluid pressure cylinder receiving the piston; a dial-feed sub-assembly detachably mounted upon the base and comprising a turn-table for carrying a plurality of work holders adjacent to the ram and the tool carried thereby, and comprising a mechanism for intermittently rotating the turn-table; and a motor-operated mechanism located within the frame housing and operatively connected with the turn-table rotating mechanism and including a cam-operated valve for controlling the passage of pressure fluid into the cylinder of the ram unit and the exhaust of said cylinder in timed relation to movements of the turn-table of the dial feed.

2,319,233
SOAP DISPENSER
Charles W. Hoppe, Buffalo, N. Y.
Application March 10, 1941, Serial No. 382,491
7 Claims. (Cl. 221—104)



1. In a soap dispenser, having a supporting head, a container adapted to contain a supply of soap removably mounted on said head and manually operable dispensing means arranged in said head for discharging a measured amount of soap, said container being provided with an opening leading to said dispensing means, means for securing said head to a wall comprising a wall bracket, and means for swivelly mounting said head on said wall bracket whereby said head and said container can be turned to an inverted position for removal of said container for refilling the same with soap and including a pivot rod secured to said head and having its outer extremity projecting through an opening provided in said wall bracket, bearing means continuously engaging the said outer extremity of said rod in said wall bracket and means arranged in a vertical plane disposed between said bearing means and said head for locking said head in an upright operative position.

2,319,234
METHOD OF SEALING CONTAINERS
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 5, 1939, Serial No. 272,059
7 Claims. (Cl. 226—91)



1. A method of sealing a closed container having a vent hole, which comprises moving a resilient plug and said hole into alignment, compressing the inner portion of said plug into a dimension smaller than the hole to be closed, moving a second plug into alignment with said partially compressed plug, forcing the compressed inner portion of said first mentioned plug into said hole by pressure applied on said second plug while simultaneously compressing the outer portion of said first mentioned plug and also compressing the inner portion of said second plug

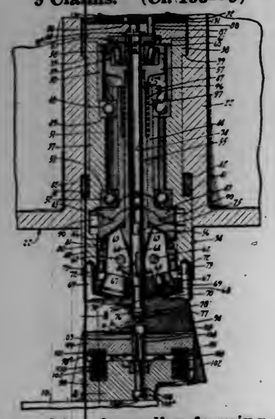
to provide a greater pressure on said first mentioned plug being inserted by the application of the pressure to an uncompressed portion of the second plug, and then stripping the compressed outer portion of the first mentioned inserted plug from the compressing medium to allow said compressed outer portion to expand over and hermetically seal the hole.

2,319,235

RE-FORMING MACHINE

John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application January 21, 1941, Serial No. 375,326
9 Claims. (Cl. 153—9)



1. In a machine for roller forming the nozzle portion of a sheet metal can breast, the combination of means for yieldably supporting the can breast, said means including a stationary can breast centering element, forming rolls engageable with and bodily rotatable around said nozzle portion and movable into and out of engagement therewith for performing a necking-in operation thereon, a vertically movable pilot post engageable with said centering element through said nozzle portion to accurately center the latter relative to said forming rolls, means for positioning said forming rolls in lateral registry with said nozzle portion, means for bodily rotating said rolls, means for forcing said rolls inwardly against the nozzle wall to perform a necking-in operation thereon during said bodily rotation of the rolls, and means movable into engagement with said yieldable can breast supporting means to depress the latter relative to said stationary centering element as an incident to said necking-in operation.

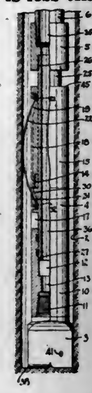
2,319,236

DEFLECTING TOOL

James D. Isaacks and Ralph Jones, Houston, Tex., assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware

Application August 22, 1940, Serial No. 353,604
11 Claims. (Cl. 255—1.6)

1. A deflecting drill bit assembly including a drill stem, a barrel thereon, a collar over said barrel and slidably mounted thereon, interfitting lugs and slots on said collar and barrel, a bow spring arranged longitudinally of the assembly and having one end affixed to said collar and one end to one of said lugs on said barrel so that when said barrel and collar are contracted the spring will be contracted, a drill bit on said sleeve, said barrel and collar having a continuous passage therethru, a plurality of discharge ports in said bit whose total area is less than that of said passage to form a restriction for a flow of liquid through the assembly so that the pressure on the liquid will exert a down thrust on said bit and collar to expand said spring and move the assembly off center of the bore while the bit is suspended off bottom.

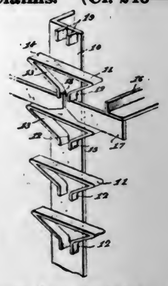


2,319,237

SHELF BRACKET SUPPORT FOR ADJUSTABLE AND RELEASABLE SHELVING

Frederick Kautz, Philadelphia, Pa.

Application August 7, 1941, Serial No. 405,872
10 Claims. (Cl. 248—235)



1. In a support for shelving, an upright support member having a flat face, vertically spaced seat members fixed to the face, each seat having a pair of spaced downwardly extended portions stopping short of the seat member immediately therebelow, a pair of shelf arms adapted to be inserted from opposite horizontal sides of the support member for seating engagement with one of the seat members, said arms lying flush against the flat face of the support member, and being of a height to engage respective downwardly extended portions, and inter-locking means between the arms and downwardly extended portions.

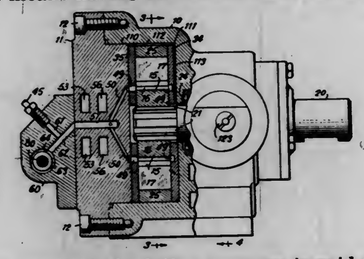
2,319,238

FLUID PRESSURE DEVICE

Charles M. Kendrick, New York, N. Y., assignor to Manly Corporation, Washington, D. C., a corporation of Delaware

Application September 12, 1941, Serial No. 410,527
20 Claims. (Cl. 121—92)

1. In a reversible vane type fluid pressure device, a rotor provided with a plurality of vanes movable inwardly and outwardly thereof, a casing including a track for guiding the vanes in their in-and-out movement and provided with interchangeable high pressure and low pressure areas, means for supplying two fluid pressures one a working pressure and the other a higher pressure, means for connecting either of said areas with said working fluid pressure and the other of said areas with the exhaust, interchangeable high and low pressure ports for the inner ends of said vanes, and valve means controlling the fluid connections for said ports, said valve means having an element movable responsive to reversal of relative pressures in said areas, the movement of said element establishing and dis-establishing fluid connections for said ports, the cycle of movement of said element comprising a range of relatively rapid movement in which one of said ports is disconnected from one of said areas and connected with said higher pressure fluid, a range of relatively slow movement in which both of said ports are connected with said higher pressure fluid and another range of relatively rapid movement in which the other of said ports is disconnected from said higher pressure fluid and connected with the other of said areas.



2,319,239

BOOT

William G. Laird, Maywood, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

Application June 10, 1939, Serial No. 278,509
2 Claims. (Cl. 36—7.3)



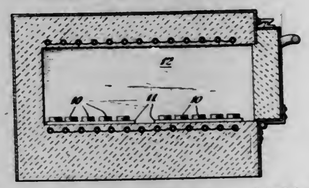
2. An overshoe boot comprising a leg part having a mouth adapted to conform to the trousered upper calf portion of the wearer, when a shoe of a size fitting the boot is fully inserted in the boot, and having a counter portion adapted to overhang and engage the ankle portion and rear counter part of the inserted shoe the shin-covering portion of said leg part being substantially vertical downwardly from said mouth to a point adjacent the upper extremity of the ankle portion of the boot, said point being engageable by the toe of said shoe when the heel of said shoe is disposed at the rear of and within said mouth in the process of putting on the boot, said boot being inclined downward and forward from said point to the rear of the toe of the boot, said inclined portion being spaced from the adjacent portion of the shoe when the shoe is fully inserted, in order not to interfere with bending of the foot at the rear of the toe, the upper rear portion of said leg part from said mouth being inclined downward and rearward, affording with the first mentioned inclined portion fore-and-aft clearance whereby the shoe may be passed to and removed from its fully inserted position without necessitating the holding of the shod foot at an uncomfortably wide angle relative to the leg of the wearer.

2,319,240

ELECTRIC CONTACT AND THE LIKE

Earl I. Larsen and Earl F. Swazy, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

Application March 19, 1940, Serial No. 324,742
2 Claims. (Cl. 75—22)



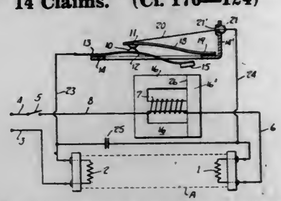
2. The method of making a weldable silver-graphite electric contact element, comprising coating a surface of said element with a refractory paint and then oxidizing the graphite from the exposed surfaces of said element to thereby leave a readily weldable silver face substantially free of graphite.

2,319,241

STARTING SYSTEM AND MECHANISM FOR GASEOUS DISCHARGE LAMPS

Edgar J. Leuthold, Newark, N. J., assignor to Tung-Sol Lamp Works Inc., Newark, N. J., a corporation of Delaware

Application May 11, 1940, Serial No. 334,525
14 Claims. (Cl. 176—124)



14. In a starting control for a gaseous lighting tube having heating electrodes therein and means for connecting the tube across a supply line, the combination of an electromagnet in the supply circuit and a starting circuit comprising a pair of separable contacts and a thermal responsive means, an armature for said electromagnet occupying one position in which it is not operable by said magnet and a second position in which it is operable by said magnet, said armature being biased to close the contacts during the movement from one position to the other, and spring means biased to move said armature into a position to be operated by said electromagnet but being prevented by said thermal responsive means when cold from moving said armature.

2,319,242

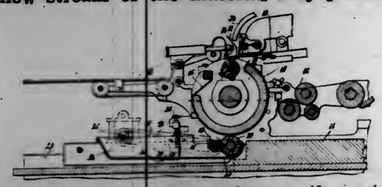
APPARATUS FOR COATING

Samuel Lipsius, New York, N. Y.

Application May 2, 1940, Serial No. 332,886
19 Claims. (Cl. 91—50)

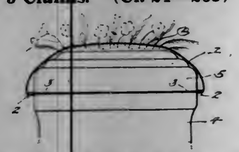
1. An apparatus for coating with a hot melt

type quick setting material which comprises a supply compartment for said material, a gate through which the material may find egress from said compartment, a heated passage along which a shallow stream of the material may pass from



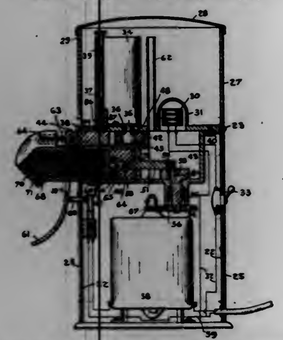
said gate, a coating roll for taking up the material moving along said passage and applying the same to a foundation, doctor means for controlling the thickness of the applied coating, and means for heating the foundation before the hot melt coating is applied thereto.

2,319,243
CASKET FLOWER HOLDER
Walter Livingston, Hastings, Nebr.
Application April 11, 1942, Serial No. 438,655
5 Claims. (Cl. 24—265)



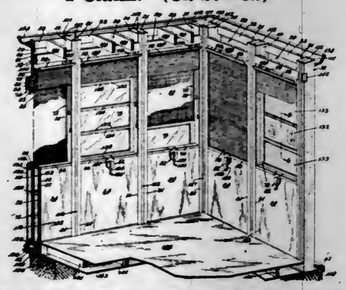
1. In a device for holding a spray of vegetation, or the like, on a coffin lid, a flexible retainer, anchors insertable between the box and the lid of a coffin, means for connecting the anchors to the end portions of the retainer, and enlarged pads, formed from portions of the retainer, and located at the places where the anchors are assembled with the retainer, to constitute handles facilitating the introduction of the anchors between the box and the lid of a coffin.

2,319,244
AUTOMATIC LATHER MACHINE
Pasquale Lo Cascio and Irving Kaufman, Brooklyn, N. Y., and Pasquale Coviello, Woodcliff, N. J.
Application December 7, 1938, Serial No. 244,448
10 Claims. (Cl. 299—83)



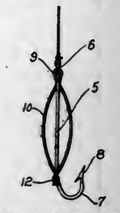
1. An automatic lather machine comprising a water reservoir, a primary soap reservoir, a mixing chamber, a valve having a water passage, and a soap passage adapted to feed water and soap into said mixing chamber, a secondary soap reservoir in said valve, the intake of said secondary reservoir being provided with an inlet having its main portion in register with the outlet of said primary reservoir when said valve is in its closed position, and having a constricted portion in register with said outlet when said valve is in its open position, a delivery spout in which lather may be formed, and means adapted to agitate and to force mixture out of said mixing chamber into said spout.

2,319,245
WINDOW
Edmund H. Lunken, Hartsdale, and George A. Just, Scarsdale, N. Y., assignors to Lunken-Just Window Corporation, Scarsdale, N. Y., a corporation of New York
Application February 15, 1939, Serial No. 256,430
1 Claim. (Cl. 20—52)



A window unit comprising studs; a spandrel extending between the studs at the lower portion thereof, a sash positioned outside the spandrel and slidable along the studs below the floor line and a positive drive for said sash, and a shutter selectively mounted at the bottom of the window unit opposite and at a spaced distance from said spandrel to provide a shield for said sash when lowered and attachable to said sash whereby it may be raised with said sash to provide a shutter for the sash when raised.

2,319,246
BAIT-HOLDING ATTACHMENT FOR FISH-HOOKS
Trevellic O. Martin, Jackson, Tenn., assignor of sixty-five per cent to Elmer S. Miller, Jackson, Tenn.
Application May 19, 1941, Serial No. 394,204
6 Claims. (Cl. 43—40)



1. A device of the class described comprising a hook including a barb and a shank terminating in a line-attaching eye, and a bait holder pivotally mounted in said eye and including spring-pressed arms between which the shank extends, the upper portions of said arms being disposed on one side of the shank and the lower portions on the other side and terminating in gripping jaws adapted to impale the bait and support said bait adjacent the barb of the hook.

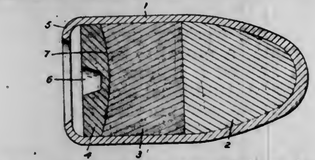
2,319,247
OPACIFIER AND PORCELAIN ENAMEL CONTAINING THE SAME
Glenn H. McIntyre, Cleveland Heights, and Monroe J. Bahnsen, Lakewood, Ohio, assignors to Ferro Enamel Corporation, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application June 26, 1940, Serial No. 342,526
12 Claims. (Cl. 106—312)

1. As an addition opacifier for porcelain enamels the product resulting from the substantially complete sintering of about the theoretical amounts of raw material required for the production of a product having the general formula:

$$XF_4 \cdot YO \cdot ZO_8$$

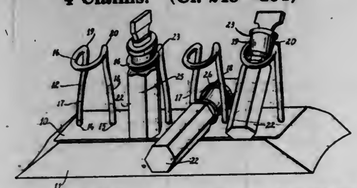
where X is enough atoms of at least one alkaline metal selected from the first and second groups of the periodic system to satisfy the valency of the four atoms of fluorine; Y is enough atoms of at least one alkaline metal selected from the first and second groups of the periodic system to satisfy the valency of the one atom of oxygen, and Z is enough atoms of at least one element selected from the class consisting of Si, Zr and Ti to satisfy the valency of the eight atoms of oxygen.

2,319,248
BULLET
Sterner St. P. Meek, United States Army, Metuchen, N. J.
Application November 27, 1941, Serial No. 420,626
1 Claim. (Cl. 102—87)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A tracer projectile comprising a jacket with an ogival portion extending approximately half the length of said jacket, a cylindrical portion forming the balance of said jacket, inturned ends on the rear of said jacket forming a flange, a heavy metal slug within said jacket filling the ogival portion substantially, a tracer charge behind said slug, an igniting charge behind said tracer, the boundary between said tracer and said igniting charge being concave rearwardly and a depression in said igniting charge facing rearwardly, said igniting charge being spaced from said flange.

2,319,249
BOTTLE DISPLAY DEVICE
Maximilian C. Meyer, Brooklyn, N. Y.
Application May 7, 1940, Serial No. 333,734
4 Claims. (Cl. 248—154)

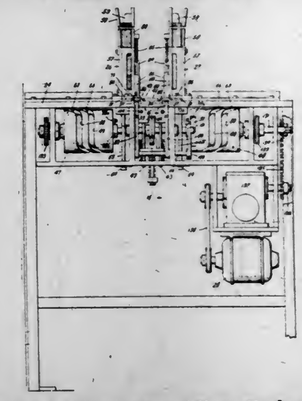


1. A bottle holding and locking device comprising a base, and at least one resilient strand secured to said base at its extremities, said strand having two legs converging upwardly from said base and terminating in a curved portion adapted to grip a bottle neck, said curved portion being at substantially a right angle to said leg portions.

2,319,250
HEAT TREATED COPPER-NICKEL-MOLYBDENUM STEEL ARTICLE AND PROCESS OF MAKING THE SAME
John Mitchell, Chicago, Ill.
No Drawing. Application July 17, 1941, Serial No. 402,850
7 Claims. (Cl. 148—21.5)

1. An oil well sucker rod composed of a steel consisting of not more than 0.3% carbon, from approximately 0.5% to approximately 1% of manganese, from approximately 0.5% to approximately 1.25% copper, from approximately 1.5% to about 3.5% nickel, and from approximately 0.2% to about 0.5% molybdenum, remainder iron except for normal impurities, the sucker rod being characterized by having a normalized and drawn structure imparted by being normalized from above the Ac_3 point of the steel, reheated to a temperature between 800° F. and 1200° F., cooled again in air and drawn at a temperature between 800° F. and 1200° F.

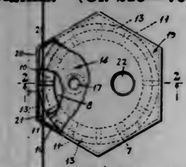
2,319,251
REACTOR
Armin F. Mittermaier, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application March 9, 1940, Serial No. 323,235
16 Claims. (Cl. 29—84)



1. The method of assembling E-shaped core laminations with conductive winding structures or coils for electromagnetic induction apparatus which comprises the steps of selecting a group of such laminations forming a stack of sufficient thickness to form a core, placing laminations at the top and bottom of the group with the legs of the E projecting beyond the remainder of the group of laminations and retaining remaining laminations with their outlines in registry, bending the projecting portions of the middle legs of the laminations at the top and bottom of the group toward each other, also bending the projecting portions of the outer legs of the laminations at the top and bottom of the group toward each other but bending them farther than the said middle legs, inserting the middle leg of the group of laminations into the coil window with

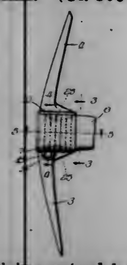
the laminations at the top and bottom of the group in advance and thereafter further inserting the remaining laminations to bring all the laminations in registry.

2,319,252
CLOSURE
Georges Monnet, New York, N. Y., assignor to Guardian Merchandising Corporation, Montreal, Quebec, Canada, a corporation of Quebec, Canada
Application June 6, 1940, Serial No. 339,058
4 Claims. (Cl. 215—76)



1. In a closure, an elastic closure member firmly fitting into a beaded flange-like mouth of a container, and a rotary hard cap covering said elastic closure member and said flange-like mouth and having inner surfaces contacting outer surfaces of said elastic closure member, said elastic closure member having a passage formed therein which is enclosed by outwardly converging surfaces, said cap having an opening formed therein and adapted to communicate with said passage, said flange-like mouth having a surface comprising a plurality of radially extending ribs and grooves formed between said ribs, said cap having a skirt having grooves formed therein and engaging said ribs.

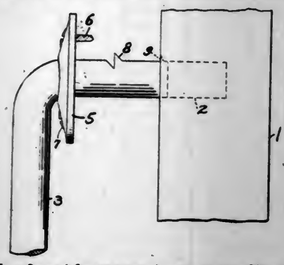
2,319,253
TOOL
Ernest C. Neal, Chicago, Ill., assignor, by direct and mesne assignments, to John A. Marzall, Chicago, Ill., as trustee
Application November 8, 1940, Serial No. 364,766
5 Claims. (Cl. 306—27)



1. A tool comprising a tool head having a side opening therein, a handle adapted to be received sideways into said opening, a member for closing said opening, means for drawing the member into locking engagement with the handle, and means within said opening having a cam surface thereon extending toward the handle, whereby the handle is laterally wedged in place when said member is drawn into locking engagement therewith.

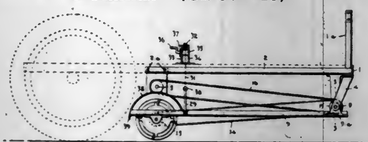
2,319,254
HARDWARE
Herbert W. Nesnberz, Gardner, Mass.
Application September 17, 1941, Serial No. 411,190
6 Claims. (Cl. 287—20)

3. In an article of the class described, the combination of a support, and a means forming a bore in said support; with a rod having an end enterable in said bore, a projection on said rod and spaced from said end a distance to enter the



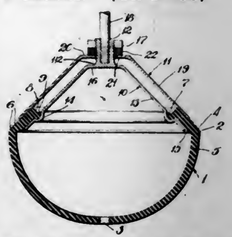
material of said support surrounding said bore when said rod end is entered therein, a loose plate adapted to be secured to said support in position to be engaged by said projection, and separate means securing the plate to the support.

2,319,255
GROUND WORKING DEVICE
Rolland A. Norton, Norfolk, Va.
Application July 20, 1939, Serial No. 285,603
5 Claims. (Cl. 97—40)



1. In a ground working device, the combination of a frame; a plurality of brackets on said frame, each having a hollow trunnion; a shaft journaled in said trunnions; a collar loosely about each trunnion; an arm on each collar; a second shaft journaled in said arms; a rotary cutter member on said second shaft; means adapted to rotate said first shaft; and means adapted to drive said second shaft by rotation of said first shaft.

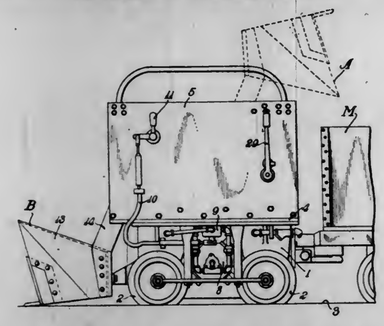
2,319,256
TANK BALL
John J. O'Hare, Ridgefield, Conn., assignor to American Rubber Products Corporation, New York, N. Y., a corporation of New York
Application March 28, 1942, Serial No. 436,675
5 Claims. (Cl. 4—56)



1. The combination of a yieldable hollow valve member having a conical flange extending radially inward from one end thereof, two conical plastic, imperforate shell members nested into one another with the outer zones thereof gripping said flange in place, the inner shell having a flat top with a chambered cylindrical extension extending outwardly therefrom and integral

therewith, the extension being externally and internally threaded, the outer shell having a flat top with an opening therein to receive said cylindrical extension, a yieldable washer mounted on said cylindrical extension and disposed on the top of said outer shell, and a collar screw threadedly engaging the said cylindrical extension and washer and operative to draw said shells toward one another and to grip said flange between them, the internal thread of said extension being provided screw threadedly to receive a connecting rod.

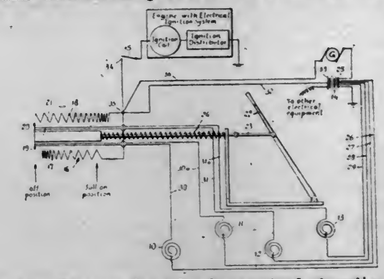
2,319,257
MATERIAL LOADING APPARATUS
Robert C. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application June 5, 1941, Serial No. 396,743
15 Claims. (Cl. 214—132)



1. In a shovelling mechanism, the combination comprising a portable base, a frame swivelled on said base to turn horizontaly relative thereto, a shovel, a shovel support pivotally mounted on said swivelled frame to swing in a vertical direction relative thereto, means for effecting vertical swinging movement of said shovel support, and means operated by an element of said shovel swinging means independently of any direct actuation by said shovel or its support for automatically centering the shovel relative to the base as said shovel swings vertically, said automatic centering means including a pair of option relative to said frame, and cooperating abuted for concurrent movement in the same direcpositely acting centering-effecting elements guidment elements on said base.

2,319,258
ELECTRIC BRAKE CONTROL SYSTEM
William F. Penrose, Irvington, N. J., assignor to Empire Electric Brake Corporation, a corporation of Delaware
Application September 4, 1940, Serial No. 355,327
10 Claims. (Cl. 188—158)

1. In an automotive vehicle including an engine having an electrical ignition system, a battery, an ignition switch in circuit between said battery and said ignition system, front and rear wheel electrically operated brakes, and a brake controller having separate front and rear wheel brake control circuits, a circuit for connecting the brakes, controller, ignition switch and battery which comprises means electrically connecting one terminal each of the front and rear wheel brakes to one terminal of the battery, means connecting the other terminal of the rear wheel brakes to one terminal of the rear wheel brake control circuit of the controller and means electrically connecting the other terminal of the front wheel brakes to one terminal of the front wheel brake control circuit of the controller, means connnecting the other terminals of both

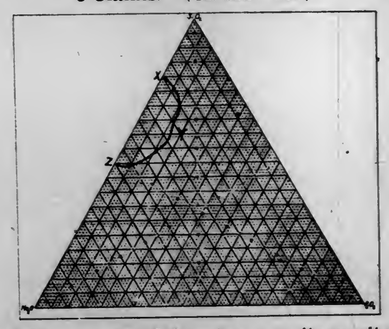


front and rear wheel brake control circuits of the controller to the other terminal of the battery, and means connecting the ignition switch directly to the battery-connected terminals of the front and rear wheel brake control circuits of the controller.

2,319,259
CONTACT
Chester Peterson, Short Hills, N. J., assignor to The H. A. Wilson Company, a corporation of New Jersey
No Drawing. Application October 29, 1941, Serial No. 417,000
9 Claims. (Cl. 200—166)

1. A contact combination for making and breaking direct current which comprises a cathode selected from the group consisting of silver and silver alloys containing metal of the platinum group in proportions up to 30% and a cooperating anode of silver alloyed with a metal selected from the group consisting of copper, gold, mercury and tin in substantial proportions but not exceeding 30%.

2,319,260
CHEMICAL COMPOSITION
Alexis G. Pincus, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 10, 1939, Serial No. 303,849
3 Claims. (Cl. 252—135)



2. The process of forming a unitary vitreous chemical composition, which is soluble to a marked extent in water and is adapted to act as a cleaning agent and as a water softening agent, comprising forming a mixture consisting of silica within the range of 50 to 80% by weight, sodium carbonate of an amount sufficient to yield

20 to 50% by weight of sodium oxide, and an ingredient resulting in phosphorous pentoxide of from a fraction of 1 to 12% by weight, fusing said mixture and so controlling the temperature of fusion within some narrow range between 1800° F. and 2800° F. according to the particular batch being melted so as to produce a unitary vitreous composition.

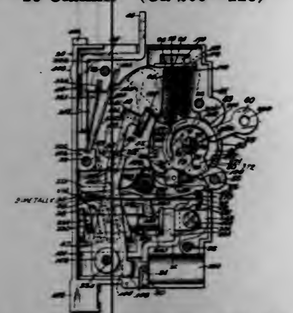
2,319,261
STABILIZING CHLORINATED HYDROCARBONS
Arthur L. Pitman, Berkeley, Calif., assignor to Westvaco Chlorine Products Corporation, South Charleston, W. Va., a corporation of Delaware
No Drawing. Application June 26, 1940, Serial No. 342,580
9 Claims. (Cl. 260—652.5)

4. As a composition of matter, a chlorinated hydrocarbon solvent of the class consisting of trichlorethylene and perchlorethylene stabilized by the presence therein of a small amount of a compound having the formula



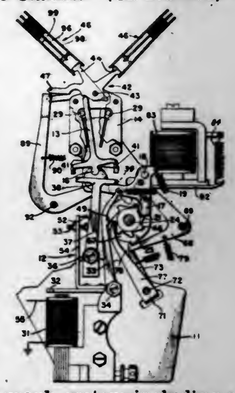
wherein each of the constituents R_1, R_2 and R_3 is selected from the class consisting of alkyl groups, aryl groups and hydrogen.

2,319,262
CIRCUIT BREAKER
Frank J. Pokorny, Philadelphia, Pa., assignor to I.-T.-E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 27, 1940, Serial No. 331,984
19 Claims. (Cl. 200—116)



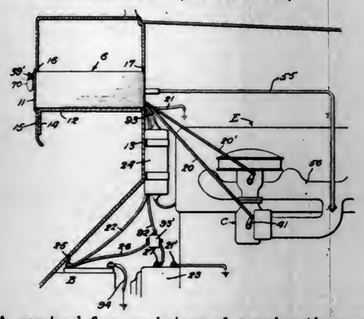
11. In a circuit interrupter, a fixed contact, a movable contact, means biasing said movable contact toward engagement with said fixed contact, an interposer movable to cause separation of said contacts and insert itself between them, said interposer comprising means of insulating material having an edge effective to cut off an electrical arc between said contacts and means other than said edge for causing separation of said contacts, a thermal element for initiating the operation of said interposer, said thermal element being mounted in spaced relation to a means for initiating the operation of said interposer, said thermal element comprisng a bi-metallic strip; a lug on said support, a resilient metallic member supported at said lug; said metallic member carrying said thermal element, and an adjustment for changing the spacing between the thermal element and said means for initiating the operation of said contact separating means.

2,319,263
MULTIPLEX EXTENSOR
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application August 13, 1941, Serial No. 406,700
15 Claims. (Cl. 178—70)



1. In a telegraph system including a start-stop simplex line, a multiplex line, a multiplex retransmitting distributor connected to said multiplex line, and a telegraph extension apparatus to extend communication from said simplex line into said multiplex line through said distributor, said mechanical extension apparatus including a selector mechanism responsive to code signal combinations received over said simplex line, a plurality of storage levers to be conditioned by said selector mechanism, a plurality of contacts connected to said distributor and operated directly by said storage levers to condition said distributor in accordance with code signal combinations received from said simplex line, and means to transfer the condition of said selector mechanism to said storage levers in succeeding groups.

2,319,264
AUTOGOVERNOR
George A. Robbins, Hilliar Township, Knox County, Ohio
Application August 24, 1939, Serial No. 291,792
27 Claims. (Cl. 290—38)

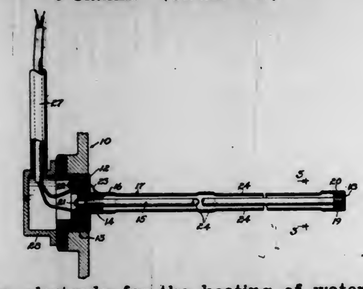


1. A control for an internal combustion engine having starter motor and ignition systems with normally open circuits, and choke and throttle valves for controlling the fuel intake of said engine, said control comprising: common manual means operable by movements through a distance for closing said motor and ignition system circuits, and operable by further movement through an additional distance for operating the throttle and choke valves of said engine, means controlled by the operation of the engine after the starting thereof to open the circuit through said starting motor and maintain the circuit broken so long as the engine is in operation, and means operable upon the release of said common manual means for moving the choke and throttle valves to normal position.

2,319,265
AZO DYESTUFFS
Swanie S. Rossander, Chiles E. Sparks, and Carl W. Maynard, Jr., Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 25, 1940, Serial No. 358,296
11 Claims. (Cl. 8—44)

1. A printing paste comprising an aryl diazo salt and one of a group consisting of the aliphatic carboxylic acids and their soluble metallic salts.

2,319,266
ELECTRIC WATER HEATER
Harry A. Rush, Glendale, Calif.
Application May 20, 1941, Serial No. 394,300
6 Claims. (Cl. 219—40)



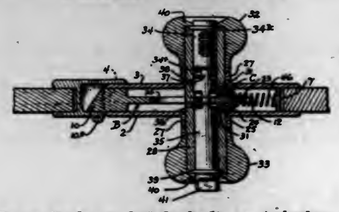
1. An electrode for the heating of water by passage of current through the water composed of a material including iron, the iron in the material being in nonmagnetic condition.

2,319,267
INDIVIDUAL MULTILAYER FIBROUS RESIN-BEARING ARTICLE
Edward E. Sawyer, Waterville, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association, as trustee
Application May 14, 1941, Serial No. 393,368
2 Claims. (Cl. 229—2.5)



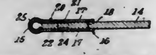
1. An individual multilayer fibrous article of dished shape, comprising a plurality of superimposed pre-formed resin bearing fibrous layers of complemental size and shape compacted and finished under heat and pressure, one of said layers being a body layer die-molded from an aqueous pulp mixture containing a substantial amount of fibre and a water-insoluble resin distributed uniformly throughout said layer, and another of said layers being a finishing layer die-molded from an aqueous fibrous pulp mixture, dried, and thereafter impregnated with a resin dissolved in a solvent, and dried, the resin in each layer being distributed substantially uniformly throughout said layer, and the proportionate amount of resin to fibre in said finishing layer being appreciably greater than the proportionate amount of resin to fibre in said body layer, the fibrous structure of said layers being substantially unchanged, except for compacting, from their original die-molded shape and presenting an article substantially free from defects caused by wrinkles, folds or breaks in the fibrous structure, and the cured resin in the finishing layer giving a hard, smooth, enamel-like finish to the exposed surface of said layer and with the cured resin in the body layer furnishing a bond between the contacting surfaces of said layers.

2,319,268
DOOR LOCK
Walter R. Schlage, Burlingame, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a corporation of California
Application March 28, 1941, Serial No. 385,663
9 Claims. (Cl. 70—153)



1. In a lock, a latch bolt, a tubular spindle whereby the latch bolt is actuated, a dog for dogging the spindle against rotation, a rotatable member within the spindle controlling the position of the dog to dog or undog the spindle, and means actuated by depression of the latch bolt for moving the dog out of dogging position if the spindle is dogged.

2,319,269
WRIST WATCH STRAP
Abraham Schwalberg, Brooklyn, N. Y.
Application March 20, 1939, Serial No. 262,915
16 Claims. (Cl. 224—4)

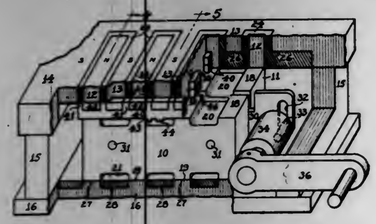


1. A watch strap comprising a thick length of leather, a member forming an eye for connection with a wrist watch stitched to an end of said strap and comprising a short relatively thin strip of leather having a tensile strength greater than that of a commensurately thin portion of said relatively thick leather, and a metallic member secured to said thick length of leather and having a metal hook disposed beyond the end of said thick length of leather and within the eye formed by said mentioned strip of leather.

2,319,270
PERMANENT MAGNET CHUCK
Frank L. Simmons, Woonsocket, R. I.
Application July 12, 1940, Serial No. 345,189
12 Claims. (Cl. 175—367)

2. A magnetic chuck comprising a work supporting plate having two sets of alternately arranged, isolated pole pieces of opposite polarity, a permanent magnet, means whereby the magnet may be connected in magnetic circuit with

the associated pole pieces or alternatively the magnetic circuit may be broken, and a movably mounted shunting device separate from the magnet which has magnetic material arranged for



movement to engage and connect work plate pole pieces of opposite polarity at points apart from their work engaging face portions when said circuit is broken, or alternatively to disconnect the same.

2,319,271

HYDROGENATED POLYCYCLOPENTADIENE RESIN

Frank J. Soday, Upper Darby, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

No Drawing. Application March 18, 1939, Serial No. 262,655

11 Claims. (Cl. 260—80)

11. Benzene-soluble hydrogenated benzene-soluble resinous polycyclopentadiene, said product ranging from light in color to colorless in character.

2,319,272

PATCHING MATERIAL FOR RUBBER GOODS

Delano T. Starr, San Gabriel, Calif.

Application November 20, 1940, Serial No. 366,500

6 Claims. (Cl. 154—43)



1. A patch for rubber articles comprising an adhesively coated elastic sheet and a temporary inelastic protective cover sheet adhesively attached to the elastic sheet, said cover sheet having a channel in its surface penetrating partly through the thickness of the cover sheet and retaining the remaining thickness in an imperforated state adapted to easy rupture and to release from adhesion by oppositely exerted strains subjected to the elastic sheet in directions at right angles to said channel.

2,319,273

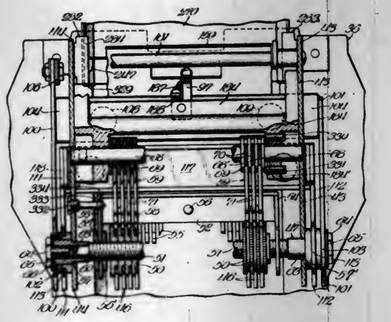
STENOGRAPHIC MACHINE

John G. Sterling, Chicago, Ill., assignor to Stenographic Machines Inc., a corporation of Illinois

Application December 16, 1939, Serial No. 309,582

9 Claims. (Cl. 197—9)

1. In a stenographic machine of the class described, a frame, a threaded key lever shaft mounted on the frame, a plurality of key levers on the shaft, and spacers thereaded onto the shaft with one spacer between each pair of key



levers for adjusting the clearance between the spacers and the levers.

2,319,274

MACHINE FOR APPLYING PRESSURE TO SOLES AND SHOES

Frank E. Stratton, Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application July 24, 1940, Serial No. 347,174

89 Claims. (Cl. 12—37)

3. In a shoe machine, a conveyor, a plurality of work receiving units on said conveyor, a fixed abutment associated with the conveyor, and a fluid motor movable with the conveyor and so connected to the abutment that the conveyor is operated by the reaction of the fluid motor against the abutment.

2,319,275

TUBE

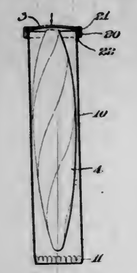
Charles A. Tome, Wilmington, Del.

Application March 27, 1941, Serial No. 385,477

2 Claims. (Cl. 229—5.7)

1. A container comprising a flexible tube, a ring having an inner groove enclosing the tube,

and a resilient closure disk positioned within the tube and ring, the edge of said disk forcing the



wall of the tube into the groove and holding it there in sealed relation.

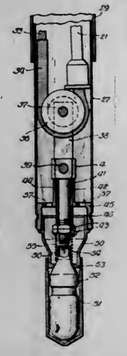
2,319,276

CIRCUIT INTERRUPTING APPARATUS

Hugh A. Triplett, Wilmette, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware

Application April 27, 1942, Serial No. 440,628

9 Claims. (Cl. 200—120)



9. In circuit interrupting apparatus, in combination a body of arc extinguishing material having a bore, a pair of relatively movable terminal members between which an arc is adapted to be formed, one of said terminal members being located adjacent one end of said bore and the other being rod-like in character and movable through said bore, a replaceable capsule containing material which when released is in the form of an arc extinguishing fluid, a diaphragm sealing said capsule, said replaceable capsule being movable together with said rod-like terminal member, means providing relative movement between said capsule and said rod-like terminal member, said capsule and rod-like terminal member being biased apart, means for arresting movement of said capsule when it has been moved to a specified position while said rod-like terminal member continues to move, and means operated as a result of movement of said rod-like terminal member after movement of said replaceable capsule has been arrested for rupturing said diaphragm to release said arc extinguishing fluid into said bore and the arc space for assisting in extinguishing an arc that may exist between said terminal members and for blowing out of said bore products of the arc deposited on the surface thereof and likely to facilitate restriking.

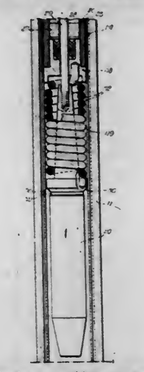
2,319,277

CIRCUIT INTERRUPTING APPARATUS

Hugh A. Triplett, Wilmette, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware

Application December 30, 1940, Serial No. 372,217

14 Claims. (Cl. 200—120)



1. In circuit interrupting apparatus, in combination, a fuse tube, a mass of solid arc extinguishing material in said tube having a relatively long narrow bore extending vertically therethrough, a relatively infusible terminal at the upper end of said bore, a rod-like terminal substantially filling and movable downwardly through said bore, fusible means interconnecting said relatively infusible terminal and the upper end of said rod-like terminal and preventing downward movement of the latter, and a weight attached to the lower end of said rod-like terminal to provide sufficient inertia therefor so that when the same is released on blowing of said fusible means the downward reaction of the resulting blast does not materially increase the rate at which said rod-like terminal is accelerated over that due to the force of gravity acting alone, said weight being disposed wholly within said fuse tube as long as said fusible means remains intact and being arranged and adapted to have at least a portion thereof project out of said fuse tube after said fusible means has blown to indicate that the same has occurred.

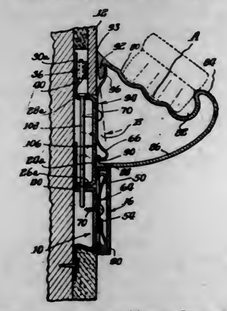
2,319,278

DISPLAY BOARD CONSTRUCTION

Leon F. Urbain, Chicago, Ill.

Application October 18, 1939, Serial No. 299,925

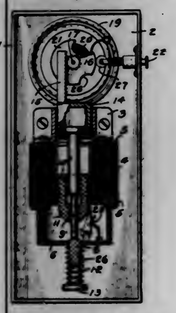
18 Claims. (Cl. 35—67)



1. A building construction for supporting a display board or the like, comprising a ground strip defining a wall recess, said ground strip

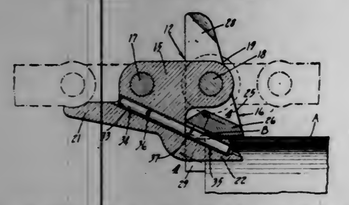
mounting a display board in said recess, peripherally-spaced pressure means interiorly of said recess, and means operatively mounted for movement in the plane of said display board and transversely to the said ground strip and being constrained for shiftable movement in said path to extend across said recess for holding a display board against said pressure means in predetermined relationship thereto.

2,319,279
CURRENT DIFFERENTIATED TIMING MECHANISM FOR THE PURPOSE OF TRIPPING CIRCUIT BREAKERS OR SWITCHES
Bruce O. Watkins, Tucson, Ariz.
Application August 29, 1941, Serial No. 408,731
4 Claims. (Cl. 200—97)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



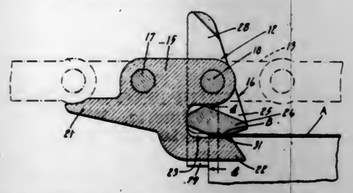
1. In a delay mechanism for tripping-out circuit breakers and the like having a trip-out mechanism, the combination of a rotatable cam adapted in one position to actuate said trip-out mechanism, a spring adapted to rotate said cam from a position remote from said actuating position to said actuating position at a predetermined rate of acceleration, a second spring more powerful than the first adapted to rotate said cam from said actuating position to said remote position and electro-mechanical means for overpowering said second spring and permitting said first named spring to rotate said cam at its predetermined rate of acceleration.

2,319,280
CONVEYER
Magnus E. Widell, Cincinnati, Ohio, assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 17, 1941, Serial No. 394,011
4 Claims. (Cl. 198—179)



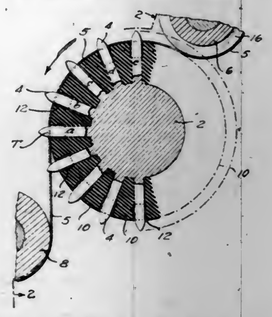
1. A conveyer gripping device for can bodies and the like, comprising a pair of jaws carried by said conveyer and cooperatively mounted for relative movement, one of said jaws having a rearward extension thereon engaging said conveyer for holding the jaws against tilting movement relative to their supporting conveyer, one of said jaws having a key projection thereon arranged for cooperation with the other jaw in gripping a wall of the can body and locally bending a portion of the same to lock the can body against axial rotation, a said jaw having a lug engageable and movable by the can body for bringing said jaws together in clamping position on the can body.

2,319,281
CONVEYER
William P. Winters, Cincinnati, Ohio, assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 17, 1941, Serial No. 394,001
3 Claims. (Cl. 198—179)



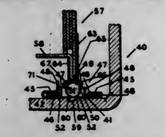
1. A gripping device for can bodies and the like, comprising a pair of jaws capable of relative movement, one of said jaws having means to hold it against turning relative to a can body engaged thereby, a lug engageable and movable by the can body for bringing said jaws together to clamp a wall of the can body therebetween, an integral ridge projecting from the face of one of said jaws and cooperating with an aligning recess in the face of the opposing jaw to form a locking indentation in the wall of the can body when the jaws are in clamping position whereby to lock the can body positively against rotation relative to the jaws.

2,319,282
SPROCKET FOR FEEDING FILM
William L. Woolf, Bayside, Long Island, N. Y., assignor, by mesne assignments, to Amertype Recordgraph Corporation, Elizabeth, N. J., a corporation of Delaware
Application February 20, 1940, Serial No. 319,836
5 Claims. (Cl. 74—243)



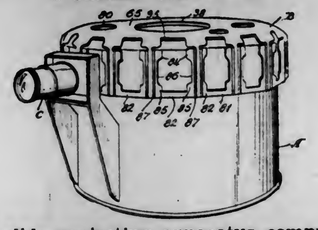
3. A sprocket wheel for feeding a perforated sound record film, said wheel having a core of hard material provided with sprocket teeth rigid with the core, said core being covered with a drum of resilient material, the exterior surface of which is smooth and having a low co-efficient of friction in respect of the film surface.

2,319,283
CONTAINER AND PARTS THEREFOR
Philip Zalkind, New York, N. Y.
Application June 2, 1938, Serial No. 211,384
1 Claim. (Cl. 308—6)



A friction reducing glide comprising a rail, inturned flanges extending longitudinally of said rail, a truck mounted upon said rail; flanges upon said truck; said truck flanges being captured by said inturned flanges and preventing lateral movement of said truck relative to said rail, ball bearings mounted upon said rail, perforations in the truck of less diameter than said ball bearings, capturing said ball bearings and permitting movement of said ball bearings longitudinally upon said rail; and slots in the face of said truck of greater diameter than said ball bearings.

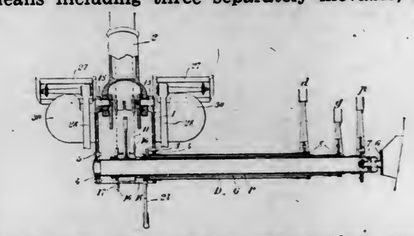
2,319,284
PROJECTION APPARATUS
Charles W. Zwirn, New York, N. Y.
Application September 8, 1941, Serial No. 410,035
2 Claims. (Cl. 88—27)



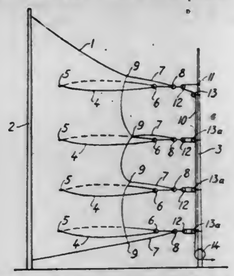
1. A slide projecting apparatus comprising a supporting base and a substantially cylindrical housing extending upwardly therefrom, an inverted cup-shaped slide holding canopy formed of a top portion and a lateral peripheral portion, means for rotatably mounting said canopy on said supporting base and overlying the top of said housing, a light projector mounted within said housing to project light through a projection opening at the upper portion of one peripheral section of said housing, means in said housing to rotate said canopy in a horizontal plane in stepwise fashion to bring successive slides into the projection field, and a projection lens assembly mounted on said base in projection alignment, and disposed on the outside of said canopy and laterally thereof on the side opposite said light projector, said canopy having slide receiving frames formed in the lateral portion thereof provided with vertical lateral grooves for the slide holders and having openings at the top of said lateral portion and in said top portion of said canopy for facilitating the charging and removal of the slide holders associated with said canopy.

2,319,285
PILOTING SYSTEM FOR AIRCRAFT
Félix Amiot, Neuilly-sur-Seine, France; vested in the Alien Property Custodian
Application August 5, 1939, Serial No. 288,679
In France January 9, 1939
2 Claims. (Cl. 244—83)

2. In an aircraft having a fuselage, three separately movable control surfaces mounted thereon, a support member, means mounting said support member in said fuselage and a plurality of manual control means corresponding, respectively, with said control surfaces movably mounted on said support member, unitary transmission means including three separately movable, coaxial shafts journalled in one another, means mounting said unitary transmission means on said support member, means operably connecting each of said shafts with one of said control surface means and the corresponding manual control means, and swivel means mounting one end of said transmission means on said fuselage.



2,319,286
SHEET ARRANGEMENT FOR THE STRETCHING OF SURFACES
Halvor Tobias Heyerdahl Andresen, Oslo, Norway; vested in the Alien Property Custodian
Application October 4, 1940, Serial No. 359,788
In Norway October 9, 1939
3 Claims. (Cl. 114—102)

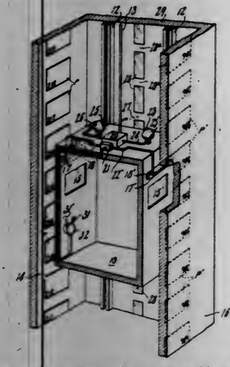


1. An air flow device comprising a flexible airfoil supported at its forward edge and spread so as to react to air flow, in combination with stretching means connected thereto, said stretching means comprising a plurality of lines connected with said airfoil at spaced points forward of the after edge thereof and extending rearwardly on both sides of said airfoil, rings carried on said lines and disposed rearwardly of the after edge of said airfoil, means connecting said rings with the after edge of said airfoil, a main sheet, and means connecting said rings to said main sheet.

2,319,287
DISPLAY SYSTEM
Morton Arendt, New York, N. Y.
Application May 15, 1940, Serial No. 335,277
7 Claims. (Cl. 88—16)

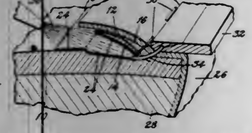
6. In a display system, a plurality of stationary linearly spaced display scenes, a vehicle movable opposite said display scenes, a discharge lamp arranged on said vehicle, means in circuit with said lamp for intermittently flashing it in synchronism with the movement of said vehicle past said scenes, said means including a light respon-

sive element carried on said vehicle, members arranged in a path parallel with that of said scenes for causing a light beam to intermittently impinge on said element in accordance with the speed of said vehicle and the position of each



scene for correspondingly operating said means to flash said lamp intermittently on said scenes, and apparatus for causing each flashing of said lamp to be for a short duration that is independent of the vehicle speed.

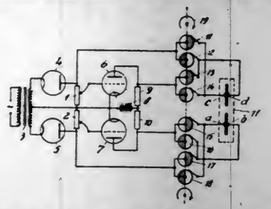
2,319,288
SHOE AND METHOD OF MAKING THE SAME
Corwin W. Baker, Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 23, 1942, Serial No. 448,078
8 Claims. (Cl. 12—142)



1. That improvement in the manufacture of shoes which consists in providing the inner face of the sewing rib and the adjacent surface of the body portion of a ribbed insole with a coating of plastic material in a dry or hardened condition thereby reinforcing said rib, assembling said insole and an upper on a last, tensioning the upper over the last and securing the margin of the upper in overlasted position upon the insole, stitching the overlasted upper margin, together with a welt, to the rib of the insole, softening said coating and laying the coated rib substantially flat against the coated portion of the insole body, and allowing said coating to become hardened or set and thereby rendered effective to secure the rib permanently in its substantially flat condition to the insole.

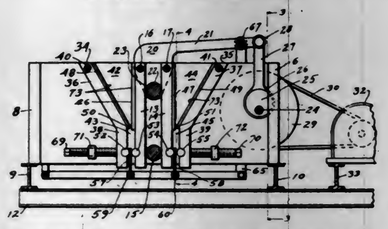
2,319,289
CONTROLLING KERR-CELLS
Carlheinz Becker, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian
Application February 19, 1941, Serial No. 379,692
In Germany February 28, 1940
14 Claims. (Cl. 179—100.3)

1. In a method of controlling Kerr-cells when making records in half-waves intensity records, the steps of suppressing direct current generated by the Kerr-cell voltage by continuously reversing the polarity with regard to the voltages across said electrodes, by means of a suitable commutator, the frequency of reversal of polarity being chosen so low that it is below the frequency range to be recorded and electrolytically effective direct



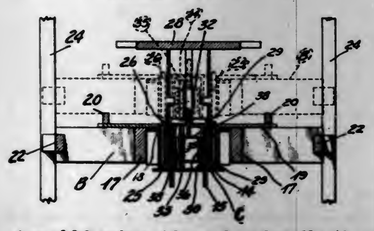
current is not yet generated, while said reversal of polarity of the voltages is effected in so short periods of time that no records upon the sound trace are produced hereby.

2,319,290
CRUSHER
August H. Beisner, Los Angeles, Calif.
Application October 1, 1941, Serial No. 413,202
8 Claims. (Cl. 83—53)



2. In a grinding device for rock and the like, a frame, a hopper supported by the frame having side walls, rocker means attached to one of the walls for reciprocating it in an arcuate-like movement so as to trap the rock between it and the other wall, and grinding surfaces upon the walls adapted to bite into the rock, said walls converging toward their bottom ends to form a narrow passage, said passage operating to pass crushed rock at a predetermined size, a set of spaced apart grinders beneath the passage, and a reciprocatory plate between the grinders, means to reciprocate the plate and maintain it between the grinders.

2,319,291
MOLD BOX
Jesse H. Besser, Alpena, Mich.
Application June 10, 1939, Serial No. 278,521
4 Claims. (Cl. 25—121)



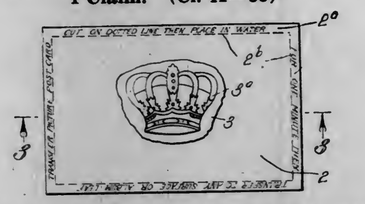
1. A mold having side and end walls, the upper edges of the side walls extending a predetermined distance above the end walls, cores open at the lower ends supported in said mold, a pallet forming a support for said walls and a closure for the lower open end of the cores, and means for admitting air into said cores during the removal of the cores from the moulded unit.

2,319,292
GARMENT
Henry Renick Boggs, Chicago, Ill., assignor to Richards, Boggs & King, Inc., Chicago, Ill., a corporation of Delaware
Application January 2, 1941, Serial No. 372,736
4 Claims. (Cl. 2—96)



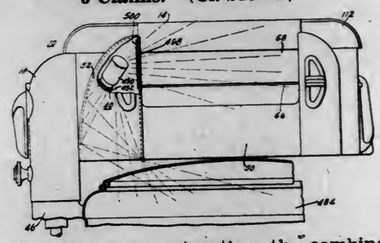
1. As a new article of manufacture, a garment formed of flexible material and embodying a pair of opposed margins adapted to be brought together into lapped relation in connection with wearing of the garment, and also embodying means for releasably securing said margins together comprising a permanent magnet-piece on one of the margins and a coacting piece mounted on the other margin in alignment with the magnet-piece and formed of such material that it is attracted into adhering relation with said magnet-piece when brought into close proximity thereto.

2,319,293
TRANSFER PICTURE POST CARD
Arthur Braunstein, San Diego, Calif.
Application August 21, 1940, Serial No. 353,454
1 Claim. (Cl. 41—33)



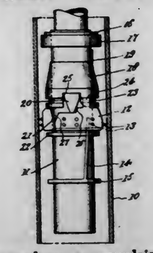
In a transfer picture postcard of the class described, the combination of a postcard, a transferable image retaining layer positioned on one side thereof, said postcard consisting of a postcard member and an image layer supporting sheet member, said image layer supporting sheet member provided with outline margin portions and secured at said outline margin portions only to said postcard member, adhesive material arranged between said postcard member and said image layer at the outline margin only to secure said postcard member and said image layer supporting sheet member together at the magin, said image layer supporting sheet member provided with perforate line portions defining said outline margin portions.

2,319,294
WASHING MACHINE WRINGER
Frank Breckenridge, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 23, 1939, Serial No. 275,164
3 Claims. (Cl. 240—2)



2. In a wringer construction, the combination of a frame having clothes chutes disposed on opposite sides thereof and hollow shoulders extending transversely of the frame at adjacent ends of the clothes chutes, a pair of rolls journaled in the frame and disposed intermediate the clothes chutes, said shoulders having respective apertures therein on opposite sides of the rolls and lighting means arranged within the respective hollow shoulders, the construction and arrangement being such that light is projected through said apertures upon both sides of the rolls and upon both of said clothes chutes.

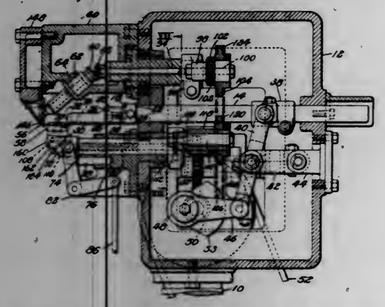
2,319,295
WELL PACKER
Drake Brookshire, New Orleans, La.
Application August 12, 1941, Serial No. 406,550
2 Claims. (Cl. 166—10)



1. In a well packer, a working barrel or tube section, a packing thereon, expanding means through which the barrel may drop to cause riding of the packing out on said expanding means, said expanding means having a groove therein, catching sections having a substantially V-cut therebetween mounted adjacent said expanding means and having clamp means engaging said groove to permit said expanding means to rotate with respect to said catching means but to entrain the expanding means against axial motion with respect to the catching means during dropping movement of the barrel, a wedge spreader on said barrel moved by the barrel through said cut when the barrel is dropped, said spreader movable angularly with the barrel out of registering position with said cut to lock the barrel against relative axial movement with the catching means, an abutment fixed on the barrel be-

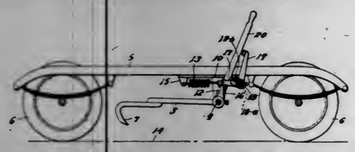
low said catching means, and means on the barrel for lightly urging said catching sections outwardly.

2,319,296
SOLE-ROUNDING MACHINE
Charles G. Brostrom, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 13, 1941, Serial No. 414,705
12 Claims. (Cl. 12—85)



1. In a sole-rounding machine, a reciprocatory rounding knife, a member engaging a shoe-bottom and exerting thereon a constant force tending to advance the work to receive the action of the knife, an actuating member for the work-engaging member, and means for reducing the effect of the actuating member upon the work-engaging member while the rounding knife is in the work.

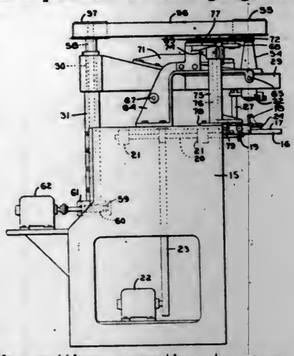
2,319,297
EMERGENCY BRAKE FOR VEHICLES
Dominick J. Cieri, Hartford, Conn.
Application October 13, 1941, Serial No. 414,725
8 Claims. (Cl. 188—5)



1. For a vehicle, an emergency brake mechanism including a rocker shaft, a road-gripping member carried by said shaft for engaging the road, means for urging rotation of said shaft to force said member into engagement with the road, a dog on said shaft, a pawl for engaging said dog to retain said member out of engagement with the road, and means for operating said pawl to cause it to disengage said dog and permit said member to be brought into contact with the road.

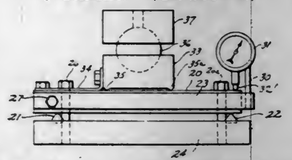
2,319,298
HEEL CONCAVING MACHINE
George Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation
Application April 11, 1941, Serial No. 388,113
9 Claims. (Cl. 12—46)

1. In a machine for concaving heels, a cutter, a heel holding jack operable to feed the heel into the cutter, a gauge against which the peripherial edge of the attaching face of the heel is held by said jack during its cutting operation, and acting to guide it in a predetermined path with respect to the cutter and automatic means to vary the relative position of said gauge and cutter



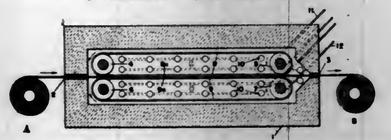
during the cutting operation to vary the wall thickness and rim width of the heel seat.

2,319,299
MEANS OF MEASURING LOADS
Frederick J. Converse, Pasadena, Calif.
Application October 18, 1939, Serial No. 300,001
5 Claims. (Cl. 265—1)



1. A device for measuring relatively large loads which includes: a base; a simple beam; a support near each end of said beam, for supporting said beam on said base; means holding said beam to said base but not restraining the deflection of said beam; a tangent member rigidly attached to one end of said beam and extending toward the other end thereof; means for indicating the deflection of a point on said tangent member from a suitable point on the elastic line of said beam when said beam is loaded; and means for loading said beam in a consistent manner attached to the face of said beam opposite said supports.

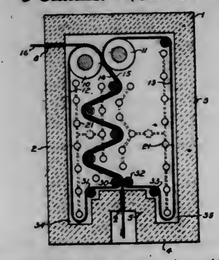
2,319,300
CONTACT STRIP ANNEALING FURNACE
Raymond W. Cook, Bristol, Conn., assignor to Associated Spring Corporation, Bristol, Conn., a corporation of Delaware
Application September 8, 1939, Serial No. 294,017
7 Claims. (Cl. 266—3)



1. An apparatus for heat treating strip metal, comprising a furnace chamber, a pair of rotatable pulleys within the furnace chamber, an endless imperforate metallic belt mounted thereon and being entirely within the furnace chamber, a second pair of rotatable pulleys within the furnace chamber, a second endless imperforate metallic belt mounted on the second pair of pulleys and being entirely within the furnace chamber,

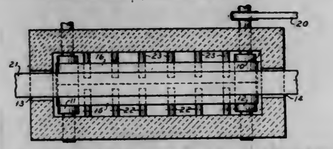
said pairs of pulleys being so positioned and spaced that portions of said belts between the pulleys on which they are respectively mounted are in opposed parallel relation to each other and are spaced apart sufficiently to receive a strip of metal therebetween with the opposite faces of the strip in contact with said opposed parallel portions of the endless belts, and means within the furnace chamber for heating said belts.

2,319,301
CONTACT STRIP ANNEALING FURNACE
Raymond W. Cook, Bristol, Conn., assignor to Associated Spring Corporation, Bristol, Conn., a corporation of Delaware
Application August 17, 1942, Serial No. 455,103
3 Claims. (Cl. 266—3)



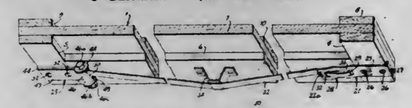
1. An apparatus for heat treating strip metal, comprising a furnace chamber, a plurality of endless, imperforate metallic belts in said chamber, means at the upper portion of said chamber for supporting said belts in such a manner that the belts depend from the supports in such positions that adjacent vertical reaches of the belts are in spaced face-to-face relation whereby a moving metal strip may be maintained therebetween in face-to-face contact therewith and whereby slack portions of the belts are caused at the lower ends thereof as the belts are elongated by heat, means for moving each belt along its endless path, means for heating the belts, the lower portion of the furnace chamber having spaced wells therein which are offset laterally with respect to the adjacent vertical reaches of the belts and within each of which the slack in one of the endless belts is received, and means for guiding that part of each endless belt which has moved out of contact with the strip to a position over and into one of said wells.

2,319,302
CONTACT STRIP ANNEALING FURNACE
Raymond W. Cook, Bristol, Conn., assignor to Associated Spring Corporation, Bristol, Conn., a corporation of Delaware
Application August 17, 1942, Serial No. 455,104
3 Claims. (Cl. 266—3)



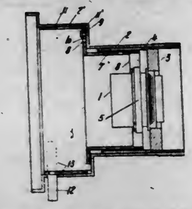
1. An apparatus for differentially heating longitudinal parts of a strip of metal, comprising two groups of endless imperforate metallic belts, the belts of each group being arranged in side-by-side relation and the belts of one group having parts thereof disposed in face-to-face relation to the corresponding parts of the belts of the second group and being spaced from such corresponding parts sufficiently to receive a metal strip therebetween with the opposite faces of the metal strip in face-to-face contactual engagement with the belts and in such a position laterally of the belts that different longitudinal parts of the strip are in face-to-face contactual engagement with different belts of each group, and means for differentially heating said belts to thereby differentially heat the strip.

2,319,303
TRUSS CONSTRUCTION FOR OVERSWINGING DOORS OR THE LIKE
Harry J. Crawford, Venice, Calif.
Application December 26, 1939, Serial No. 310,964
6 Claims. (Cl. 20—38)



2. A truss construction for overswinging doors or the like comprising: a thin metal tape tension member adapted to extend laterally across said door with its major surface facing said door; a bridge adapted to receive said tape intermediate the ends of the span of said tape and hold said tape away from the door to provide a thrust toward the plane of said door; means adapted to secure said tape to said door adjacent the plane of the door at the ends of the span of said tape; and tensioning means in engagement with said tape for producing a desired tension in said tape.

2,319,304
DIAPHRAGM CONTROL DEVICE FOR MOTION AND STILL PICTURE CAMERAS
Maurice Albert Dalotel, Deuil, France; vested in the Alien Property Custodian
Application December 22, 1939, Serial No. 310,626
In France December 22, 1938
2 Claims. (Cl. 95—64)



1. In a diaphragm control device for motion or still picture camera provided with a universal socket for selectively receiving any one of a series of exchangeable objectives, having all an identical external mount adapted to fit said socket and a diaphragm provided with a control ring, the combination comprising a diaphragm controlling member arranged on one side of the camera, a single scale of diaphragm stops associated with the said member, a transmission in each objective mount consisting of a rotatable tube integral with the diaphragm control ring and provided at one end with a toothed collar, a second rotatable tube arranged within the mount and also having at one end a toothed collar, means for coupling said second tube with the diaphragm controlling member, and at least one intermediate pinion having an axis journalled on the mount and which engages both toothed collars, the ratio of the said transmis-

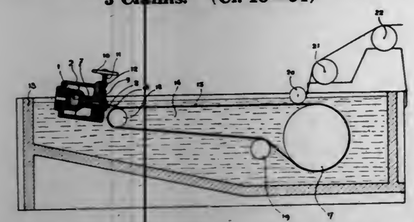
sion being adapted to the characteristics of each objective respectively so as the same diaphragm opening corresponds to a given position of the controlling member with respect to the single scale, whatever the objective used.

2,319,305

PROCESS OF CONTINUOUSLY FORMING CELLULOSE FILMS, STAPLE FIBERS, AND ARTIFICIAL SILK

Jan Cornelis de Nooij and Ernest Bleibler, Ghent, Belgium; vested in the Alien Property Custodian

Application January 3, 1938, Serial No. 183,202
In the Netherlands January 4, 1937
3 Claims. (Cl. 18—54)



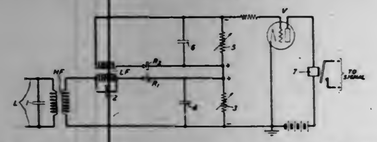
1. The process of continuously forming cellulose sheets, films, staple fibers, artificial silk and the like, from solutions of cellulose in sulphuric acid, which consists in extruding the cellulose solution through at least one nozzle in a substantially horizontal direction into a bath capable of leaching out the acid and thereby coagulating the solution, thus initially merely superficially coagulating it on all sides, and producing a relatively weak product incapable of supporting any material tension, thereupon immediately physically supporting the extruded solution within said bath and carrying it forward within the bath while thus physically supported, to cause it to be coagulated further and thus attain sufficient strength to become self-supporting.

2,319,306

SIGNALING SYSTEM

Alton C. Dickieson, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 31, 1941, Serial No. 417,343
7 Claims. (Cl. 179—84)



1. In a signaling system, a source of carrier waves interrupted at a predetermined low frequency rate, a normally conductive thermionic vacuum tube, a relay in the output circuit thereof and normally operated by the current flowing therein, a signal device controlled by said relay, circuit means connecting said source to the input circuit of said tube and serially including a rectifier so poled that the grid of said tube will not be less positive than normally, means in series with said rectifier resonant to said low frequency, a second circuit inductively coupled to said resonant means and also connected to said input circuit and another rectifier serially included in said second circuit, so connected as to apply a potential of opposite polarity to said grid.

2,319,307

PROCESS OF PREVENTING CURLING OF THE EDGES OF KNITTED FABRICS

Arnold Eddy, Stamford, Conn., assignor to Michael S. Striker, New York, N. Y.

No Drawing. Application July 5, 1941, Serial No. 401,708
14 Claims. (Cl. 117—4)

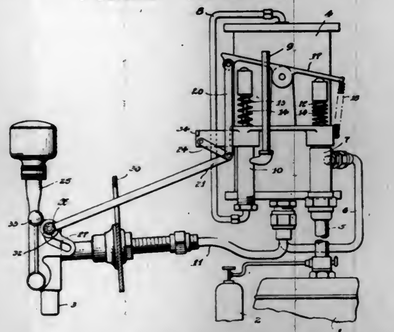
6. Process of preventing curling of the edges of a knitted open mesh textile fabric made from a knitted fabric hose by cutting open the same in longitudinal direction, comprising the steps of substantially simultaneously cutting open said hose, applying to the edges formed by said cutting operation a stiffening strip of thermoplastic material, heating said fabric where said stiffening strips have been applied, causing said stiffening strips to melt, to penetrate said fabric, and to adhere to the same, thereby stiffening said fabric along its edges after cooling off, and preventing curling of the thus stiffened fabric edges.

2,319,308

APPARATUS FOR DISPENSING CARBONATED BEVERAGES

Russell H. Ellison, Dearborn, Mich., assignor, by mesne assignments, to Violet K. Ellison, Dearborn, Mich.

Application May 23, 1940, Serial No. 336,735
7 Claims. (Cl. 225—9)



1. A device for dispensing a gas charged beverage comprising a dispensing container, gas pressure means to supply beverage to said container, a valve adapted to stop said means, a vent from said container to the atmosphere, a valve adapted to substantially seal said vent, means normally to urge said first mentioned valve to open position, means normally to urge said second mentioned valve to closed position, a faucet operatively connected to said dispensing container, lever means adapted to close said first mentioned valve and open said second mentioned valve, a handle adapted to operate said faucet and cam means on said handle adapted to operate said lever means.

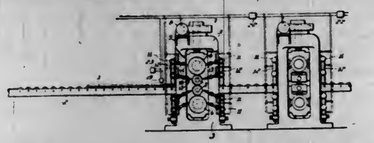
2,319,309

APPARATUS FOR ROLLING METAL STRIP

Howard E. Emigh, Detroit, Mich., assignor to United Engineering and Foundry Company, Pittsburgh, Pa.

Application July 15, 1940, Serial No. 345,499
2 Claims. (Cl. 80—35)

1. The combination with a plurality of rolling mill stands arranged in tandem relation and each including a pair of work rolls forming a substantially parallel pass through which metal strip is adapted to be rolled, and means normally applying a predetermined pressure to the ends of the rolls to urge them toward each other, of means for normally cooling each pair of rolls substantially throughout their length, an electric circuit connected to said pressure applying means and cooling means, means controlled by



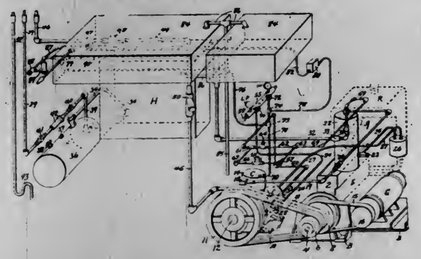
the temperature of the portions of the strip adjacent the entering side of the first pass for controlling said circuit to increase said predetermined end pressure on the first pair of rolls when said temperature decreases and for substantially simultaneously arresting the cooling of the central portions of said first pair of rolls, and means delaying the action of said circuit on each successive pressure and cooling means until it has acted upon the pressure and cooling means in the preceding stand.

2,319,310

REFRIGERATION SYSTEM

Herbert D. Euwer, St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey

Application February 27, 1939, Serial No. 258,622
10 Claims. (Cl. 62—115)



1. In a refrigeration system, the combination of a continuously running prime mover, a compressor connected to said prime mover for operation substantially in unison therewith, a refrigerant circuit connected to said compressor and including a condenser and an evaporator, a by-pass valve for loading and unloading said compressor, and pressure responsive means connected to said by-pass valve and operating to control the by-pass valve to provide for loading and unloading of the compressor in accordance with pressure conditions in said circuit, said pressure responsive means also operating to increase or decrease the speed of the prime mover substantially in unison with the loading or unloading of the compressor.

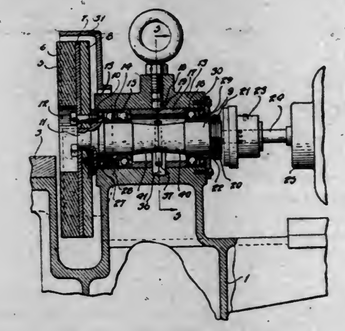
2,319,311

GRINDER

Arthur L. Evans, Detroit, Mich.

Application September 17, 1941, Serial No. 411,097
3 Claims. (Cl. 51—166)

1. In a grinding machine, a shaft adapted for supporting a grinding wheel, a shoulder on said shaft, a housing in which the shaft is mounted, a removable sleeve in said housing, means for positively securing said sleeve in place within and to the housing, thrust antifriction bearing races positioned on opposite sides of the sleeve in the housing for supporting the shaft in the



housing free from play transversely of the shaft, and means carried by the shaft for placing the shaft in tension whereby one of the bearing races is clamped between the shoulder on the shaft and one end of the sleeve in the housing and the other race is clamped between the said means and the other end of the sleeve in the housing to hold the shaft against axial play.

2,319,312

TEXTILE AND LIKE PRODUCT

Donald Finlayson, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware

Application May 21, 1941, Serial No. 394,437
In Great Britain June 19, 1940
9 Claims. (Cl. 57—140)



1. Rope comprising a cabled assembly of strands made up of highly stretched high tenacity filaments having a basis of a saponified organic ester of cellulose and a tenacity of at least 6 grams per denier.

2,319,313

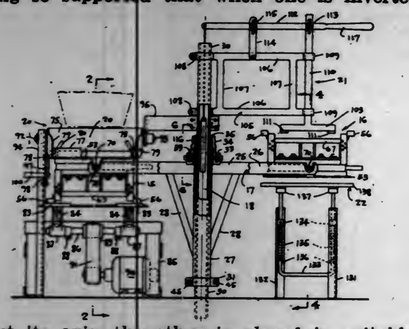
MOLDING APPARATUS

Stephen Flam, Sherman Oaks, Calif.

Application March 8, 1938, Serial No. 194,627
3 Claims. (Cl. 25—41)

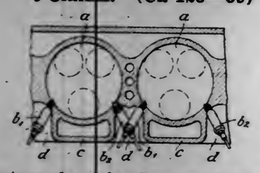
1. In apparatus of the character described, means forming a vertical pivot, a mold supporting frame having oppositely extending portions, carried by said pivot, a pair of mold structures, pivotally supported on horizontal axes, respectively by said oppositely extending portions, and means for simultaneously rotating said mold

structures about their axes, said mold structures being so supported that when one is inverted



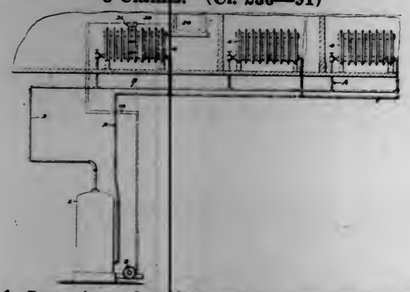
about its axis, the other is placed in suitable material receiving position.

2,319,314
ARRANGEMENT OF AUXILIARY DEVICES FOR INTERNAL COMBUSTION ENGINES
Albert Friedrich and Otto Goppel, Stuttgart-Bad Canstatt, Germany; vested in the Alien Property Custodian
Application April 10, 1941, Serial No. 387,890
In Germany April 17, 1940
6 Claims. (Cl. 123—59)



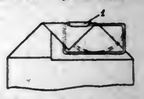
1. An internal combustion engine having a pair of adjacent cylinders, and a pair of spark plugs, one for each cylinder, positioned side by side intermediate said cylinders with their axes crossing, whereby said spark plugs occupy a minimum of space in the longitudinal direction of said engine, and said cylinders may be positioned closely to one another.

2,319,315
HEATING SYSTEM
Richard J. Garvey, Dorchester, Mass.
Application December 30, 1939, Serial No. 311,792
5 Claims. (Cl. 236—91)



1. In a steam heating system, the combination with a steam supply and a series of radiators connected therewith and supplied therefrom, of means for controlling the delivery of steam to said radiators including a thermostat, said thermostat containing a body of temperature responsive fluid located at the head of the instrument and a bulb containing a second body of said fluid located remote from the first body but connected therewith by capillary tubing, said bulb being located in such a position that it responds promptly to changes in temperature of the outdoor atmosphere, means providing a predetermined heat lag comprising a casing in which the head of the thermostat is mounted and means for supporting the casing containing the head of said thermostat closely adjacent to, but spaced from, an element of said steam circulating system whereby the thermostat responds to the temperature changes of said element with a time lag predetermined by the spacing from said element.

2,319,316
CLOSING AND CLAMPING DEVICE
Miksa Gerendás, Budapest, Hungary; vested in the Alien Property Custodian
Application March 4, 1940, Serial No. 322,241
In Hungary October 13, 1939
5 Claims. (Cl. 229—65)



1. In a device for closing and transporting bags, a sleeve of elastic material, said sleeve having a longitudinal fissure therein providing two opposite edges, said edges diverging at least at one of the ends of said fissure for admitting two or more sheets to be pressed together by said edges, and a rod-like element in said sleeve constructed and arranged to press the sheets against said edges.

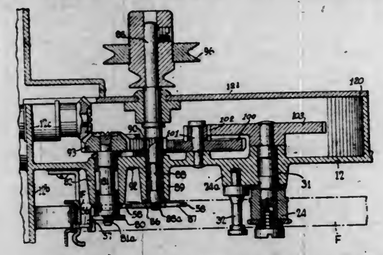
2,319,317
TEMPERATURE SENSITIVE DEVICE
Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 5, 1941, Serial No. 401,205
15 Claims. (Cl. 200—137)



1. A heat sensitive device comprising in combination, an elongated metallic ribbon bent at a mid portion to form a pair of substantially parallel legs, means placing the two legs of said ribbon under tension, and means connecting said legs at a point intermediate their length and deforming them whereby said legs tend to move in opposite directions.

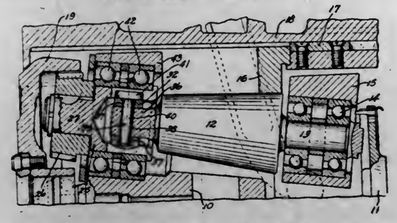
2,319,318
INTERMITTENT FILM FEED
Otto W. Githens and George Kende, New York, N. Y., and Everett M. Porter, Brooklyn, N. Y., assignors to Universal Camera Corporation, New York, N. Y., a corporation of Delaware
Original application June 3, 1937, Serial No. 146,182. Divided and this application December 21, 1939, Serial No. 310,343
6 Claims. (Cl. 88—18.4)

1. In a motion picture projector of the character described, the combination of a supporting frame comprising a vertically disposed wall, a main shaft horizontally disposed and journaled in said wall, intermittent film movement mechanism comprising a reciprocatably mounted shuttle supported by said wall for straight line reciprocation only, a film claw mounted at one end of a leaf spring whose other end is fixed to said shuttle for reciprocation therewith, means for causing reciprocation of said shuttle, said last named means comprising a cam fixed directly



to said main shaft, a second shaft journaled in said frame, means for synchronously causing said film claw to travel toward and away from the film when said shuttle is reciprocated, said last named means comprising a cam mounted on said second shaft and adapted to directly actuate said film claw, and means for driving said second shaft from said main shaft, said last named means comprising a gear on said main shaft, a gear on said second shaft, and an intermediate gear meshing with said main and second shaft gears.

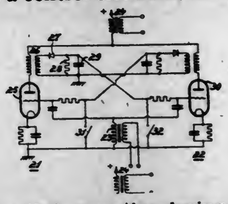
2,319,319
TORQUE TRANSMITTING DEVICE
Louis A. Graham, Milwaukee, Wis., assignor to Graham Transmissions, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 15, 1942, Serial No. 439,023
6 Claims. (Cl. 64—7)



3. In a universal joint, the subcombination of a socket whose cavity is partially, at least, of spherical formation, said socket having a slot intersecting the spherical formation of the cavity and extending out through the entrance end of the socket, and a flattened ball member insertible through the slot of the socket and having its outer periphery of spherical formation and adapted to have bearing contact with the spherical formation of the cavity.

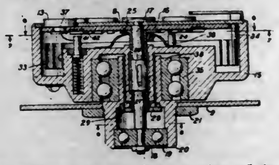
2,319,320
CIRCUIT ARRANGEMENT
Gerard Hepp, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application January 16, 1941, Serial No. 374,783
In the Netherlands September 14, 1939
5 Claims. (Cl. 250—27)

1. A circuit arrangement comprising a transmission path for delivering power to a load and comprising a discharge tube having an anode coupled to said load, a cathode and a control electrode, a second transmission path for delivering power to said load and comprising a discharge tube having an anode coupled to said load, a cathode and a control electrode, means to render



said second path inoperative during operation of the first path, said means comprising a rectifier coupled to the anode of the discharge tube of said first path, said rectifier being connected to the control electrode of the discharge tube of the second path and applying a blocking potential thereto during operation of the first path.

2,319,321
MAGNETIC DIAL
George A. Head, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 15, 1941, Serial No. 383,519
4 Claims. (Cl. 179—90)

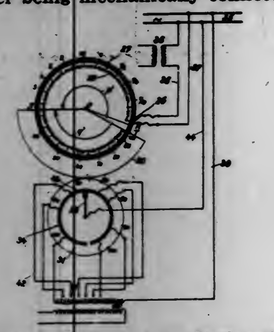


3. In signaling apparatus, a signal transmitter having a finger wheel movable in one direction for setting said apparatus to transmit any one of a plurality of different signals and movable in the opposite direction for transmitting the selected signal, means associated with said finger wheel for transmitting said signals, means comprising a plurality of push buttons each protruding through a finger hole of said finger wheel for mechanically disconnecting said associated means from said finger wheel and a ratchet and pawl arrangement formed in part on said last means for locking said finger wheel against movement in said signal transmitting direction.

2,319,322
CONTROL MEANS FOR X-RAY TUBES
Karl Hefel, Innsbruck, Germany; vested in the Alien Property Custodian
Application March 2, 1939, Serial No. 259,484
In Austria February 26, 1938
1 Claim. (Cl. 250—103)

A mechanism for regulating the output of X-ray tubes, comprising a control member to adjust the tube voltage, a control member to set the loading period, and a control device for the filament voltage including a number of ohmic resistances having different values and two cooperating contact elements, the first of said contact elements being a movable contact strip subdivided into a number of contact fields each adapted to complete the filament circuit through one of said resistances, the subdivision of said contact strip and the values of said resistances

being chosen to cause an increase of the filament voltage along the strip in accordance with a logarithmic increase of the tube current produced by said filament voltage, the second contact element being a brush contact displaceable along said contact strip, said tube voltage control member being mechanically connected with



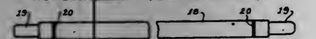
one of said contact elements to displace the same in proportion to the tube voltage, and said loading period control member being mechanically connected with the other contact element to displace the latter in proportion to the logarithm of the highest watt load of the tube permissible for the selected loading period.

2,319,323

SILICONIZED SILICON CARBIDE CONNECTION AND METHOD OF MAKING THE SAME

Albert H. Heyroth, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

Application June 8, 1938, Serial No. 212,540
In Great Britain April 11, 1938
10 Claims. (Cl. 201—76)



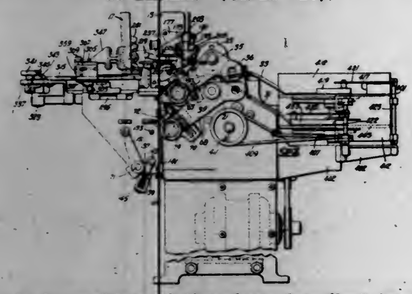
1. A compound resistor comprising a plurality of bodies of predetermined size and contour composed principally of recrystallized silicon carbide and integrally united by means of welds containing silicon admixed with silicon carbide.

2,319,324

SPLITTING MACHINE

Charles E. Hood, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application November 18, 1940, Serial No. 366,063
35 Claims. (Cl. 12—17)



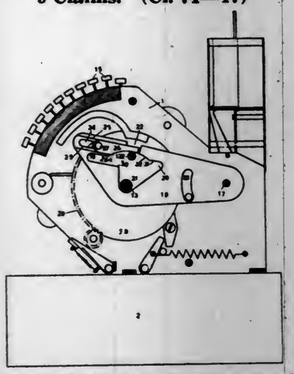
1. A machine of the class described having, in combination, a roll having a cylindrical portion and a matrix, a straight-edged knife adapted to cooperate with the cylindrical portion to split that part of the blank which engages the cylindrical portion by a cut which is parallel to a face of the blank and to cooperate with the matrix to make in that part of the blank which engages the matrix a cut which is at an angle to the first-named cut, a feed roll, a series of presser fingers adapted to press a part of the moving blank against the cylindrical portion and another part against the matrix, and means constructed and arranged to compel certain presser fingers which cooperate with the matrix to exert a greater pressure upon the blank than do other fingers which cooperate with the cylindrical portion.

2,319,325

CASH REGISTER

Matti Janhunen, Helsingfors, Einar Aleksi Oivukka, Tampere, and Ilmari Paavo August Vienola, Helsingfors, Finland; said Oivukka and said Vienola assignors to said Janhunen

Application September 30, 1940, Serial No. 359,140
In Finland April 11, 1939
9 Claims. (Cl. 74—47)



1. A cash register of the character described, comprising in combination a driving shaft, a main shaft parallel to said driving shaft, a member rotatably mounted on said main shaft and geared to said driving shaft, a pin carried on said member, a lever pivoted at one end for oscillating movement in a plane at right angles to said main shaft and provided with a slot for receiving said pin on said member, the arrangement being such as to impart oscillating movement to said lever by one-way rotation of said member, guides on said lever, a slide movable in said guides, a disc secured on said main shaft, and a pin connecting said disc to said slide for turning said main shaft forth and back by the oscillating movement of said lever, said lever having an opening to permit said lever to move past said main shaft, and said slide being arranged to shut off said opening in a certain position of said lever.

2,319,326

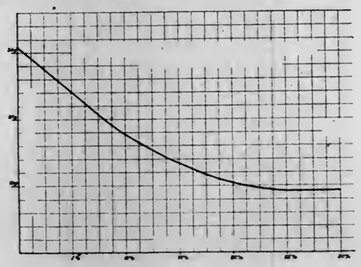
PROCESS OF PRODUCING BITUMENLIKE MATERIALS FROM COAL

Adolf Jenkner, Wanne-Eickel, Germany; vested in the Alien Property Custodian

Application October 15, 1940, Serial No. 361,317
In Germany October 6, 1939
12 Claims. (Cl. 196—14)

1. Process for the production of bitumen-like materials, wherein glance coal or anthracite or

coal consisting chiefly of glance coal is treated in a pulverulent form with coal tar oils, at increased temperatures ranging below the decomposition temperatures of the coal, and excess solvent is distilled from the resulting product of said treatment without elimination of the solid constituents.



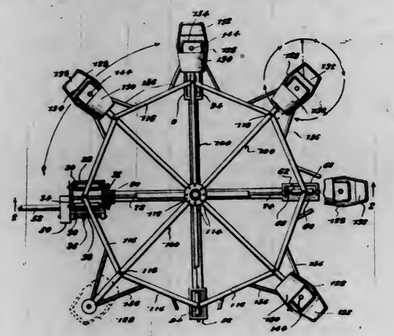
2. Bitumen-like product from a mixture of glance coal and a hydrocarbon oil of high boiling point, wherein said product in colloidal state shows a softening point of more than 90° C. and a breaking point of less than 0° C.

2,319,327

AMUSEMENT APPARATUS

Halligan Johnson, Miami, Fla.

Application November 12, 1941, Serial No. 418,820
5 Claims. (Cl. 272—37)



1. An amusement round-about comprising a base including crossed beams, a vertical spindle mounted for rotation at the intersection of the beams, driving and supporting rollers carried by the beams, a rotatable carrier mounted on the spindle adapted to be supported and driven by the rollers and a series of passenger cars arranged in circular fashion on the carrier adapted to be manually rotated independently from the carrier.
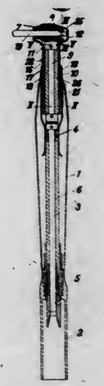
2,319,328

ANGLE PIECE

Alois Kaltenbach, Potsdam, Germany; vested in the Alien Property Custodian

Application April 17, 1940, Serial No. 330,188
In Germany May 26, 1939
4 Claims. (Cl. 32—27)

1. An angle piece for dental drills comprising upper, middle and lower drive means, bearing means for said drive means, and a pair of readily detachable covering shells enclosing said upper and middle drive means and said bearing means therefor, said covering shells being detachably secured to and mounted in the forward end of said angle piece, and a bushing for said bearing



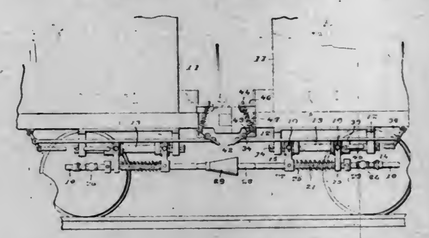
of the middle drive means, said bearing means for said upper drive means and said bushing being formed of an integral unit.

2,319,329

AUTOMATIC HOSE COUPLING

Percy C. Key, College Station, Tex.

Application March 26, 1942, Serial No. 436,342
6 Claims. (Cl. 285—58)



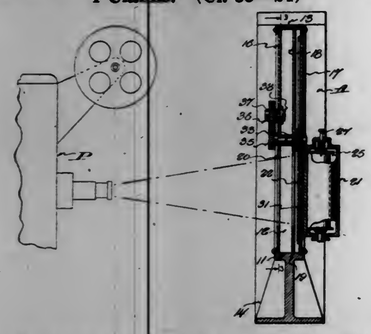
1. The combination with a car of spaced front and rear hangers secured to the bottom of the car, a horizontal rod of rectangular cross section mounted in the hangers for vertical movement, spaced arms mounted for sliding movement longitudinally on the rod, means permitting limited lateral oscillating movement of the arms on the rod, a pipe carried by the lower ends of the arms, one of the arms being fixed to the pipe and the other arm slideably engaging the pipe, a spring sleeved on the pipe between the arms, the pipe having branches at the forward end, means for coupling the rear end of the pipe to a train pipe, coupling members on the branches including a conical head on one branch and a conical cuff on the other branch adapted to engage respectively a companion conical cuff and a companion conical head when the pipe is moved to operative position, operating means connected to the arm which slideably engages the pipe for compressing the spring against the arm which is fixed to the pipe to move the pipe endwise into operative position, said spring being adapted to move the arm which slideably engages the pipe against a stop on the pipe to return the pipe to inoperative position upon release of said operating means, and latch means connected to the operating means for holding the pipe in operation or in inoperative position.

2,319,330

APPARATUS FOR MAKING ENLARGEMENTS AND STILL PICTURES FROM MOVING PICTURE FILM

Matt G. Kofler, Milwaukee, Wis., assignor of one-fourth to Oscar A. Held and one-fourth to Byron Sterr, both of Milwaukee, Wis.

Application April 26, 1941, Serial No. 390,592
4 Claims. (Cl. 88—24)



1. An apparatus for making enlargements and "still" pictures from a moving picture film comprising, a frame, a supporting wall carried by the frame having an elongated picture opening therein, right-angularly extending bases on the frame, whereby the frame can be placed in two different positions on a support, a sensitized film carrier, means releasably securing the film carrier in intimate contact with the rear face of the supporting wall around the picture opening, means for advancing the sensitized film past the picture opening, an oscillating shutter mounted in front of said supporting wall having a light slot therein for movement past the picture opening, said shutter forming a screen for the image of pictures projected from a film by a moving picture projecting machine, and manual means for actuating the shutter.

2,319,331

ABRASIVE ARTICLE

Jacob Kurtz, Teaneck, N. J., assignor to Callite Tungsten Corporation, Union City, N. J., a corporation of Delaware

No Drawing. Application April 28, 1942, Serial No. 440,829
7 Claims. (Cl. 51—293)

1. The method of making an abrasive article which comprises preparing abrasive material in the form of a finely divided grit; coating said grit successively with metal, glass and again metal; mixing said grit so coated with powdered metal adapted to form a mount; pressing said mixture of grit and mount metal into desired form; sintering said form; and treating the same with a solution of ethyl orthosilicate in a manner to fill the pores of said mount.

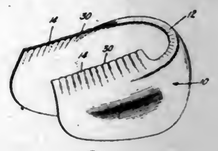
2,319,332

ART OF STIFFENING THE UPPERS OF SHOES

Leslie Arthur Loakes, Leicester, and George Pell, Sr., Northampton, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application April 3, 1942, Serial No. 437,496
In Great Britain April 28, 1941
4 Claims. (Cl. 12—142)

1. That improvement in the method of making a shoe which comprises incorporating in the upper material of the shoe a counter stiffener having an inturned flange the rear portion of which is comparatively narrow and the side portions of which are wider, mounting the upper together



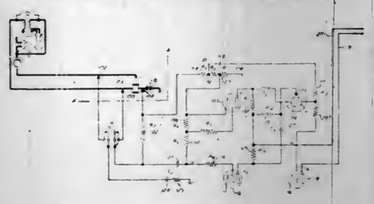
with an insole having a sewing rib extending around its heel end upon a last, and sewing a welt to the upper material, the rib and the counter stiffener by stitches which pass through the wider side portions of the inturned flange of the counter stiffener.

2,319,333

SERVICE OBSERVING SYSTEM

Mason A. Logan, Summit, N. J., and Luther G. Schimpf, St. George, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 14, 1941, Serial No. 398,052
9 Claims. (Cl. 179—175.2)



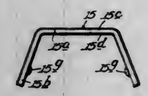
1. In a telephone service observing system, a line having a normally constant direct current potential, and means for detecting and recording abrupt changes in said line potential, said detecting means including first, second and third thermionic vacuum tubes and a gas-filled discharge tube, each tube having input and output circuits therefor, said first vacuum tube being arranged to be normally conducting and all of said other tubes normally non-conducting, means connecting the input circuits of said first and second tubes to a point in said line and so arranged that an abrupt decrease in the potential of said line at said point will cause said first tube to momentarily cease to conduct, means in the output circuit of said first tube responsive to the momentary cessation of current therein to cause said gas-filled tube to discharge and conduct, means in the output circuit of said gas-filled tube responsive to current flowing therein to cause said third vacuum tube to conduct, said input circuit of the second vacuum tube being so arranged that when an abrupt increase in the line potential occurs, said second tube will be caused to momentarily conduct, and means in the output circuit of said second tube responsive to a momentary current flow therein to stop the flow of current in the output circuit of said gas-filled tube and thereby restore said third vacuum tube to a non-conducting condition, said recording means comprising a relay in the output circuit of said third tube responsive to current flowing therein, and a plurality of luminous devices sequentially energized responsive to successive operations of said relay.

2,319,334

STRAP SEAL

Chester M. MacChesney, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois

Application April 5, 1939, Serial No. 266,073
3 Claims. (Cl. 24—23)



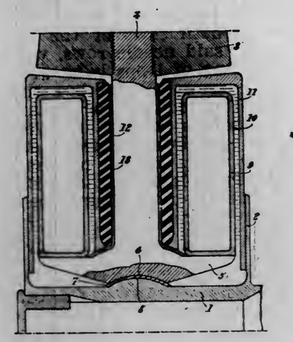
1. A metallic strap seal having a lead-containing metallic coating of lubricating and rust-preventive material.

2,319,335

ROTATING ASSEMBLY

Pietro Martinotti, Paris, France; vested in the Alien Property Custodian

Application June 14, 1939, Serial No. 279,181
In France November 18, 1938
5 Claims. (Cl. 170—162)



1. A propeller blade and hub construction comprising a propeller blade including a root, a propeller hub, ball and socket means mounting said root on said hub, a liquid carrying chamber mounted upon said hub for rotation therewith, and float means attached to said root and mounted in said chamber, said root including a shaft extending from said blade and bearing upon said hub and forming a part of said ball and socket means, said float means being secured to said shaft.

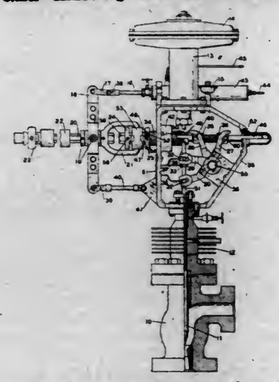
2,319,336

REGULATING MECHANISM FOR VALVES

Gerald W. McCullough, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application August 22, 1941, Serial No. 407,965
15 Claims. (Cl. 137—139)

1. In a motor valve mechanism including a valve casing, a valve movable between upper and lower limits in said casing and a valve stem, means for setting intermediate range of valve travel comprising a control shaft having oppositely threaded sections, members threaded to the control shaft on said sections and movable in opposite directions thereon by relative rotation of said shaft, a stop for said valve stem, pivoted levers having corresponding ends movable by said members, the opposite ends of said levers being movable adjustably along said valve stem and limiting the movement thereof by



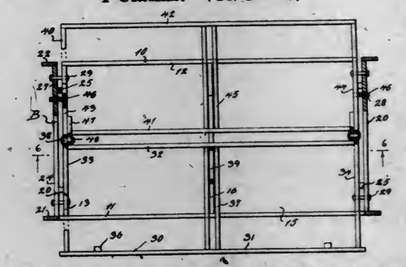
means of said stop and means for communicating rotation to said control shaft.

2,319,337

SOFA BED

Walter O. McDaniel, Jefferson, Wis., assignor of one-half to Raymond M. Schweiger, Jefferson, Wis.

Application July 6, 1942, Serial No. 449,862
4 Claims. (Cl. 5—47)



3. A sofa bed comprising a base including a bottom frame and end frames connected therewith, said bottom frame having a central transverse guide rail having at least the major part thereof extending slightly above the upper edge of the bottom frame, back and seat frames hingedly connected together at their meeting ends slidably supported upon the bottom frame, said back and seat frames having guide members for straddling the transverse guide rail of the bottom frame and inter-engaging means between the back frame and the end frames for guiding said back frame during the movement thereof, and means for preventing upward tilting of the seat and back frames when the same are in a horizontal position, said means including keeper pins carried by the bottom frame and latch plates on the back frame for receiving said keeper pins when the back frame is in a lowered horizontal position.

2,319,338

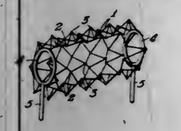
INCANDESCENT CATHODE

Johannes Gijsbertus Wilhelm Mulder, Eindhoven, Netherlands; vested in the Alien Property Custodian

Application April 9, 1941, Serial No. 387,762
In the Netherlands March 27, 1940
7 Claims. (Cl. 250—27.5)

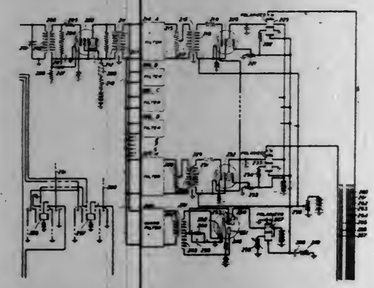
1. An incandescible cathode in the form of an

elongated body, comprising a large number of undulated wire-like elements distributed around the longitudinal axis of the body and extending



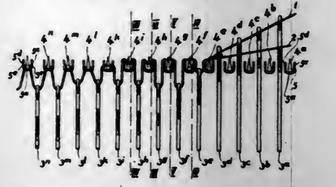
in the direction thereof, adjacent elements being interconnected thermally and electrically at the tips of the undulations.

2,319,339
SIGNALING SYSTEM
Karl H. Müller, Glen Ridge, and Ralph E. Ressler, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 22, 1940, Serial No. 336,540
7 Claims. (Cl. 177—353)



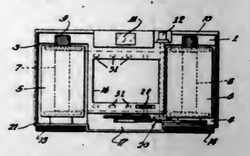
1. In a signaling system, a plurality of sources of electrical current, said sources differing in frequency in steps within a predetermined frequency range, a plurality of receiving circuits each tuned to respond to a current source of one of said frequencies, means to establish a sending circuit for connecting selected sources to receiving circuits of said plurality, a relay having a contact in each receiving circuit, means in each receiving circuit responsive to its energization for energizing its relay to close its contact for establishing a signaling path, means responsive to the establishment of said contacts in selected receiving circuits for transmitting signals and for disconnecting said sending circuit from said receiving circuits, momentary surges of transient electrical currents of variable frequency acting to subject said receiving circuits to false operation, a guard detector connected to said sending circuit and independent of said receiving circuits responsive only to transient electrical currents of frequencies outside of said frequency range which are impressed on said sending circuit by said plurality of sources, a normally operated relay in said detector circuit having said signaling paths extended through its contact and means in said detector circuit for releasing its relay for rendering signal circuits established through the contacts of selected receiving circuit relays and through the contacts of non-selected receiving circuit relays operated by transient electrical currents ineffective for the duration of said transient electrical current surges and for preventing false disconnection of said sending circuit from said receiving circuits.

2,319,340
METHOD OF PRODUCING DOUBLE-SIDED PLATED KNIT FABRICS
Max Nebel, Chemnitz, Germany; vested in the Alien Property Custodian
Application November 24, 1939, Serial No. 305,976
2 Claims. (Cl. 66—90)



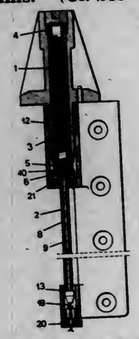
1. A method of producing a double-sided plated knit fabric on knitting machines having two needle rows, said method comprising working a plating thread with a ground thread in such manner that the ground thread lies on the outside in the meshes of one side of the fabric and that the plating thread lies on the outside in the meshes of the other side of the fabric, said working consisting in that one of said needle rows forms the threads into loops in plating position over the upper edges of turning tools arranged on both sides of the needles of the other one of said needle rows, whereupon during the working of loops lying over the needles of said other row into meshes, the two superposed completed loops of the ground thread and plating thread are brought in reversed order by the turning tools into the needle heads, and are reversed, by being guided by the upper edges of the turning tools and sliding within and along the needle heads, proceeding from the free ends of the needle hooks.

2,319,341
PHOTOGRAPHIC CAMERA
Hubert Nerwin, Dresden, Germany; vested in the Alien Property Custodian
Application September 30, 1940, Serial No. 359,003
In Germany August 1, 1939
3 Claims. (Cl. 95—31)



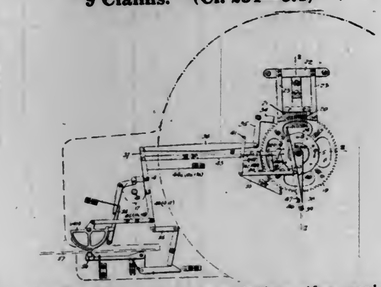
1. In a photographic roll film camera, in combination, a casing having a top wall and a bottom wall, a chamber at each end adapted to receive each a standard film spool for perforated motion picture film, which spools have an axial extension at one end thereof which when the spools are inserted in their respective chamber is directed toward said top wall, a film supporting wall and extending between said two chambers in the focal plane of the camera, said wall being provided with a picture window and with an aperture below said picture window, a film feed mechanism including a manually operable member arranged on the bottom wall of said casing and a member actuated thereby which extends through said aperture for engaging the perforations of the film, and a finder in said camera casing below the top wall thereof and arranged above said picture window in the space between said film spool extensions.

2,319,342
APPARATUS FOR DETERMINING THE RESISTANCE TO FRACTURE OF TEST PIECES
Marcel Augustin Léon Perrey, Herserange, France; vested in the Alien Property Custodian
Application May 10, 1938, Serial No. 207,114
In France May 27, 1937
5 Claims. (Cl. 265—13)



1. An apparatus for determining the kinetic energy required to rupture a body comprising a mass for rupturing said body, a head removably mounted on said mass, an auxiliary weight mounted on said head, an impact base for receiving said head from said mass, a calibrated spring connected to said weight and to said head, guiding means secured to said head for said weight, means for indicating the distance travelled by said weight along said guiding means, breakable means for locking said head on said mass prior to the removal of said head from said mass by said impact base, means for rendering said weight and spring inoperative prior to impact and upon impact rendering them operative and means for locking said head to said impact base upon impact to prevent rebound.

2,319,343
WEIGHING SCALE RECORDING
Léon Pollevey, Paris, France; vested in the Alien Property Custodian
Application April 29, 1940, Serial No. 332,308
In Germany January 26, 1939
9 Claims. (Cl. 234—5.4)

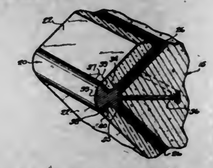


1. Apparatus for transmitting the weighing-response of a weighing scale to a recording mechanism in a plurality of stages of value, comprising weight-responsive measuring means for different stages which are set in accordance with said response; non-weight-responsive feeler means which investigate said response-measuring means and control the transmission to the recording mechanism in accordance with the investigation, said feeler means including a feeler-device to investigate measuring means associated with a lower stage; and an intermediate means co-operating with said feeler-device, said intermediate means, upon the feeler-device undergoing an investigation movement, acting to transmit movement from said feeler device to the feeler means which investigate the measuring means of a higher weight stage so as to shift said feeler means transversely to the feeling motion thereof, in a sense, and by an amount which is a function of the investigation movement of said feeler-device, such as will act to compensate for movement of said higher stage measuring means beyond the position for registering an exact unit with no fractions in the lower stage.

2,319,344
PROCESS FOR STABILIZING PRINTS OBTAINED BY PHOTOGRAPHIC BLEACHING
André Polgar and Charles Halmos, Paris, France; vested in the Alien Property Custodian
No Drawing. Application December 15, 1939, Serial No. 309,482. In France December 15, 1938
1 Claim. (Cl. 95—7)

Process for stabilizing prints obtained by photographic bleaching of layers containing bleaching dyestuffs and thiourea derivatives, consisting in eliminating, after exposure of the sensitized layer to light and elimination of the major portion of the thiourea derivative by washing with water, the intimate contact between the dyestuffs and remainder of the thiourea derivative, by precipitating the latter by means of mercuric salts incorporated with the layer when it is manufactured, which have remained soluble and have not formed a precipitate owing to the presence of an excess of thiourea derivative.

2,319,345
BUILDING BLOCK
Erle T. Putnam, Detroit, Mich., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application May 25, 1940, Serial No. 337,276
6 Claims. (Cl. 72—35)



1. In a building block of the character described, a body portion formed of cementitious material, ornamental facings carried by two sides of said body portion and disposed at an angle to one another, the adjacent edges of said facings being spaced from one another, a metal corner molding having a body member arranged entirely between the adjacent edges of said facings at the corner of said body portion and also having a portion embedded in the said body portion, and cushioning means arranged between said body member and the adjacent edges of said facings.

2,319,346
CLOSURE
Merrill L. Rathbun, Salamanca, N. Y.
Application July 3, 1939, Serial No. 282,658
4 Claims. (Cl. 217—57)

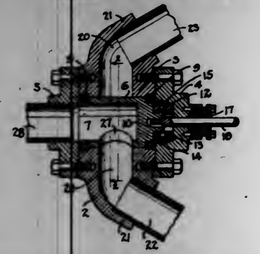
1. A receptacle comprising body and cover members, corresponding faces of the rear walls of said members having slots, said slots in part opening into the outer faces of said walls, a pair of hinge elements, cups formed on said elements, said cups being interfitted to provide pivotal connection between said elements, a part of said elements being projected into said slots, each of said

elements being engaged with the slots of both of said members when said cover member is in closed position, a spring engaged with said members, said



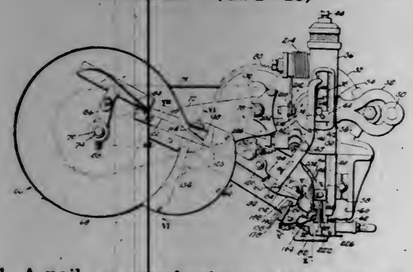
spring serving to secure said members against displacement and said elements in operable pivotal relationship.

2,319,347
VALVE CONTROL
Warren B. Reed, New Orleans, La.
Application June 5, 1941, Serial No. 396,701
1 Claim. (Cl. 251—107)



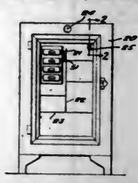
In a rotating valve mechanism for hydropneumatic pumping systems where there is a reversal of flow of liquid, a housing, a hollow cylindrical rotor therein closed at one end, a cap closure for one end of said housing having a thrust bearing therein to rotatably receive said rotor, a driving shaft connected to said cylindrical rotor and extending through said bearing, a cap for the other end of said housing to retain said rotor, radial bearings in said housing to support said rotor, said cap being provided with a conductor pipe in concentric alignment with the open end of said cylindrical rotor, a port in said rotor for discharging and receiving liquid relative to said hollow rotor, and oppositely disposed inlet and outlet passages to supply and discharge pressure liquid as said port moves into and out of alignment therewith.

2,319,348
NAILING MACHINE
Alfred Edward Richards and Maurice Roberts, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application June 13, 1941, Serial No. 397,934
In Great Britain July 26, 1940
12 Claims. (Cl. 1—18)



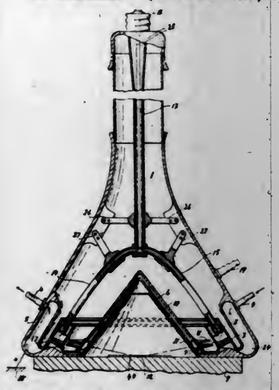
1. A nail raceway having a slotted nail guiding portion and an orienting portion provided with downwardly convergent sides the bases of which are continuous with the sides of the slot.

2,319,349
REFRIGERATION APPARATUS
Truman S. Safford, Riverside, Conn.
Application October 9, 1936, Serial No. 104,840
19 Claims. (Cl. 62—4)



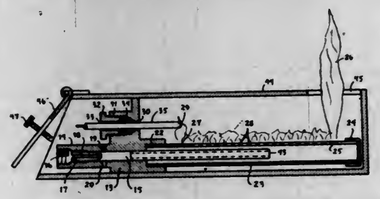
1. A defrosting refrigerator comprising an insulating box having a door, a refrigerating unit therein of the type adapted automatically to maintain the temperature normally in the box within predetermined limits, supplementary electrical means for controlling the supply of refrigerant to said refrigerating unit so as to permit melting of frost therefrom, said means comprising a relay, a chronometer device, a switch operated by said chronometer device, at a predetermined time to close momentarily the relay circuit, a parallel circuit portion around said chronometer operated switch including in series a contact closed by the armature of the relay, a switch normally closed but opened by said chronometer device at a predetermined time after the closing and opening of the first-named chronometer operated switch, and a thermostatic switch responsive to the temperature of said surface to be defrosted and adapted to be opened when the temperature of said surface rises above the freezing point, and means for delaying the operation of said relay until a substantial time has elapsed after the opening of the refrigerator door.

2,319,350
X-RAY TUBE AND APPARATUS
Ernst Schiebold, Leipzig, Germany; vested in the Alien Property Custodian
Application December 31, 1940, Serial No. 372,606
In Germany June 14, 1937
16 Claims. (Cl. 250—53)



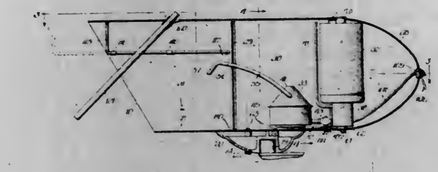
1. An apparatus for testing material, comprising a hollow, substantially conical camera means adapted to accommodate a light sensitive film substantially in the formation of a cone, a support adapted to accommodate said camera means in an inverted position and the material to be tested below the apex of said means so that the material is positioned substantially inside of, and upon the axis of the cone formed by a film accommodated by said camera, and a source of X-rays having an anti-cathode and mounted above said support in a position in which said anti-cathode is spaced relatively to said axis and X-rays issuing therefrom strike the material to be tested at a predetermined inclination to said axis, so that a secondary radiation which may be caused to issue from the material by the X-rays striking the material will irradiate a film accommodated in said camera means.

2,319,351
FUEL BURNER CONSTRUCTION
Sylvanus C. Shipley, Benjamin Cyr, and Frederick S. Denison, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 30, 1939, Serial No. 301,888
2 Claims. (Cl. 158—116)



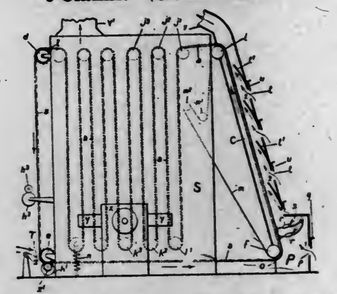
1. A gaseous fuel burner comprising a single sheet-like member, said member having a first edge and a second edge opposite said first edge, at least one of said edges being serrated over a substantial portion of its length, said member being in the form of a hollow conduit so that said two edges are directly opposite each other and in abutting relationship throughout the length of the serrated portion whereby said serrations form openings for the gaseous fuel.

2,319,352
VAPORIZING MACHINE
John C. Smernis, Chicago, Ill., assignor to Miss O'Mist Products, Inc., Chicago, Ill., a corporation of Illinois
Application February 17, 1939, Serial No. 256,957
3 Claims. (Cl. 21—119)



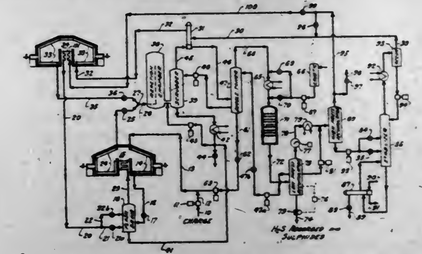
1. A vaporizer of the character described, comprising a body member having a housing compartment including a main portion and a removable closing member, and vaporizing mechanism assembled as a unit disposed in said housing compartment and mounted on and removable with said removable closing member, said vaporizing mechanism comprising a boiler and means for supplying water to said boiler.

2,319,353
COATING OF SURFACES WITH LIQUIDS BY SPRAYING
Fernand Frederic Schwartz and Marc Alfred Chavannes, Paris, France, assignors, by mesne assignments, to Ecla Patents Corporation, New York, N. Y., a corporation of New York
Application June 21, 1938, Serial No. 214,916
In France July 2, 1937
6 Claims. (Cl. 117—106)



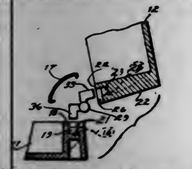
1. A method of coating the high points of a surface of a sheet of fabric with a liquid which comprises directing the liquid toward said surface of the fabric in finely divided form, moving the said surface after the application of liquid thereto in a direction intermediate the horizontal and vertical in an enclosed space in contact with a gaseous suspension formed of droplets of the liquid which have not been deposited on the said surface, and causing the said suspension to be carried along in the enclosed space with the sheet material.

2,319,354
PRODUCTION OF MOTOR FUEL OF LOW SULPHUR CONTENT
Curren C. Sperling, Elizabeth, N. J., assignor to Petroleum Conversion Corporation, Elizabeth, N. J., a corporation of Delaware
Application October 31, 1940, Serial No. 363,595
7 Claims. (Cl. 196—24)



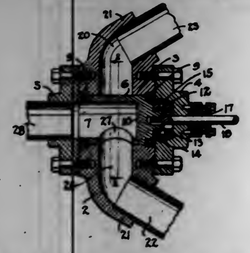
1. In a vapor phase cracking system in which a gaseous hydrocarbon heat carrier is commingled with and utilized for the cracking of a stream of heated sulphur-bearing hydrocarbon vapors, the method of maintaining low the sulphur content of the end product which consists in maintaining a high ratio of said gaseous heat-carrier to said hydrocarbon vapors during the cracking thereof, fractionating and cooling the cracked products, contacting both the gaseous and liquid constituents of said cracked products with a sulphide removing agent, separating said agent and said sulphides from said gaseous and liquid cracked products, separating from said products heat carrier gas having a sulphur content sufficiently low to promote the formation

elements being engaged with the slots of both of said members when said cover member is in closed position, a spring engaged with said members, said



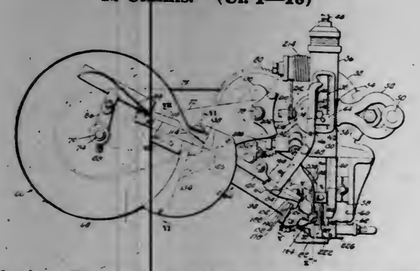
spring serving to secure said members against displacement and said elements in operable pivotal relationship.

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VALVE CONTROL
Warren B. Reed, New Orleans, La.
Application June 5, 1941, Serial No. 396,701
1 Claim. (Cl. 251—107)



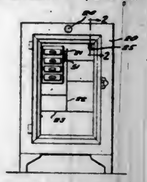
In a rotating valve mechanism for hydropneumatic pumping systems where there is a reversal of flow of liquid, a housing, a hollow cylindrical rotor therein closed at one end, a cap closure for one end of said housing having a thrust bearing therein to rotatably receive said rotor, a driving shaft connected to said cylindrical rotor and extending through said bearing, a cap for the other end of said housing to retain said rotor, radial bearings in said housing to support said rotor, said cap being provided with a conductor pipe in concentric alignment with the open end of said cylindrical rotor, a port in said rotor for discharging and receiving liquid relative to said hollow rotor, and oppositely disposed inlet and outlet passages to supply and discharge pressure liquid as said port moves into and out of alignment therewith.

2,319,348
NAILING MACHINE
Alfred Edward Richards and Maurice Roberts, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application June 13, 1941, Serial No. 397,934
In Great Britain July 26, 1940
12 Claims. (Cl. 1—18)



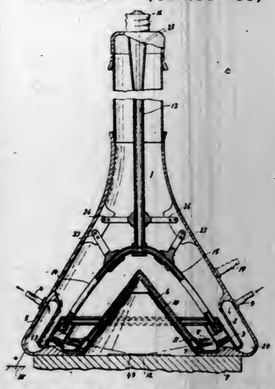
1. A nail raceway having a slotted nail guiding portion and an orienting portion provided with downwardly convergent sides the bases of which are continuous with the sides of the slot.

2,319,349
REFRIGERATION APPARATUS
Truman S. Safford, Riverside, Conn.
Application October 9, 1936, Serial No. 104,840
19 Claims. (Cl. 62—4)



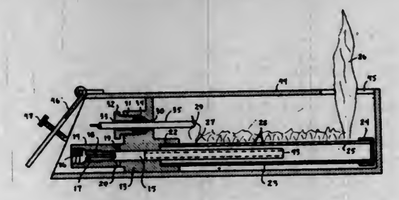
1. A defrosting refrigerator comprising an insulating box having a door, a refrigerating unit therein of the type adapted automatically to maintain the temperature normally in the box within predetermined limits, supplementary electrical means for controlling the supply of refrigerant to said refrigerating unit so as to permit melting of frost therefrom, said means comprising a relay, a chronometer device, a switch operated by said chronometer device, at a predetermined time to close momentarily the relay circuit, a parallel circuit portion around said chronometer operated switch including in series a contact closed by the armature of the relay, a switch normally closed but opened by said chronometer device at a predetermined time after the closing and opening of the first-named chronometer operated switch, and a thermostatic switch responsive to the temperature of said surface to be defrosted and adapted to be opened when the temperature of said surface rises above the freezing point, and means for delaying the operation of said relay until a substantial time has elapsed after the opening of the refrigerator door.

2,319,350
X-RAY TUBE AND APPARATUS
Ernst Schiebold, Leipzig, Germany; vested in the Alien Property Custodian
Application December 31, 1940, Serial No. 372,606
In Germany June 14, 1937
16 Claims. (Cl. 250—53)



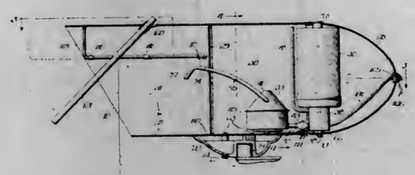
1. An apparatus for testing material, comprising a hollow, substantially conical camera means adapted to accommodate a light sensitive film substantially in the formation of a cone, a support adapted to accommodate said camera means in an inverted position and the material to be tested below the apex of said means so that the material is positioned substantially inside of, and upon the axis of the cone formed by a film accommodated by said camera, and a source of X-rays having an anti-cathode and mounted above said support in a position in which said anti-cathode is spaced relatively to said axis and X-rays issuing therefrom strike the material to be tested at a predetermined inclination to said axis, so that a secondary radiation which may be caused to issue from the material by the X-rays striking the material will irradiate a film accommodated in said camera means.

2,319,351
FUEL BURNER CONSTRUCTION
Sylvanus C. Shipley, Benjamin Cyr, and Frederick S. Denison, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 30, 1939, Serial No. 301,888
2 Claims. (Cl. 158—116)



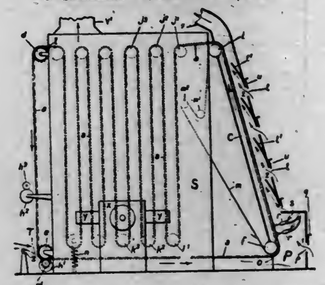
1. A gaseous fuel burner comprising a single sheet-like member, said member having a first edge and a second edge opposite said first edge, at least one of said edges being serrated over a substantial portion of its length, said member being in the form of a hollow conduit so that said two edges are directly opposite each other and in abutting relationship throughout the length of the serrated portion whereby said serrations form openings for the gaseous fuel.

2,319,352
VAPORIZING MACHINE
John C. Smernis, Chicago, Ill., assignor to Miss O'Mist Products, Inc., Chicago, Ill., a corporation of Illinois
Application February 17, 1939, Serial No. 256,957
3 Claims. (Cl. 21—119)



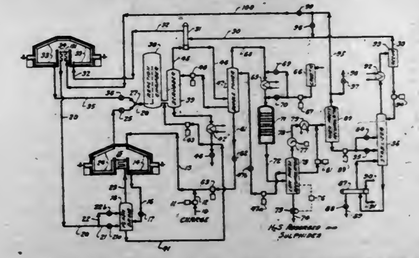
1. A vaporizer of the character described, comprising a body member having a housing compartment including a main portion and a removable closing member, and vaporizing mechanism assembled as a unit disposed in said housing compartment and mounted on and removable with said removable closing member, said vaporizing mechanism comprising a boiler and means for supplying water to said boiler.

2,319,353
COATING OF SURFACES WITH LIQUIDS BY SPRAYING
Fernand Frederic Schwartz and Marc Alfred Chavannes, Paris, France, assignors, by mesne assignments, to Ecla Patents Corporation, New York, N. Y., a corporation of New York
Application June 21, 1938, Serial No. 214,916
In France July 2, 1937
6 Claims. (Cl. 117—106)



1. A method of coating the high points of a surface of a sheet of fabric with a liquid which comprises directing the liquid toward said surface of the fabric in finely divided form, moving the said surface after the application of liquid thereto in a direction intermediate the horizontal and vertical in an enclosed space in contact with a gaseous suspension formed of droplets of the liquid which have not been deposited on the said surface, and causing the said suspension to be carried along in the enclosed space with the sheet material.

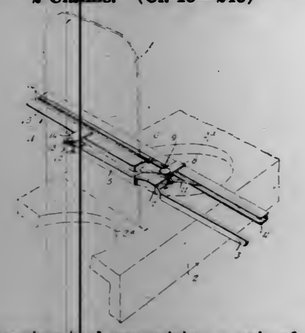
2,319,354
PRODUCTION OF MOTOR FUEL OF LOW SULPHUR CONTENT
Curren C. Sperling, Elizabeth, N. J., assignor to Petroleum Conversion Corporation, Elizabeth, N. J., a corporation of Delaware
Application October 31, 1940, Serial No. 363,595
7 Claims. (Cl. 196—24)



1. In a vapor phase cracking system in which a gaseous hydrocarbon heat carrier is commingled with and utilized for the cracking of a stream of heated sulphur-bearing hydrocarbon vapors, the method of maintaining low the sulphur content of the end product which consists in maintaining a high ratio of said gaseous heat-carrier to said hydrocarbon vapors during the cracking thereof, fractionating and cooling the cracked products, contacting both the gaseous and liquid constituents of said cracked products with a sulphide removing agent, separating said agent and said sulphides from said gaseous and liquid cracked products, separating from said products heat carrier gas having a sulphur content sufficiently low to promote the formation

of removable sulphides from said heated sulphur-bearing vapors, and separating from said liquid products a motor fuel end-product characterized by its low sulphur content and its high anti-knock value.

2,319,355
CLEANING TOOL
Alvin B. Storey, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application May 31, 1941, Serial No. 395,908
2 Claims. (Cl. 15—245)



1. A cleaning tool comprising a pair of pivoted handles, an integral extension on each of said handles, a wiper blade on one of said handles, said wiper blade being normally fixed in respect to said extension, a shackle mounted on the other of said extensions, a member fixed to said shackle, a wiper blade in said member, and spring means for forcing said wiper blades towards each other.

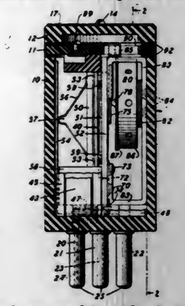
2,319,356
SHOE COUNTER
Michael F. Sullivan, St. Louis, Mo.
Application September 19, 1941, Serial No. 411,455
6 Claims. (Cl. 36—68)



1. In combination with a shoe counter which is to be covered by a shoe upper and is molded from a blank so as to have a wide lower portion and a narrow top with a short bend at the rear formed by contracting the surface of the material of the blank during the molding operation, a strip of non-stretchable tape of a width substantially less than the height of the counter adhered to the outer surface of the counter at the top portion forming the bend and extending forward and secured to each of the outer side surfaces of the counter, said tape also having a portion folded over the top edge of the counter at the bend and adhered to the inner surface of the counter.

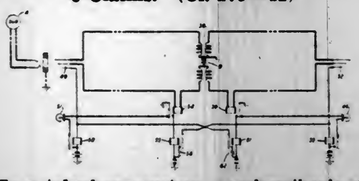
2,319,357
VARIABLE AIR-GAP CRYSTAL HOLDER
George M. Thurston, Hasbrouck Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 3, 1941, Serial No. 409,370
15 Claims. (Cl. 171—327)

1. A frequency-controlling piezoelectric crystal device comprising a pair of stationary metallic plates between which a thickness-mode rectangular-faced piezoelectric crystal element is disposed, means including a V-shaped spring disposed in contact with one of said plates for resiliently exerting pressure on one of said plates and rigidly clamping all four of the corners of the peripheral portion only of the crystal element between said plates, another spring secured to the other of said plates and sprung away therefrom in a direction away from the crystal element, a rec-



tangular-shaped movable electrode carried by said another spring and angularly movable within a rectangular opening in said other of said plates, means including said another spring for pivotally establishing said angular relation between the crystal element and said movable electrode, and means including a screw-threaded rotatable member working against the pressure of said another spring for adjustably increasing and decreasing the angle between the crystal element and said movable electrode to control the value of said frequency.

2,319,358
THROUGH SUPERVISION SYSTEM
Horace W. Ulrich, Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 7, 1941, Serial No. 413,933
6 Claims. (Cl. 179—41)

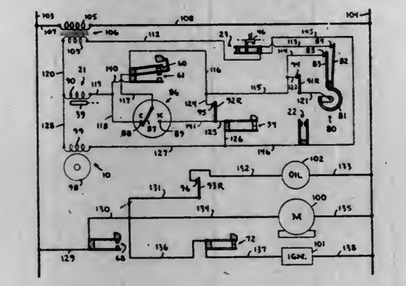


2. In a telephone system, a subscriber's station and line, a trunk line, a link circuit for connecting said line and trunk, and means controlled by the subscriber for transmitting supervisory signals over said trunk, said means comprising a Wheatstone bridge circuit established when said link circuit is connected to said trunk and maintained in a balanced condition until the subscriber's station receiver is removed from the switchhook.

2,319,359
MANUFACTURE OF CATION-EXCHANGING ARTIFICIAL RESINS
Hans Wassenegger, Dessau in Anhalt, Germany; vested in the Alien Property Custodian
No Drawing. Application November 18, 1938, Serial No. 241,187. In Germany December 11, 1937
6 Claims. (Cl. 260—54)

1. A process for preparing water-insoluble resins which comprises condensing a phenol with an aldehyde containing an acid radical selected from the class consisting of carboxylic and sulfonic acid radicals and formaldehyde.

2,319,360
AUTOMATIC CONTROL SYSTEM FOR FUEL BURNERS
John M. Wilson, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 5, 1942, Serial No. 433,493
14 Claims. (Cl. 158—28)



1. In a motor operated fuel burner control system, a control motor, a control unit operated thereby and having a starting position, an electric device which, when energized, causes the delivery of fuel to a burner, a first switch in control of said device, said first switch being operated by said control unit and open when said control unit is in starting position, a relay in control of said control motor, a circuit for said relay, a condition responsive element for closing said circuit, the resultant movement of said control unit from its starting position causing closure of said first switch, switch means operated by said control unit for deenergizing said control motor when said control unit reaches a running position, a return switch for energizing said control motor independently of said switch means, means controlled by said relay upon deenergization thereof for closing said return switch, and means operated by said control unit when it reaches its starting position for opening said return switch, said first switch being opened by said control unit as it leaves its running position.

2,319,361
SAFETY RAZOR
Don C. Wiseley, Los Angeles, Calif.
Application March 7, 1941, Serial No. 382,232
3 Claims. (Cl. 30—49)

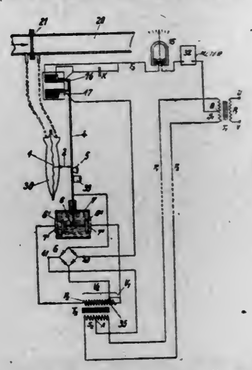


1. In a razor, a head, a guard, a blade between said head and guard, means for pressing the blade between the head and guard, said head and guard having cooperating surfaces whereby the blade is curved along its longitudinal and transverse axes in opposite directions, and the outer surface of the head being generally concave from end to end to accommodate the contour of the face of the user.

2,319,362
PROCESS FOR THE PRODUCTION OF SOLID MILK PRODUCTS
Otto John Wouters, Zwolle, Netherlands; vested in the Alien Property Custodian
No Drawing. Application April 25, 1939, Serial No. 270,017. In Germany October 7, 1938
10 Claims. (Cl. 99—56)

1. Process for the manufacture of milk powder from milk containing its natural milk fat, which comprises adding to the milk cane sugar and glucose, the amount by weight of glucose so added being at least one-third the amount of milk fat present in the milk and the total amount of sugars added being equivalent to from about 30% to about 70% by weight of the total finished mixture, evaporating the mixture in vacuum until a mass capable of being molded in heat and containing from about 6 to about 15% of water is formed, solidifying the mass by cooling, comminuting the solidified mass, and converting the resulting particles by drying at a temperature not exceeding about 80° C. and in the absence of substantial compression of the particles into a powdery product containing not materially more than 2% of water.

2,319,363
DEVICE FOR REMOTE CONTROL
Guido Wünsch and Adolf Krüssmann, Berlin, Germany; vested in the Alien Property Custodian
Application August 24, 1939, Serial No. 291,784
In Germany August 27, 1938
4 Claims. (Cl. 177—351)



1. In a device for measuring a physical condition the combination with a condition responsive device; a relay acted upon by said device; an alternating current circuit controlled by said relay for obtaining an alternating current electromotive force varying in dependence on said physical condition; an auxiliary alternating current circuit delivering a constant alternating electro-motive force; rectifying means controlled by the difference of both electro-motive forces and a direct current responsive instrument and electrically operated compensating means both

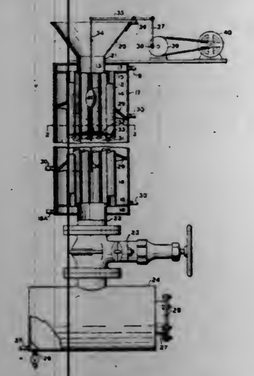
of which are connected in series to the output terminals of said rectifying means; said compensating means counteracting said condition responsive device.

2,319,364
ELECTRICAL HEATING CONDUCTOR AND METHOD OF PRODUCING SAME
Paul Ziegs, Pforzheim, Germany; vested in the Alien Property Custodian
No Drawing. Application April 17, 1939, Serial No. 268,427. In Germany May 6, 1938
7 Claims. (Cl. 117—131)

1. An electrical heating conductor comprising a metal of the platinum group covered by an outer protective layer of an alloy of said metal of the platinum group with from 20% to 40% of a metal of the group consisting of earth and alkaline earth metals.

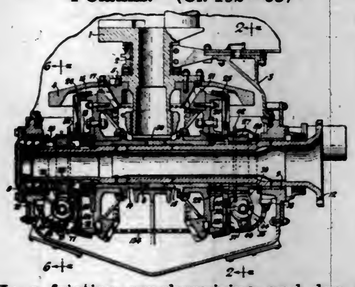
4. Method of producing electrical heating conductors which comprises coating a metal of the platinum group with a metal of the group consisting of the earth and alkaline earth metals and heating at a temperature of at least 1000° C. to alloy the coating metal with the platinum metal, the coating metal being applied in quantity sufficient to yield a surface layer consisting of an alloy of the platinum metal with from 20% to 40% of the coating metal.

2,319,365
FRACTIONATING APPARATUS
Jesse O. Reed, Washington, D. C., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office
Application April 15, 1941, Serial No. 388,600
4 Claims. (Cl. 210—49.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



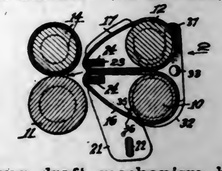
1. An apparatus of the character described comprising a vertical wall forming a melting chamber, means for heating said wall, means for introducing materials into the top of said chamber, said wall having longitudinal openings therethrough for filtering liquid materials, a casing about said wall for holding liquid passing through said openings, drain pipes on the outside of said wall at different elevations to carry off said liquid materials, and baffles on the outside of said wall adjacent said openings at elevations corresponding to said drain pipes, to divert the liquid to said drain pipes.

2,319,366
CLUTCH MECHANISM
Edward V. Rippingille, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application February 6, 1939, Serial No. 254,893, now Patent No. 2,284,589, dated May 26, 1942. Divided and this application April 15, 1942, Serial No. 439,117
4 Claims. (Cl. 192—53)



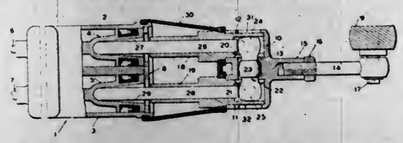
1. In a friction synchronizing and dog clutch mechanism between a driving and a driven member, a shift lever for the friction synchronizing clutch, a shift lever for the dog clutch, a cam for moving the shift lever for the synchronizing clutch, and a toothed gear segment for moving the shift lever for the dog clutch; said cam and said toothed gear segment being secured to a single turnable shaft, and said cam being so shaped and phased in relation to the toothed gear segment that upon turning said turnable shaft, the cam first moves its shift lever to fully engage the synchronizing clutch to bring the driven member to the speed of the driving member, and then slightly releases the synchronizing clutch to allow relative creeping between the driving and driven members while the toothed gear segment moves its shift lever to engage the dog clutch.

2,319,367
APRON GUIDING DEVICE FOR LONG DRAFT MECHANISM
Otto W. Schlums, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application April 13, 1942, Serial No. 438,740
2 Claims. (Cl. 19—131)



1. In a long draft mechanism having upper and lower front and back draft rolls and upper and lower aprons, in combination, a cradle for said aprons detachably mounted on said back rolls and having side members with rearward extensions, and guards for said aprons pivoted to said rearward extensions and behind said back rolls and swingable forwardly about said pivots to embrace the lower back draft roll and to prevent displacement of said cradle, said rearward extensions being offset outwardly with respect to the associated side members, thereby aligning the inside surfaces of said guards and of said side members, and recesses being provided in the side members to receive the curved outer ends of said guards when in operative position.

2,319,368
ACTUATING MEANS FOR TWIN MASTER CYLINDERS
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application October 25, 1941, Serial No. 416,430
9 Claims. (Cl. 74—110)



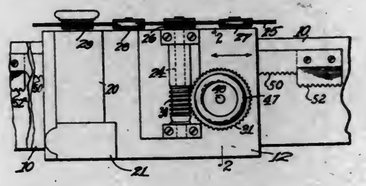
1. In apparatus of the class described, two pressure producing devices each comprising a movable piston, a housing member having a chamber, an equilizing bar mounted for limited pivotal movement in the chamber of said housing member, guide sleeves carried by said housing member, a piston rod in each sleeve, one of said piston rods having one end engaging one of said pistons and its other end extending into said housing chamber for engagement with one end of the equalizing bar, the other of said piston rods having one end engaging the other of said pistons and its other end extending into said housing chamber for engaging the other end of said equalizing bar, and means connected to the housing for moving said housing so as to transmit equal forces to the piston rods by means of said equalizing bar, said housing, sleeves and rods being so constructed and associated with each other as to totally enclose the equalizing bar.

2,319,369
PROCESS OF COLOR PHOTOGRAPHY
Virgil B. Sease, New Brunswick, and John R. Weber, South River, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 28, 1939, Serial No. 287,154
11 Claims. (Cl. 95—2)

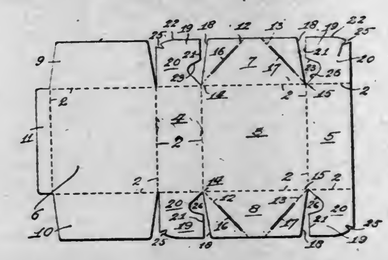
1. A photographic element comprising a transparent base having at least two differentially sensitized emulsion layers each containing a nonmigratory color former capable of forming a dye by color coupling development superimposed thereon the color formers of the respective layers being capable of forming a dye different in color from that formed in the other layers, one of said layers being imposed directly upon the base and a layer of pre-fogged silver salts interposed between said emulsion layers.

2,319,370
FEED MECHANISM FOR RAILWAY SEWING MACHINES
Clifford Edgar Smith and Frank D. Lockman, Lockhart, S. C., assignors to Curtis & Marble Machine Company, Worcester, Mass., a corporation of Massachusetts
Application November 13, 1940, Serial No. 365,538
1 Claim. (Cl. 112—2)

In a railway sewing machine, a fixed support, a sewing machine and stand slidable on said support, power means to feed said stand along said support including a driven shaft mounted in fixed axial position on said stand and rotatable on an axis perpendicular to the path of travel of said stand, said shaft having a gear and an adjacent pinion fixed thereon and rotatable therewith in parallel planes, with said gear of substantially greater effective diameter than said pinion, a rack on said fixed support which extends longitudinally thereof in the plane of movement of said gear and which is engageable by said gear, and two spaced rack bars on said fixed support which extend longitudinally thereof in the plane of movement of said pinion and which are engageable by said pinion, said rack bars and said rack being so relatively positioned longitudinally on said support that they are automatically, alternately and successively engaged by said pinion, said gear and again by said pinion during continued travel of said sewing machine in a forward direction on said support, and said feeding means being thereby rendered effective to feed said sewing machine and stand at successive slow, fast, and slow rates along said support and without change in the rate of stitch formation.

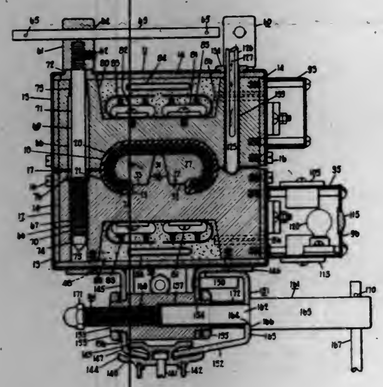


2,319,371
FOLDING BOX
William E. Stonecypher, Los Angeles, Calif.
Application May 25, 1940, Serial No. 337,217
1 Claim. (Cl. 229—36)



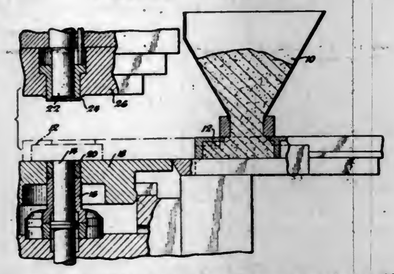
A folding box comprising integrally connected top, bottom, front, rear and side walls, leg extensions formed integral with and projecting from the ends of said front and rear walls, the inner portions of the edges of said leg extensions adjacent the front and rear walls being cut away to form notches, the portions outwardly from said notches forming legs having straight lower edges which rest on the bottom of the box when the same is set up for use, there being diagonally disposed slots formed in the end portions of the side walls, which slots are inclined 45° with respect to the outer edges of said side walls and the joint between the lower edges of said side walls and bottom, which slots receive said legs when the box is set up for use and said side walls being provided with diagonally disposed scored lines in longitudinal alignment with said slots, which scored lines and slots provide weakened lines on which the end portions of the side walls beyond the slots and scored lines fold, when said side walls are collapsed and folded inwardly onto the bottom of the box.

2,319,372
VULCANIZING MECHANISM
Russell George Tilton, Mountain Lakes, N. J., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application May 18, 1942, Serial No. 443,508
8 Claims. (Cl. 18—38)



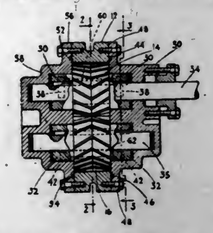
8. Mechanism for vulcanizing a splice in a moving stairway handrail comprising; a mould formed of a lower mould block and a removable upper mould block arranged face to face, each having a heat insulating cover secured to the block and said blocks having matching longitudinal depressions formed in their faces; a pair of filler rods extending longitudinally of the mould in the opening formed by said depressions, the lower mould block being formed with an abutment in said depression therein for said rods, said opening, filler rods and portions of said abutment forming a longitudinal passage in the mould of the same cross section as the handrail; a pair of vertically movable slides, one at each end of the lower mould block, each slide having a pair of horizontally aligned apertures in the upper end thereof; a pair of pivot pins for each filler rod, one at each end thereof, said pins being secured to the ends of the filler rods and extending through said apertures in said slides to form pivotal supports for said rods; means for locking said slides in their uppermost positions; handles secured to the outer ends of said pins for manually turning said rods when the slides are in their uppermost position, said rods being turned upwardly to receive the handrail splice and with the handrail splice in place thereon being turned back to fit into the inside of the handrail; means for locking said slides in their lowermost positions; bolts for securing the upper mould block to the lower mould block, aligned vertical apertures being provided in said blocks for said bolts, the lower end of each bolt being threaded, a portion of each aperture in the lower mould block being threaded to receive the threaded end of the bolt and the upper end of each aperture in the upper mould block being threaded to retain the bolt with the block, the remainder of the aperture in the upper mould block being of enlarged diameter and the shank of each bolt being of reduced diameter to permit the bolt to slide in the aperture with respect to the upper mould block, each bolt having a crossbar horizontally slidable in the bolt head to form a handle; and an electrical heating unit in each mould block.

2,319,373
METHOD OF MAKING METAL ARTICLES
Herman Tormyn, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 16, 1941, Serial No. 415,189
4 Claims. (Cl. 75—22)



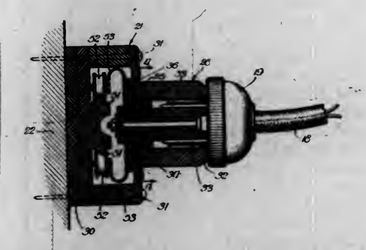
1. The process of forming ferrous metal articles which comprises crushing ferrous metal chips, turnings, shavings, borings, small chunks, etc. to form granulated particles of substantially uniform size, placing a supply of the granulated material in a hopper, intermittently feeding a measured quantity of said material to and filling a die cavity therewith, compressing the material in the die cavity under high pressure to form an article of approximately the size and shape of the final article, removing said approximately shaped article from the die, heating said approximately shaped article to a temperature within the range of 1850° to 2050° F. in a non-oxidizing atmosphere, and pressing said heated article in dies which support and contact the metal both axially and laterally during the entire pressing operation and shape the metal to the final form desired, said dies having segmental jaws which move radially inward during the pressing operation and permit any slight excess material to flow outward between the segmental jaws.

2,319,374
BALANCED PUMP AND MOTOR
Gustave A. Ungar, Pelham Manor, N. Y., assignor to Joseph F. Keller, New York, N. Y.
Application June 28, 1939, Serial No. 281,522
15 Claims. (Cl. 103—126)



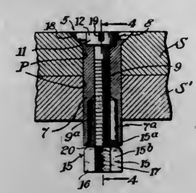
1. Device of the class described comprising a casing, a driving rotor, a driven rotor, an inlet passage, a discharge passage, main balancing ports in said casing connected to said discharge passage and opening onto said rotors at points opposite the discharge passage, auxiliary rotor rings secured to and rotating with said rotors, auxiliary balancing ports connected to said discharge passage and opening onto said rotor rings, the auxiliary ports for the driving rotor being located opposite the inlet passage, and the auxiliary ports for the driven rotor being located opposite the discharge passage.

2,319,375
ELECTRICAL OUTLET
George H. Von Gehr, Chicago, Ill.
Original application April 24, 1939, Serial No. 269,553, now Patent No. 2,279,383, dated April 14, 1942. Divided and this application October 16, 1941, Serial No. 415,176
5 Claims. (Cl. 191—23)



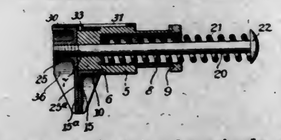
1. A continuous electrical outlet comprising a strip of yieldable insulating material having a slot extending longitudinally of the strip and adapted to receive at least one adaptor plug capable of adjustment substantially throughout the length of said slot, cylindrical electrical conductors or wires supported by said yieldable insulating material within said slot and extending longitudinally thereof, said adaptor plug having contact rollers cooperating with said cylindrical conductors or wires, each of said rollers having associated therewith a spring for urging the roller into electrical engagement with the cooperating cylindrical conductor or wire.

2,319,376
RIVET
Frank C. Wallace, Los Angeles, Calif., assignor, by mesne assignments, to Herman H. Helbush, Beverly Hills, Calif.
Application August 24, 1942, Serial No. 455,859
2 Claims. (Cl. 85—40)



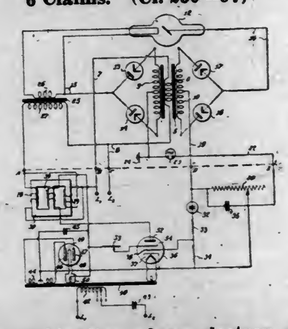
2. A fastener comprising a tubular body presenting a laterally expansible side wall, said body being of an outside diameter insertable through a perforation in work to be riveted, a screw rotatably mounted longitudinally in the body, an expander nut threadedly mounted on the screw, said expander nut having a medial portion which, upon rotation of the screw relative to the nut, has lateral expanding engagement with the body side wall within the perforation and an outer end portion of relatively larger diameter which has lateral expanding engagement with an end portion of the body and a slot dividing the medial and outer end portions of the nut into segments compressible against the screw by virtue of expanding engagement of the nut with said body portions.

2,319,377
CLAMPING TOOL
Frank C. Wallace, Los Angeles, and Herman H. Helbush, Beverly Hills, Calif., assignors, by mesne assignments, to Herman H. Helbush, Beverly Hills, Calif.
Application October 19, 1942, Serial No. 462,652
5 Claims. (Cl. 85—5)



1. A device adapted to clampingly engage the side edges of work to be clamped, comprising a body, a laterally projecting inner jaw carried by the lower end of the body, a plunger reciprocally mounted in the body for protraction and retraction through the lower end of the body, a spring normally urging the plunger into retracted position, and an outer jaw secured to and projecting laterally from the lower end of the plunger in register with the inner jaw, said jaws being operable by virtue of retraction of the plunger to resiliently clamp the work therebetween.

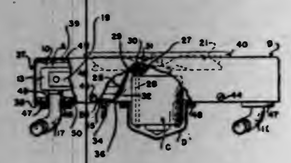
2,319,378
STABILIZER SYSTEM
Louis L. Weisglass, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 9, 1941, Serial No. 414,307
6 Claims. (Cl. 250—97)



1. The combination of an electron discharge device provided with a cathode to be heated, an excitation circuit for said device including a high tension transformer having its secondary winding connected through a rectifying arrangement to said electron discharge device for supplying unidirectional current thereto, a source of alternating current electrical energy for heating the cathode of said electron discharge device, inductive means associated with said source of heating energy and operable upon the imposition of a unidirectional current component thereupon differing from that of the heating source to control the flow of heating current to the cathode of said electron discharge device, means connected to said excitation circuit and subject to variations in potential thereacross in response to variations in discharge current through said electron discharge device, and circuit means electrically associated with both said aforementioned means and operable upon a variation in the potential across said means connected to said excitation circuit to cause the imposition of a current com-

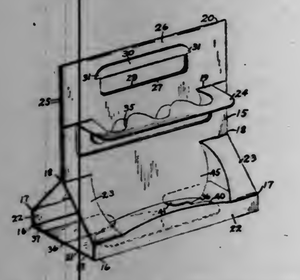
ponent upon said inductive means differing from that of said heating source accompanied by a variation in the heating current supplied to the cathode of said electron discharge device inversely to variations in the discharge current flowing through the latter.

2,319,379
HEATER STRUCTURE
Lewis W. Welch, Detroit, Mich., assignor to Novi Equipment Company, Novi, Mich., a corporation of Michigan
Application April 2, 1941, Serial No. 386,521
13 Claims. (Cl. 257—237)



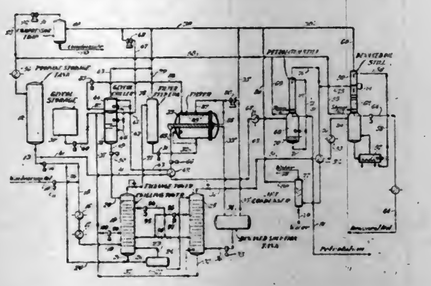
1. A heater structure for use between the floor and front seat of a motor vehicle, comprising a casing adapted to be mounted upon the floor beneath the front seat of a motor vehicle, said casing having substantially horizontal top and bottom walls and upright end walls, the top wall being provided at approximately the center thereof with an inlet opening for air, the end walls having outlet openings through which air may be discharged to points in front and in rear of said seat, a fan within said casing beneath the inlet opening for circulating air from the inlet opening through the outlet openings, a motor for driving the fan, the bottom wall of said casing having a raised substantially frusto-conical portion encircling and forming an enclosure for a part of the motor, said frusto-conical portion being beneath the fan in the path of air from the inlet opening for deflecting such air toward the outlet openings, and means suspending the motor from said frusto-conical deflector.

2,319,380
COLLAPSIBLE CARRY HOME CONTAINER
William J. Wells, Buffalo, N. Y., assignor to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware
Application April 4, 1939, Serial No. 265,962
1 Claim. (Cl. 224—45)



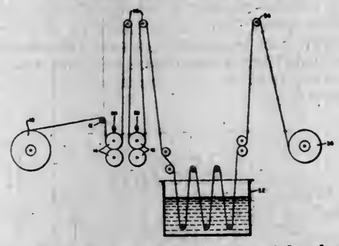
In an article carrier, in combination, a structural member including a single sheet permanently connected into an endless structural sheet member, said sheet member having hinge elements extending thereacross at spaced intervals, said sheet member being deflected on certain of said hinge elements to form an article supporting bottom and to form outer upright article retaining walls, said sheet member being deflected on others of said hinge elements to form structural tension members rising above said outer retaining walls and inclining inwardly and upwardly toward each other, and to form also an inner upright supporting wall rising above said inclined tension members, said upright wall including two plies of said sheet member positioned in face-to-face relation and forming a carrying handle at the upper part of the carrier, said carrier having article receiving openings at opposite sides thereof and respectively opening through said inwardly inclined tension members, a supporting member or flap integral with said inner upright supporting wall and extending downwardly from the latter adjacent to said tension members and positioned between the opposing said receiving openings to form an article cushion between the articles, one of said hinge elements being positioned substantially at the upper extremity of said inner supporting wall and forming a collapsing hinge between the plies thereof, a bottom collapsing hinge extending across the carrier substantially at said article supporting bottom intermediate the opposite edges thereof and including overlapping bottom reinforcing parts of said sheet member provided with interlocking formations reinforcing said bottom against downward deflection beyond its normal supporting position and providing for upward hinge movement of the bottom on said bottom hinge, whereby the carrier may be collapsed into a compact substantially flat unit by deflection on said collapsing hinges, said supporting member or flap extending downwardly in contact relation with said article supporting bottom substantially at said upwardly hinging reinforced parts thereof so as to brace the carrier in its normal set up condition.

2,319,381
CONTINUOUS DEWAXING
Henry Pettiner Wickham, New York, N. Y., and George White, Jr., Summit, N. J., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application June 15, 1940, Serial No. 340,646
10 Claims. (Cl. 196—18)



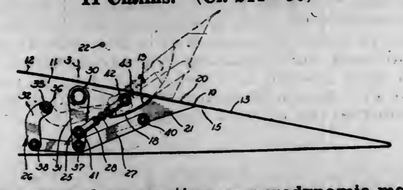
1. The method of controlling the chilling rate in a countercurrent system wherein a warm waxy oil solution is countercurrently and directly contacted with a cold normally liquid refrigerant which comprises withdrawing refrigerant from the system near the low temperature end thereof, and adding refrigerant to said system adjacent the high temperature end thereof, the temperature of the added refrigerant being lower than the temperature of the refrigerant in the countercurrent system at the point of addition.

2,319,382
APPARATUS FOR SATURATING ROOFING FELT
Clarence Elbert Wilkinson, Port Neches, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application July 24, 1941, Serial No. 403,842
5 Claims. (Cl. 91—18)



2. Apparatus for saturating a felt sheet comprising cooperating upper and lower squeeze rolls between which the felt sheet is passed, means for rotating said rolls, a spout disposed above the upper roll and directed to feed hot saturant to the top of said roll so that the saturant will flow down both sides thereof to contact one face of the sheet both as it enters between and emerges from said rolls, and means for suspending the moving sheet in the air for a distance sufficient to permit absorption of the saturant from one face and the expulsion of air and moisture from the opposite face thereof.

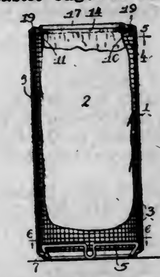
2,319,383
LINKAGE MOUNTING FOR AERODYNAMIC MEMBERS
Edward F. Zap, Los Angeles, Calif.
Application January 19, 1942, Serial No. 427,236
11 Claims. (Cl. 244—90)



1. Means for mounting an aerodynamic member for movement on a curved path, said means including: two spaced rocker means; a first control link pivotally connected to each of said rocker means and pivotally connected to said aerodynamic member; and a second control link spaced from said first control link, said second control link being pivotally connected to only one of said rocker means and being pivotally connected to said aerodynamic member, said two control links supporting said aerodynamic member.

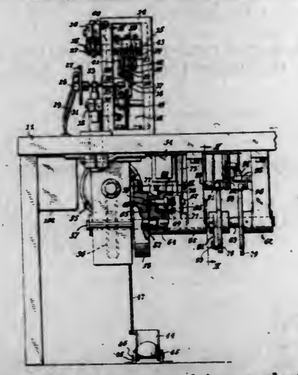
2,319,384
CLOTHES HAMPER
Terence J. Callan, Park Ridge, and Victor L. Erickson, Chicago, Ill., assignors to Welmaid Products, Chicago, Ill., a partnership consisting of Terrance J. Callan and Victor L. Erickson
Application February 12, 1941, Serial No. 378,618
4 Claims. (Cl. 206—8)

1. In a hamper, a shell comprising a light weight body portion, inwardly extending projections at the upper end of the body portion, said body portion having means to rest on the floor and support it in vertical position, a bag having a neck portion formed with a pair of circumferential elastic edges spaced apart from each other axially of the bag and formed between said edges with fullness, a ring over which the upper one of said elastic edges is stretched, said ring



and neck portion being supported on said projections and holding the open mouth bag in the shell, and means projecting from the ring to enable it to be instantly pulled from the neck portion, the bag dropped on the floor and the shell quickly and easily lifted off of the bag.

2,319,385
TIMING DEVICE FOR ELECTRIC CURRENT
Landon Ralls Calvert, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 25, 1940, Serial No. 337,157
18 Claims. (Cl. 219—4)



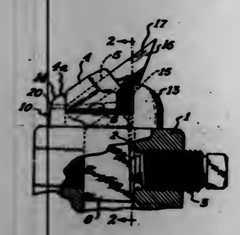
5. A timing device comprising a shaft, a plurality of cam discs and a stop device adjustably mounted on said shaft, a pivoted latch normally engaged by said stop device, a continuously running motor, a clutch between said motor and shaft, and a release device operable to momentarily rotate the latch away from said stop device and allow the shaft and elements carried thereby to make only one revolution, and means then breaking the connection between said release and stop devices until after a return of the former to initial position.

2,319,386
METHOD OF MAKING PHENOLATED RESINS
William H. Carmody and Harold E. Kelly, Springfield, Ohio, assignors to Carmody Research Laboratories, Inc., a corporation of Ohio
No Drawing. Application February 10, 1940, Serial No. 318,322
2 Claims. (Cl. 260—62)

1. The herein described method of making a

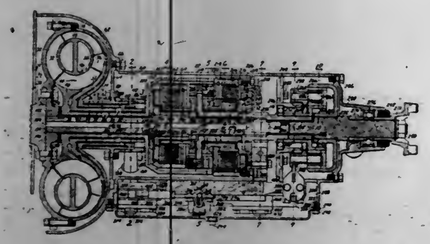
high melting primarily terpenic hydrocarbon resin compatible with ethyl cellulose by heating a reaction mixture consisting in substantial entirety of a solution of preformed relatively high melting wholly hydrocarbon pinene polymers in an inert solvent therefor and phenol in the presence of a Friedel-Crafts metallic halide catalyst.

2,319,387
MINING MACHINE
John R. Cartlidge and Armin O. Bruestle, Cincinnati, Ohio, assignors to The Cincinnati Mine Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application August 9, 1940, Serial No. 351,996
11 Claims. (Cl. 262—33)



1. In combination with a bit, a bit block, a bit holder having a bit retaining aperture and a shank projecting into the bit block, a separate and removable cradle surrounding a portion of the holder and positioned on the block and under the active cutting point of the bit, said cradle having an abutment contacting the cutting face and opposing withdrawal of the bit from the bit holder.

2,319,388
HYDROMECHANICAL TRANSMISSION GEARING
Frederick W. Cotterman, Dayton, Ohio
Application June 3, 1940, Serial No. 338,525
30 Claims. (Cl. 74—472)

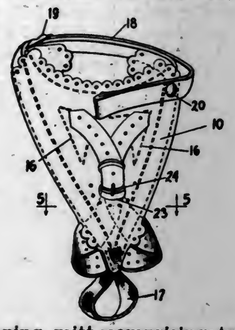


1. The combination, in a device of the character described, of an engine, an impeller connected for unitary rotation with the engine, a rotor, a driving gear on the rotor, a carrier, planet pinions on the carrier in mesh with the driving gear, two concentric gears in mesh with the planet pinions, a brake for holding one concentric gear non-rotative, a clutch for connecting the second concentric gear to the impeller for unitary rotation therewith, and speed responsive means operative at a certain speed to first disengage the brake then engage the clutch.

2,319,389
COATING COMPOSITION
Frank W. Corkery, Crafton, and Samuel G. Burroughs, Pittsburgh, Pa., assignors to Pennsylvania Industrial Chemical Corporation, a corporation of Pennsylvania
No Drawing. Application July 16, 1940, Serial No. 345,860
5 Claims. (Cl. 260—28)

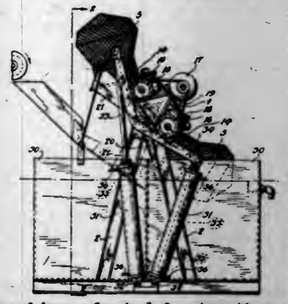
1. The herein-disclosed thermoplastic coating composition consisting essentially of a homogeneous mixture of paraffin wax and thermoplastic resin melting higher than the paraffin wax and composed of polymers of unsaturated carbocyclic terpadienes.

2,319,390
GRIPPING MITT
Wilfred Dantolan, Chicago, Ill.
Application April 4, 1941, Serial No. 386,791
5 Claims. (Cl. 273—35)



4. A gripping mitt comprising two loops for embracing the adjacent fingers of the hand of a user, a body portion connecting said loops together at the back of the hand, and a strap-like member forming a loop between said finger loops to embrace a golf club in the palm of the hand, said member being slidably mounted in said body portion to tighten said loop on said club, and means to secure the free end of said member to the wrist of the user.

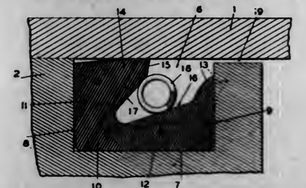
2,319,391
AUTOMATIC BULK TREATING MACHINE
John Virden Davis, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
Application September 14, 1940, Serial No. 356,776
16 Claims. (Cl. 214—17)



1. A machine adapted for treating articles in bulk comprising a frame, a plurality of opposed rows of work containers tiltably mounted on

the said frame, a support for each work container tiltably mounted on said frame, mechanism for rotatably mounting some of the work containers on their respective supports, and gravity actuated means for transferring the articles by gravity from one work container in one row when said work container is raised to a work container in another row when said other work container is lowered.

2,319,392
SEAL CONSTRUCTION
Burns Dick, Ferguson, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application August 22, 1942, Serial No. 455,703
6 Claims. (Cl. 309—34)



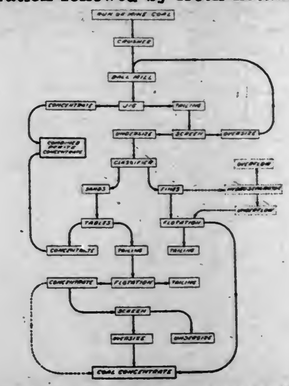
1. In a seal for a piston and a cylinder, said seal comprising an annular portion associated with the piston and provided with a lip for engaging the cylinder wall, means positioned inwardly of the lip for establishing with the inner surface of the annular portion a V-shaped groove having its bottom portion remote from the lip, an an annular coiled spring positioned in the groove with opposed portions of each coil which forms the spring being in engagement with portions of the sides of the groove spaced from the bottom of said groove, said spring when in operative position being in expanded condition and the side wall of the groove engaged by the inner portions of the coils of the spring being at such angle to the axis of the piston that the spring will be forced toward the bottom of the groove and the axis of the piston by its tendency to contract.

2,319,393
LUBRICANT FOR SOLID DIES
Samuel Epstein, Bethlehem, and John R. Kreiser, Lebanon, Pa., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
No Drawing. Application August 30, 1941, Serial No. 408,988
18 Claims. (Cl. 252—39)

1. In the manufacture of wire, bolts and the like, the step consisting in drawing the limed wire rod through a suitable die with a lubricant consisting of calcium myristate and a wax of high melting point.

2,319,394
BENEFICIATION OF LOW GRADE COAL
Stephen E. Erickson, Springdale, Conn., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware
Application January 29, 1941, Serial No. 376,448
In Brazil April 5, 1940
3 Claims. (Cl. 83—94)

1. A method of recovering pyrite and coal values from a low grade coal containing pyrite which comprises crushing the coal to —10 mesh, subjecting the crushed coal to a gravity concentration operation to produce a pyrite concentrate and a low grade coal tail, classifying the tails into a coarse and a fine fraction, subjecting the coarse fraction to a gravity concentration operation followed by froth flotation of the

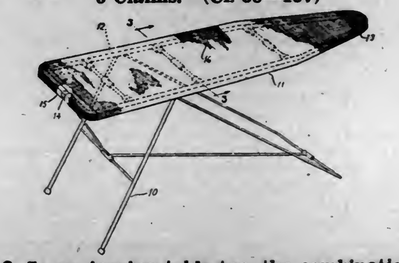


coal values from the gravity concentration coarse fraction tails, and recovering the coal values from the fine fraction by froth flotation.

2,319,395
AQUEOUS DRILLING MUD
Hugh S. Ten Eyck and Chester A. Fulton, Baltimore, Md., assignors to Southern Phosphate Corporation, Baltimore, Md., a corporation of Delaware
No Drawing. Application June 17, 1941, Serial No. 398,407
11 Claims. (Cl. 252—8.5)

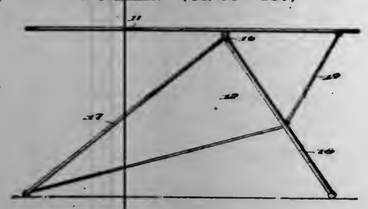
1. In rotary drilling of a well, the improvement which comprises circulating from top to bottom of the well a drilling mud comprising an aqueous suspension of a finely divided clay containing a relatively large proportion of a finely divided substantially water-insoluble mineral phosphate.

2,319,396
IRONING TABLE TOP
Horace B. Fay, Willoughby, Ohio, assignor to Gridiron Steel Company
Application December 5, 1940, Serial No. 368,635
3 Claims. (Cl. 38—137)



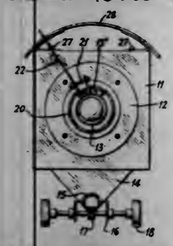
2. In an ironing table top, the combination of a metal tube formed into conventional ironing board shape with a rounded forward end and tapered nose portion and a substantially rectangular rear portion to form a frame, the ends of said tube terminating at the rear of the board and being slidably joined together for movement transversely of the top, a sheet of reticulated metal stretched over said frame and rigidly secured thereto, and adjustable expanding means attached to said frame for expanding the latter transversely to tension said sheet into a taut ironing surface.

2,319,397
IRONING TABLE
Horace B. Fay, Willoughby, Ohio, assignor to Gridiron Steel Company
Original application August 6, 1938, Serial No. 223,441. Divided and this application January 16, 1941, Serial No. 374,781
5 Claims. (Cl. 38—137)



2. In an ironing table top, the combination of two thin metal sheets, the top sheet being flat and provided with a smooth, continuous, imperforate, unobstructed, ironing surface, and being of insufficient strength to support the iron independently, the bottom sheet being deformed to provide portions out of the normal plane of the sheet, said portions being in contact with and rigidly secured to said top sheet to support the latter and to form said two sheets into a rigid ironing table top, the edges of the sheets being formed into a continuous downturned flange to form a stiff box-like structure.

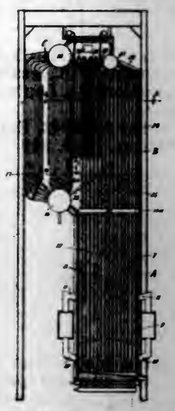
2,319,398
PHOTOGRAPHIC APPARATUS
Benjamin Gold, Brooklyn, N. Y.
Application December 17, 1941, Serial No. 423,279
7 Claims. (Cl. 95—64)



1. A diaphragm adjusting and indicating device for use with photographic apparatus utilizing a lens assembly supported on a lens mount, and comprising a lever having an expansible collar for engaging the barrel of said lens for adjusting the diaphragm opening, and a scale cooperating with said lever and including an arc-shaped member having a pair of brackets and means engaging said brackets and the lens mount for detachably securing said scale to said lens mount, and a pointer on said lever which moves over said scale when the diaphragm is adjusted to visually indicate the aperture opening of said diaphragm.

2,319,399
APPARATUS FOR THE RECOVERY OF CHEMICALS FROM BLACK LIQUOR
Alexander L. Hanna, New York, N. Y., assignor to Combustion Engineering Company, Inc., New York, N. Y., a corporation of Delaware
Application October 19, 1940, Serial No. 361,874
5 Claims. (Cl. 122—235)

5. In a self-sustaining system for recovering chemical and generating steam from the black liquor of wood pulp mills, a smelter furnace into which the black liquor is sprayed, a chamber thereabove and successively arranged with respect thereto as to gas flow, a boiler successively arranged with respect to the chamber as to gas flow, closely spaced tubes lining said furnace, closely spaced tubes lining the walls of said chamber, said chamber having an opening at the upper part thereof through which the gases flow later-



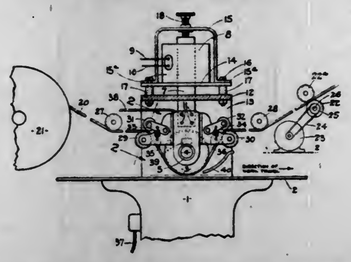
ally into the tube bank of the boiler, and other tubes within the chamber and in advance of the boiler, all of said tubes being connected with the boiler, the amount of exposed surface of the said tubes being sufficient to lower the temperature of the gases before entering the boiler to approximately 1200° F. at all regular self-sustaining rates of operation and the tubes lining and in the chamber being so disposed that gases have parallel flow therewith.

2,319,400
TRACTION SPLINT
Raymond Hartmann and Gustave R. Tifal, Los Angeles, Calif.
Application October 26, 1942, Serial No. 463,394
6 Claims. (Cl. 128—84)



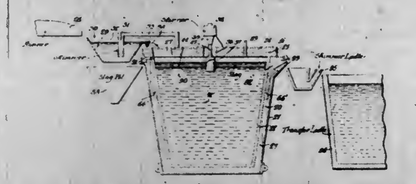
1. A traction splint comprising telescopically related first and second sections, means for fixedly relating the sections, a body engaging member at one end of said first section, a pressure clamp pivotally connected with the outer end of said second section, and resilient means acting on said pressure clamp and said second section.

2,319,401
METHOD OF AND APPARATUS FOR WELDING METAL
Edward S. Hebeler, Williamsville, N. Y., assignor, by mesne assignments, to Unit Rays, Inc., Cleveland Ohio, a corporation of Ohio
Application January 3, 1941, Serial No. 372,981
6 Claims. (Cl. 219—8)



1. In the electric arc welding of metals by the use of a non-melting electrode, the method which includes the step of continuously propelling successive portions of a wire electrode through the welding zone at a predetermined speed, maintaining the portions passing through the said zone at a predetermined distance from the work, and directing a jet of gaseous fluid under pressure between the work and the successive portions of the wire electrode leaving the arc and in a direction opposite to the direction of travel of the said electrode.

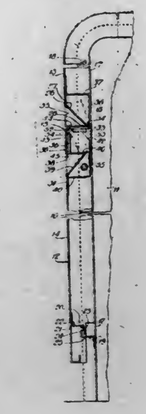
2,319,402
DESULPHURIZING APPARATUS
Russell Pearce Heuer, Villa Nova, Pa., assignor to Essex Research Corporation, Wilmington, Del., a corporation of Delaware
Application January 18, 1941, Serial No. 374,989
8 Claims. (Cl. 266—34)



1. A desulphurizing vessel closed to the atmosphere and provided with a refractory lining adapted to hold a charge of molten pig iron and a body of molten desulphurizing slag on the iron, electromagnetic means to induce electric current within the metal as a secondary for imparting a generally horizontal rotary stirring to the iron and means for rotating the slag in a direction opposite from that of the iron.

2. A vessel for desulphurizing molten metal whose major vessel axis is vertical having a refractory lining and adapted to contain molten metal and desulphurizing slag on the molten metal, walls forming a charging opening, a metal tap opening and a slag tap opening at a different level from the iron tap opening on a side opposite to the metal tap opening, means for closing the openings against air contamination, means for tilting the vessel about an axis adjoining one tap opening for discharging from that tap opening and means for tilting the vessel about an axis adjoining the other tap opening for pouring from that tap opening.

2,319,403
WALL STRUCTURE
Charles A. Hill, Buffalo, N. Y., assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application December 16, 1941, Serial No. 423,145
9 Claims. (Cl. 189—34)

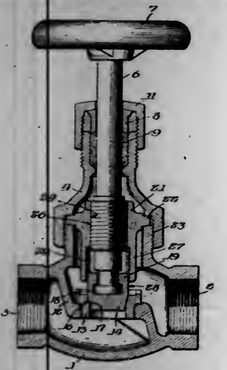


1. An upright sheet-metal wall divided transversely to provide an upper fixed panel and a lower movable door panel, the upper panel having a recess extending across the lower part thereof and defined partly by an inward and downward inclined rear wall terminating in an inner free edge portion extending across the lower part of said upper panel; said lower door panel having a recess extending across the upper part thereof and disposed opposite said first-named recess; a latch member extending lengthwise across the recess in said lower panel and pivoted to move about an axis extending in the same general direction as said inner free edge portion and including an upstanding hooking flange disposed inward of the pivot and extending lengthwise in the same general direction as said free edge portion of the upper panel and fitting behind and engaging the rear of said free edge portion when said door panel is closed and being movable downward and out of engagement with said free edge when said door panel is to be opened; and means for biasing said latch plate to move the hooking flange upward toward locking engagement.

2,319,404
VALVE
Earl A. Hoeh, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application August 25, 1941, Serial No. 408,189
1 Claim. (Cl. 251—49)

A valve comprising a body having a seat therein, a bonnet, a rising stem, a removable bushing aligned with said seat and having a portion disposed within and peripherally spaced from said body and an annular portion clamped between said body and said bonnet, means comprising frusto-conical surfaces on said annular portion and said body for bringing said body and said bushing into concentric relation in assembling said valve, a closure member for said seat carried by

said stem and reciprocably mounted in said bushing, said stem being threaded in said bushing

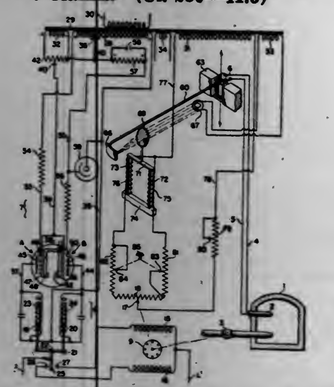


whereby axial movement of said closure member is effected by rotation of said stem.

2,319,405
MANUFACTURE OF GREASES
Martin Hill Ittner, Jersey City, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application August 3, 1940, Serial No. 351,117
10 Claims. (Cl. 252—39)

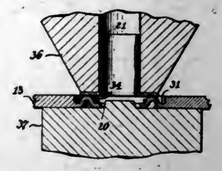
1. The process of manufacturing lubricating grease which comprises making a substantially pure anhydrous soap in molten condition substantially free from glycerine, unsaponified, and volatile unsaponifiable matter, grit and other impurities, and mixing therewith a mineral base lubricating material while the two are in a substantially fused anhydrous condition, with substantial absence of air, and cooling the product with stirring with substantial absence of air.

2,319,406
TEMPERATURE CONTROL INSTRUMENT
Harry S. Jones, Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 16, 1941, Serial No. 415,252
7 Claims. (Cl. 250—41.5)



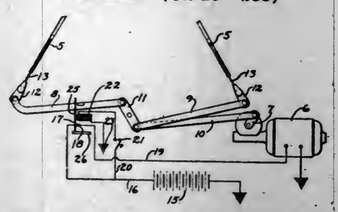
1. In a control instrument, the combination of means to produce a path of radiant energy, a device operative in response to variations in the radiant energy, a first member deflected in response to variations in the value of a condition to be controlled to vary the amount of radiant energy applied to said device, a second member also movable to vary the radiant energy applied to said device and operating in opposition to said first member, an electric circuit varied by said device in response to variations in radiant energy applied thereto as said first member moves, mechanism operative by electric circuit changes to move said second member in a direction to neutralize the effect of said first member, said mechanism including a part operative to delay the neutralizing action an amount of time proportional to the rate of deflection of the first member.

2,319,407
IGNITRON HEADER CONSTRUCTION
William J. Knochel, Irvington, and Donald E. Marshall, Allwood, N. J., assignors to Westinghouse Electric Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 22, 1940, Serial No. 366,510
6 Claims. (Cl. 219—10)



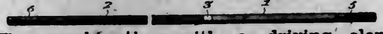
1. The method of welding together a pair of metal members of which one member is relatively thick, comprising counterboring an area in said thick member slightly bigger than the area to be welded thereto of the second member, said counterboring thinning the thick metal at the area to be welded, said thinning being continued until said area is substantially as thin as the part of the other member to be welded thereto, and welding the second member to the said thick member against the thinned portion of the thick member.

2,319,408
WINDSHIELD WIPER PARKING DEVICE
Alfred C. Korte, St. Louis, and Kenneth Lannert, St. Johns Station, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application November 25, 1941, Serial No. 420,394
4 Claims. (Cl. 15—255)



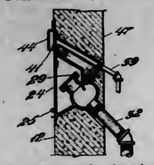
1. A parking control for electric windshield wipers comprising a motor controlling switch, a resilient actuator therefor normally yieldingly maintaining said switch closed, a member cyclically movable with the wiper and disposed to engage and divert said actuator at a predetermined point in each cycle, an electro-magnet functioning, when energized, to urge and hold said switch in its closed position irrespective of said cyclical member, and a second, manual switch for controlling the application of current to said electro-magnet and thereby stopping and starting the wiper.

2,319,409
FLEXIBLE SHAFT
George T. Latimer, Harrison, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application August 3, 1940, Serial No. 350,419
1 Claim. (Cl. 64—2)



The combination with a driving element, of a driven element, and a flexible shaft having distinct regions arranged to be flexed respectively into relatively short and long radii, operatively connecting said elements, and composed of relatively flexible sections each formed of layers of coiled wire alternately wound in opposite directions and joined together in abutted relation to provide a unitary shaft structure of substantially uniform diameter.

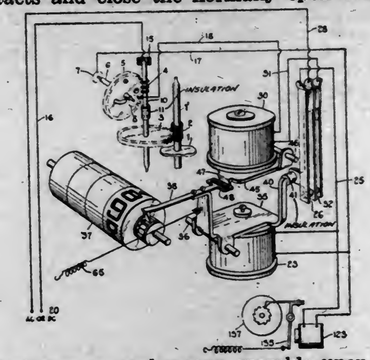
2,319,410
WALL UNIT FOR OIL TANK INSTALLATION
James E. Leary, Cranston, R. I., assignor to Lamson Oil Corporation, a corporation of Rhode Island
Application December 8, 1941, Serial No. 422,185
3 Claims. (Cl. 72—100)



1. A unit for oil tank installation equipment comprising a casting having a front plate with a hollow compartment extending rearwardly therefrom and opening into the front plate, a conduit leading from the compartment, said conduit being enlarged adjacent to the entrance and to provide an expansion chamber, and a baffle extending into said chamber adjacent the entrance thereof and substantially laterally of the direction of flow of liquid through said chamber.

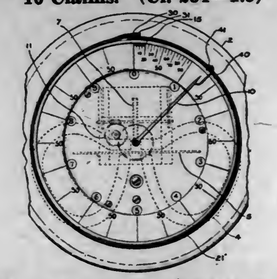
2,319,411
REGISTER OPERATING MECHANISM
Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation
Application August 2, 1940, Serial No. 349,978
3 Claims. (Cl. 235—92)

1. In an apparatus for periodically indexing a rotary counter in accordance with the movements of a rotary member, an operating solenoid having a core movable, upon energization of the solenoid, from an initial position to a final position, means connecting the core and counter for operation of the latter upon movement of the former to its final position, means normally maintaining the core in its initial position, a circuit for said solenoid, a latch for holding said core in its final position, a solenoid for releasing said latch upon energization thereof, a circuit for said latter solenoid, a normally closed pair of contacts in said first mentioned circuit and a normally open pair of contacts in said second mentioned circuit, means operable upon movement of said core from its initial position to its final position to open the normally closed contacts and close the normally open contacts



and vice versa, and means operable upon rotation of the rotary member for alternately controlling said circuits.

2,319,412
AUTOMATIC METER-READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation
Application October 18, 1940, Serial No. 361,802
16 Claims. (Cl. 234—1.5)

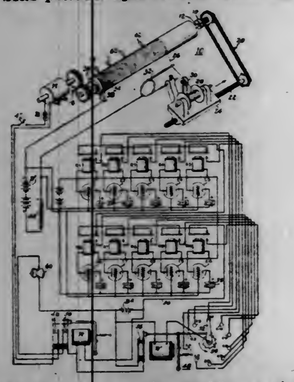


2. In a meter reading apparatus for meters having a rotary dial indicator actuated by volume consumption of the metered product, a plurality of signaling resistances of progressively increasing values, each succeeding resistance being inclusive of the preceding resistances, an impedance circuit, means for successively connecting said resistances in the circuit in accordance with the advancing positions of the dial indicator, means in said circuit establishing a potential differential commensurate with the impedance value of the circuit, an amplification circuit, electronic means responsive to said potential differential for establishing in said amplification circuit voltages inversely proportional to said differential and of uniformly progressively increasing values, and means for recording said voltages.

2,319,413
METHOD OF AND APPARATUS FOR PRODUCING TAPPED RESISTORS
Ward Leathers and Jerrier Haddad, Brooklyn, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 18, 1942, Serial No. 439,541
5 Claims. (Cl. 242—9)

1. The method of producing a tapped precision resistor of the wire-wound type which comprises

winding a resistance wire upon a resistor form continuously while simultaneously connecting the applied portion of the wire in a signalling circuit to produce a continuously changing voltage differential therein, marginally biasing a series of relay circuits, utilizing the voltage differential thus produced in the signalling circuit to overcome the bias placed upon one of said marginally



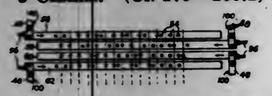
biased relay circuits, causing said marginal relay circuit to terminate the winding operations, tapping the wound resistance wire at its point of maximum resistance, resuming the winding operation with the overall applied portion of the resistance wire in the signalling circuit, and repeating the process with the use of additional marginally biased relay circuits until completion of the resistor.

2,319,414

METHOD OF AND APPARATUS FOR VERIFYING PERFORATED RECORDS

Ward Leathers and Jerrier Haddad, Brooklyn, N. Y., and William J. A. Bailey, Packanack Lake, N. J., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application June 27, 1942, Serial No. 448,824
3 Claims. (Cl. 179—100.1)



1. In a verifying apparatus, analyzing devices adapted to sense perforations in the index positions of a record media, including circuits adapted to be completed under control of said sensing means upon sensing of one or more perforations in a column, a source of light producing a light beam, means for intercepting said beam and splitting the same into individual beams in accordance with the closing of said circuits, and photoelectrically controlled means responsive to the creation of said individual beams for producing respective audible signals.

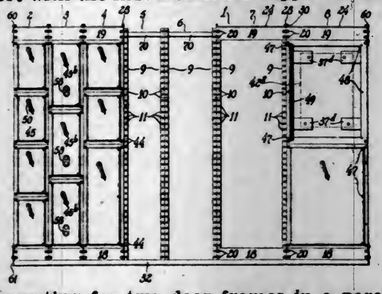
2,319,415

ELECTRICAL CONTROL APPARATUS

Edwin N. Lightfoot, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application October 2, 1940, Serial No. 359,421
23 Claims. (Cl. 175—309)

1. In apparatus of the character described, in combination, parallel vertical supports spaced for attachment thereto of a door frame of given dimensions, cross members secured to said supports and an intermediate vertical support secured to said cross members, the intermediate support with the first mentioned supports affording mounting for two door frames in a parallel relation, door frames detachably fixed to said supports, an electrical control device wholly supported by and behind each of said door frames and a door supported by each of said door frames.

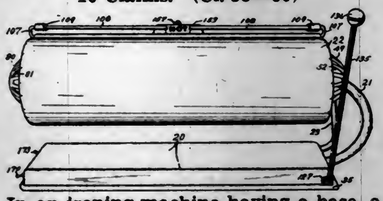


2,319,416

PORTABLE IRONING MACHINE

Thomas James Litle, Jr., Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware

Application March 25, 1940, Serial No. 325,822
10 Claims. (Cl. 38—60)



5. In an ironing machine having a base, a roll rotatably mounted over said base, and a movable shoe adapted to cooperate with said roll, in combination, means for swinging said shoe into and out of cooperative engagement with said roll including a substantially U-shaped support, the upper arm of which is disposed substantially parallel to the axis of said roll, means for securing said upper arm adjacent its end to substantially the center of said shoe, means for rotatably mounting the lower arm of said support in said base, and means for rotating said lower arm including a toggle mechanism operatively connected thereto remote from the connecting portion between the arms of said U-shaped support, whereby said lower arm may be subjected to torsional strain to maintain said shoe in yielding pressure engagement with said roll.

2,319,417

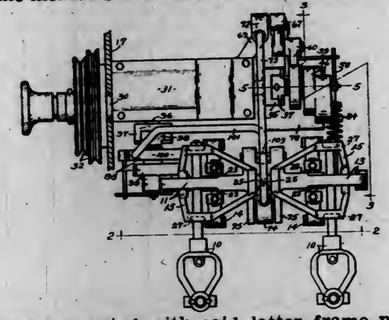
LENS GRINDING AND POLISHING MACHINE

Eli M. Long, Geneva, N. Y., assignor to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York

Application November 27, 1941, Serial No. 420,716
12 Claims. (Cl. 51—157)

5. In a lens grinding and polishing machine having a carrier mechanism comprising a pair of frame members mounted to reciprocate in directions substantially normal to each other, in combination, two drive means, one for each frame

member, means operatively connecting the drive means with the frame members for producing said reciprocative movements of said members, and a vibration dampener for at least one of said frame members including a counterbalance operatively connected with said latter frame member and with said means connecting the frame member with the corresponding drive means adapted to minimize the inertia forces due to reciprocation of said latter frame member.

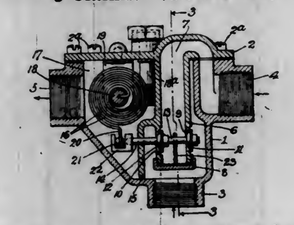


2,319,418

MIXING DEVICE FOR MIXING HOT AND COLD LIQUIDS

James K. Lund, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Application July 8, 1939, Serial No. 283,447
5 Claims. (Cl. 236—12)



1. A mixing device for mixing hot and cold liquids, comprising a casing having an inlet for the hot liquid and an inlet for the cold liquid and an outlet for the mixed liquid, all formed in the casing, a cover separate from said inlets and outlet for said casing, a conduit formed in said cover as a part thereof, having a discharge end projecting into the casing and an inlet communicating with the cold liquid inlet in the casing, the discharge end of said conduit being closed, said conduit being provided with two cold liquid discharge ports, valve members controlling said ports, a longitudinally movable connecting member connecting said valve members together, separated supporting bearings on said discharge end for said connecting member, and a thermostat carried by said cover, said thermostat having a port connected with said connecting member for said valve members so as to move them responsive to variations in temperature, to vary the proportion of hot and cold liquid entering the casing.

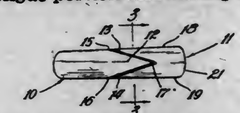
2,319,419

REED

Stephen J. Lucas, Chicago, Ill.

Application August 4, 1941, Serial No. 405,389
2 Claims. (Cl. 84—383)

1. A wood-wind reed comprising an elongated body portion and a vibrating tongue portion, said tongue portion having a heart extending lengthwise of the center thereof from the body portion, said heart being relatively thicker and more rigid than the tongue portion and having opposite side



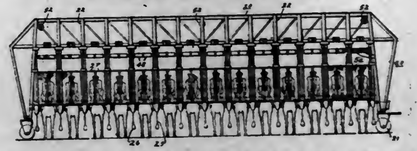
edges converging to an apex at the end of said heart extending toward the free end of the vibrating tongue portion, said vibrating tongue portion having the side portions of the top surface thereof on opposite sides of said heart tapering downwardly from said heart to thin opposite edges.

2,319,420

AUTOMATIC STARTING GATE

Michel E. Macksoud, Gloucester, Mass.

Application May 1, 1940, Serial No. 332,673
4 Claims. (Cl. 119—15.5)



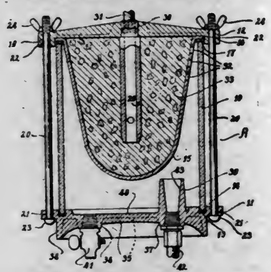
1. Starting apparatus for horse races comprising a plurality of stalls, gates for said stalls, holding means for said gates, a photo-electric cell at one side of each stall, a light source at the side of each stall opposite to said side, said cells and said sources being so positioned that the light beam from the sources to the cells will be interrupted by the horses in said stalls when in proper starting positions, an electric circuit individual to each cell, an electric circuit common to said holding means and normally completed at a plurality of points, and means in each individual circuit to interrupt said holding means circuit at one of said plurality of points when the beam to its cell is interrupted, whereby said holding means circuit is completely broken and said holding means de-energized to release said gates when the beams to all cells are interrupted.

2,319,421

OIL FILTER

Archibald D. MacLaren, St. Paul, Minn.

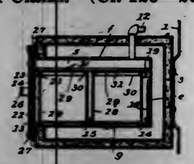
Application October 6, 1939, Serial No. 298,253
3 Claims. (Cl. 210—131)



1. An oil filter comprising a top closure plate, a substantially parallel bottom closure plate, an upright substantially cylindrical shell between said plates, clamping bolts connecting said plates externally of said shell, a cup-shaped receptacle

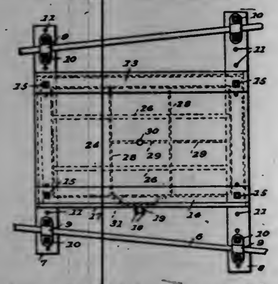
having a rounded bottom end and outwardly tapering side walls, said receptacle having a peripheral rim thereupon overlying the upper edge of said shell, a gasket between said shell and said rim to seal the joint therebetween, said rim being clamped between said shell and said top closure plate by said clamping bolts, filtering material in said receptacle, said receptacle having an outlet passage therethrough adjacent said rim, an inlet pipe extending downwardly from said top closure plate into spaced relation to the bottom of said receptacle, said bottom closure plate having an outlet opening therethrough.

2,319,422
FOOD WARMER
Herman J. Maihack, Jersey City, N. J., assignor of one-half to George H. Hutaff, Jr., Wilmington, N. C.
Application August 3, 1940, Serial No. 350,918
1 Claim. (Cl. 126—20)



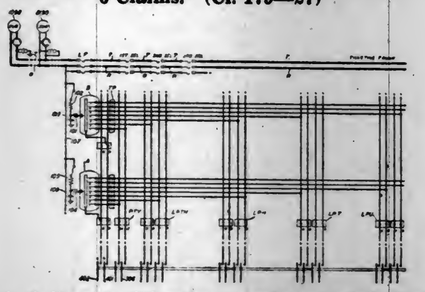
In combination with the water cooling system of an automobile, a food warmer including an outer casing or housing having an open front compartment therein, a space being provided between the outer casing or housing and the walls of the compartment, a removable drawer normally positioned within the compartment of the casing or housing, said drawer including a front portion adapted to overlie the opening into the compartment and including a skeleton frame carried by the front portion, the skeleton frame including a bottom formed of angle irons, a plurality of individual readily removable food containers supported by the bottom angle irons with portions of certain of the angle irons projecting upwardly and extending between and spacing the individual removable food containers, and means for circulating the water from the cooling system through the space between the casing or housing and compartment.

2,319,423
FOOD WARMER
Herman J. Maihack, Jersey City, N. J., assignor of one-half to George H. Hutaff, Jr., Wilmington, N. C.
Application August 3, 1940, Serial No. 350,919
1 Claim. (Cl. 224—29)



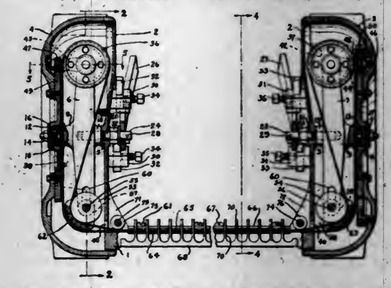
A container adapted to be carried by converging radiator stay rods beneath the hood of an automobile, the hood having movable side portions, including a supporting structure having transversely extending spaced bars provided with spaced openings therein, means including members insertable through the spaced openings of the bars for connecting the same to the stay rods and adapting the bars to be adjusted longitudinally of the converging stay rods, longitudinally extending bars connecting the transversely extending bars, means including members engageable with the longitudinally extending bars and insertable through the spaced openings in the transversely extending bars for permitting adjustment of the longitudinally extending bars on the transversely extending bars, track members carried by the transversely extending bars, and a slidable drawer supported by the track members, access being had to the slidable drawer by raising one of the movable side portions of the hood.

2,319,424
TELEPHONE SYSTEM
Martin E. Maloney, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 12, 1941, Serial No. 388,221
6 Claims. (Cl. 179—27)



1. A line identification circuit for a telephone line having a numerical designation, comprising an electronic device individual to said line, means for activating said device, and means responsive to the activation of said device for registering the numerical designation of said line.

2,319,425
LAWN MOWER
Haakon Meitzner, Houston, Tex.
Application June 30, 1941, Serial No. 400,446
9 Claims. (Cl. 56—244)

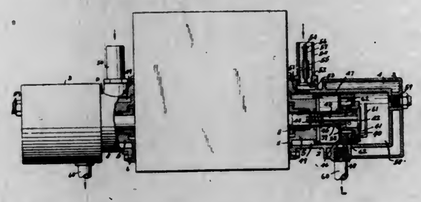


1. A mowing machine comprising a frame, ground wheels mounted to rotate on the frame, an endless belt formed with marginal cutter blades, means within the wheels for mounting the belt, means within the wheels for driving the belt, means mounted partly in the wheels and partly on the frame for causing the runs of the belt to travel in adjacent relation across the frame whereby the blades will be caused to cooperate with shear-like effect.

2,319,426
PHOTOGRAPHIC COMPOSITION CONTAINING UNSYMMETRICAL DIACYLACET-POLYAMINO - ARYLIDES AND COLOR DEVELOPMENT PROCESSES
Edmund B. Middleton, Woodbridge, and Andrew B. Jennings, New Brunswick, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 13, 1939, Serial No. 284,342
6 Claims. (Cl. 95—6)

1. A photographic developer solution containing an aromatic amino developing agent containing an unsubstituted amino group and an unsymmetrical diacylacet-diamino-arylide having a divalent hydrocarbon radical containing at least two benzene rings which is attached to the amide nitrogen atoms, wherein the acyl radicals are different and at least one of the acyl radicals contains a cyclic nucleus.

2,319,427
INTERNAL COMBUSTION MOTOR
John M. Morgan, Houston, Tex.
Application February 19, 1940, Serial No. 319,634
1 Claim. (Cl. 123—47)

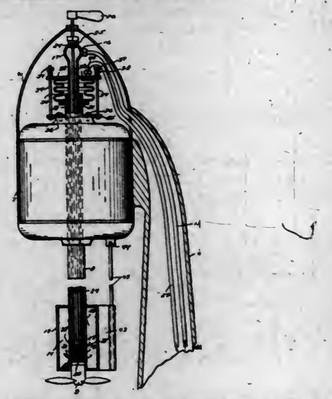


In an internal combustion motor a piston and a rod assembly comprising a hollow piston rod, a piston on the rod, a perforated disc across the piston between the piston and rod, a valve stem guide screwed into the rod whose outer end is enlarged and formed with a valve cage whose outer end is formed with a valve seat and with an external flange engageable against the piston, said guide forming means to clamp the piston, piston rod and disc in assembled relation when the guide is screwed home.

2,319,428
RAYON MANUFACTURE
Arthur F. F. Mothwurf, Philadelphia, Pa., assignor, by mesne assignments, to Imperial Rayon Corporation, Gloucester, N. J., a corporation of Delaware
No Drawing. Application October 5, 1940, Serial No. 359,901
7 Claims. (Cl. 18—54)

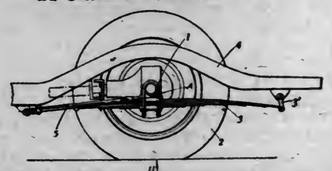
1. The process of regenerating cellulose from its cuprammonium solutions in a single stage which consists in spinning the cuprammonium solution in an alkaline precipitating bath, which bath comprises, besides water as a solvent, two chemically active components, of which one is a copper sulphate for attracting and absorbing ammonia and the other of which is ammonium sulphate to dissolve copper hydroxide in an alkaline solution.

2,319,429
BEVERAGE MIXER AND COOLER
Wilbur Andrew Nelson and Eleanor Kirkham Nelson, South Bend, Wash.
Application April 8, 1941, Serial No. 387,528
3 Claims. (Cl. 257—120)



3. In a beverage mixer and cooler, a stand embodying a base having a standard rising therefrom, a motor mounted on said standard and having a vertically disposed tubular agitator shaft, an agitator on the lower end of said shaft, a hollow drum on said shaft above said agitator, and adapted to receive a refrigerant, said hollow shaft within the confines of said drum being provided with apertures, a plug in said shaft provided with a passage registering at its ends with said apertures and also provided with an orifice providing an inlet for said passage, a tubular valve casing disposed within the hollow of said shaft and having one end seated against said plug, a valve stem shiftable axially of said tubular casing and provided at one end with a needle valve movable with the stem into and out of engagement with the plug for opening and closing the orifice in said plug, and conduit means connected with said tubular casing for supplying a refrigerant to said drum through said casing, the refrigerant with the valve in unseated position passing through the passage in said plug and the apertures in said shaft into said drum, said shaft also having an opening therein for the escape of gaseous vapors from said drum through the shaft, and conduit means connected with said shaft for drawing off said escaping vapors.

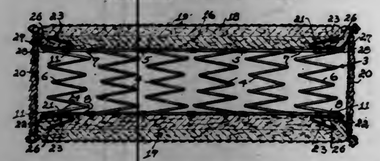
2,319,430
SUSPENSION SYSTEM
Maurice Olley, Detroit, Mich., and George F. Gibson, Luton, England, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 3, 1940, Serial No. 343,807
In Great Britain July 3, 1939
14 Claims. (Cl. 267—66)



1. In a motor vehicle, in combination, a frame, a rigid axle carrying road wheels on opposite sides

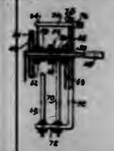
of the vehicle, longitudinally disposed leaf springs between each end of the axle and the vehicle frame having their forward ends pivotally connected to the vehicle frame and their rearward ends shackled to the vehicle frame, and a pair of links having their opposite ends respectively pivotally connected to the axle and the vehicle frame; said links being forwardly divergent from the axle to the vehicle frame.

2,319,431
INNER SPRING CUSHION AND MATTRESS STRUCTURE
David T. Owen, Cleveland Heights, Ohio, assignor to Hanna G. Dimick, Cuyahoga Falls, Ohio
Application December 2, 1940, Serial No. 368,133
8 Claims. (Cl. 5—260)



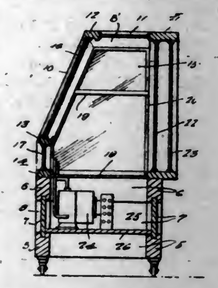
8. In an inner spring cushion and mattress structure a spring unit embodying a plurality of coil springs having their top and bottom convolutions coupled together to form a unitary spring body having substantially parallel top and bottom surfaces, V-shaped slotted strips of flexible, resilient material seated on said surfaces near their edges by securing each of said strips with its one flange to an adjacent convolution of a border spring of said unit so as to extend its slotted other flange outwardly from said convolution, and padding material covering said surfaces of said spring unit folded around the slotted flanges of said strips and having its edges tucked between the flanges of said strips.

2,319,432
METER CONSTRUCTION
Hugo Panissidi, Jamaica, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application August 12, 1942, Serial No. 454,481
2 Claims. (Cl. 200—56)



1. An attachment for existing meters of the type having a dial face plate, a plurality of rotary dial shafts projecting therethrough in parallelism and a pointer mounted on each shaft, said attachment comprising a front insulated plate and a rear insulating plate spaced therefrom, a plurality of shafts projecting completely through said plates and corresponding in number to the number of said rotary dial shafts and similarly spaced from one another, means on the rear end of each shaft for attachment to one of said rotary dial shafts, means on the front end of each of said shafts for reception of one of said pointers, a commutator ring mounted on each shaft and insulated therefrom and rotatable therewith, a brush carried by one of said plates and in electrical engagement with each commutator ring, a plurality of contact pins projecting outwardly from one of said plates and circumferentially spaced about the axis of each of said shafts, a flexible contact finger extending radially outwardly from each commutator ring and rotatable therewith and designed for successive engagement with their respective contact pins, said brushes and contact pins being designed for electrical connection in a telemetering circuit.

2,319,433
STORE WINDOW SHOWCASE
Robert L. Phillips, Memphis, Tenn.
Application April 30, 1941, Serial No. 391,180
1 Claim. (Cl. 312—118)



A show case having ends each comprising a pair of upright front and rear end frame members forming corner legs, lower horizontal front, rear and end members forming with said upright end frame members a lower rectangular frame, higher horizontal front, rear and end members forming with said upright end frame members a higher rectangular frame spaced above said lower frame, front, rear and end panels closing the space between said lower and higher frames, the upright front frame members sloping upwardly and rearwardly from a point above the horizontal higher frame, a horizontal intermediate front bar extending between the upright front frame members at a level corresponding to the beginning of the slope of said upright front end frame members, a pair of lower and upper front horizontal bars extending between the upright front end frame members, the lower one along the front horizontal bar of the higher frame and the upper one between the tops of the upright front end frame members, a vertical glass panel extending between said lower and intermediate front horizontal bars, sloping sliding glass doors between said intermediate and upper front horizontal bars, a rectangular rear frame extending from the rear horizontal member of the higher frame to the tops of said upright rear end frame members, spaced apart glass panels in said rear frame forming a double wall therein, and a glass top extending between the upper front horizontal bar and said rear frame and between the tops of said upright end frame members, said rear frame projecting rearwardly of the rear horizontal frame member of the higher horizontal frame.

2,319,434
DRESS STEAMER DEVICE
Charles Pungor, Detroit, Mich.
Application February 23, 1942, Serial No. 432,073
2 Claims. (Cl. 223—70)

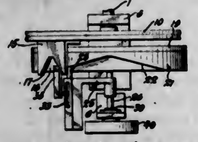
1. A garment finishing device consisting of a balloon element slightly permeable to steam and air, and having the shape when distended of the interior of the garment to be finished when said garment is filled out, said balloon having an open

bottom portion, a base chamber device having a throat opening at its upper part, and having an upwardly extended bounding wall around said opening, adapted to fit within said opening of the balloon, means to secure the opening of the balloon around said wall, means to supply steam under pressure within said throat opening and to



direct the steam upwardly into the balloon, means to supply air under pressure through said throat at will, a skirt weighting device consisting of a band of fabric folded on a line to afford a loop-shape in cross section, and having a multiplicity of clasp members attached to the upper part thereof, and a flexible weight device carried within said loop portion.

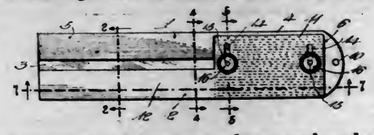
2,319,435
AUTOMATIC STEERING
Gerald M. Rassweiler, Ferndale, and Robert N. Frawley, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 4, 1941, Serial No. 409,546
6 Claims. (Cl. 114—144)



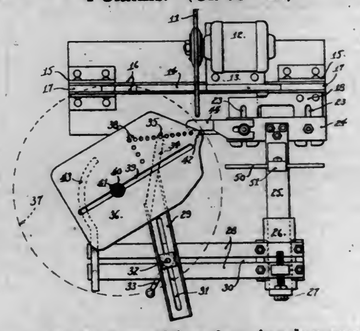
1. In an automatic steering gear to maintain a craft on a set course, of the kind in which a power actuated rudder member is deflected in one direction and the other from neutral by servomotor means responding to oscillating deviations of the craft from its set course, and a follow up member following up the movement of the rudder with lost motion constitutes an element of the control means therefor; means comprising an automatic self adjusting device responsive to movement of the rudder member for varying the extent of lost motion as a function of the maximum deflection which the power actuated rudder member has immediately before experienced.

2,319,436
READER'S AID AND BOOKMARK
Alfred J. Bailie, Philadelphia, Pa.
Application December 26, 1940, Serial No. 371,809
4 Claims. (Cl. 88—39)

1. A device of the character described comprising companion members shiftable relative to each other to dispose inner side edges of the members in predetermined spaced relation to each other and provide a reading space of predetermined width, and a magnifying glass fixed against the under face of one member and overlapped by the other member with a portion exposed through the reading space, said magnifying glass having a transversely curved under surface and constituting a fulcrum permitting transverse tilting of the device.



2,319,437
SAW GRINDING MACHINE
John B. Biasotti, Albany, Calif.
Application November 25, 1940, Serial No. 367,066
4 Claims. (Cl. 76—42)



1. A grinding machine for circular saws comprising a grinding wheel, a movable horizontal table for supporting the saw, said table having a slot and a plurality of spaced holes, a stud adjustably secured in said slot and projecting above the table to engage and locate the center of the saw, a pin projecting above the table to engage a tooth of the saw, a bracket, means adjustably positioning said bracket with relation to the grinding wheel, means for feeding said bracket toward and away from the wheel, a pin projecting upwardly from said bracket for selective engagement with any one of said holes, the table being thereby supported for free swiveling movement in a horizontal plane, and an adjustable stop positioned to engage said table to limit said swiveling movement.

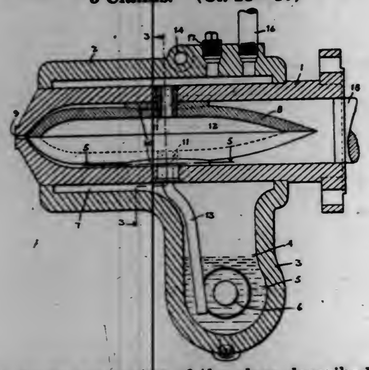
2,319,438
FASTENING DEVICE
Daniel A. Brennan, deceased, late of Chicago, Ill., by Elmer L. Zwickel, executor, Chicago, Ill., assignor to Acco Products, Inc., Long Island City, N. Y., a corporation of New York
Application December 16, 1940, Serial No. 370,372
In Canada March 19, 1929
5 Claims. (Cl. 24—153)



1. A fastener compressor comprising, in combination, an elongated plate apertured adjacent each end to receive spaced prongs on an associated element which are bent inwardly against the top face of said plate, said plate having longitudinal slots one inwardly of each aperture, a

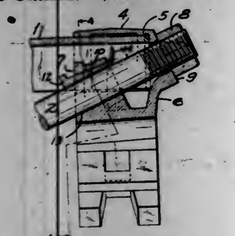
latch slidable in each slot, and means on each latch each to overlie a marginal edge portion only of one of the prongs.

2,319,439
PLASTIC MOLDING APPARATUS
Arthur A. Burry, Toronto, Ontario, Canada
Application December 11, 1939, Serial No. 308,549
5 Claims. (Cl. 18—30)



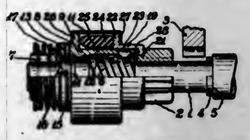
5. In an apparatus of the class described comprising a cylinder having a discharge orifice, pressure means for ejecting a plastic from the cylinder, a sealed jacket spaced from and surrounding said cylinder, a chamber depending from said jacket, adapted to contain a body of water and communicating with the space about said cylinder and an immersion electric heater arranged in said chamber and adapted to be surrounded by said body of water and to generate steam, the combination therewith of means for circulating within the cylinder a portion of the steam generated to maintain substantially uniform temperature conditions interiorly and exteriorly of said cylinder and ensure uniform plasticizing of the contents being ejected therefrom.

2,319,440
RAILWAY BRAKE BEAM
Edwin G. Busse, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application May 10, 1939, Serial No. 272,927
19 Claims. (Cl. 188—226)



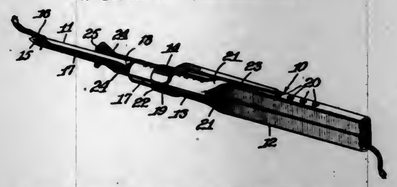
1. In a truss type brake beam, a compression member, a brake head seated thereon and including brake shoe mounting lugs, a tension member extending through said brake head, a tensioning device on the end portion of said tension member and seated against the outer portion of said brake head, and a device for gripping said tension member laterally, mounted on said head between the sides of the head and in the rear of said lugs but spaced from said tensioning device and functioning independently thereof.

2,319,441
ENGINE STARTER
James E. Buxton, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 23, 1942, Serial No. 427,959
3 Claims. (Cl. 74—7)



1. In an engine starter drive a power shaft, a pinion slidably journalled thereon, a stop on the power shaft defining the operative position of the pinion, a screw shaft fixed to the power shaft, a flanged barrel member fixed to the pinion, a flanged nut member on the screw shaft in telescopic relation with the barrel, a block of elastically deformable material interposed between the flanges of the barrel and nut and in frictional engagement therewith, and clutch means in the barrel limiting the telescopic movement of the nut into the barrel and forming an auxiliary frictional connection therebetween.

2,319,442
PUNCH NEEDLE
Gustav A. Carlson, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a corporation of Illinois
Application January 8, 1941, Serial No. 373,660
2 Claims. (Cl. 112—80)

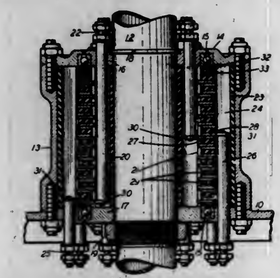


1. In a device of the character set forth, a hollow member comprising a tubular needle portion equipped with a point having an eye, a central barrel portion, and a flat handle portion, the barrel portion merging at its rear into the handle portion, said member having a slot running from said point through said tubular needle portion, said central barrel portion and said flat handle portion to the rear end of the handle portion, a guard having a sleeve engaging said barrel portion and being provided with a slot aligned with said first-mentioned slot whereby thread may be drawn into the interior of said handle, barrel and needle portions through said slots, said flat handle portion providing a rear stop for limiting rearward movement of said sleeve, and an outwardly flared bell portion at the rear end of the needle portion guarding said slot in the needle portion, the outer edge of said bell portion being in substantial alignment with the outer surface of said flat handle portion.

2,319,443
MULTIPLE SLIP RING
Alfred Corte, Glendale, Calif., assignor, by mesne assignments, to Vega Aircraft Corporation, a corporation of California
Application December 27, 1941, Serial No. 424,639
5 Claims. (Cl. 173—324)

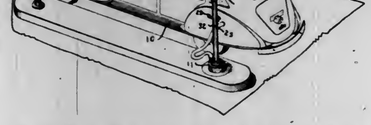
1. A multiple electrical connector adapted to

connect the interior of a rotating turret with the supporting body therefor, comprising a mast rotatable with said turret, a housing associated with the body and disposed concentrically about said mast, a series of pairs of stationary and rotatable contact rings, insulating rings disposed between adjacent pairs of contact rings, a series of progressively stepped terminals disposed par-



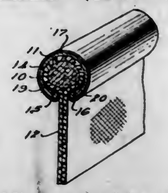
allel with said mast and rotatable therewith, each of said terminals being fastened to one of said rotary contact rings, and a second complementary set of progressively stepped terminals also disposed parallel to said mast and extending oppositely to said first mentioned terminals, said second complementary set of terminals being each fastened to one of said stationary contact rings.

2,319,444
REMOTE INDICATOR FOR DISPENSING PUMPS
Melvin A. Crosby, Dayton, Ohio, assignor to The Dayton Pump and Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application January 23, 1940, Serial No. 315,227
4 Claims. (Cl. 221—95)



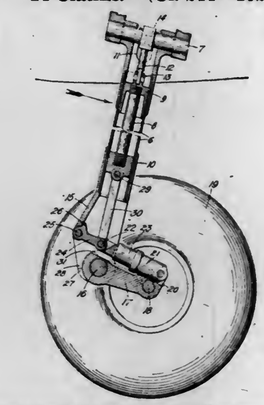
1. In a fluid dispensing mechanism including a motor driven pump, electrical switch means for controlling the operation of said motor, a meter, indicator means and resetting means therefor, the combination with a movable fluid dispensing conduit member of means comprising a pivoted lever for supporting said conduit member, said pivoted lever being operable by removal of said conduit from said supporting means to swing about its pivot and drivingly connect said indicator mechanism with said meter whereby the indicator is actuated in response to the liquid passed through said meter, said pivoted lever having means operatively connected thereto and shiftable to disconnect said resetting mechanism and close said electrical switch to start said motor driven pump immediately upon removal of said fluid conduit member from said support, and last mentioned means comprising a rod and clutch shifting member, said member being operatively connected to said rod and operable to engage and disengage the clutch to operatively connect the meter to the indicating mechanism.

2,319,445
BEAD MOLDING
Orley J. Crowe, Detroit, Mich.
Application November 27, 1941, Serial No. 420,647
5 Claims. (Cl. 20—74)



1. A bead molding comprising a web strip having a bead along one side edge, a thin metal cover folded laterally about the bead and having its edges spaced with the body of said strip projecting between said edges of the cover, a fabric cover over the metal cover, and means tightly holding the fabric on the metal cover.

2,319,446
RETRACTABLE UNDERCARRIAGE FOR AIRCRAFT
George Herbert Dowty, Arle Court, Cheltenham, England
Application March 4, 1940, Serial No. 322,182
In Great Britain March 31, 1939
14 Claims. (Cl. 244—102)

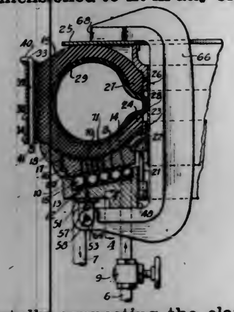


1. A retractable element of aircraft alighting gear including a rigid retractable leg non-deformable during retraction or extension thereof, a resilient deformable frame extending therefrom for movement up and down under landing or taxiing loads, a landing element carried by said frame, means on said leg for pivotally mounting the same upon an aircraft, pivot means spaced from but closely adjacent said mounting pivot means, and means connecting said last mentioned pivot means and said frame for collapsing said frame to move said landing element with respect to said leg upon rotation of said leg about said mounting pivot during retraction or extension thereof.

2,319,447
TIRE MOLD
Jimmy E. Drennan, Lynwood, Calif.
Application November 12, 1940, Serial No. 365,323
5 Claims. (Cl. 18—18)

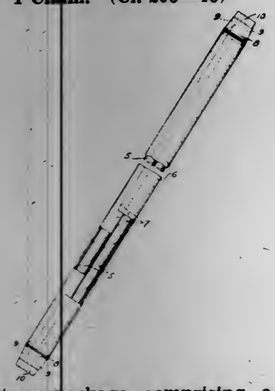
2. In a tire mold, a mold plate arranged to vulcanize a side wall of a tire, means arranged to

engage the opposite side wall of the tire, a C-clamp pivoted to the mold plate and arranged to be swung to and from a position clamping together the mold plate and the first named means, the mold plate having a series of bearings different distances from the side wall of the tire, a pivot pin dimensioned to fit in any of said bear-



ings and pivotally connecting the clamp on the mold plate, a series of abutments arranged different distances from the side wall of the tire to limit swinging movements of the clamp, the abutments being arranged to limit swinging movements of the clamp in its several pivoted positions, and means arranged to heat the mold plate.

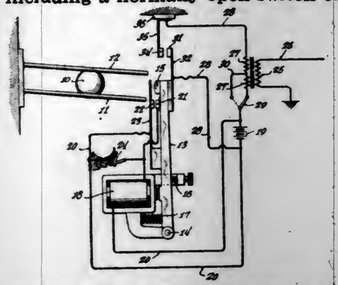
2,319,448
SODA STRAW PACKAGE
George O. Frostad, Milwaukee, Wis.
Original application July 11, 1940, Serial No. 344,874. Divided and this application November 19, 1941, Serial No. 419,707
1 Claim. (Cl. 206—46)



A soda straw package, comprising, a pair of elongated adjoining straws embraced by a tube of thin wrapping stock projecting considerably beyond the opposite ends of the straws, each projecting end portion of the tube being tucked inwardly in the common central plane of the two straws to a sufficient extent and collapsed and sealed at its extreme free end so as to produce a gradually tapered box section of diminishing width measured in said plane and receding from the adjacent straw ends.

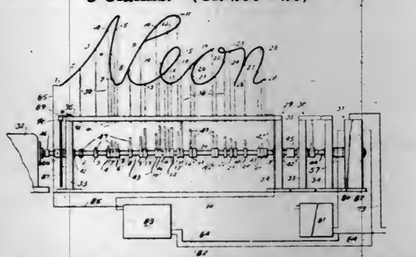
2,319,449
FENCE CHARGING DEVICE
Charles Gallot and Albert Alpaugh, Milwaukee, Wis.
Application May 6, 1940, Serial No. 333,691
6 Claims. (Cl. 175—373)

1. In a charger for an electric circuit, the combination of a reciprocable member, a striker for successively driving said member in one direction, means including a normally open switch closable



by successive movements of said member in an opposite direction for actuating said striker, and means for causing said striker to execute an initial power stroke.

2,319,450
GASEOUS TUBE SIGN
Samuel Gould and Clarence V. Baker, Los Angeles, Calif.
Application March 8, 1940, Serial No. 322,982
5 Claims. (Cl. 200—26)

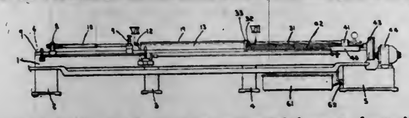


5. In a switching mechanism for electric loads, a cross-bar having end supporting members, a shaft parallel with the cross-bar and spaced therefrom, a plurality of spaced apart contacts along the cross-bar facing the shaft, a plurality of sleeves along the shaft having arms with ends to wipe said contacts, adjustable means to position the sleeves along the shaft and their arms in a plurality of radial positions, a wire leading from a source of electric current having electrical contact with the shaft, means to rotate the shaft and cause said arms to rotate and break connection with said contacts on the cross-bar, said shaft having attached thereon a toothed wheel, and dog means resiliently fixed to the frame to engage the teeth of the wheel, said wheel and dog operating to aid in positioning the arms radially upon the shaft.

2,319,451
GUN RIFLING MACHINE
William F. Groene and Walter R. Meyer, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application June 18, 1941, Serial No. 398,646
5 Claims. (Cl. 90—28.1)

1. In a gun rifling machine, a bed, means on said bed for rigidly supporting a gun to be rifled longitudinally of said bed, a rifling carriage movable on said bed to and from said gun, a spiral guide bar connected rotatably to said carriage for movement longitudinally of said bed, a rifling bar

connected to the end of said spiral guide bar, means for supporting said spiral guide bar on said bed, and means in said supporting means operating in the spiral groove of said guide bar and rifling bar, and means between said supporting means for said guide bar and said gun for rigidly supporting said rifling bar for any position of relative movement of said rifling carriage



on said bed, said means comprising a housing fixed on said bed, a series of slidable blocks mounted for accurate sliding movement longitudinally of said bed in said housing, a series of bores in each of said blocks through which said rifling bar nicely slides, and means for automatically distributing said blocks at spaced intervals in said housing by the movement of said rifling bar into or out of said barrel.

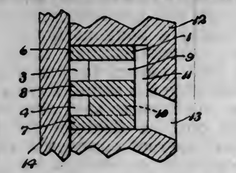
2,319,452
TREATMENT OF CYCLIC HYDROCARBONS
Aristid V. Grosse and William J. Mattox, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application February 24, 1939, Serial No. 258,289
8 Claims. (Cl. 260—668)

1. A process for the dehydrogenation of naphthene hydrocarbons which comprises subjecting the vapors of said hydrocarbons to contact under dehydrogenating conditions with gamma alumina supporting a compound of a metal selected from those in the lefthand column of group V of the periodic table consisting of vanadium, columbium, and tantalum.

2,319,453
PROCESS FOR ACTIVATING CATALYTIC SURFACES
Marion H. Gwynn, Leonia, N. J.
No Drawing. Application May 31, 1940, Serial No. 338,233
7 Claims. (Cl. 252—255)

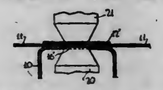
1. A process for preparing a highly active catalytic surface useful in hydrofining, which comprises activating a surface whose metal component is selected from the class which consists of nickel, cobalt and a ferromagnetic and readily reducible alloy, with an aqueous halite solution.

2,319,454
PISTON RING
Douglas W. Hamm, Muskegon, Mich., assignor to Muskegon Piston Ring Company, Muskegon, Mich., a corporation of Michigan
Application November 19, 1941, Serial No. 419,694
1 Claim. (Cl. 309—45)



A parted piston ring having two annular grooves therearound, one below its upper side and one above its lower side to provide upper and lower bearing lands, said lands having bevelled form, said grooves being spaced and separated from each other to provide a bearing land between the grooves, said last mentioned land having a diameter slightly less than that of the other bearing lands, all of said lands being of approximately the same width, said ring having elongated ventilating slots cut radially therethrough from each of said grooves to the inner curved side of the piston ring, consecutive slots in each of the grooves being spaced from each other a distance greater than the length of a slot, and the slots in the two grooves being located in alternate staggered relation to each other and having adjacent ends in close proximity to each other, the upper sides of the slots in the upper groove of the piston ring being in the same plane with the upper side of the upper groove and the lower sides of the slots in the lower groove being in the same plane with the lower side of the lower groove in said ring.

2,319,455
RESISTANCE WELDED METALLIC STRUCTURE
George W. Hardman, Brookline, and Michael Watter, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application May 3, 1939, Serial No. 271,446
2 Claims. (Cl. 189—34)

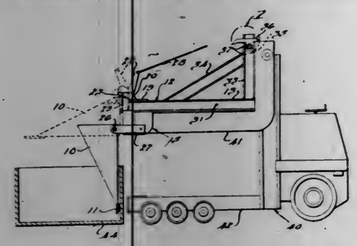


1. In a resistance welded metallic structure having a metal skin sheet of such thinness that it is susceptible to wrinkling and distortion normal to the plane thereof when subjected to localized stresses in such plane, and a supporting member for said sheet engaging one side thereof, said sheet having spaced openings contiguous the engaging surface of said member, a metallic strip engaging the opposite side of said sheet and overlying said openings, one of said supporting member and strip having depressions therein spaced the same as said openings to provide projections extending normal to the surface thereof and of a depth not greater than the thickness of said sheet, said projections extending through said openings and engaging the other of said supporting member and strip, and a resistance spot weld integrally uniting said supporting member and strip through the metal of each of said depressions, whereby said sheet is held in secured relation between said supporting member and strip and free from localized tensioning stresses arising as a result of the spot welding operation.

2,319,456
MATERIAL HANDLING DEVICE
Adelbert G. Hazen, Centerline, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 26, 1942, Serial No. 436,237
7 Claims. (Cl. 214—121)

1. A scoop shovel adaptation for an industrial truck of the type having a vertically movable platform, comprising a main frame structure adapted to seat upon said platform, spaced supports positioning said structure in spaced relation to the floor surface to accommodate insertion of the platform beneath said structure, one of said supports being fixed relative to said frame structure and so disposed as to receive an oper-

ating thrust from an end of said platform and another of said supports being pivotally attached to said frame structure and disposed for movement from its supporting position by said platform as the latter is inserted beneath said frame structure, a scoop member pivoted on the forward end of said frame structure, latch mechanism releasably holding said scoop member in a



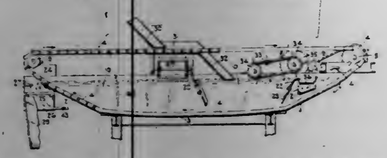
load receiving position substantially in alignment with the longitudinal axis of the frame structure and truck and adapted when released to accommodate pivotal movement of said scoop member to a load discharging position, and means coacting with said platform and said frame structure adapted to oppose tilting of the latter about an axis transverse to the platform and truck.

2,319,457

APPARATUS FOR GRAVITY SEPARATION OF GRANULAR MATERIAL

Arthur Algernon Hirst, Northfield, Birmingham, England, assignor of one-half to Simon-Carves Limited, Cheadle Heath, Stockport, England

Application May 31, 1940, Serial No. 338,131
In Great Britain June 1, 1939
10 Claims. (Cl. 209—173)



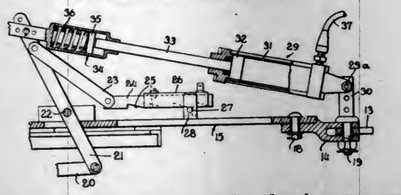
1. Means for the gravity separation of granular material and of the kind specified, including a relatively shallow vessel, a separating medium of a specific gravity intermediate that of the lightest and heaviest materials to be separated, a transverse partition extending across said vessel but having its lower edge spaced from the bottom of the latter, such partition dividing the vessel into two communicating compartments, namely, an inlet compartment, in which the granular material is subjected to one separation treatment, and an outlet compartment, means for removing particles floating in the said separating medium in the inlet compartment, means for producing a flow of separating medium from said inlet compartment to said outlet compartment to transfer material from the inlet compartment to the outlet compartment here such material is subjected to a further separation treatment, said flow being adapted to sweep from the inlet compartment to the outlet compartment particles of approximately the same density as that of the separating medium, means for regulating the strength of said flow, mechanical scraping means for removing from the bottom of the said vessel material sinking in the separating medium, and means for removing particles from the surface level of the separating medium in the outlet compartment separately of the material removed by said mechanical scraping means.

2,319,458

TRACTOR DRAWN IMPLEMENT

Mars M. Hornish, Washington, Ill.

Application November 29, 1940, Serial No. 367,761
13 Claims. (Cl. 55—81)



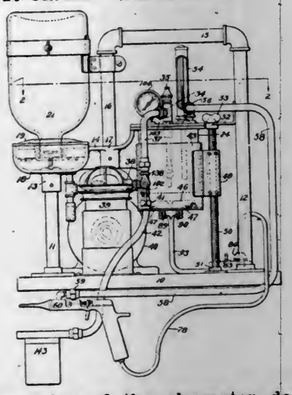
1. In combination, a tractor having a power plant and a draw-bar at the rear of the tractor, an implement releasably connected to the tractor draw-bar, a fluid-power device connected to the draw-bar, means connecting the device and the tractor power plant, and means connecting the device and the implement for applying force to the implement for adjustment thereof and including parts slidable with respect to one another in the direction of transmission of force and releasable from one another upon release of the implement from the tractor.

2,319,459

APPARATUS FOR VAPORIZING AND APPLYING LIQUIDS

Chester W. Johnson, Boston, Mass., assignor of one-half to Willard MacMillan, Watertown, Mass.

Application December 11, 1940, Serial No. 369,604
10 Claims. (Cl. 299—83)



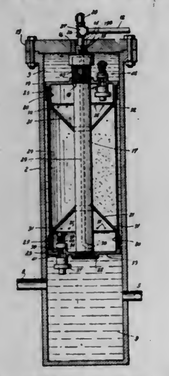
1. An apparatus of the character described comprising a vaporizing chamber having an air inlet port adjacent to its bottom and a vapor outlet port adjacent to its top; means for automatically maintaining a body of liquid within said chamber at a predetermined level below said vapor outlet port; means for heating said body of liquid to vaporize the same; means for supplying air under pressure to said chamber through said air inlet port; a flexible delivery conduit having one end thereof connected with said vapor outlet port, and a terminal at the opposite end of said conduit through which vapor from said conduit is directed on to the surface to be treated.

2,319,460

BREATHER FOR FLUID-ACTUATED MACHINERY

Douglas Johnston, Shelbyville, Ill., assignor to Leslie R. Tallman, Gentry L. Tallman and Emma S. Tallman, all of Shelbyville, Ill., and Jesse L. Tallman, Decatur, Ill., trading as Tallman Manufacturing Company

Application May 5, 1941, Serial No. 391,883
5 Claims. (Cl. 138—30)



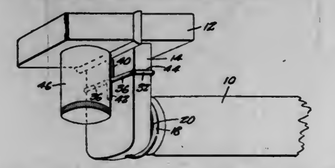
1. In fluid-actuated devices in which hydraulic fluid is alternately withdrawn from and returned to a source of supply, a closed tank completely filled with pressure fluid, pipes for connecting said tank with the discharge side of the device to be hydraulically actuated and with the fluid pressure line to said device, means for compensating for volumetric changes in said tank comprising hollow heads mounted at longitudinally-separated points in said tank, an elastic hose secured and sealed at its opposite ends on said heads and entirely surrounded by the pressure fluid in said tank, said heads having apertures affording communication between their interiors and the interior of said hose, means for maintaining a body of compressed air within said hose, an automatic valve for releasing air from said hose in the event of a break in the fluid line, and an automatic valve for permitting entrance of pressure fluid in the tank to said hose in the event of a break in the air line.

2,319,461

FLUORESCENT ELECTRIC TUBE SOCKET AND TUBE HOLDER

John W. Kelchner, Jr., Tonawanda, N. Y.

Application June 8, 1942, Serial No. 446,224
2 Claims. (Cl. 173—328)



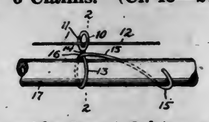
1. The combination of a socket, an illuminating tube having end engagement with the socket, a holder having a loop embracing the tube and a loop embracing the socket to connect the tube and the socket, and means extending upwardly and downwardly from the loop embracing the socket and contacting with the socket to restrain that loop from rocking to hold the tube in firm engagement with the socket.

2,319,462

LINE GUIDE FOR FISHING POLES

Edward H. Kruse, Fort Wayne, Ind.

Application February 5, 1942, Serial No. 429,670
6 Claims. (Cl. 43—24)



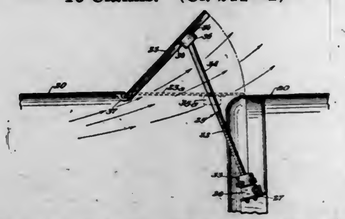
1. A line guide for a fishing pole made of a single piece of spring wire one end portion of which is shaped to have a coil with an overlapping terminal constituting an eye for guidance of a fishing line, a medial portion forming a choke ring to completely encircle said pole, an intermedial portion between the eye and ring formed to provide a saddle, and a spiral opposite end portion constituting a tail lever to partially encircle said pole, said lever having a bend at its juncture with the ring that fits into said saddle.

2,319,463

MECHANICAL ACTUATOR SYSTEM

William P. Lear, Dayton, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois

Application December 21, 1940, Serial No. 371,109
16 Claims. (Cl. 244—1)



1. A jack device for controlling the position of an object to be displaced with respect to a support including a member adapted to be secured to the object, a screw element, a resilient rubber-like body connecting one end of said element with said member, yieldable means for flexibly coupling the other end of said element with respect to the support, and gear means associated with said element for operating the same to correspondingly displace said object with respect to the support, said resilient body yielding to permit realignment of the screw element with respect to the displaced object and normally remaining in a stressed shear condition to stably hold the object in its displaced position and absorb vibrational forces thereon.

2,319,464

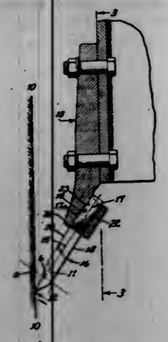
TOOTH FOR EXCAVATING APPARATUS

Laurence Massa, Los Angeles, Calif.

Application January 27, 1942, Serial No. 428,405
4 Claims. (Cl. 37—142)

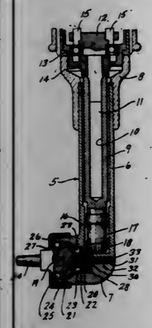
1. In a material handling device including a member movable through the material to be handled; a tooth comprising a support mounted on said member, an edged tooth tip, said tip and said support including means removably mounting said tip on said support for reversal by rotation about an axis at an angle to the path of movement of the edge of said tip, the perpendicular distance from said axis to a predetermined point on the front face of said tip being equal to the distance along the same perpendicular to the path of movement of the edge of said tip, whereby

upon reversal of the tip after it has worn to produce a cutting edge at said predetermined



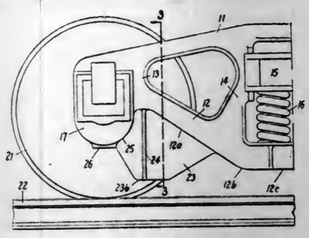
point said cutting edge will be positioned in the path of movement of the original cutting edge.

2,319,465
ANGLE HEAD
Melvorne J. McCombs, Dayton, Ohio, assignor to The Buckeye Tools Corporation, a corporation of Ohio
Application February 5, 1941, Serial No. 377,533
2 Claims. (Cl. 74—423)



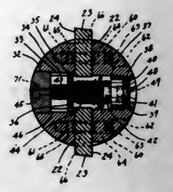
1. In an angle head for a tool, a casing having two tubular portions arranged at an angle one to the other, a driving member rotatably mounted in one of said tubular portions and including a pinion rigid therewith, a driven member rotatably mounted in the other of said tubular portions and including a pinion rigid therewith and meshing with the first mentioned pinion, said casing having at the junction of said tubular portions an integral abutment extending inwardly beyond the axis of said driving member, said abutment and the wall of said casing having an opening therethrough in alinement with the axis of said driven member, a bearing member rigidly supported in said opening and having at its inner end a substantially flat bearing surface adjacent the pinion of said driven member and transverse to the axis thereof, said bearing member also having means operable from the exterior of said casing whereby it may be adjusted toward and from the pinion of said driven member, the pinion of said driven member having an axial projection rigid therewith, tapered substantially to a point and having point contact with the flat bearing surface of said bearing member to provide a substantially frictionless thrust bearing for said driven member.

2,319,466
CAR TRUCK SAFETY DEVICE
George McCormick, Redwood City, and Ben M. Brown, Palo Alto, Calif.
Application August 8, 1941, Serial No. 405,978
8 Claims. (Cl. 104—242)



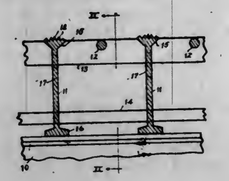
2. In a railway car truck having axles and rail running wheels thereon, journal boxes for said axles, side frames connecting the journal boxes on each side of the truck, each frame being an integrally formed structure having upper and lower longitudinal members, the ends of the lower member being joined to the ends of the upper member adjacent the upper portions of the journal boxes and sloping downwardly therefrom to form approximately inverted V shaped spaces between said sloping frame portions and said boxes, brackets positioned in said spaces, each bracket being fixed to one of the sloping frame portions and extending therefrom to the lower portion of the adjacent box, each bracket extending downwardly and having a side face positioned to engage the side of the rail when the adjacent wheel is derailed.

2,319,467
VERNIER TYPE POSITIVE ADJUSTABLE BORING BAR
Ralph H. Morgan, Indianapolis, Ind., assignor to Chas. Drexler Co., Indianapolis, Ind.
Application December 15, 1941, Serial No. 422,946
20 Claims. (Cl. 77—58)



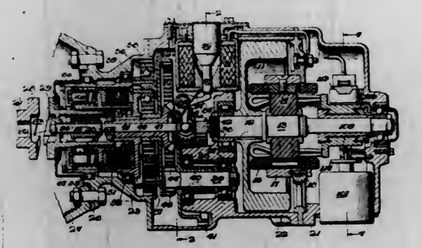
1. In an adjustable boring bar structure, the combination with a body portion having a central chamber and a plurality of radially directed slots extending outwardly therefrom and to the body portion exterior, a cutting blade slidable in each slot, an adjusting bolt having a tool engageable body portion exposed end and a threaded portion in the chamber, an elongated pinion having threaded connection with the bolt, a threaded connection between a wall of said chamber and the pinion and of a character to rotate the pinion in axial movement of the pinion incident to bolt rotation and at a rate other than that of the bolt, elongated teeth on the pinion, complementary teeth on the slot receivable ends of the blades, the two last mentioned types of teeth being in constant mesh for positive blade movement in the slots proportional to bolt rotation and in opposite directions.

2,319,468
BRIDGE FLOOR
Harold Nagin and Leslie C. Strickland, Pittsburgh, Pa., assignors to Reliance Steel Products Company, McKeesport, Pa., a corporation of Pennsylvania
Application April 10, 1941, Serial No. 387,850
4 Claims. (Cl. 189—82)



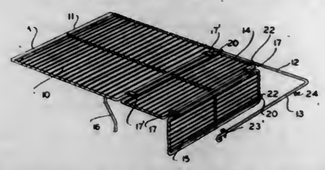
2. In a structural assembly of metal bars, bearer bars each formed of a rolled section of metal having a base flange and a head and a web joining the flange and the head, the sides of the head flaring outwardly and upwardly from the web portion, the top of the head having longitudinally extending ribs projecting upwardly therefrom, cross bars of less depth than the bearer bars secured to the bearer bars by pressure electric resistance welding and terminating adjacent the upper surfaces of the bearer bars, and intermediate bars of less depth than the bearer bars pressure electric resistance welded to the cross bars parallel and between the bearer bars, the tops of the intermediate bars and the tops of the cross bars being in substantially the same plane.

2,319,469
ENGINE STARTING MECHANISM
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application April 8, 1941, Serial No. 387,540. Divided and this application August 19, 1942, Serial No. 455,369
7 Claims. (Cl. 290—38)



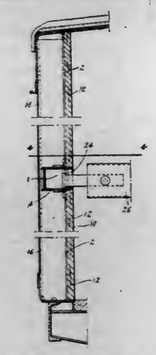
7. In an inertia starter, the combination with a flywheel and engine-engaging member, of means for accelerating said flywheel to relatively high speed, said means further operating to rotate said engine-engaging member at relatively low speed, means for causing movement of said engine-engaging member to engine-engaging position, a source of current, a switch having two operative positions, and commutator brush-engaging means including an electromagnetic device in circuit with said switch when the latter is in one of said operative positions, said brush-engaging means being cooperative with said switch to maintain current flow from said source to said accelerating means continuously during energization of said electromagnetic device.

2,319,470
REFRIGERATOR SHELF
Warren H. Nobles, St. Paul, Minn., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application July 19, 1941, Serial No. 403,169
5 Claims. (Cl. 211—153)



3. A sectional wire shelf for refrigerators including a series of shelf portions hingedly and slidably connected together, lugs secured rigidly to said shelf portions, a frame for supporting said shelf portions in a refrigerator compartment, said lugs adapted to engage said frame to support said shelf portions in a horizontal single plane, means for connecting said frame to shelf supporting buttons on the walls of the refrigerator compartment to rigidly support said frame therein, said lugs providing a means whereby said sectional shelf portions may be folded either up or down to provide a shelfless portion in the refrigerator adjacent the remaining shelf portion, the portions of said shelf which are folded out of the normal plane of said shelf acting as an end guard either under the remaining shelf portion or projecting up from the same, to provide a wire shelf basket compartment.

2,319,471
RAILWAY CAR STRUCTURE
Karl F. Nystrom, Milwaukee, Wis.
Application December 24, 1940, Serial No. 371,529
4 Claims. (Cl. 105—369)



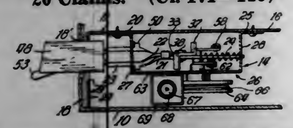
1. In a railway car having a wall comprising posts, a sheathing and a lining in combination with an anchorage device supported by said posts and positioned between the sheathing and the lining, said device comprising a five-sided solid box structure having the sixth side open to the interior of the car through an aperture in the lining, a rod within said box structure and accessible through said aperture for temporary attachment of means for holding a lading in place, said rod being positioned within said box structure to provide an opening on each side thereof, a deck beam having spaced apart prongs adapted to enter said openings and be supported by said box structure, and means to retain said prongs within said openings.

2,319,472

CONTROL APPARATUS

Alexander W. Plensler, Chicago, Ill., assignor to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois

Application November 17, 1941, Serial No. 419,404
20 Claims. (Cl. 171—119)



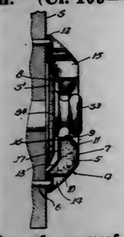
15. A preassembled tuning unit for radio control apparatus having a cabinet, adapted to be installed in a space having the smallest dimension thereof vertically of said cabinet and including a plurality of control units, frame means slidably supporting said control units in a side by side relation longitudinally of said tuning unit, each of said control units having adjustable means at one end and a finger operated portion at the other end thereof, with the vertical and lateral dimensions of said finger portion defining the corresponding dimensions of a control unit, inductance tuning means including coil members longitudinally arranged on said frame means and secured thereto below said control units with the combined vertical dimensions of a finger portion and coil substantially defining the over all vertical height of the tuning unit, pulleys rotatably supported on said frame means for rotation in a plane longitudinally thereof, said pulleys being positioned below said control units within a vertical space defined by said frame means and secured thereto below said pulleys, core elements for said coil members connected into said cable, with movement of said cable adjusting the coil elements relative to said coils, means operatively connecting the adjustable means on said control units with said pulleys so as to rotate said pulleys on actuation of a control unit, and means movably supporting said connecting means on said frame means, with said connecting means being arranged substantially within a vertical distance defined by the vertical dimension of said finger portion.

2,319,473

SAFE OR VAULT PROTECTING DEVICE

Harry H. Podjus, Chicago, Ill., assignor of one-half to Leo Keller, Chicago, Ill.

Application January 13, 1941, Serial No. 374,213
1 Claim. (Cl. 109—34)



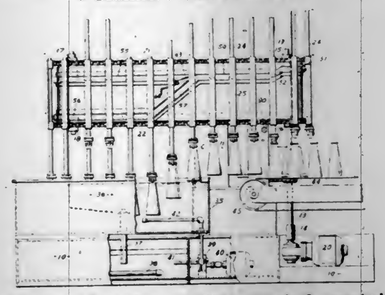
As a new article of manufacture, a device designed to prevent unauthorized removal of a knob equipped dial from a safe or vault and comprising a hollow, annular container having a rear wall, a front wall, and an axially extending cylindrical wall joining said rear and front walls, said axially extending cylindrical wall being of slightly greater diameter than the diameter of said knob and being designed closely to surround said knob, said rear wall having a portion adapted to abut a surface of said safe or vault adjacent to said dial and also having a portion arranged to house the dial, said front wall being dished inwardly where it joins said axially extending cylindrical wall, to facilitate grasping of the knob, said annular container being completely sealed and formed of readily fracturable material, and in addition being provided with a slot in the upper portion thereof for exposing a portion of said dial and having a filling of incapacitating fluid adapted upon fracture of the container to escape therefrom.

2,319,474

MACHINE FOR COOLING COATED CONTAINERS

John F. Price, Fulton, N. Y., assignor to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York

Original application July 26, 1939, Serial No. 286,637. Divided and this application April 23, 1942, Serial No. 440,185
7 Claims. (Cl. 62—104)



1. A machine for cooling coated containers comprising a suitable frame, a tank mounted on the frame containing a cooling medium, a container loading station, a container discharge station, a series of vertically movable spindles, means operable to move said spindles in an orbital path over said loading station and said cooling tank and said discharge station, a container carrying member secured to the lower end of each of said spindles and being operable when moved into engagement with a container to detachably secure the container to the spindle, and means operable, during movement of said spindles over said loading station, to effect a partial downward movement of the spindles to position the container carrying members in engagement with the containers at said station and to effect further downward movement of said spindles during movement of the same over said cooling tank to position the containers in the cooling medium and to subsequently move said spindles to elevated position, and means operable to cause said container carrying members to release the containers carried thereby at said discharge station.

2,319,475

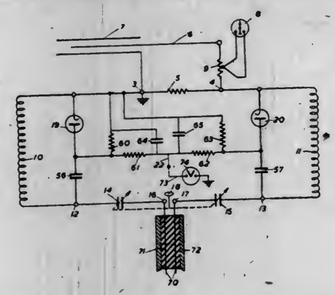
ARRANGEMENT FOR THE MEASUREMENT OF ELECTRICAL IMPEDANCE

Joshua Creer Quayle, Helsby, England, assignor to British Insulated Cables Limited, Prescot, Lancashire, England, a British Company

Application September 3, 1941, Serial No. 409,377
In Great Britain September 9, 1940
6 Claims. (Cl. 175—183)

1. A Q-meter comprising an inductance element and a capacity element in series, adjustable to resonance, and an earth connection, said inductance and capacity elements being each in

two equal parts arranged symmetrically relative to said earth connection, means permitting the insertion of an impedance to be tested between the two parts of one of said impedance elements, two rectifying valves connected in a



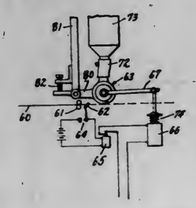
symmetrical arrangement one across each of the parts of one of said impedance elements, measuring means for ascertaining the voltage applied to the meter, and measuring means for ascertaining the voltage across one of said impedance elements.

2,319,476

COATING MACHINE

Don Ray, Los Angeles, Calif.

Application January 6, 1939, Serial No. 249,574
4 Claims. (Cl. 91—30)



1. In an apparatus for coating sheet material with protective coatings, an applicator comprising a tubular member provided with a longitudinally extending slot having substantially parallel walls, said slot forming an applicating port defined by edge portions, a gradually curving surface on said tubular member leading to the front edge portion of said slot, said tubular member being provided with a re-entrant curved surface adjacent the rear edge portion of said slot, said re-entrant curved surface being parallel to said slot but spaced therefrom whereby said rear edge portion is rendered narrow and is adapted to act as a smoothing knife edge, a rotary valve in said tubular member, said valve being adapted to open and close said applicating port, means for moving sheet material along a line of travel past said port, and means operated by sheets of material advancing toward said port for actuating said rotary valve to open said port.

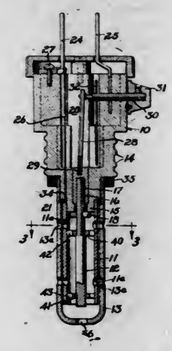
2,319,477

ELECTRIC WATER HEATER

Harry A. Rush, Glendale, Calif.

Application November 2, 1942, Serial No. 464,155
9 Claims. (Cl. 219—40)

1. An electric water heater of the immersion type comprising a plug formed of electrical insulating material, a tubular electrode secured at one end to said plug, a second electrode within said tubular electrode secured at one end to said plug, a housing of insulating material enclosing said electrodes and supported from the



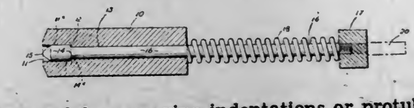
plug free from any connection with said second electrode, and an insulating spacer forming a bridge between said electrodes near their outer ends.

2,319,478

BODY AND FENDER PICKUP TOOL

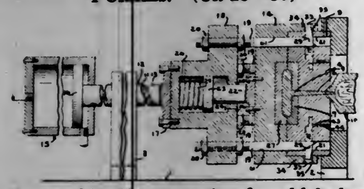
William E. Rybak, Cleveland, Ohio

Application April 7, 1942, Serial No. 437,952
1 Claim. (Cl. 81—15)



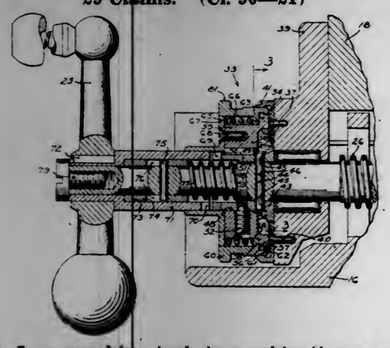
A tool for removing indentations or protuberances from fenders and bodies of vehicles, the same comprising an elongated body member of a size to be conveniently grasped by the operator and provided with a bore extending longitudinally therethrough, the said bore being enlarged to provide a chamber extending through the front, operating end of the said body member, with an annular shoulder provided between the said chamber and the remainder of said bore, an impact device comprising an elongated shank having at one end thereof a head adapted to be received within said chamber and having at its inner, rear end a radially extending shoulder adapted to engage the first mentioned shoulder, the said head having a tapered operating front end and the head being of such length that the tapered operating end thereof is normally located within said chamber and substantially in a plane extending transversely of the outer end of said chamber when the shoulder of said head is in engagement with the said annular shoulder, the body of the shank being mounted within and guided by said bore and extending rearwardly beyond said body member, a power receiving member with which the rear end of said shank is connected, a helical spring surrounding said shank between the body member and the power receiving member, the front end of said body having a plane annular surface extending outwardly at right angles to the axis thereof from the periphery of the outlet from said chamber and surrounding said outlet and the said operating front end of said body member being outwardly and rearwardly tapered from the periphery of said annular surface to the junction of the operating end of said body member with the side thereof.

2,319,479
SELF-LOCKING PLASTIC INJECTION MOLD
Charles D. Ryder, Covington, Ky., assignor to The Grotelite Company, Bellevue, Ky., a corporation of Kentucky
Application October 18, 1939, Serial No. 300,034
4 Claims. (Cl. 18—30)



1. In combination, a pair of mold halves, one of which is movable, means for moving said movable mold half into engagement with the other, said means supporting said movable mold half, said movable mold half being supported upon said moving means so that there is relative longitudinal movement provided for between said mold half and said supporting means, spring means interposed between said supporting means and said movable mold half and tending normally to separate said mold half and said supporting means, locking means movable during locking action carried upon one of said mold halves, and means carried upon the other of said mold halves for directly actuating said locking means by the relative movement between said moving means and said movable mold half after engagement of said mold halves for locking said mold halves together.

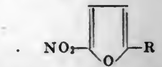
2,319,480
ADJUSTABLE MICROMETER DIAL
Ralph E. Saving, Wauwatosa, and Edward Guetzkow, West Allis, Wis., assignors to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application November 27, 1939, Serial No. 306,252
29 Claims. (Cl. 90—21)



1. In a machine tool, in combination, a supporting structure, a machine element movably mounted on said supporting structure, a feed mechanism for effecting movement of said machine element, an adjustable micrometer dial mechanism adapted to indicate accurately the measure of movement of said machine element, said dial mechanism comprising, a member fixedly attached to an element of said feed mechanism, a second member adapted for adjustable association with said fixed dial member, claw clutch means for releasably retaining said members in adjusted position, and hand operated means for driving said feed mechanism to effect movement of said machine element and said dial mechanism, whereby the measure of movement of said machine element is indicated accurately by said dial mechanism.

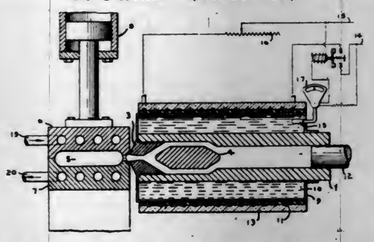
2,319,481
ANTISEPTIC
William B. Stillman, Albert B. Scott, and James Marion Clampit, Norwich, N. Y., assignors to Norwich Pharmacal Company, Norwich, N. Y., a corporation of New York
No Drawing. Application May 31, 1941, Serial No. 396,152
7 Claims. (Cl. 167—63)

1. A pharmaceutical preparation having bacteria-growth inhibiting properties and containing, as the essential active ingredient, a nitrofuran of the formula



wherein R represents a member of the group consisting of hydrogen and the alkyl, hydroxyalkyl acyloxyalkyl, oximidoalkyl, semicarbazonoalkyl, hydrazonoalkyl, diacyloxyalkyl, carboxyalkenyl, carbalkoxyalkenyl, acyl, carbalkoxy, halogenocarbalkoxy, carbamyl and dialkylcarbamyl radicals.

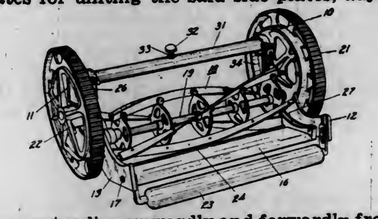
2,319,482
APPARATUS AND METHOD FOR INJECTION MOLDING
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application December 18, 1939, Serial No. 309,797
17 Claims. (Cl. 18—30)



11. In an injection molding machine, a plastic injection cylinder, means for heating said cylinder and a thermo-setting plastic passing therethrough to a temperature below the critical setting point of said plastic, said means comprising a body of normally solid material held at the melting point thereof, said temperature being substantially in excess of the temperature to which said plastic is to be heated, said body being in heat-conducting relationship with said cylinder, means forming a mold cavity in connection with said cylinder, and means for heating the thermo-setting plastic in said mold cavity to above the critical setting temperature thereof.

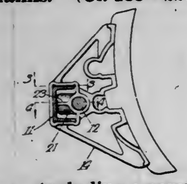
2,319,483
LAWN MOWER
Frank J. Vondracek, Cedar Rapids, Iowa, assignor of one-tenth to Fred Kubias and one-tenth to Ernest Kosek, both of Cedar Rapids, Iowa
Application July 12, 1940, Serial No. 345,150
12 Claims. (Cl. 56—294)

1. In a lawn mower having side plates, a rotary cutter reel mounted for rotation therebetween, a cutter bar mounted between the side plates for cooperation with the cutter reel, a truss bar mounted at a spaced distance above and ahead of the cutter bar and between the side plates for uniting the said side plates, adjusting



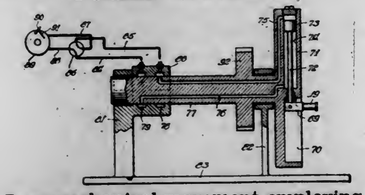
arms extending upwardly and forwardly from the ends of the cutter bar and terminating adjacent the truss bar, a unitary cam-like member mounted for rotation on the truss bar, and means for holding the adjusting arms in engagement with the cam-like member adjacent the ends thereof.

2,319,484
BRAKE BEAM HEAD
Herman T. Welp, Chicago, Ill., assignor, by mesne assignments, to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application October 14, 1939, Serial No. 299,447
5 Claims. (Cl. 188—226)



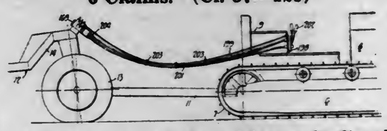
1. A brake beam including a compression member, a brake head on the end of the compression member, and a tension member extending through the brake head and drawing it tightly onto the compression member, the brake head fitting the compression and tension members loosely and having a sleeve integrally cast therewith and extending from the side of the brake head toward the main length of the tension member substantially through the brake head to form an elongated bearing surface for the brake head on the tension member, and a rib extending from the sleeve approximately to the compression member and tending to limit the twisting of the brake head with respect to the tension member.

2,319,485
MECHANICAL MOVEMENT
Francois Alabrune, Chicago, Ill.
Application August 26, 1941, Serial No. 408,343
4 Claims. (Cl. 74—600)



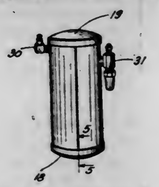
1. In a mechanical movement employing a rotatable crank and a pin carried thereon and hydraulically actuated means for moving the pin radially of the crank while the crank is rotating, that improvement therein comprising a chamber in the crank, a piston rod carried by the crank connected at its outer end with the pin, a piston on the piston rod at its inner end within said chamber, a rotatable axle carrying the crank, ducts in the axle communicating with opposite ends of said chamber respectively, a valve block encircling the axle, annular ports in the valve block communicating at all times with said ducts respectively, a source of circulating medium under pressure, pipes leading from said source to said ports respectively, and means whereby the direction of flow of the circulating medium may be selectively reversed.

2,319,486
EARTH MOVER
Ellsworth W. Austin, Cedar Rapids, Iowa, assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Original application November 1, 1937, Serial No. 172,094. Divided and this application October 10, 1941, Serial No. 414,475
6 Claims. (Cl. 37—126)



1. An earth mover comprising a draft vehicle, a drum vehicle, hydraulically actuated mechanisms on said drawn vehicle, means for supplying hydraulic fluid to said mechanisms, means on said drawn vehicle for controlling said hydraulic fluid including a translatable valve bobbin, a rotatable controller on said draft vehicle, and means adapted to rotate faster than said controller for translating said bobbin in accordance with the rotation of said controller.

2,319,487
TANK AND METHOD OF MAKING SAME
John D. Baldwin, Jr., Los Angeles, Calif., assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application October 28, 1940, Serial No. 363,118
8 Claims. (Cl. 29—148.2)

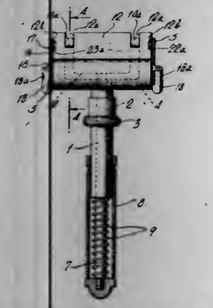


4. That method of forming a tank which comprises, deforming an edge of a sheet of ferrous metal, overlapping the opposed edge of said sheet to the deformed edge to provide a seam, compressing a ferrous wire within the recess between the deformed portion and said overlapped edge to form a smooth surface in said sheet, and thereafter copper brazing a ferrous cap to an end of said sheet and engaging said smooth surface.

2,319,488
COMBINED RAZOR AND SHARPENING DEVICE
Ray L. Burchett, Newark, N. J., assignor to Art Metal Works, Inc., a corporation of New Jersey
Application October 17, 1941, Serial No. 415,351
4 Claims. (Cl. 30—36)

1. In a razor, a frame, means for pivotally mounting a razor blade for movement with respect to said frame, a guard secured to said frame, and means for moving said razor blade

on its pivotal axis to vary the angle of inclination thereof and to change the position of the shaving edge with respect to said guard, said last



named means comprising a cam bar having sections contacting with the lower surface of said blade, said cam bar extending throughout substantially the entire length of said blade.

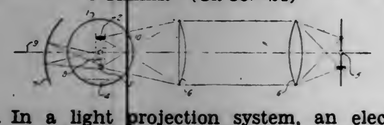
2,319,489

OPTICAL SYSTEM

Frank E. Carlson, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York

Application November 2, 1940, Serial No. 364,088

6 Claims. (Cl. 88—24)



1. In a light projection system, an electric discharge lamp comprising an envelope containing a pair of spaced electrodes, at least one of which is incandescent during operation of the lamp, a target, an optical system constructed and arranged to focus upon said target an image of the arc stream, said target being of smaller dimensions than said arc stream image so that it receives only a portion of the arc stream image to the exclusion of an image of said incandescent electrode, and means for creating an additional image of said incandescent electrode on said target and for causing the rays which form said image to follow substantially the same optical path as the rays which form the arc stream image whereby radiation from said incandescent electrode supplements the radiation from said arc stream falling on said target.

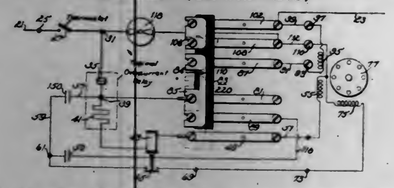
2,319,490

SPLIT-PHASE MOTOR CONTROL

Harry F. Clark, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application January 28, 1941, Serial No. 376,353

8 Claims. (Cl. 172—278)



7. An electric motor and control system comprising an electric motor having a first and a second winding portion connected in parallel with each other and in series relationship with a third winding portion, a capacitor means in series with said first winding portion, a starting control for changing the energization of the first winding portion, said starting control having an actuating element in series with said second winding portion, impedance means connected to a point on the circuit between the capacitor means and said first winding portion and to a point on the circuit between said actuating element and said second winding portion.

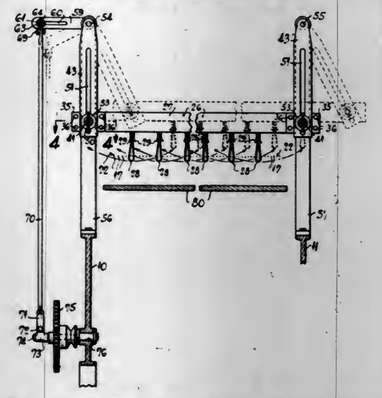
2,319,491

SHEET WARP VIBRATOR

Ralph R. Cone, Gastonia, N. C., assignor to Threads, Incorporated, Gastonia, N. C., a corporation of North Carolina

Application July 9, 1942, Serial No. 450,296

2 Claims. (Cl. 28—22)



1. Apparatus for separating the ends of a sheet of moving warp comprising a framework, a transversely disposed rake having teeth therein for penetrating said warp, a pair of spaced levers pivotally secured to said rake, said levers being pivotally secured to said framework, means for adjusting the positions of said rake pivots on said levers to thereby vary the amount of warp penetration by said teeth, means connected to one of the levers for oscillating said levers about the framework pivots to thereby cause each tooth in said rake to follow an arcuate path as it oscillates transversely of the warp and thus penetrate the warp at constantly varying depths, and means for varying the length of stroke of said lever oscillating means.

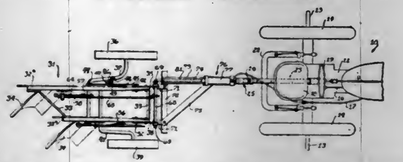
2,319,492

TRACTOR ATTACHED IMPLEMENT

Frederick L. Dewey, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application November 29, 1940, Serial No. 367,758

15 Claims. (Cl. 97—50)



1. In combination, a tractor, an implement positioned in trail-behind relationship to the tractor, means forming a connection releasable under overload between the tractor and the implement, and means for adjusting the implement comprising force-receiving means mounted on the tractor and means connecting the implement and the force-receiving means for adjusting the implement by a force transmitted from the force-receiving means in a direction opposed to the line of draft between the tractor and implement and being releasable upon release of the connection between the tractor and the implement.

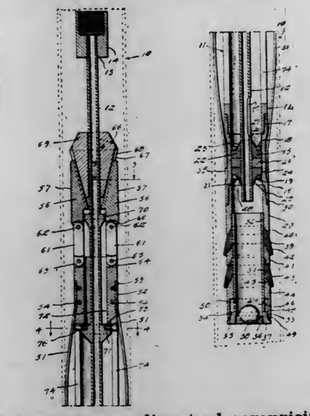
2,319,493

RETRACTABLE FORMATION SEALING TOOL

Woodrow Wilson Drinkard, Longview, Tex.

Application May 20, 1940, Serial No. 336,254

18 Claims. (Cl. 166—12)



1. A formation sealing tool comprising a tubular body, a downwardly closing valve at the lower end of said body, distortable sealing means carried by said body, a combined cylindrical valve and sealing means operator slidably carried by said body, an annular valve seat carried by said body said body being formed with outlet ports above said first valve and confronting said second valve when said second valve is in closed position and engaged with said annular valve seat, said second valve including an annular pressure operated valve operating means whereby fluid pressure passing through said ports will move said second valve to an open position and simultaneously distort said sealing means to a sealing position with the casing.

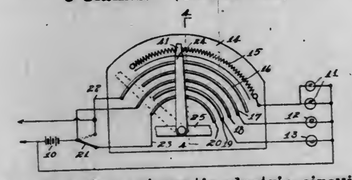
2,319,494

AUTOMATIC ELECTRIC LIGHT CONTROL APPARATUS FOR VEHICLES

Stanley W. Dusdieker, Des Moines, Iowa

Application September 16, 1940, Serial No. 356,972

3 Claims. (Cl. 200—56)



1. A switch for automatic electric circuit control apparatus, comprising a pivoted eccentric, means for moving said eccentric about its pivot point, a control bar movable toward and from the pivotal center of the eccentric, the amount of such movement being determined by the position of the eccentric, an electric switch push plate pivoted adjacent said arm bar, an electric switch operatively connected with said control bar and whereby the position of the control bar determines the position of the electric switch, a reciprocating push plate movable toward and from said control bar and switch plate, and shaped to engage both said bar and said plate and to move the plate to a position determined by the position of the bar, and whereby the movement of the switch is determined by the position of the eccentric, and means for periodically and repeatedly moving the push plate toward the said bar.

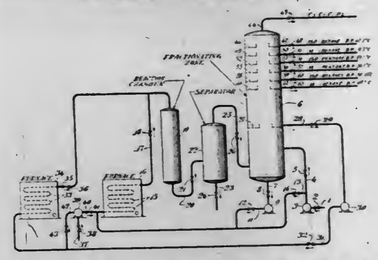
2,319,495

TREATMENT OF HYDROCARBONS

Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application April 22, 1940, Serial No. 330,945

5 Claims. (Cl. 196—48)



1. A process which comprises heating a mixture of hydrocarbon oil and metal halide catalyst to catalytic conversion temperature in a heating zone, simultaneously heating a lighter oil, together with additional metal halide catalyst, to independently controlled higher conversion temperature in a second heating zone, introducing the reaction products including the suspended catalysts from both said zones into a reaction zone maintained under catalytic conversion conditions and therein continuing conversion, separating the commingled products into vapors and residue, fractionating the vapors to separate a plurality of fractions therefrom, including a relatively heavy reflux condensate and a lighter reflux condensate, and returning the heavy reflux condensate to the first-mentioned heating zone and the lighter reflux condensate to said second heating zone.

2,319,496

SYNCHRONIZER

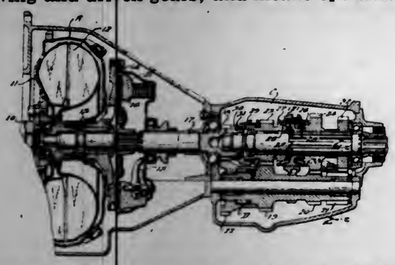
Otto E. Fishburn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application October 30, 1941, Serial No. 417,090

13 Claims. (Cl. 74—339)

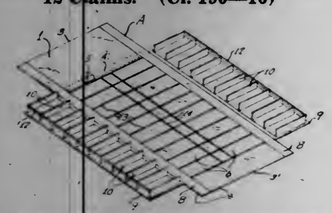
1. In a transmission having axially aligned driving and driven shafts; driving and driven gears, said driving gear being shiftable into and out of engagement with said driven gear, said driven gear being mounted on and having a constant drive connection with the driven shaft; countershaft gearing, including a countershaft reverse gear, drivingly connected with the driving shaft; shift means operable to shift said driving gear toward and from engagement with said

driven gear thereby to provide a reverse drive from said driving shaft to said driven shaft through said countershaft reverse gear and said driving and driven gears; and means operable in



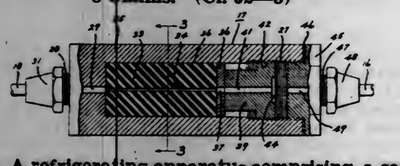
response to gear-engaging operation of said shift means, in shifting the transmission from neutral to reverse, for braking rotation of said countershaft reverse gear prior to engagement of said driving and driven gears.

2,319,497
FLEXIBLE SAMPLE CASE FOR SHOES AND THE LIKE
John Franklin, Oklahoma City, Okla.
Application July 12, 1941, Serial No. 402,249
12 Claims. (Cl. 190—16)



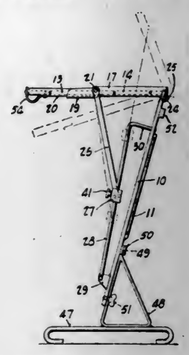
11. A merchandise-sample carrying-and-display case comprising, in combination, an elongated sheet body-portion of flexible material adapted for rolling into cylindrical form for housing a plurality of merchandise samples, a series of substantially rigid partition-forming members swingably attached to the body-portion in spaced relation along the length of the sheet for disposition between the housed samples for separating the samples one from the other when the body-portion is in rolled carrying condition and for disposition approximately flatwise upon the body-portion when the latter is in unrolled display condition, and a flexible tape connecting said members for unitary swingable movement.

2,319,498
REFRIGERATING APPARATUS
Frank W. Gerard, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 20, 1940, Serial No. 366,442
8 Claims. (Cl. 62—8)



1. A refrigerating apparatus comprising, a cabinet having a compartment therein to be cooled, a closed refrigerant circuit associated with said cabinet, said circuit including an evaporator for cooling said compartment, a refrigerant compressing and liquefying unit and a restrictor element exposed to temperatures exteriorly of said compartment, means within said restrictor element and forming a continuously open capillary passage therethrough of great length in proportion to its cross-sectional area for controlling the flow of liquid refrigerant from said unit to said evaporator, said passage forming means being expansible and contractible in response to changes in temperature exteriorly of said compartment, and said means being so constructed and arranged that expansion and contraction thereof varies the cross-sectional area of said capillary passage.

2,319,499
CONVERTIBLE TABLE
Joseph Geissler, Milwaukee, Wis.
Application April 22, 1942, Serial No. 439,961
3 Claims. (Cl. 311—17)

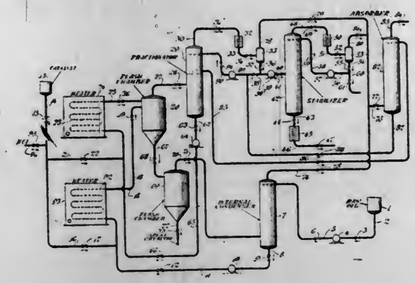


1. A convertible table comprising a substantially flat upright supporting frame, a table top hingedly attached adjacent one edge to said frame and foldable downwardly against the latter, said table top comprising two sections foldable one upon the other, hinge connections between said sections, means fixed to one of said sections and projecting beneath the other of said sections to support the latter, a pair of supporting struts hingedly connected at their upper ends to said table top adjacent said hinged connections, means including releasable clamps for adjustably connecting the lower ends of said struts to said frame, and means for supporting said frame.

2,319,500
MANUFACTURE OF LOW BOILING PETROLEUM DISTILLATES
Henry W. Grote, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 18, 1940, Serial No. 330,253
4 Claims. (Cl. 196—54)

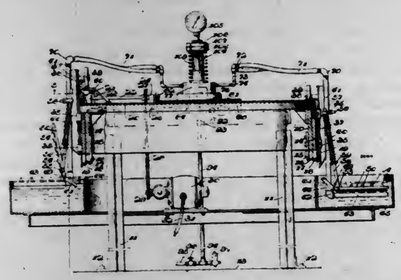
1. A process for converting hydrocarbon oils into valuable products including high antiknock gasoline which comprises subjecting a combined feed formed as hereinafter described to the action of powdered aluminum chloride catalyst in a primary cracking zone under conditions of temperature and pressure adequate to produce substantial yields of motor fuel, supplying the reaction products to a primary flashing zone for joint flashing with reaction products obtained in a manner hereinafter described, directing vapors from said primary flashing zone to a

fractionating step for separation into normally gaseous products, gasoline boiling range hydrocarbons and higher boiling intermediate conversion products, subjecting at least a portion of said intermediate conversion products to the action of powdered aluminum chloride in a secondary cracking zone, commingling the products from said secondary cracking zone with the products from said primary cracking zone for



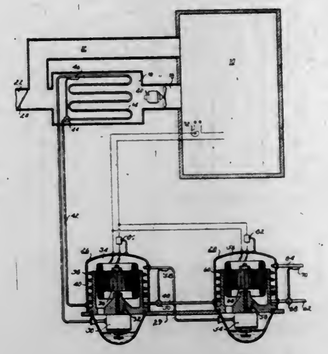
joint flashing as aforesaid, withdrawing non-vaporous products containing aluminum chloride from the primary flashing zone to a secondary flashing zone for further vaporization, scrubbing the vapors containing aluminum chloride from said secondary flashing zone with raw oil charging stock to form said combined feed for the primary cracking zone as previously described and to condense the aluminum chloride in said vapors.

2,319,501
TESTING EQUIPMENT
Henry Z. Gora, Bridgeport, Conn., assignor to Jenkins Bros., New York, N. Y., a corporation of New Jersey
Application August 2, 1940, Serial No. 349,552
13 Claims. (Cl. 73—51)



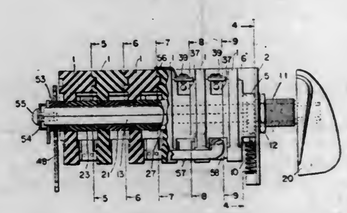
10. In an apparatus for testing tire valve stems under pneumatic pressure, a tank in which said valve stems are immersed for test, a vertically movable valve stem support comprising a hollow tubular member supplied with compressed air and having a plurality of aligned nipples communicating with its hollow interior and each adapted to receive a valve stem to be tested, means mounted on said support and movable with respect thereto for clamping said valve stems on said nipples during the test period, and means for lowering said support to immerse said valve stems in said tank during the test period and for raising said support out of the tank thereafter.

2,319,502
REFRIGERATING APPARATUS AND METHOD
Richard E. Gould, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 24, 1941, Serial No. 384,816
5 Claims. (Cl. 62—115)



4. Air conditioning apparatus for an enclosure comprising in combination, a primary evaporator in thermal exchange with air for said enclosure, primary refrigerant liquefying mechanism for supplying primary liquid refrigerant to said primary evaporator, secondary refrigerant liquefying mechanism for cooling said primary refrigerant liquefying apparatus, means responsive to the condition of air within said enclosure simultaneously controlling the operation of said primary refrigerant liquefying mechanism and said secondary refrigerant liquefying mechanism, and means responsive to the refrigerant pressure in one of said mechanisms for controlling the operation of one of said mechanisms.

2,319,503
MULTIPOSITION SWITCH
Manfred L. Glogau, Milwaukee, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 23, 1941, Serial No. 416,143
16 Claims. (Cl. 200—6)



1. In a multiposition switch, the combination comprising a shaft, means for rotatably mounting the same, indexing means associated with said shaft, a plurality of separate insulating segments secured to one another in aligned face-to-face relationship with aligned openings therein forming a canal for accommodation of said shaft, each of said segments being made up of a partition por-

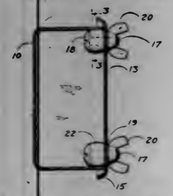
tion having spacing bosses extending normally with respect thereto, said bosses having locating tenons projecting therefrom, said segments also being provided with mortises on the sides thereof opposite said tenons for interfitting engagement with the tenons of the adjacent segments, said segments also having sockets for accommodation of movable and stationary contact carriers on both sides of their partition portions with contact supporting ledges adjacent thereto, stationary contact carriers positioned between successive segments, lugs projecting from the edge surfaces of said contact carriers into said stationary contact-accommodating sockets to secure said carrier in position in abutting relation with said ledges, stationary contacts mounted on said carriers, movable contact carriers positioned between successive segments in socketed engagement therewith, said movable contact carriers having movable contact portions movable to and from corresponding stationary contacts, cams mounted on said shaft between successive segments positioned to cause said movable contacts to move into and out of engagement with corresponding stationary contacts, and throughbolts passing through said segments to secure the same to said mounting means and to clamp the same securely against one another.

2,319,504

FASTENING DEVICE

Clarence T. Holman, Glendale, Calif., assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio

Application March 31, 1941, Serial No. 386,073
7 Claims. (Cl. 220—55)



1. In combination a rectangular body having an opening, a closure member for the opening in the body, a resilient expansible element of small cross-sectional area as compared to the area of said opening mounted on said closure member in fixed position and laterally engageable with a side and end wall only of said body, and means for expanding said element laterally when in operative position to secure the closure member to said body.

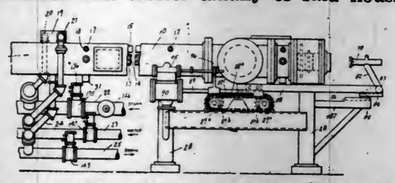
2,319,505

APPARATUS FOR PROCESSING CANNED FOODS

Alex R. Kennedy, deceased, late of Indianapolis, Ind., by Harriett M. Kennedy, executrix, Indianapolis, Ind., assignor to Indiana Condensed Milk Company, Indianapolis, Ind., a corporation

Application November 16, 1940, Serial No. 365,906
7 Claims. (Cl. 126—272)

1. An apparatus for processing canned foods comprising a tubular housing in which a plurality of cylindrical food containing cans is simultaneously processed as a batch, a tubular carrier supported within said housing for rotation axially in spaced relation to the walls thereof, means for individually forcing each can of said batch to be processed in end against end abutting relation into one end of said carrier for processing therein and thereby forcing a previously processed batch of cans from the other end thereof, driving mechanism adapted to rapidly rotate said carrier axially of said housing



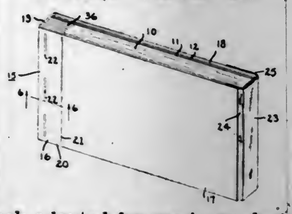
and cans with said cans frictionally retained against longitudinal movement therein, and a distributing element in said housing and coextensive therewith for distributing heating or cooling mediums throughout the length thereof to simultaneously process all of the cans contained therein.

2,319,506

MESSAGE BOOK

Andrew J. Kennedy, Sr., Nashville, Tenn., assignor to The Egry Register Company, Dayton, Ohio, a corporation of Ohio

Application March 2, 1942, Serial No. 432,945
3 Claims. (Cl. 282—24)



1. A book adapted for use in producing a plurality of copies of an original instrument which consists of, a stiff backing member, a plurality of sets of sheets positioned upon said backing member, each set of sheets consisting of; a plurality of individual copy sheets with transfer sheets interleaved therebetween, at least one of the copy sheets of each of said sets being substantially longer than the remaining sheets, adhesive means securing the ends of each copy sheet together opposite to the extending end of said long sheet, adhesive means securing the transfer sheets to the copy sheets adjacent the adhesive means for securing the copy sheets together, lines of perforation in said copy sheets adjacent the lines of adhesive securing the transfer sheets to said copy sheets, said transfer sheets being shorter than said copy sheets at the end thereof opposite to the end whereby the transfer sheets are secured to the copy sheets; a plurality of said long sheets being disposed between thick spacer members to build up thickness at the extending end of said long sheets equal to the body of the stack of plurality of sets of sheets, a cover member for said sets of sheets consisting of; a back portion disposed against said backing member, an end fly-leaf extending from said back portion to fold over the adhesively secured ends of said sets of sheets to cause said fly-leaf to lay upon the uppermost sheet of said sets, a second fly-leaf portion extending from the opposite end of said back portion and folded over the extending ends of said long sheets of said sets and said spacer members to cause said second fly-leaf portion to lay upon said first fly-leaf portion; and fastening means extending through said last mentioned end

of said book to secure said sets of sheets between said last mentioned fly-leaf portion and said backing member and said backing member to said back portion of said cover member.

2,319,507

COMPOSITION CONTAINING WOOD OIL OR OITICICA OIL

William Krumbhaar, New York, N. Y.

No Drawing. Application February 23, 1940, Serial No. 320,510
18 Claims. (Cl. 106—218)

1. A composition containing a non-gelatinizing organic carboxylic acid ester of a non-wrinkling, gas-proof monoglyceride of a component selected from the group consisting of elaeostearic acid and the mixed fatty acids of wood and oiticica oils produced by the process of claim 10.

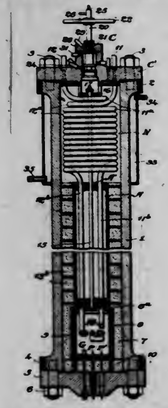
10 In a method of producing oil-containing surface coatings of low viscosity which dry with the characteristics of wood or oiticica oil but without their wrinkling tendencies comprising esterifying a non-wrinkling, gas-proof heat treated monoglyceride of a component selected from the group consisting of elaeostearic acid and the mixed fatty acids of wood and oiticica oils produced by heating at a temperature above 240° C. but below that which would undesirably affect the monoglyceride in the absence of esterifying components, with a non-gelatinizing organic carboxylic acid selected from the group consisting of drying oil monobasic fatty acids and aliphatic and aromatic polybasic organic carboxylic acids.

2,319,508

APPARATUS FOR PRODUCING HYDROGENATED HYDROCARBON PRODUCTS

Rene Leprestre, deceased, late of New York, N. Y., by Margaret Cornell Leprestre, Reading, Pa., H. Douglas Hadden, Westport, Conn., Ralph C. Tobin and Joseph Dannenberg, New York, N. Y., executors

Original application May 10, 1938, Serial No. 207,095. Divided and this application December 26, 1941, Serial No. 424,556
5 Claims. (Cl. 196—53)



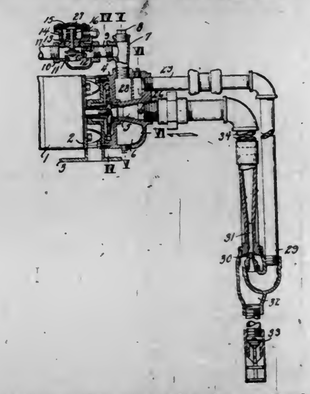
1. An apparatus for hydrogenating hydrocarbons comprising a retort column having a mixing chamber at its lower end and a gas collecting chamber at its upper end, valve means for controlling the flow of gases from said collecting chamber, heating means for the mixing chamber, a foraminous basket containing a catalyzer and arranged between the mixing chamber and the collecting chamber, and means for introducing hydrogen and an aqueous colloidal mixture of a hydrocarbon into the mixing chamber, said means comprising a plurality of hydrogen jets and a plurality of solution jets arranged substantially in the same horizontal plane and disposed at an angular relation of 90°.

2,319,509

PUMP STARTING CONTROLLER

Kenneth R. Lung, Kendallville, Ind., assignor to Flint & Walling Manufacturing Co., Inc., Kendallville, Ind., a corporation of Indiana

Application June 23, 1941, Serial No. 399,319
2 Claims. (Cl. 103—5)



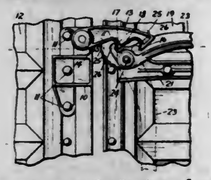
1. An impeller pump having a discharge therefrom, a suction intake thereto, a supply extension for the intake including an injector, a line from the discharge to operate the injector, said discharge having a delivery duct, a valve in said duct, a spring normally holding the valve open to provide an unobstructed passage for the pump discharge and maintained against disturbance at normal atmospheric pressure, a chamber provided with a diaphragm to oppose the spring, and a connection from the intake to the chamber, adapted in the interval of pump starting, for suction actuation of the diaphragm to close the valve.

2,319,510

DOOR OPENING AND CLOSING DEVICE

Gabriel Madland, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio

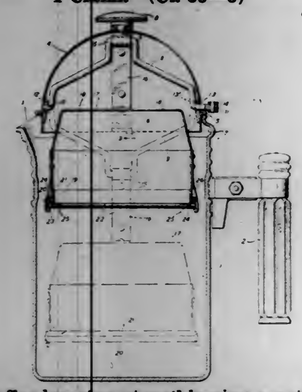
Application April 18, 1940, Serial No. 330,349
6 Claims. (Cl. 268—44)



1. A door opening and closing device comprising an abutment, a pivoted lever having means engageable with said abutment for securing door opening movement and a pivoted arm having a plurality of hooks, said lever having a second means extending a shorter distance from the lever pivot than said first means engageable with the outer of said hooks of said pivoted arm for securing partial door closing movement, said

lever being swingable to disengage said second means from said outer hook and automatically engage said means with the inner of said hooks of said pivoted arm for completing door closing movement, said first means lying behind and in overlapping relationship with said arm.

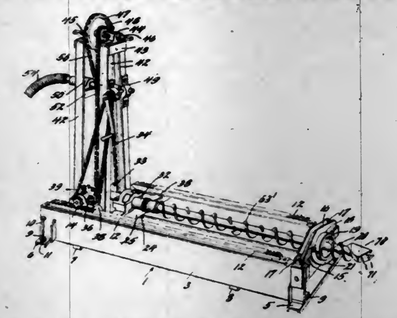
2,319,511
COFFEE BREWING UTENSIL
Otto E. Neuhaim, New York, N. Y.
Application September 4, 1940, Serial No. 355,287
1 Claim. (Cl. 53—3)



In a coffee brewing utensil having a pot for the water to be boiled, the combination of an inverted cup-shaped container for the coffee having an imperforate cylindrical portion with its closed top provided with perforations for the passage of air and its lower end open, a peripheral bend at said open end, a removable filter cover including an annular shell disposed within the open end of the container and having a peripheral head adapted to abut exteriorly of the container against the head of the same, means on the container detachably holding said filter cover thereto to support the coffee in the container, and a looped rigid strap member on the top of the container, with a yoke member having a crank portion engaged by said strap, and a catch for detachably holding the yoke member in vertical position, whereby upon the disengagement of the yoke member from the catch the container automatically descends piston-like to the lower part of the pot, and the contents of the container is subjected to the steeping water as it is forced axially into the container from its filter and to the perforations of its top, and whereby thereafter the container is moved above the water and held by the catch while the water is being subjected to boiling.

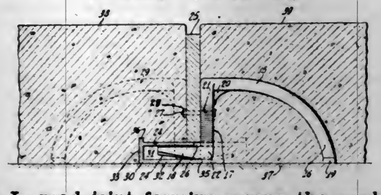
2,319,512
EARTH BORING MACHINE
Alan Jay Parrish, Paris, Ill.
Application July 30, 1940, Serial No. 348,577
7 Claims. (Cl. 255—20)

1. In a boring unit of the character described, a base support of spaced parallel inwardly facing channel members having pinion engaging racks along their upper flanges, a boring unit arranged for longitudinal movement between said channel members, interengaging means on the inner web portions of the channels and on the boring unit adapted to slidably support the boring unit for straight line movement in said base support, a pinion shaft journaled on said boring unit and having its ends overlying said racks, pinions fixed to ends of the shaft and arranged for engagement with said racks to effect movement of the boring unit in the base, manually operable means including a low ratio chain and sprocket reduction gear for rotating the pinion shaft to effect rela-



tively quick movement of the boring unit along the base under conditions affording small resistance, and separate manually operable feed means of greater mechanical advantage including a worm and worm gear of relatively high ratio for moving the boring unit along the base support under conditions affording high resistance.

2,319,513
ROAD JOINT SUPPORT
Frank O. Parker, Buffalo, N. Y., assignor to Acme Steel & Malleable Iron Works, Inc., Buffalo, N. Y., a corporation of New York
Application February 6, 1941, Serial No. 377,618
6 Claims. (Cl. 94—18)

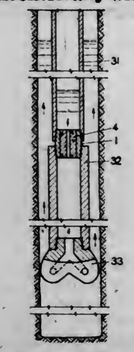


3. In road-joint-forming means, the combination of a joint filler, a series of joint supports rigidly secured thereto and having feet at the lower edge of the filler and extending beyond the same, and a plurality of guard-shoes or caps receiving the projecting ends of said feet, each shoe formed as a hollow rigid casting with relatively thick walls and having an opening in one end receiving one of the feet, and each shoe adapted to guide the corresponding foot therein as the concrete slabs of a road in which said parts are to be embedded expand or contract, the bottom wall of each shoe having an apron extending outwardly beyond the opening, and the heel of each foot-member resting upon each apron in bearing relation, and the parts of the thus-constructed and assembled joint-forming means being adapted to be handled and installed as a unit on a sub-grade.

2,319,514
APPARATUS FOR CONTROLLING FLUID FLOW THROUGH DRILL STRINGS
Charles S. Penfield, Bakersfield, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application September 8, 1941, Serial No. 409,938
3 Claims. (Cl. 255—28)

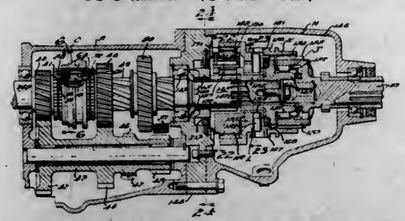
1. A throttling device for tubular drill pipe

comprising an external annular member, means for anchoring said member within said pipe, and an internal annular member bonded to said external member concentrically within said external



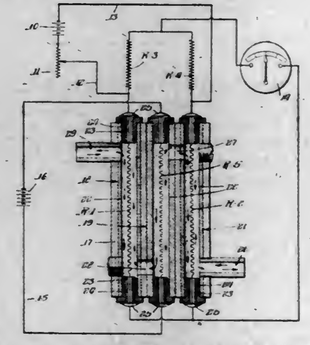
member, said internal member being made of abradable material, the axial perforation through said internal member having a diameter substantially smaller than the outside diameter of said external member.

2,319,515
POWER TRANSMISSION
Edward H. Priebe, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 10, 1941, Serial No. 382,467
34 Claims. (Cl. 74—472)



1. In a drive for a motor vehicle having an engine; a driving shaft adapted to receive drive from the engine; a driven shaft adapted to receive drive at variable ratios from said driving shaft for driving the vehicle; an intermediate shaft coaxial with said driving and driven shafts and disposed therebetween; a first set of clutch teeth driven at 1 to 1 ratio with said driving shaft; a second set of clutch teeth; means for driving said second set of clutch teeth at reduced speed from said driving shaft; a shiftable clutch member drivingly connected to said intermediate shaft and adapted for selective shift in opposite directions for engagement with either said first or second sets of clutch teeth thereby to provide relatively fast or slow drives from said driving shaft to said intermediate shaft; blocking synchronizing means operable in response to shift of said shiftable clutch member toward said first set of clutch teeth to establish a synchronous relation between this clutch member and this set of teeth while blocking shift of this member into engagement with this set of teeth until establishment of said synchronous relation has occurred; blocking synchronizing means operable in response to shift of said shiftable clutch member toward said second set of clutch teeth to establish a synchronous relation between this clutch member and this set of teeth while blocking shift of this member into engagement set of teeth until establishment of said synchronous relation has occurred; powder applying means operable to effect power shift of said shiftable clutch member selectively toward each of said sets of clutch teeth; speed responsive controlling means operable in response to predetermined speed of one of said shafts for controlling shift of said shiftable clutch member by said power applying means; an overrunning clutch operable for transmitting one-way drive from said intermediate shaft to said driven shaft; overdrive means operable to establish a two-way drive between said intermediate and driven shafts by bridging said overrunning clutch thereby to drive said driven shaft from, and at a speed faster than that of, said intermediate shaft; control means for said overdrive means operable to selectively render said overdrive means either capable or incapable of establishing said two-way drive; and means for causing said control means to render said overdrive means incapable of establishing said two-way drive prior to engagement of said shiftable clutch member with said first set of clutch teeth whereby said overrunning clutch will operate to facilitate power clutching shift of said shiftable clutch member by disconnecting said intermediate shaft from said driven shaft in response to coast of said intermediate shaft.

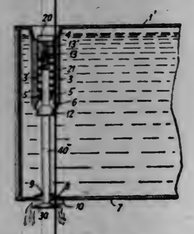
2,319,516
GAS FLOW INDICATOR
Clyde H. Phelps, Springfield, Ill., assignor to Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois
Application November 28, 1941, Serial No. 420,850
3 Claims. (Cl. 73—204)



1. For use in a gas-flow indicating-system, a resistance-device including in combination a member having first, second and third chambers connected together in series relation in that order whereby gas may flow through said series in either direction, said member having an external port for each of said first and third chambers, and first, second and third electrical-resistances in said respective chambers, said first and third resistances being adapted for electrical connection in a Wheatstone-bridge system, said second resistance being adapted for inclusion in a separate heating electric-circuit, the combination of novel features being that said member is of relatively-high heat-conductivity, said chambers are elongated and are substantially parallel with one another, said ports are at opposite end portions of said first and third chambers, the other end portions of said first and third chambers are connected to the opposite end portions of said second intermediate chamber, said resistances are

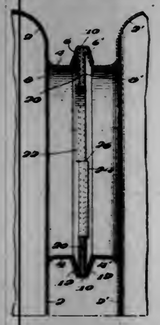
disposed lengthwise in their respective chambers, and all in combination with heat-insulating linings in said chambers.

2,319,517
LIQUID DISPENSING CONTAINER
Sidney S. Rand, New York, N. Y.
Application May 16, 1940, Serial No. 335,479
2 Claims. (Cl. 221—67)



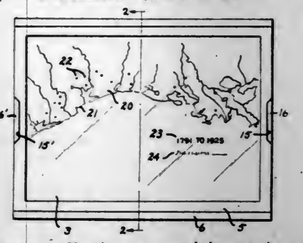
1. In a liquid container having substantially plane walls; a liquid dispensing mechanism comprising a liquid outlet valve in one wall, said outlet valve having its valve seat and closure element wholly in the plane of said one wall, an air inlet control valve projecting from a parallel, spaced wall into solely the container interior, and means responsive to actuation of said air inlet valve for actuating said liquid outlet valve, said means comprising a rod interconnecting the two valves, a depressible button operatively associated with the mobile element of the air inlet valve and said button being provided with a bore therethrough whereby to provide an air passage between said air inlet control valve and the exterior of said container.

2,319,518
PIPE JOINT OR COUPLING
Charles R. Rau, Chattanooga, Tenn., assignor to Samuel Stamping and Enameling Company, Chattanooga, Tenn., a corporation of Tennessee
Application December 26, 1941, Serial No. 424,518
6 Claims. (Cl. 285—129)



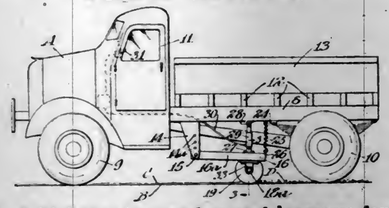
1. A pipe coupling comprising flanges which extend diagonally outwardly from the body of the pipe and are then bent toward each other to form a substantially U-shaped bend and to provide complemental inwardly extending flanges facing each other, and a contractile collar having inner converging walls, which walls are engageable with the diagonally extending portions of said flanges, for drawing said complemental flanges toward each other when said collar is tightened.

2,319,519
STAGE INDICATOR
Esme E. Rosaire, Houston, Tex.
Application October 27, 1941, Serial No. 416,688
3 Claims. (Cl. 35—40)



1. A stage indicator comprising a transparent sheet and a second sheet, means securing said sheets in permanent, fixed, spaced, parallel relation, said sheets respectively bearing indicia pertinent to succeeding stages so that exhibition of both sheets displays the advanced or second stage, an additional and substantially opaque sheet adapted to be inserted and withdrawn from between said first mentioned sheets, said additional sheet bearing indicia pertinent to the stage exhibited when such sheet is interposed between the spaced sheets so that the indicia not pertinent to the later exhibited stage are removed from the composite display when the additional sheet is withdrawn.

2,319,520
HIGHWAY ICE CRUSHER AND LOOSENER
Martin Rypkema, Sandstone, Minn., assignor of one-half to Ernest A. Holznagel
Application May 2, 1941, Serial No. 391,549
2 Claims. (Cl. 262—19)

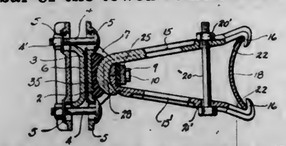


1. A highway ice crusher and loosener for use on a vehicle, comprising a frame adapted to be mounted at the underside of the vehicle for upward and downward movement of a portion thereof relative to the vehicle, a cross shaft journaled in said portion of said frame, a multiplicity of spaced corrugated circular blunt edged discs carried by said shaft to all rotate in unison, and means for holding said portion of said frame in definite spaced relation from the vehicle.

2,319,521
AUTOMOBILE TOW BAR
William G. Schneider and Charles W. Armantrout, Seattle, Wash.
Application August 1, 1941, Serial No. 405,054
3 Claims. (Cl. 280—33.14)

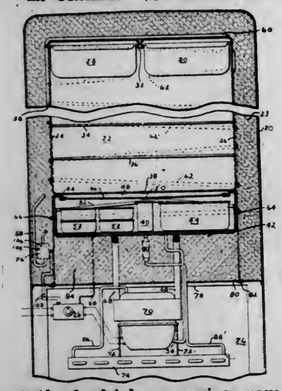
1. An automobile tow bar comprising, at one end, an attaching clamp adapted to be rigidly affixed to the bumper bar of a towing automobile, a pair of coextensive clamp jaws extending rearwardly from the said attaching clamp, and having forward end portions turned inwardly into overlapped relationship and pivotally interfitted for opening and closing of the rearward

end portions of the jaws for application respectively to top and bottom edges of the bumper bar of a vehicle to be towed, means for clamping the jaws together in holding connection with the bumper bar of the towed vehicle and means fix-



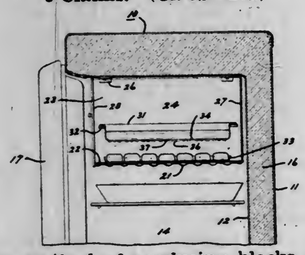
ing the forward ends of said jaws to the attaching clamp, and including a clamp bar and resilient bushings held thereby and disposed at back and forward faces of said pivotally overlapped portions.

2,319,522
REFRIGERATING APPARATUS
Edmund F. Schweller, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application May 25, 1940, Serial No. 337,292
12 Claims. (Cl. 62—103)



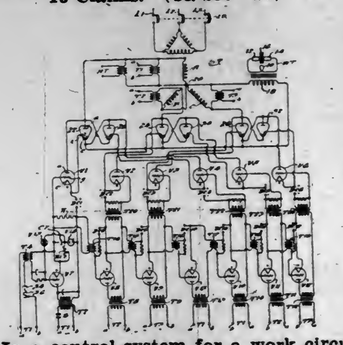
1. The method which comprises removing heat from a storage compartment at temperatures above 32° F. and condensing moisture from the air in the compartment, transferring in liquid form the condensed moisture to a place of collection, freezing the condensed moisture at the place of collection, removing in frozen condition the frozen condensed moisture from the place of collection and disposing of the frozen condensed moisture.

2,319,523
REFRIGERATING APPARATUS
Chester S. Trigg, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application July 21, 1941, Serial No. 403,327
9 Claims. (Cl. 62—172)



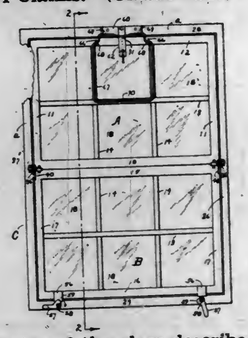
8. The method of producing blocks of ice in a compartment which comprises, dripping water from a source thereof at spaced apart points within the compartment upon a horizontally disposed surface and freezing the water to cause same to build up on the surface in the form of a plurality of ice blocks.

2,319,524
TIMING CONTROL SYSTEM
Gustav E. Undy, Detroit, Mich., assignor to Weltronic Corporation, Detroit, Mich., a corporation of Michigan
Application February 27, 1941, Serial No. 380,954
15 Claims. (Cl. 250—27)



13. In a control system for a work circuit associated with a multiphase alternating current supply source, the several phases whereof are displaced but overlap as to time, the combination of means electrically connecting said phases to said work circuit so that said work circuit receives the combined current outputs of said phases as a succession of impulses of alternately opposite polarity, each said impulse being a summation of current components of like polarity supplied by the individual phases, said means including electric valve means individual to each said phase, and means for altering the conductivity of said valve means in predetermined succession.

2,319,525
LOCKING AND ADJUSTING MEANS FOR WINDOW SASHES
Arthur E. Waterman, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a company of Wisconsin
Original application February 10, 1939, Serial No. 255,570. Divided and this application March 1, 1941, Serial No. 381,405
4 Claims. (Cl. 292—246)



1. In a device of the class described, compris-

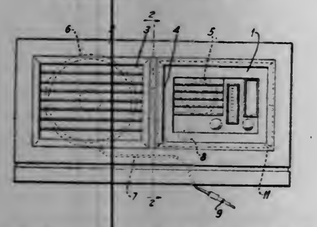
ing a frame and a sash hinged at its bottom to the frame, in combination, an elongated inwardly extending bar secured at its outward end to the upper header of the frame, a downwardly extending loop having widely spaced side bars which are hingedly mounted on the top rail of the sash, brackets secured to the top frame header adjacent said loop hinges and having downwardly extending lips which are spaced inwardly a short distance from the header, upwardly extending cranks secured to the upper end of said loops side bars adjacent their hinges and having a central inwardly extending crank connected therebetween which is positioned over the top of said elongated bar, means whereby said central crank will engage the upper side of said elongated bar when said loop is moved to its outward position, said first cranks adapted to engage the outer edges of said lips and force the sash into its closed position when the loop is moved to its outward position and means whereby the sash will be moved from said frame when the loop is moved inwardly a short distance and whereby a further inward movement of the loop will permit said first cranks to pass under said lips.

2,319,526
SCREED SUPPORT
Stanley J. Wearn, Los Angeles, Calif.
Application August 28, 1942, Serial No. 456,466
6 Claims. (Cl. 72—128)



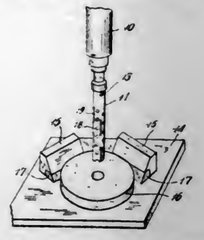
1. A screed support comprising, a stake seatable in the ground, a substantially semicircular saddle rising from the upper end of said stake, a ground-engaging plate axially slidable on said stake, and means for locking said plate in adjusted position on the stake.

2,319,527
CABINET FOR PORTABLE RADIO RECEIVER SETS
Mario Zavattaro, Milan, Italy, assignor to Radio Corporation of America, a corporation of Delaware
Application August 22, 1940, Serial No. 353,629
In Italy September 8, 1939
2 Claims. (Cl. 250—14)



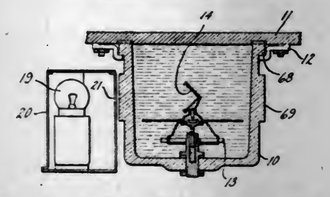
1. In combination, a cabinet provided with a front panel, one portion of which is fitted with a grille and another portion being completely open, a portable radio receiver, complete in itself, adapted to occupy the space behind said panel opening of the cabinet and so disposed that the front panel of the portable receiver is framed by said panel opening, a loudspeaker of larger dimensions than that contained in the portable receiver disposed behind said cabinet grille, normally closed switch contacts carried by the portable receiver for effecting connection between the receiver output and its loudspeaker, and switch contact means carried by the cabinet adapted, when the portable receiver is introduced into the cabinet, to open said normally closed switch contacts and to simultaneously connect the larger loudspeaker to the receiver output.

2,319,528
APPARATUS FOR DRILLING HOLES IN STONE
Howard C. Barbour, Elyria, and Franklin S. Miller, Amherst, Ohio, assignors to The Cleveland Quarries Company, Cleveland, Ohio, a corporation of Ohio
Application July 23, 1942, Serial No. 452,100
2 Claims. (Cl. 125—20)



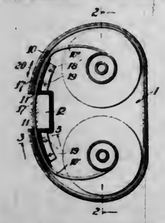
1. A drill for drilling holes in stone comprising a hollow tube or pipe having openings extending through the wall thereof, said openings being spaced longitudinally of the tube or pipe in staggered relation and forming cutting teeth at the lower end of the tube or pipe, said tube or pipe being provided on the interior thereof with one or more core crushing ribs which extend from the lower cutting edge upwardly throughout the range of the openings, said rib or ribs projecting inwardly beyond the effective range of the cutting edge and being devoid of cutting teeth.

2,319,529
COMPASS BOWL
Edwin F. Britten, Jr., Short Hills, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application January 23, 1943, Serial No. 473,354
1 Claim. (Cl. 33—223)



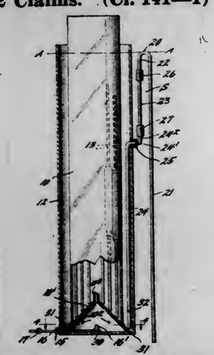
A glass compass bowl characterized by a cylindrical wall formed with an upper clamping flange and an annular projecting central band of greater depth than the interval between the band and the flange and having a vertical ground outer face of a diameter not less than that of said flange.

2,319,530
FILM MAGAZINE
Jacques Bolsey, New York, N. Y.
Application June 27, 1941, Serial No. 400,047
13 Claims. (Cl. 88—17)



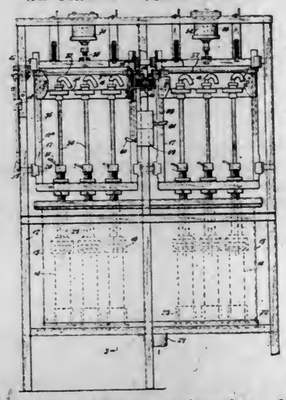
1. A film magazine comprising a front wall provided with two apertures for the film moving between said apertures outside of said magazine along a straight film path, a wall portion between said apertures being at a certain distance from the straight path of the film between said apertures, and movable sleeve-shaped film guiding means adapted to slide in longitudinal direction of the film moving between said apertures and to form a light-tight enclosing tube between said apertures for the free film portion between said apertures, leaving a free space between said sleeve-shaped film guiding means and said wall portion between said apertures which is at a certain distance from the straight path of the film between said apertures.

2,319,531
APPARATUS FOR CLEANSING TUBULAR ELEMENTS
Ethan Allan Brown, Boston, and Norbert Benotti, Weston, Mass.; said Benotti assignor to said Brown
Application January 6, 1941, Serial No. 373,364
2 Claims. (Cl. 141—1)



1. Apparatus for cleansing with liquid elongated tubular open ended elements, comprising, in combination, a cylindrical vertically disposed container having an inlet conduit for cleaning liquid, said conduit entering through the side wall of the container adjacent to the bottom and extending inwardly along said bottom surface and opening at a centrally disposed point, an automatic intermittently actuated siphon outlet means for the container, a removable holder for introducing said elements into the container, said holder being substantially cylindrical and provided with a substantially conical upwardly bulged perforated bottom wall, said bottom wall extending downwardly to form flared lower marginal edges, said flared edges being notched to accommodate said inlet conduit.

2,319,532
LIQUID DISPENSING APPARATUS
Arthur O. Codney, Cleveland Heights, and Robert M. Bailey, Cleveland, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application April 29, 1941, Serial No. 390,944
21 Claims. (Cl. 221—67)



1. In liquid dispensing apparatus of the character described, a tank adapted to contain a supply of liquid, a container located in said tank so as to be submerged in the liquid, means operable to put said container in communication with said tank by establishing a liquid passage therebetween of a size to cause the container to be filled relatively quickly and said means being operable to thereafter seal the container, conduit means extending from said container to the liquid delivery point and having communication with the container at a distance below the top corresponding with the desired volume of liquid to be delivered, and means for introducing air pressure into said container to discharge liquid therefrom through said conduit means.

2,319,533
CHARGING COVER
Arthur O. Codney, Cleveland Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application August 15, 1941, Serial No. 406,993
3 Claims. (Cl. 136—163)



1. In combination with a storage battery having a cover with a filling opening therein, a charging cover adapted to be supported on the upper surface of the battery and to extend over and cover the filling opening in said cover, said charging cover having projections on the under surface thereof for causing spray or condensed vapors from the filling opening to cling to the projections above the filling opening and to drop back into the battery through said opening.

2,319,534
LAMINATED GLASS AND METHOD OF MAKING SAME
John C. Crowley, Cleveland Heights, Ohio
Application September 25, 1939, Serial No. 296,390
8 Claims. (Cl. 154—2.73)

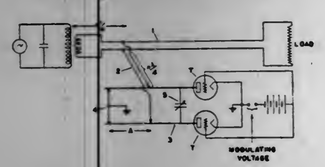
7. A method of manufacturing a strip of lami-

nated glass which comprises applying to both sides of a layer of bonding material a series of separate glass plates so as to have their adjacent edges in substantially abutting relationship and with certain of the adjacent edges of the plates on one side of said material staggered with respect to the corresponding adjacent edges of the



plates on the other side of said material, subjecting the assembled glass plates and bonding material to heat and pressure to unite the same into a stable unitary structure, and then surfacing the exposed surfaces of the united structure by means of surfacing operations to render the same parallel.

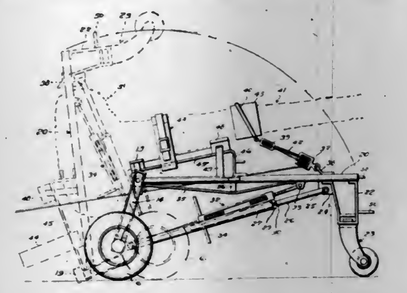
2,319,535
MODULATION SYSTEM
Gomer L. Davies, Woodside, Md., assignor to Washington Institute of Technology, Inc., Washington, D. C., a corporation of Delaware
Application May 6, 1942, Serial No. 441,950
13 Claims. (Cl. 179—171.5)



1. An electrical system comprising a source of radio frequency energy, a load circuit, a transmission line connecting the source and the load circuit, a variable impedance comprising vacuum tubes, a source of cyclic control signal for operating said tubes to cyclically vary the impedance thereof, a second transmission line having its conducting elements respectively connected to the anodes of said tubes, a short-circuiting tap connecting the conducting elements of said second line and being adjustable along the length thereof, and a third transmission line connected at its one end across the first transmission line and at its other end being connected across the second transmission line for adjustment along the length thereof.

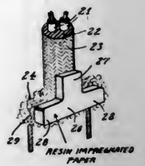
2,319,536
TREE MOVER
Buford C. Deibel, Buechel, Ky.
Application January 2, 1942, Serial No. 425,455
3 Claims. (Cl. 214—3)

1. A device of the character described comprising a rigid non-extensible normally horizontal longitudinal element, a cross member secured at the forward end of said element to extend on opposite sides thereof, standards pivotally depending from the opposite ends of said cross member, an axle extending between and connected to the lower ends of said standards, ground engaging wheels on opposite end portions of said axle, an adjusting turnbuckle connected at its forward end to an intermediate point on said axle and at its rearward end to a rear part of said longitudinal element, said turnbuckle being adjustable to position said axle and its wheels forwardly or rearwardly with respect to said cross member, telescoping braces extending between and connected to said axle and a rear part of said longitudinal member, locking means for holding said



telescoping braces in extended or contracted position in accordance with the position of the axle and wheels, a ground engaging caster depending from the rear end of said longitudinal member, and longitudinally spaced tree trunk seats on said longitudinal element.

2,319,537
METHOD OF MAKING STRAIN-RELIEF STRUCTURE
Jack Delmonte, Park Ridge, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1940, Serial No. 343,084
1 Claim. (Cl. 18—59)



The method of making a strain-relief structure for a fibrous sheath electric cord comprising the steps of stripping the fibrous cover from one end of the cord leaving the terminals bare, loosening the fibrous material at the end of the cord to separate the fibers and strands and provide a laterally spread-out portion, treating the spread-out portion with a heat reactive moldable resin solution to cover the separated fibers and strands and fill the interstices therebetween, stamping from a sheet of heat reactive moldable resin fibrous material a blank having a central portion and laterally extending strain-relief portions, placing said spread-out treated portion and said blank together in a shape corresponding relation in a cavity mold having the ultimate external shape of the strain-relief structure, with the terminals extending from the mold cavity at the opposite strain-relief portions, subjecting the material in the mold to heat and pressure sufficient to fuse the resin materials into a homogeneous mass in which said materials are fused into intimate relation to the fibers and strands, and allowing said material to cool to a solid body in which the sheath cord is molded and in which the spread-out portion is incorporated in the oppositely extending strain-relief portions.

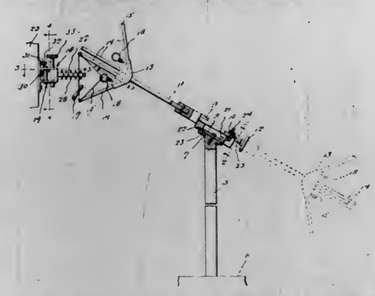
2,319,538
HEAT TREATMENT OF COPPER-CHROMIUM ALLOY STEELS
William Pollard Digby, London, England, assignor of one-half to Everard Tuxford Digby, London, England
No Drawing. Original application June 28, 1937, Serial No. 150,881. Divided and this application August 6, 1940, Serial No. 351,651
5 Claims. (Cl. 148—31)

3. An easily machinable stain-resisting copper-chromium-steel alloy containing 5 to 20 percent of copper and .10 to 19 percent of chromium, the balance being essentially all iron so that iron constitutes the major ingredient of the alloy, said alloy being characterized in possessing a fine dendritic sructure with fibres extending substantially parallel to one another.

2,319,539
WELDING ROD
Louis C. Dodd, Buffalo, N. Y., assignor to Magnus Metal Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application April 2, 1941, Serial No. 386,432
5 Claims. (Cl. 219—8)

1. A welding rod, comprising an alloy containing zinc .01 to 10.0%, tin 1.0 to 10.0%, lead 1.0 to 20.0%, and the balance copper.

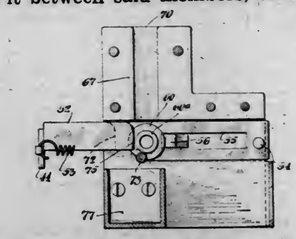
2,319,540
TRAIN ORDER DEVICE
Edward T. Ford, Red Key, Ind., assignor of one-half to H. F. Rogers, Red Key, Ind.
Application November 10, 1942, Serial No. 465,137
3 Claims. (Cl. 258—26)



1. In a train order device, a vertical post including an inclined bearing surface, a table journaled on said bearing surface, means for releasably securing the table to said bearing surface, a shaft journaled on the table, means carried by said shaft for removably supporting train orders, means for securing said shaft against rotation, and means for limiting the rotation of said shaft in either direction when released.

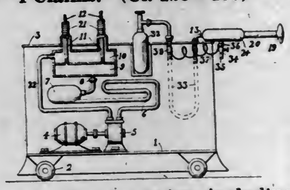
2,319,541
TOKEN CONTROL MECHANISM
Herbert A. Gersbach, Malverne Park, N. Y., assignor to Perey Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application February 1, 1940, Serial No. 316,795
4 Claims. (Cl. 194—4)

1. In an apparatus adapted to be controlled through the medium of a predetermined disk-like token of stepped diameter with a projecting hub portion, a movable token finder member, a movable operating member, said members being arranged in opposed relation and adapted to receive an intervening token of such character, a stop arranged to be engaged by the hub of the token to hold it between said members, said members



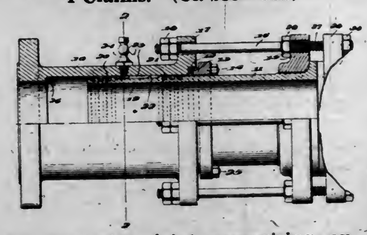
being shaped to permit a token or coin of like or smaller size but without the hub portion to pass on through, and means for shifting said members and intervening predetermined token as a unit.

2,319,542
THERAPEUTIC MACHINE
Franklin E. Hall, Chicago, Ill.
Application June 24, 1940, Serial No. 341,990
4 Claims. (Cl. 128—400)



3. A therapeutic apparatus including a cold applicator of such size and shape as to be adapted for convenient insertion into body cavities, there being an expansion chamber within the applicator and a metallic application surface outside the applicator and immediately adjacent the expansion chamber, means for introducing an expansible fluid under pressure to the expansion chamber, there discharging and suddenly expanding it entirely within the expansion chamber adjacent the application surface and means for then discharging the expanded fluid at low pressure from the expansion chamber outside of the body cavity into which the applicator has been inserted.

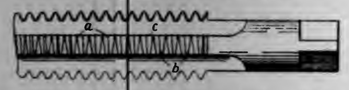
2,319,543
CONTINUOUS SERVICE EXPANSION JOINT
Robert Hall, Lockport, N. Y., assignor to American District Steam Company, North Tonawanda, N. Y., a corporation of New York
Application January 19, 1942, Serial No. 427,369
4 Claims. (Cl. 285—162)



1. An expansion joint comprising an outer joint member, an inner joint member slidable therein, an annular pressure chamber formed by a portion of the inner joint member of smaller

outer diameter than the inner diameter of the outer joint member and defined at its opposite ends by shoulder portions of the inner joint member of substantially the same diameter as the inner diameter of the outer joint member, plastic packing material under pressure filling said chamber in the inner joint member and making a fluid tight seal with the outer joint member, and pressure resisting sealing means secured to portions of the inner joint member beyond the opposite ends of said chamber and making fluid tight bearing engagement with the outer joint member.

2,319,544
THREAD CUTTING TOOL
Stanley Jaffa Harley and John Ernest Wainwright, Coventry, England
Original application March 11, 1941, Serial No. 382,818. Divided and this application January 29, 1942, Serial No. 428,775. In Great Britain March 2, 1940
2 Claims. (Cl. 10—141)



1. Thread cutting tools of the character described having thread-cutting portions of which the extreme radially outer peripheral portions define arcs substantially concentric with the axis of the tool and in which at least one flank of each thread is formed to a different helix than the mean helix of the thread.

2,319,545
RESOLUTION OF RACEMIC α-HYDROXY-β,β-DIMETHYL-γ-BUTYRO LACTONE, AND NEW COMPOUNDS OBTAINED BY SUCH RESOLUTION
Stanton A. Harris, Westfield, and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J. a corporation of New Jersey
No Drawing. Application July 3, 1940, Serial No. 343,778
12 Claims. (Cl. 260—284)

1. The process comprising separating the alkaloidal salts of the optical isomers of α, γ-dihydroxy-β,β-dimethyl-butyric acid from each other by fractional crystallization.

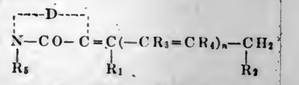
2,319,546
METHOD FOR MAKING VALVE SLEEVES
Robert Insley, Farmington, and Arthur W. Green, West Hartford, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 21, 1940, Serial No. 336,380
6 Claims. (Cl. 29—156.7)



1. The method of manufacturing an engine valve sleeve which comprises, cutting from stock metal tubing having a generally spiral grain flow pattern a blank longer than the finished sleeve, upsetting one end of said blank to shorten the blank and thicken the end portion and modify the grain structure so that said spiral grain flow pattern is no longer apparent in said thickened portion, machining said blank to remove at least all of the increase in thickess produced by said upsetting operation, and providing valve ports in said upset portion.

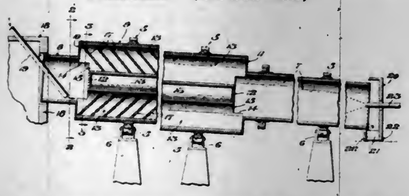
2,319,547
PRODUCTION OF PHOTOGRAPHIC SENSITIZING DYESTUFFS
John David Kendall and Ronald Bernard Collins, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company
No Drawing. Application April 25, 1940, Serial No. 331,674. In Great Britain May 5, 1939
16 Claims. (Cl. 260—240)

1. Process for the manufacture of dyestuffs which comprises condensing a compound of the general formula:



where R_1, R_2, R_3, R_4 and R_5 are each groups selected from the class consisting of hydrogen atoms and hydrocarbon groups, D is the residue of a five-membered heterocyclic ring and n is selected from the group consisting of nought and positive integers, with a quaternary salt of a heterocyclic nitrogen compound of the type used in the production of cyanine dyes which contains a reactive group taken from the group consisting of thio-ether, selenoether and amino-vinyl group in one of the α and γ positions to the heterocyclic quaternary nitrogen atom, by heating said compounds in admixture.

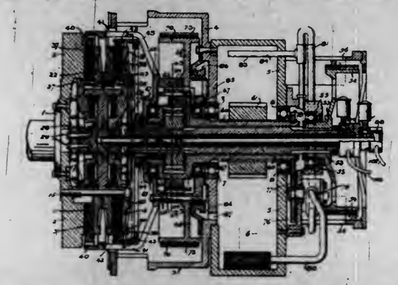
2,319,548
KILN
Haavard Kronstad, near Mahoningtown, Pa.
Application March 8, 1941, Serial No. 382,437
4 Claims. (Cl. 263—32)



1. A rotary inclined tubular kiln comprising a lower clinkering section, an upper feed section, a drying drum between and connected to said sections, a transverse partition in each end portion of said drum, hollow cylinders mounted in said partitions and projecting outside thereof, the projecting lower portions of said cylinders having openings to discharge to said clinkering section, and the projecting upper end portions of said cylinders having lateral intake ports open toward the axis of the kiln to the chamber of said feed section.

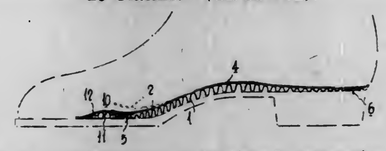
2,319,549
TRANSMISSION
Frank Lendrum Lawrence, Renton, Wash.
Application May 19, 1941, Serial No. 394,154
5 Claims. (Cl. 74—270)

1. A planetary transmission having a shaft and a main drive sleeve surrounding said shaft and spaced therefrom to define an annular oil passage, a housing rotatable with the sleeve, a planetary train within the rotatable housing, said planetary train connecting the shaft and the main drive sleeve, a stationary housing surrounding a portion of the shaft and the sleeve, said housing having a wall adjacent one end of the rotatable housing, said wall having an oil opening and an oil collector ring surrounding the shaft and the opening, said rotatable housing having one end



projecting into said oil collector ring adjacent the stationary wall and being provided with a passage for the flow of oil from the rotary housing into the oil collector ring, said oil being adapted to flow through the opening in the wall of said stationary housing.

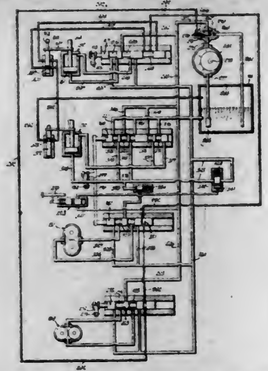
2,319,550
FOOT ARCH SUPPORT
Daniel Lewy, Chicago, Ill.
Application March 10, 1941, Serial No. 382,642
10 Claims. (Cl. 36—71)



9. In combination, a foot-arch supporter and a metatarsal-arch supporter, said supporters adapted to fit the sole of the foot, said foot-arch supporter being upwardly arched substantially at its center to support the arch of the foot and being of substantially equal thickness and slightly concaved at front and rear to receive the ball and heel of the foot respectively, said supporter comprising a corrugated sheet of metal, said corrugations being of graduated dimensions to cause the surface of the sheet to conform to the sole of the foot, said metatarsal-arch supporter being circular in form and upwardly arched substantially at its center to support the metatarsal-arch and being of substantially equal thickness in the marginal edge portion, said supporter comprising a corrugated sheet of metal, said corrugations being of graduated dimensions to cause the surface of the sheet to conform to the sole of the foot, said metatarsal-arch supporter being removably secured to the front portion of said foot-arch supporter by having a limited number of the corrugations in the zone of securement interengage.

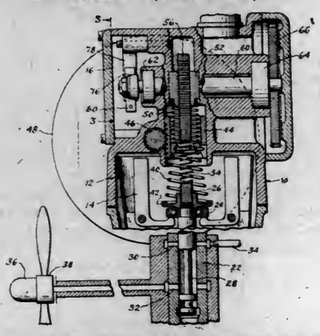
2,319,551
HYDRAULIC OPERATING AND CONTROL MECHANISM FOR MACHINE TOOLS
Carl E. Linden, Norwood, and Raymond H. McClellan, Hamilton, Ohio, assignors to The Fosdick Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio
Application August 9, 1937, Serial No. 158,070
27 Claims. (Cl. 77—28)

1. A hydraulic system for a radial drill or the like, including, a rotatable column, an arm vertically adjustable on the column, a drill head movable along the arm, an arm clamp; a column clamp, an arm elevating mechanism, a head traversing mechanism, hydraulic motors for the clamps and mechanisms, a valve for controlling each motor, a pump for supplying fluid under pressure to said motors through said valves, in-



cluding a bypassage, a relief valve interposed between the fluid pressure supply means, and the valves, and a control conduit extending from said relief valve through each valve and obstructed by any valve when the valve is moved to motor actuating position, said relief valve seating to block said bypassage and to direct the fluid to the motor controlled by that valve moved to motor actuating position.

2,319,552
AUXILIARY GOVERNOR CONTROL
Erle Martin, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application February 27, 1941, Serial No. 380,817
12 Claims. (Cl. 60—97)

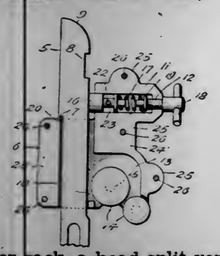


5. In a centrifugal speed governor, means for making major adjustments of the speed setting of said governor, and motor operated means of small adjusting capacity for making minor adjustments in the speed setting of said governor.

11. In a control for matching the speed of one prime mover against that of a master, the combination of a governor controlling the speed of said first mentioned prime mover and having rotary flyballs, a spring opposing said flyballs and selectively adjustable to determine the speed setting of the governor over the major portion of its operating range, a second spring coact-

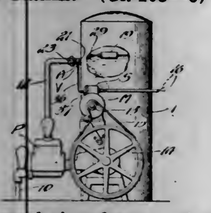
ing with said first spring to control the governor speed adjustment over a small fraction of said range, means for adjusting said second spring, said means having a neutral position from which it is adjustable to increase or decrease the opposition to said flyballs, and automatic means acting differentially in response to the speeds of both of said prime movers to move said adjusting means and adjust said second spring and match the speed of said first prime mover against that of the master.

2,319,553
CALENDER RACK
Frank M. Morton, Phenix City, Ala., assignor to Morton Machine Works, Columbus, Ga.
Application April 28, 1942, Serial No. 440,863
1 Claim. (Cl. 19—162)



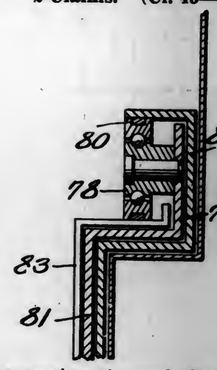
In a calender rack, a head split vertically into two sections; said head having a downwardly open recess, a vertical rack bearing, a horizontal bearing at the upper end and to one side of said vertical bearing, and a threaded opening in the outer end of said horizontal bearing; lap pin rollers in said recess, a rack-engaging plunger and a projecting spring therefor both mounted in said horizontal bearing, a screw threaded through said opening for holding said spring compressed, and bolts securing said two head sections together; the split which divides said head into said two sections being located in a plane extending through both of said bearings, through said recess and through said opening; whereby the sectional bolted construction of said head not only facilitates manufacture and assembly but permits clamping of said screw tightly between said head sections.

2,319,554
UNIVERSAL AIR VOLUME CONTROLLING DEVICE
Albert Penn, Elkhart, and Burton E. Shaw, Bristol, Ind., assignors to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application November 25, 1940, Serial No. 367,106
19 Claims. (Cl. 103—6)



1. In a universal air volume controlling device, a tank, a water supply line thereto, a fitting interposed in said water supply line, a pump for pumping water to said water supply line, a pair of passageways through said fitting, one of said passageways being large enough to permit substantially the entire output of water from said pump to be pumped through said passageway, the other of said passageways being restricted and of Venturi shape and having a removable Venturi intake nozzle, an air valve communicating with said Venturi passageway, a butterfly valve for controlling the flow of water through said first passageway, and a float for operating said butterfly valve to permit water flow through said first passageway when said butterfly valve is open in response to a low level of water in said tank and prevent such flow in response to a high level of water in said tank, whereupon the flow of water through said Venturi passageway effects introduction of air through said air valve and into said tank.

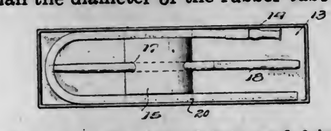
2,319,555
PROGRESSIVE EXTENSION DRAWER SLIDE
Owen D. Premo, Muskegon Heights, Mich.
Application June 15, 1940, Serial No. 340,793
2 Claims. (Cl. 45—77)



1. A progressive channel drawer slide, comprising an outer channel member adapted to be secured to a supporting surface, an inner channel member adapted to be secured to a drawer supported by the drawer slide, an intermediate channel member, a flange rising from the innermost channel member and being extended outwardly over the upper edge of the intermediate channel member, a wide flange formed on the intermediate channel member and terminating at a point adjacent to the outwardly extended portion of the first mentioned flange, a substantially narrow upstanding flange on the upper edge of the outer channel member, rollers mounted on one of the channel members and engaging the adjacent channel members, supporting the weight of the drawer with which the drawer slide is used, and said substantially narrow flange providing a guard against which one of the rollers moves when in operation.

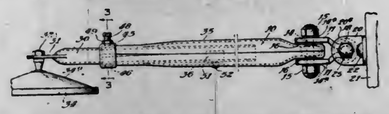
2,319,556
PHYSICIAN'S PACKAGE
Edwin J. Rhein, Vineland, N. J., assignor to Kimble Glass Company, Vineland, N. J., a corporation of Illinois
Application February 26, 1941, Serial No. 380,730
3 Claims. (Cl. 206—63.2)

3. In combination with a box for supporting therein a pipette and a rubber tube, said box having a bottom and side flanges extending therefrom, of a substantially rectangular one-piece insert having a raised arched portion, the end portions of said insert resting on the bottom in contiguous relation thereto, the edges of said raised portion being substantially parallel to said side flanges, said edges of the raised portion being spaced from said side flanges a distance slightly less than the diameter of the rubber tube where-



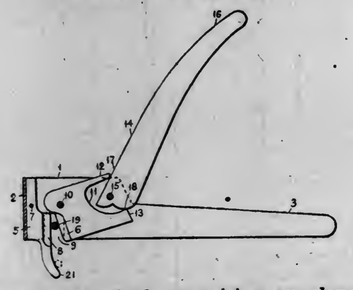
by the tube may be forced into and frictionally held in the space between the raised portion and the side flanges, said raised portion having aligned apertures through which the pipette is passed, the edges of said apertures gripping said pipette.

2,319,557
SUPPORT ARM FOR MIRRORS
Oliver C. Ritz-Woller, Chicago, Ill.
Application March 23, 1942, Serial No. 435,775
4 Claims. (Cl. 248—278)



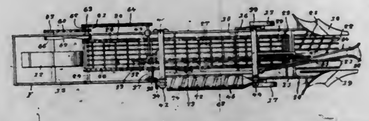
4. A support of the character described, comprising a bracket adapted to be secured to a mounting, and an arm having one end mounted on said bracket for friction retaining pivotal movement, means connected to the other end of said arm for supporting a mirror or the like, said arm being formed of two sheet metal stamped elements of generally semi-tubular cross section, secured in abutting relation at said one end, and adapted to be disposed with their edges in cooperating relation to substantially form a hollow tubular body, the cooperating edges of one of said elements, adjacent said pivot end, being relatively flat and disposed in a plane at a relatively slight acute angle to the remaining cooperating edge portions of said one element, and means connected to said other end of said elements for drawing said other ends of said elements together in such cooperating relation with the cooperating edges of both elements adjacent said pivot end disposed in abutting relation.

2,319,558
WIRE CUTTING TOOL
Hippolyte W. Romanoff, New York, N. Y., assignor to "V" Cutter Corporation, a corporation of Delaware
Application June 26, 1941, Serial No. 399,787
1 Claim. (Cl. 30—189)



A wire cutting tool comprising an elongated member having a handle at the rear end, the front end having a slot at the side for receiving a wire to be cut, a front cutter having its cutting edge at the front of the slot, a lever rotatively supported in a transverse opening in the elongated member having a short and a long portion, the short inner end of the lever having a cutting edge in cooperation with the front cutter, a bar pivotally supported in the transverse opening of the elongated member back of the lever and having a handle at the rear end, and outer and inner prongs extending from the long portion of the lever with a recess therebetween, the inner end of the bar being positioned in the recess between the prongs and having outer and inner cam portions, the outer cam portion engaging the outer prong at a point between the pivoting point of the bar and its handle, the bar being thereby adapted to rotate the cover for moving the cutting edge away from the front cutter when the bar is turned outward, the inner cam portion being of a convex shape and engaging the end portion of the inner prong for rotating the lever so as to advance its cutting edge against the front cutter.

2,319,559
BEET HARVESTING APPARATUS
Loys Patrick Savage, Bonner, Mont.
Application August 25, 1941, Serial No. 408,239
4 Claims. (Cl. 55—9)

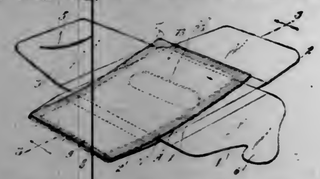


1. In beet harvesting apparatus, an elongated wheel supported frame, a conveyor mounted on the frame for carrying beets from the front portion to the rear of the frame, a plurality of digging fingers attached to and projecting from the forward portion of the frame, a plurality of ribs extending in approximately transverse positions across the digging fingers, means attached to and projecting forwardly of the frame defining a spiral guide slot engageable with the necks of the beet tops whereby to tilt the beets in cooperation with the ribs to transversely extending position on the forward part of the frame, means for thrusting the transversely disposed beets onto the front of the conveyor, a longitudinal guide member supported on one side of the frame and mounted for transverse adjustment, a rotary cutter wheel mounted inwardly of the guide member, and a pair of spiral rollers rotatably mounted on one side of the frame adapted to engage the beet tops to yieldingly hold the beets against the guide member in advance of the cutter.

2,319,560
COMPOSITE PACKAGE
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application November 20, 1940, Serial No. 366,363
2 Claims. (Cl. 206—46)

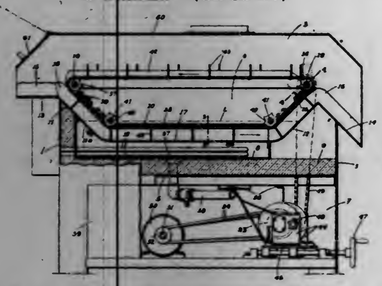
1. A composite package comprising a bag formed of thin flexible material and one end portion of which normally contains a substance to be packaged while the other end portion is normally devoid of said substance, and a cover of relatively stiff material having a body portion upon which the first-mentioned portion of said bag normally lies, said body portion of the

cover also having a flap foldable inwardly over said body portion and to which the second-mentioned portion of the bag is secured so that said second-mentioned bag portion is foldable with said flap inwardly over the first-mentioned portion of said bag, said cover having other flaps



foldable inwardly over the first-mentioned flap and said bag to enclose and protect them and to close the cover, all of said flaps being freely unfoldable to completely expose the bag, and means for releasably holding said flaps in cover-closing position.

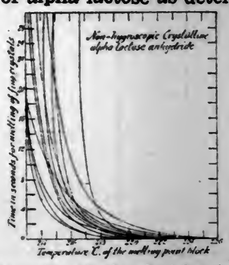
2,319,561
FOOD COOKING UNIT
Walter R. Scharnch, Stockton, Calif., assignor to Cogrisch Products, Inc., a corporation of California
Application May 13, 1941, Serial No. 393,176
9 Claims. (Cl. 53—7)



1. In a continuous food cooker which includes an initially open topped tank adapted to contain heating cooking oil to a predetermined level, and a driven endless and flexible food advancing unit disposed with one reach thereof in the tank below said level; a tunnel assembly normally disposed in the tank mainly below said level and through which tunnel assembly said reach extends, said assembly including in normally stationary relation to the tank an elongated cover pan extending lengthwise and above said reach, a perforate elongated bottom pan extending lengthwise and below said reach but above the bottom of the tank, and side plates extending between corresponding edges of said pans in unitary relation thereto.

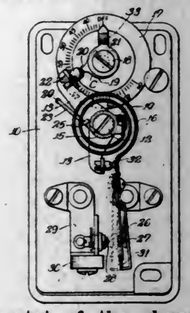
2,319,562
STABLE CRYSTALLINE ANHYDROUS ALPHA LACTOSE PRODUCT AND PROCESS
Paul Francis Sharp, Ithaca, N. Y., assignor to Cornell Research Foundation, Inc., Ithaca, N. Y., a corporation of New York
Application April 22, 1940, Serial No. 330,961
6 Claims. (Cl. 127—31)

1. As a composition of matter, stable crystalline anhydrous alpha lactose, characterized by a crystalline structure stable at a relative humidity of fifty per cent at ordinary room temperature, an initial solubility higher than alpha lactose hydrate or simple dehydrated alpha lactose hydrate, dissolving in water with an absorption of heat, being a form of alpha lactose as determined by its



optical rotation in solution but having a different crystalline structure than alpha lactose hydrate or simple dehydrated alpha lactose hydrate, as shown by X-ray diffraction.

2,319,563
THERMOSTAT
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application June 30, 1941, Serial No. 400,428
9 Claims. (Cl. 200—139)

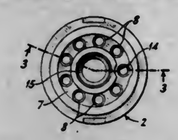


1. A thermostat of the character described comprising a movable switch member, a thermostatic element operating said switch member, an adjustable support for said thermostatic element, manually operable means for moving said support to adjust the switch member throughout a predetermined range and adapted when the means is moved to one extreme position to hold said switch member in open circuit position against closing except at an exceptionally low temperature, and stop means to stop said switch arm at a position short of closed circuit position when said means is at said extreme position, said dial, at its opposite extreme position, holding said switch member closed until only an exceptionally high temperature opens it.

2,319,564
BASE AND SOCKET
Newell R. Smith, Bloomfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1941, Serial No. 400,167
4 Claims. (Cl. 173—328)

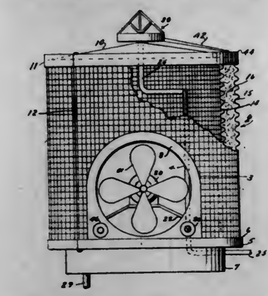
1. In combination a socket and a base, said socket comprising an insulating body having a circular groove in its top side, spaced female contactors in the bottom of said groove, a keyway in the wall of said groove extending from said top side to one of said contactors, said base

comprising a plurality of parallel circularly arranged male contact pins, corresponding in number and spacing with said contactors, one of said pins having a projection laterally beyond the circle of the pins, said projection being



spaced inward from the plane through the ends of said pins a distance less than the length of said keyway, the lateral extent of said projection being intermediate the width of the groove and of the groove and keyway.

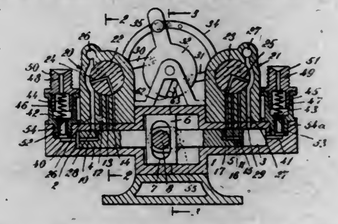
2,319,565
EVAPORATIVE COOLER
Robert S. Stratton, Phoenix, Ariz.
Application August 1, 1942, Serial No. 453,171
2 Claims. (Cl. 261—97)



1. An evaporative air cooler having a body consisting of an evaporative pad positioned around its perimeter, a bottom portion forming a closure, and having a sump, a top lid forming a closure for the top thereof, and having an annular trough around its perimeter, the bottom thereof being perforated with a plurality of equally spaced holes positioned above the top rim of said pad, a circulating fan positioned within said body portion and adapted to direct air outward through a vent, a vent opening formed in the side of said pad, a water supply pipe adapted to deliver water under pressure to a turret nozzle positioned above said top, a water distributing turret including an annular turbine chamber, positioned above an annular trough provided with a supporting bearing above said discharge nozzle and adapted to turn in a horizontal plane and carrying a water distributing sweep pipe, said pipe extending radially therefrom to the annular trough formed around the outer rim of said top, a means for regulating the flow of water through said supply pipe.

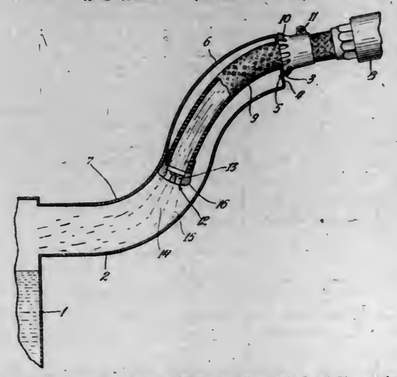
2,319,566
FUEL PUMP
Frederick R. Sunderman, New York, and James McAuley, Bronx, N. Y., assignors to F. S. McLachlan Co. Inc., a corporation of New York
Application May 2, 1941, Serial No. 391,532
2 Claims. (Cl. 123—140)

2. A fuel pump for internal combustion engines which comprises at least one pair of opposed pistons each reciprocable in its own cylinder, a crank means for driving each piston, an oil passage in each piston, a valve for each piston having an oscillatable valve member, a by-pass in the valve member; a conduit connecting an oil storage system, the valve and the pump cylinder; a plurality of ducts connecting each cylinder with each valve at spaced intervals in the longitudinal direction of the cylinder, said ducts being arranged to effect selective and coincident engagement with the



by-pass by adjustment of the valve member to vary the quantity of oil in each injection, means responsive to the speed of the engine operatively connected to the valve member whereby the valve member is adjusted in accordance with the speed of the engine to throttle the passageway between the duct and the by-pass and thereby varying the supply of fuel to control the speed of the engine.

2,319,567
METHOD OF FILLING TANKS
Albert Vegell, Chicago, Ill., assignor, by mesne assignments, to Spraying Systems Co., Chicago, Ill., a corporation of Illinois
Application September 30, 1940, Serial No. 358,952
2 Claims. (Cl. 221—84)

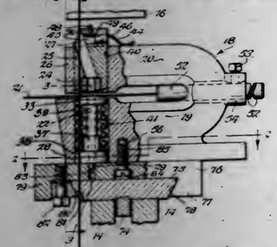


1. The method of filling liquid holding tanks having an elongated filling pipe which comprises introducing the liquid into the filling pipe in a plurality of relatively fine divergent streams, whereby air vent spaces are provided between the streams for preventing the entrapment of air in the tank and filling pipe thereof.

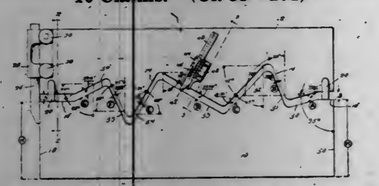
2,319,568
PUNCHING DEVICE
George F. Wales, Kenmore, N. Y.
Application May 4, 1942, Serial No. 441,594
24 Claims. (Cl. 164—94)

1. A punching device for use on a press having a stationary bed and a ram movable toward and from said bed, said punching device including a holder having a unitary head and base spaced apart to receive between them the work, axially alined apertures extending through said head and base, a punch and stripper unit arranged in

the aperture in said base, and a die unit movably mounted in the aperture of said head and extending above said head for engagement by the ram of the press.

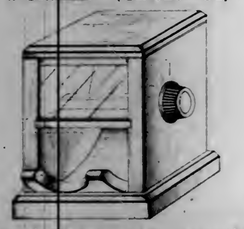


2,319,569
METHOD AND MEANS FOR MEASURING PROFILES AND CONTOURS
Dennis C. White, Akron, Ohio
Application January 15, 1942, Serial No. 426,912
10 Claims. (Cl. 33—174)



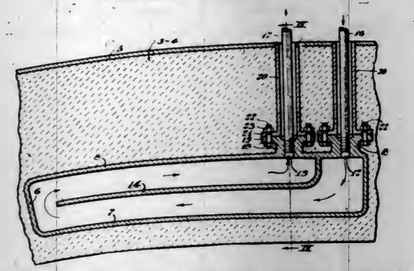
1 Means for measuring the amount of material to be removed from a surface to conform it to a template edge, comprising a template, means attachable to said template comprising a spacing member of known dimension, and a distance measuring member having a surface engaging portion and a template edge engaging means adapted to maintain the line of measurement of said measuring member perpendicular to said template edge whereby the perpendicular distance between said template edge and surface may be measured in relation to the known dimension of said spacing member.

2,319,570
TOOTHPICK DISPENSER
Leo H. Whorton and Ralph L. Minshall, Donna, Tex.; said Minshall assignor to J. R. Huffington, Bexar County, Tex.
Application October 5, 1940, Serial No. 359,962
2 Claims. (Cl. 312—84)



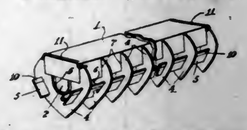
2. A dispensing apparatus comprising a base, side and rear walls mounted upon the base and extending upwardly therefrom and forming a rectangular receptacle, a cover slidably mounted upon the upper ends of said walls, a partition mounted in the receptacle intermediate the ends of the walls thereby forming an upper compartment and a lower compartment, said partition having a roller space therein extending between said side walls, a feed roller rotatably mounted in said side walls to lie axially in said roller space, said roller having grooves on the surface shaped to receive the articles to be dispensed, knobs on the ends of the rollers for manipulating the roller, a transparent plate mounted to form the front wall of the upper compartment and receiving means mounted in the lower compartment and comprising upwardly curved spaced-apart arms to receive the articles dispensed from the upper compartment by said roller.

2,319,571
COOLING PLATE FOR BLAST FURNACE INWALLS AND MANTLES
James L. Wick, Jr., and Louis M. Nesselbush, Youngstown, Ohio, assignors to The Falcon Bronze Company, Youngstown, Ohio
Application October 29, 1941, Serial No. 416,968
2 Claims. (Cl. 122—6)



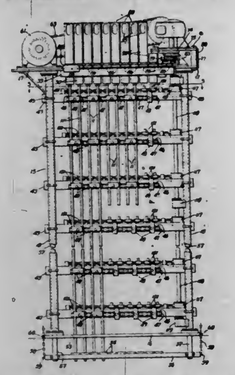
1. In a metallurgical blast furnace comprising a refractory stack extending above the mantle thereof, a hollow cooling plate buried within the wall of said refractory stack whereby refractory portions of the said stack are provided between the inner and outer walls thereof and the said hollow cooling plate, the exterior wall of said stack having a pair of passages communicating with said hollow cooling plate, fluid intake and fluid outlet connections for said hollow cooling plate, each of said connections being in alignment with one of said passages and terminating inwardly of the exterior wall of said stack, a rigid protection pipe disposed in each of said passages and rigidly connected to said hollow cooling plate, and fluid intake and outlet conduits extending through said rigid protection pipes and detachably secured to their respective connections on said hollow cooling plate whereby said conduits may be easily replaced when damaged, etc., said rigid protection pipes being comprised of forged metal to thereby enable limited deformation while providing substantial resistance to shearing stresses.

2,319,572
LOUVER FOR LIGHTING FIXTURES
Edwin Bird Wilson, Forest Hills, N. Y., assignor to Design Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 20, 1941, Serial No. 415,670
4 Claims. (Cl. 240—78)



1. In a fluorescent tube fixture, a casing, means for holding the tube below said casing, a plurality of thin louver sections transverse to said tube and having a portion surrounding the bottom and sides of the tube and portions projecting above the tube and attached to the casing, each section having two openings, and a removable locking strip in each of said openings and having spaced lateral notches each of which engages a section.

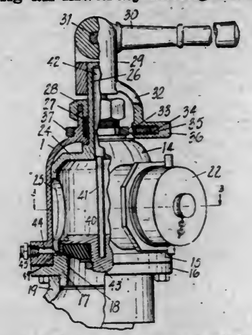
2,319,573
APPARATUS FOR LOADING SHEATH WIRE HEATING UNITS
Charles C. Abbott, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 20, 1940, Serial No. 346,593
9 Claims. (Cl. 226—23)



1. Apparatus for loading granular insulating material into the sheath of a sheath wire heating unit that is provided with a sheath, and a resistance element within the sheath located in the central longitudinal axis thereof and embedded in and held in its spaced relation with the sheath when the insulating material is loaded into the sheath, comprising a supply reservoir for said insulating material, means rotatably supporting said sheath in an upright position so that it can be revolved on its longitudinal axis and also rotatably supporting said supply reservoir on said axis, said supply reservoir having a discharge opening in said axis communicating with the upper end of said sheath, and means for continuously rotating said reservoir and sheath while said insulating material is being fed into said sheath.

2,319,574
DISCHARGE VALVE FOR PUMPS
Adrian P. Adney, Battle Creek, Mich., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich., a corporation of Michigan
Application December 26, 1941, Serial No. 424,449
8 Claims. (Cl. 251—150)

1. In a structure of the class described, the combination of a valve casing adapted for connection at its lower end with the discharge of a pump and provided with a pair of discharge passages, a rotary cylindrical valve open at its lower end and having a pair of discharge ports positioned adjacent said passages so the valve may be adjusted to open either or both or to close both, said valve being provided with a stem projecting through the top of the valve casing, a slotted head for said stem, a handle pivoted in said slot for swinging adjustment in a plane substantially parallel to the stem axis and between extreme positions at right angles to the axis of the stem, said head being provided with a depending arm terminating in a radially disposed index finger having an inwardly facing bore therein, a



spring actuated detent arranged within said bore, and an index member on said valve casing with which said detent coacts.

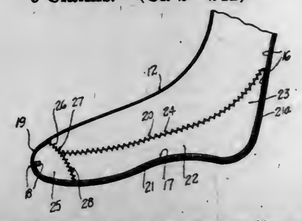
2,319,575
RESINOUS COMPOSITION
Maynard C. Agens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 27, 1940, Serial No. 326,272
5 Claims. (Cl. 260—77)

1. A peroxidized product of esterification under heat of ingredients consisting of a polyhydric alcohol, tetrahydrofurfuryl alcohol and an alpha unsaturated alpha beta polycarboxylic acid.

2,319,576
PEROXIDIZED ESTER
Maynard C. Agens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 27, 1940, Serial No. 326,271
6 Claims. (Cl. 260—345)

1. A composition comprising a peroxidized ester of a polycarboxylic acid and an alcohol-ether containing a single alcoholic hydroxyl group and at least one ether linkage, said ester having a peroxide equivalent per gram of material of not less than 80×10^{-6}.

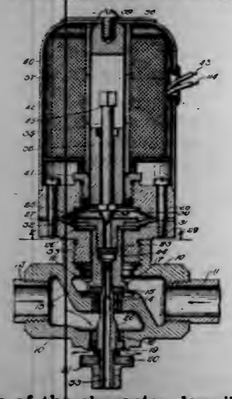
2,319,577
HOSIERY
Morry A. Bard and Elias A. Tarshis, New York, N. Y.
Application October 27, 1942, Serial No. 463,558
9 Claims. (Cl. 2—241)



1. A stocking having a body portion consisting of knitted, nonrunning fabric and having a continuous longitudinal seam from the top to the toe thereof, a foot reenforcement member

and a toe reenforcement element, said member being split and being secured in said seam so that said member is curved to conform to the bottom and to the sides of the foot and ankle, said member consisting of a knitted fabric and the toe element consisting of a textile fabric, the toe element being connected into said seam, and stitching interconnecting said element and member to form a continuous unit and connecting the remaining edges of the element and member to the said body portion.

2,319,578
VALVE
Henry L. Beckley, Glen Ellyn, Richard H. Gilbert, Oak Park, and Rollin H. Lacart, Chicago, Ill., assignors to The Electrimatic Corporation, a corporation of Illinois
Application August 2, 1941, Serial No. 405,266
4 Claims. (Cl. 137—139)



1. A valve of the character described for controlling fluid flow, including: a valve body having an inlet and an outlet and a partition separating them, the partition having an opening therethrough; an opening in the valve body on the outlet side of the partition, the openings being axially aligned; a rod coaxial with said openings and longitudinally movable, said rod having a passage therethrough and opening to atmosphere at one end; valve members mounted on the rod on opposite sides of the openings, whereby movement of one valve member to closed position moves the other to open position and vice versa; a diaphragm on the other end of the rod; means for supplying fluid under pressure to one side of the diaphragm; means for venting fluid on one side of the diaphragm, this means including a pilot valve controlling flow through said passage; and means for moving the pilot valve.

2,319,579
ART OF MIXING FEEDS WITH MOLASSES
Theron W. Black, Columbus, Wis., assignor to Benjamin H. Card, Fairwater, Wis.
Application August 26, 1939, Serial No. 292,111
6 Claims. (Cl. 99—6)

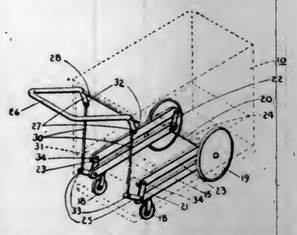


1. The process of molasses treatment which includes the heating of the molasses to a point close to the point of caramelization, spraying the heated molasses in a form so finely atomized as to be substantially invisible, and delivering the atomized molasses spray in a substantially dry mist of molasses to the material to be treated.

2,319,580
METHOD OF DETERMINING MANGANESE IN THE PRESENCE OF IRON
William D. Brown, Pittsburgh, Pa.
No Drawing. Application September 3, 1941, Serial No. 409,429
2 Claims. (Cl. 23—230)

2. A method of determining manganese in manganese-rich materials, which comprises dissolving a weighed sample of the material in hydrochloric acid, removing the hydrochloric acid from the resulting solution, oxidizing the manganese in the solution by perchloric acid in the presence of phosphoric acid, removing free chlorine from the resulting solution by blowing air therethrough, adding to the solution measured volumes of standard ferrous sulphate solution in amounts somewhat in excess of the amount required to react completely with the manganese, and titrating excess ferrous sulphate with potassium permanganate until the titration reaches its end point.

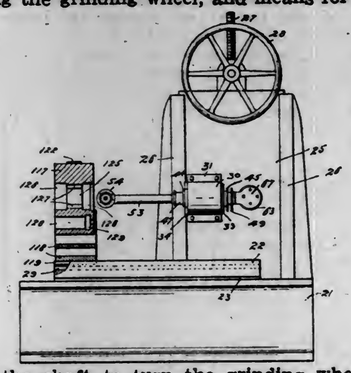
2,319,581
ARTICLE OF FURNITURE
Stuart D. Brownlee and John G. Macdonald, Toronto, Ontario, Canada
Application March 10, 1941, Serial No. 382,556
In Canada March 16, 1940
4 Claims. (Cl. 280—44)



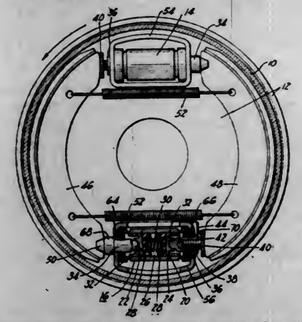
1. In an article of furniture adapted for use either as a table or as a serving wagon; the combination of a set of wheels mounted on a chassis retractably supported within said article, one end of said chassis connected to said article by a pair of single arm pivot links and the other end of said chassis connected to said article by a pair of bell-crank-shaped pivot links, the angular extending arms of said bell crank links pivotally connected to the ends of a pair of rigid rods, said rods pivotally connected to the ends of the arms of a U-shaped handle, the arms of said U-shaped handle pivotally supported on said article, whereby movement of the base portion of said U-shaped handle is transferred through said rigid rods, pivoting said bell-crank links and actuating said chassis to retract or project said wheels.

2,319,582
INTERNAL KEYWAY GRINDER
Guy B. Carroll, Minneapolis, Minn.
Application July 7, 1941, Serial No. 401,316
32 Claims. (Cl. 51—92)

4. The combination with a support of a grinding unit mounted on the support including a shaft, a rotatable grinding wheel journaled on the shaft for rotation in a plane parallel thereto, the inner face of the grinding wheel being substantially at the axis of the shaft, means for rotating the grinding wheel, and means for rotating the shaft to turn the grinding wheel face for face.



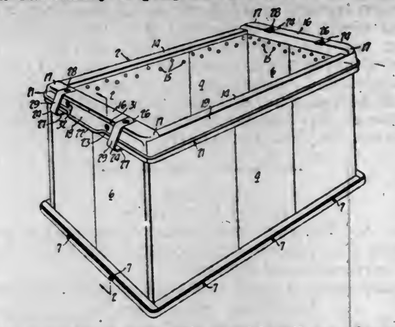
2,319,583
BRAKE
Allan C. Chambers, Detroit, Mich.
Application March 29, 1941, Serial No. 385,783
3 Claims. (Cl. 188—78)



1. In an internal expanding brake having a fixed backing plate, a rotatable brake drum, and a friction element for impeding rotation of the drum shiftable to anchor at either end according to the direction of drum rotation when it contacts the drum; applying and anchoring means for the friction element comprising a box-like housing secured to the backing plate near an end of the friction element, a hydraulic cylinder mounted inside the housing having a hydraulic pressure responsive piston reciprocable therein, and a thrust element having one end bearing against the piston and the other end bearing against the friction element for transmitting applying force from the piston to the friction element and having a body portion extending through an opening in the side of the housing and a head portion between the friction element and the housing larger than the opening in the housing and arranged to transmit anchoring torque of the friction element from the friction element to the housing.

2,319,584
BUTTER MOLD
John M. Charlton, Oakland, Calif., assignor to R. A. Simpson Manufacturing Company, Inc., Oakland, Calif., a corporation of California
Application May 22, 1940, Serial No. 336,558
8 Claims. (Cl. 31—45)

1. In a butter mold, a bottom, upright side and end walls hinged thereto for movement to or from an inward vertical position, rail members extending along said walls adjacent the upper edges thereof around the open top of said mold and having provided thereon downwardly and outwardly sloping surfaces, and a clamping ring member surrounding said rail members and arranged for engagement with each of said sloping surfaces whereby upon movement of said ring member over said surfaces each of said walls will be moved to said inward position or released for movement therefrom.

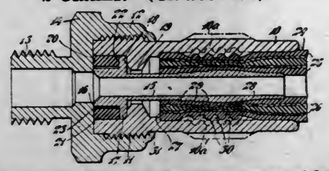


2,319,585
PENCIL
Isidor Chesler, Oceanport, N. J., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware
Application January 7, 1941, Serial No. 373,406
10 Claims. (Cl. 120—83)



1. A pencil of the non-calcined type having water soluble binder and color ingredients in the form of a rod, a sheath comprising sections, water soluble glue bonding said sections to one another and to the rod and a substantially waterproof jacket encasing the rod and interposed between the rod and the glue bonded sheath.

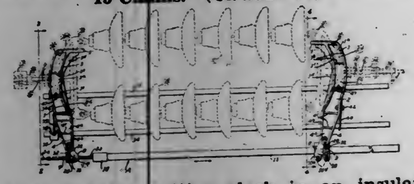
2,319,586
END FITTING FOR FLEXIBLE HOSES
Edward Claude Shakespeare Clench, London, England, assignor to Automotive Products Company Limited, London, England
Application August 12, 1940, Serial No. 352,298
In Great Britain September 1, 1939
2 Claims. (Cl. 285—84)



1. A hose and hose end fitting assembly comprising in combination, a hose, a screw-threaded spigot or like end fitment, an outer sleeve carried thereby and adapted to be squeezed around the outside of the hose, a tubular member formed separately from the end fitment and arranged to fit within the bore of the hose, the end of the

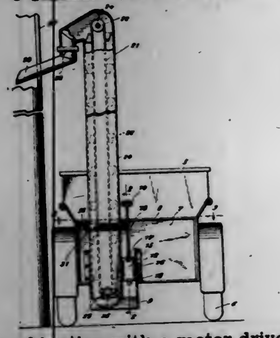
tubular member being arranged to butt against an internal shoulder carried by the outer sleeve and said tubular member being formed at a short distance from said end with an outward flange, and means for providing a fluid tight joint between that end of the tubular member adjacent the end fitment and the corresponding end of the outer sleeve so as to prevent fluid within the hose from gaining access to the end surface of the hose disposed within the outer sleeve, said means comprising a rubber or like packing ring compressed in an axial direction between the outward flange of the tubular member and the internal shoulder of the outer sleeve.

2,319,587
DEAD-END TOOL
John W. Conrad, Zanesville, Ohio, assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application August 8, 1941, Serial No. 406,009
15 Claims. (Cl. 254—67)



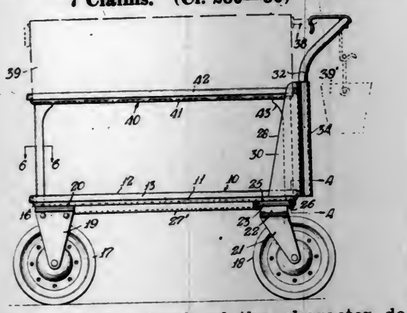
1. A tool for putting slack in an insulator string of a dead end assembly of the type having a plurality of strings of insulators connected to opposed yoke members, comprising opposed elements arranged to engage the yoke members of the dead end assembly, and means at one side only of the tool for engaging portions of said opposed elements at corresponding ends thereof and operable to draw said portions of said opposed elements toward each other so as to cant at least one of the opposed yoke members of the dead end assembly and thereby put slack in one of the strings of insulators associated therewith.

2,319,588
TRUCK LOADER AND UNLOADER
Delbert B. Dreese, Larned, Kans.
Application February 24, 1942, Serial No. 432,122
5 Claims. (Cl. 214—83)



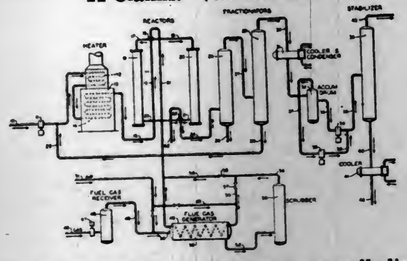
1. The combination with a motor driven truck, of an attaching plate secured to the discharge end of the truck and forming an end gate therefor, said attaching plate having its upper end provided with a lateral reinforcing flange formed with a guide aperture and its lower end formed with an opening communicating with the interior of the truck, a hopper secured to the attaching plate at said opening, a casing extending vertically of the truck and having its lower end fitted within the hopper and provided with an opening communicating therewith, a conveyor mounted for rotation within the casing, and a cut off valve for controlling the flow of material from the interior of the truck into said hopper and provided with an operating rod extending through the aperture in the flange.

2,319,589
FOOD SERVICE TRUCK
Charles M. Drinkwater, Chicago, Ill.
Application July 11, 1941, Serial No. 402,021
7 Claims. (Cl. 280—50)



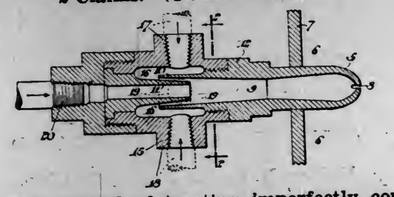
1. In a wheeled truck of the character described, a combined body and frame member comprising a flat bottomed rectangular metal pan having an upstanding continuous marginal flange integral therewith, wheel mounting plates welded to the underside of the bottom of said pan adjacent the corners thereof, the mounting plates at one end of said truck having depending threaded studs rigidly secured thereto for fastening castor wheel mounts thereon, upstanding angular corner members mounted at the last mentioned end of said pan body having side and rear webs welded at the lower ends thereof to the outer side of said marginal flange, and a vertically extending tubular bracket welded to the outer face of the rear web of each of said corner members providing a socket at the upper ends thereof for the reception of the ends of a handle bar.

2,319,590
CATALYTIC CRACKING OF HYDROCARBON OILS
DuBois Eastman and Charles Richter, Port Arthur, Tex., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application January 13, 1940, Serial No. 313,654
11 Claims. (Cl. 196—52)



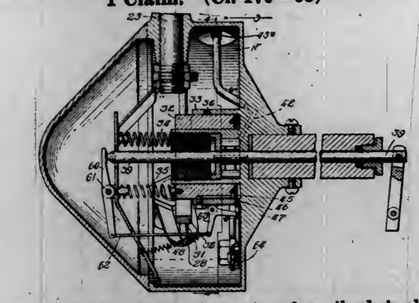
1. In the catalytic cracking of a normally liquid heavier hydrocarbon oil charge to convert the same to gasoline hydrocarbons involving alternate periods of conversion and reactivation, the method which comprises continuously passing a preheated and vaporized stream of a selected heavier hydrocarbon oil charge stock having a carbon residue of less than 0.2% and a color of less than 200 on the Lovibond ½" scale through a contact mass of active cracking catalyst maintained at a temperature of about 910 to 1000° F. at a space velocity of 3 to 10 for a conversion period in the range about four to twenty hours on stream, to obtain a conversion to gasoline plus gas of not less than 50 pounds per pound of carbon deposited on the catalyst, the ratio of gasoline plus gas to carbon being produced when the catalyst has been onstream 4 hours or more, being substantially greater than that obtaining during a period of less than 4 hours, then discontinuing the flow of the hydrocarbon charge in contact with said catalyst after substantial deposition of carbon upon the catalyst, reactivating the catalyst in situ in a period of time less than the said conversion period, and then repeating the process.

2,319,591
METHOD OF TREATING IMPERFECTLY COMBUSTIBLE LIQUIDS OR SEMILIQUIDS
William Ferguson, Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated, a corporation of Delaware
Application May 9, 1941, Serial No. 392,631
2 Claims. (Cl. 158—117.5)



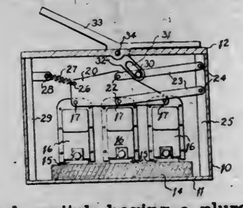
1. The method of treating imperfectly combustible liquid, which consists in the simultaneous introduction, into a substantially closed chamber, of the imperfectly combustible liquid, a fuel oil, and a gaseous medium, to form a mixture in said chamber, and projecting a stream of atomizing medium to act inductively upon the mixture in the chamber in causing the projection of the mixture to a place of combustion.

2,319,592
WINDMILL
William J. Fiedler, Mitchell, S. Dak., assignor to Wind Governor Corporation, a corporation of South Dakota
Application July 24, 1940, Serial No. 347,327
1 Claim. (Cl. 170—68)



A windmill of the character described, including: a plurality of blades rotatable about their longitudinal axes; a pump, driven by rotation of the windmill, providing a source of fluid under pressure, said pump being of the rotary eccentric type mounted substantially concentric with the axis of rotation of said windmill, the inner element of the pump being stationary and the outer element rotating with the blades; a cylinder connected to the pump; a piston in the cylinder movable in one direction in response to fluid pressure in the cylinder; spring means for moving the piston in the other direction; means connecting the piston and blades, whereby movement of the piston effects rotation of the blades about their axes; and means responsive to the rate of rotation of the windmill for controlling the fluid pressure in the cylinder.

2,319,593
SWITCH
Lawrence E. Fisher, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application July 3, 1940, Serial No. 343,839
1 Claim. (Cl. 200—16)

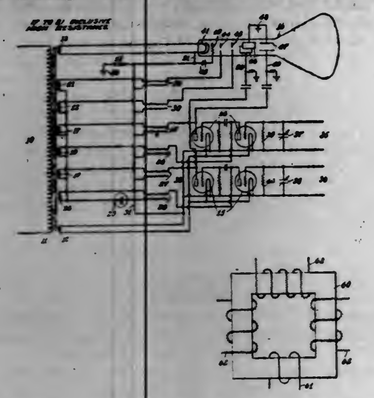


A multipole switch having a plurality of stationary contacts and a plurality of movable contacts, these being arranged in a row and coplanar, and movable in generally parallel paths in the plane of that row but perpendicular to that row, a rocker push only handle disposed in and operating in a plane generally coplanar with the plane of the row of movable contacts, with its axis perpendicular to the plane of the row of movable contacts and of the handle, a mechanism operatively connecting the handle and movable contacts for translating rocker motion of the handle into the desired motion of the movable contacts, the mechanism being arranged in the plane of the handle and movable contacts and occupying about the same amount of space as the handle and movable contacts, measured in a direction perpendicular to the plane of the row, that is, along the handle axis.

2,319,594
SAFETY HIGH POTENTIAL ELECTRICAL SOURCE AND CIRCUIT
Edward G. Gage, Brooklyn, N. Y., assignor, by direct and mesne assignments, of two-thirds to Leon Ottinger, New York, N. Y.
Application April 20, 1940, Serial No. 330,636
4 Claims. (Cl. 175—294)

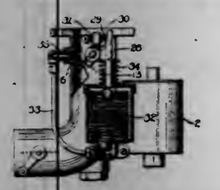
1. The combination with an electrical circuit and apparatus of an impedance substantially greater than the normal resistance of the human body, permanently connected in the circuit and operating at a dangerously high potential but relatively small current; of a source of electrical potential supply of dangerous value for the circuit and apparatus and comprising an elongated coiled conducting element of the same material throughout its length, permanently connected in series in the apparatus circuit and of resistivity sufficiently low to pass the re-

quired current for operating the apparatus and of such high magnitude with respect to said voltage that, upon establishment of a closed circuit through the said source and the human



body, the current flowing in such closed circuit and through the body and the voltage applied to the body are reduced by said resistivity to a safe value.

2,319,595
ENGINE STARTING DEVICE
John Good, Garden City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 14, 1929, Serial No. 407,031
14 Claims. (Cl. 123—119)

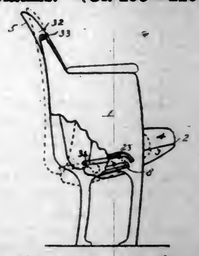


1. In an automobile, the combination of an engine, a suction intake supplying fuel thereto, a throttle in the intake, a manual, spring-returned control for the throttle, a stop for limiting the closure of the throttle to pass a minimum idling fuel supply to the engine when said control is not applied, a suction motor device having a connection to the intake and actively responding to pre-determined vacuum change therein and a throttle actuating member operated by said motor device.

2,319,596
METHOD OF SEPARATING ELECTRO-DEPOSITED LAYERS
Arthur W. Grant, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 3, 1940, Serial No. 327,604
2 Claims. (Cl. 204—6)

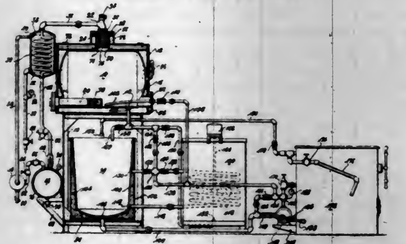
1. The method of forming an iron mold which consists in forming a matrix having a surface of copper, coating the copper surface with a thin layer of silver deposited by displacement, electro-depositing a thick layer of iron on the silver and separating the iron with the silver layer from the copper surface.

2,319,597
CHAIR STRUCTURE
Walter M. Hanson, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application February 28, 1940, Serial No. 321,305
6 Claims. (Cl. 155—116)



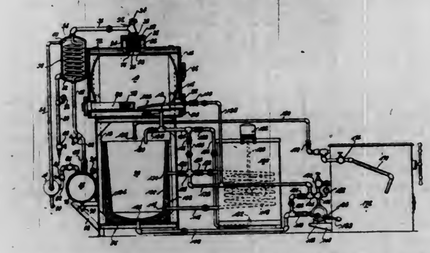
6. In a chair structure: a pair of chairs each having a back and a pair of laterally spaced standards, one of which is between and common to both chairs, each pair of standards having forwardly-rearwardly extending tracks with opposite sides extending upwardly and inclinedly outwardly from each other; seats between the pairs of standards pivotally connected with the backs respectively; means for mounting the seats for forward-rearward movement including a shaft extending transversely thereof and having wheels traveling in the tracks; a pair of opposite brackets mounted on the common standard for relative turning movement in a plane transverse thereto, the backs being mounted on the brackets respectively for independent turning movements about horizontal axes.

2,319,598
APPARATUS FOR REFINING USED CRANKCASE OIL
William D. Harris, Kansas City, Mo.
Application May 13, 1942, Serial No. 442,754
4 Claims. (Cl. 196—16)



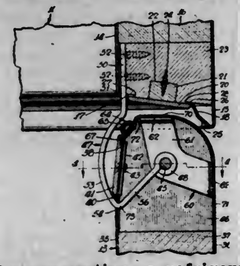
1. Apparatus for re-refining used oil comprising the following elements: a still, a contact vessel, a mixing tank, a circulating pump, a pipe connection leading from the mixing tank to the still, a second pipe connection leading from said pump to said first-named pipe connection, a pipe connection normally open to the atmosphere and leading from the contact vessel to said second pipe connection, means to produce a vacuum in the still, heating means within the still to volatilize the light ends of the oil in the still, manually operated valves in said second and third pipe connections adapted to be opened when the light ends have been volatilized to permit air to pass therethrough and cleanse said first mentioned pipe connection leading to the still, pipe connections from the bottom of the contact vessel to the pump and from the pump to the still, a valve in said pipe connection leading to the still whereby when said valve is opened the pump will force oil into the still and remove any loose deposit therein.

2,319,599
METHOD FOR REFINING USED CRANKCASE OIL
William D. Harris, Kansas City, Mo.
Application May 15, 1942, Serial No. 443,030
2 Claims. (Cl. 196—16)



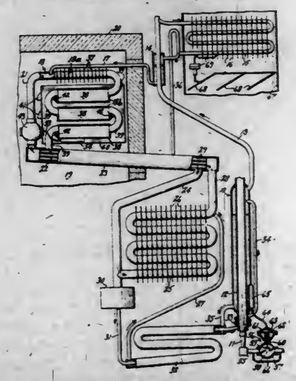
1. Process of re-refining of used oil comprising the following steps: creating a vacuum in a still, causing a body of oil to be treated which is under atmospheric pressure to be drawn through a conduit into said still by the vacuum, vaporizing the diluents from the oil in said still, after said diluents have been vaporized, causing the vacuum to draw air through said conduit to cleanse the same, breaking the vacuum in said still, drawing off the re-refined oil from said still to a contact vessel, cooling said re-refined oil on its way to said contact vessel by passing it in heat-exchange relation with a batch of oil to be re-refined, then circulating said oil repeatedly in a cyclic path from said contact vessel in heat exchange relation to said batch of oil and back to said contact vessel, by-passing a portion of said oil from said cyclic path and discharging it into the bottom of said still under pump pressure to remove any deposit in said still, discharging said deposit and the by-passed portion of the oil from the still and returning it to the cyclic path.

2,319,600
REFRIGERATOR STRUCTURE
Dudley E. Heath, New York, N. Y., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 16, 1940, Serial No. 335,451
3 Claims. (Cl. 20—16)



1. In a door mounting, a refrigerator door of a type having spaced apart wall members and extending substantially to the exterior lateral side walls of a body of a refrigerator so as to overlie the front thereof when the door is in its closed position, the inner wall member having an opening, a hinge comprising a stationary strap extending through the opening in said inner wall member and having one end thereof attached to the body of the refrigerator at a region adjacent to one of the exterior lateral side walls, a supporting frame carried by said door in the space between said wall members, said supporting frame being pivotally mounted upon said strap at a region of the latter in front of and spaced from the body of the refrigerator, the region of said strap at which said supporting frame is pivotally mounted thereon constituting the axis about which said door rotates with respect to the body of the refrigerator, said stationary strap having a curved intermediate part concentric about the axis of rotation of said door, a sealing strip cooperating between the inner side of said door and the body of the refrigerator to form a seal when said door is in its closed position, said sealing strip being so disposed that, when the refrigerator is viewed from the front and said door is in its closed position, the portion of said sealing strip in the vicinity of said hinge lies between said one exterior lateral side wall of the refrigerator and the opening in said inner wall member, the portion of said door between said one exterior lateral side wall and the axis about which said door rotates being freely movable through approximately a right angle toward the front of the refrigerator body when said door is moved from closed to open position, the part of said stationary strap projecting from and in front of the body of the refrigerator determining the extent of movement of said door when moved from closed to open position, and the distance of said axis of rotation from said spaced apart wall members and the peripheral edge portion of said door at said one exterior lateral side wall being such that, when said door is rotated through approximately a right angle from closed to open position, the overall width of the space taken up by the body of the refrigerator and said door is substantially no greater than the distance between the exterior lateral side walls of the refrigerator body.

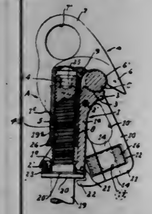
2,319,601
REFRIGERATION
William T. Hedlund, New Rochelle, N. Y., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application October 1, 1938, Serial No. 232,697
14 Claims. (Cl. 62—5)



3. In a refrigeration system of the absorption type, an evaporator adapted to hold a relatively large quantity of liquid refrigerant, an absorber, conduits connecting said evaporator and said ab-

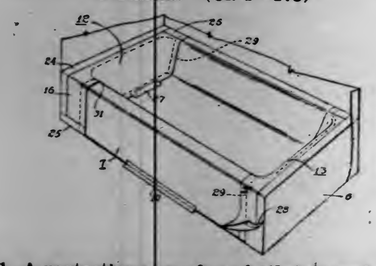
sorber for circulation of inert gas, a closure in one of said conduits, and automatic means to control said closure in response to evaporator temperature.

2,319,602
CLAMP
Flavius J. Hendley, Chattanooga, Tenn.; Cornelia S. Hendley, executrix of said Flavius J. Hendley, deceased
Application March 10, 1941, Serial No. 382,490
9 Claims. (Cl. 173—273)



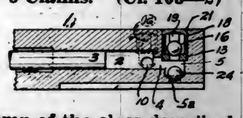
1. A clamp comprising a body portion having a part which provides a jaw, a member having a part which provides a second jaw, said member being guided by said body portion for movement relative to said body portion and said jaws of said body portion and said member being related for clamping operation, an operating element cooperating with said body portion and having a screw-threaded shank which screwthreadedly engages said member for subjecting said member to movement with respect to said body portion, and a spring washer disposed between a portion of said body portion and a portion of said operating element, said portion of said body portion being provided with a concave face and said portion of said operating element being provided with a convex face and said spring washer being deformed between said faces when the operating element is manipulated to adjust the jaw of said member to the clamping position.

2,319,603
BATHTUB PROTECTOR
Robert E. Henry, Pittsburgh, Pa.
Application April 11, 1942, Serial No. 438,534
5 Claims. (Cl. 4—173)



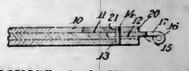
1. A protective cover for a bath tub or the like, comprising a sheet of flexible material having a body portion arranged to cover an inner end surface of a tub and the adjacent rim portion and of sufficient length to cover said end surface and portions of the adjacent side surfaces, wings formed on the body of the cover adjacent to its uppermost edge and in approximate longitudinal alignment therewith, the wing portions being arranged to cover the uppermost corner surfaces of a tub and the rims of the said adjacent side surface portions, pleats being formed in the sheet along lines which diverge downwardly from the ends of the uppermost edge of the body portion of the sheet.

2,319,604
PUMP STRUCTURE
James J. Hennessy, Montclair, N. J.
Application March 23, 1942, Serial No. 435,769
5 Claims. (Cl. 103—2)



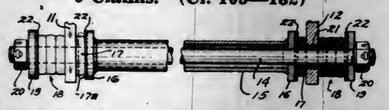
1. In a pump of the class described, a cylinder, a plunger reciprocating therein, an inlet port at the inner end of said cylinder, an outlet port located substantially abreast of the inlet port, another outlet port spaced from the first-mentioned port, and individual passageways leading from said ports to a common discharge conduit of cross sectional area approximately equal to the sum of the cross sectional areas of said passageways.

2,319,605
COVER FOR LARGE BOOKS
Maynard R. Hultman and Carl E. Hultman, Crafton, Pa.
Application January 12, 1942, Serial No. 426,516
2 Claims. (Cl. 281—37)



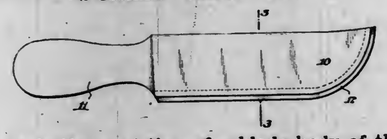
1. In book covers, a cover member formed of ply wood fabricated of three plies, the rear longitudinal edge being provided with a pair of stepped recesses, one of the recesses being of a depth equal to the thickness of the uppermost ply and the other being of a depth equal to about three-fourths of the thickness of the intermediate ply, the lowermost ply being unrecessed, a metal hinge leaf received in the recess of the intermediate ply, a clamp strip received in the recess of the uppermost ply and overlapping the hinge leaf to the rear longitudinal edge of the cover member, and securing means passed through the clamp strip, the hinge leaf and the unrecessed ply of the cover member.

2,319,606
RAILWAY TRUCK STRUCTURE
William C. Krautheim, St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application May 18, 1942, Serial No. 443,396
6 Claims. (Cl. 105—182)



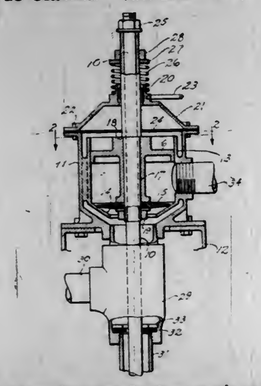
2. A device for connecting relatively movable parts of a railway vehicle truck, comprising a rigid elongated sleeve, a rod slidable in said sleeve and projecting longitudinally beyond the ends thereof for assembly with the truck parts, a relatively stiff cushion on said rod at each end of said sleeve, a relatively soft cushion on said rod spaced from but opposing each first-mentioned cushion, and retainers on the ends of the rod for said latter-mentioned cushions, whereby relative movement of the truck parts towards each other is resisted primarily by the relatively stiff cushions and the sleeve between them and relative movement of the truck parts away from each other is accommodated by the yielding of the relatively soft cushions.

2,319,607
KNIFE
Joseph D. Kevorkian, Philadelphia, Pa., and Joseph R. Wolfson, Forest Hills, N. Y.
Application January 7, 1943, Serial No. 471,628
2 Claims. (Cl. 30—345)



1. A knife consisting of a blade body of thermo-set plastic, a steel cutting blade, and a member of undercut section preformed on the back of said blade to anchor said blade in said body.

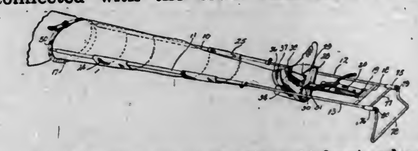
2,319,608
FLUID MOTOR
Max Kraut, La Libertad, Chontales, Nicaragua, assignor to Southwestern Engineering Company, Los Angeles, Calif., a corporation of California
Application November 7, 1941, Serial No. 418,156
13 Claims. (Cl. 121—164)



1. Apparatus for producing reciprocation of a member normally subject to a force acting in one direction, which includes: a cylinder having an outlet at one end; a piston movable in said cylinder and connected to said member in such manner that movement of said piston results in a corresponding movement of said member; a flexible valve disc of area less than that of said piston and connected to said member, said valve disc being adapted to close said outlet upon movement in response to said normally acting force and being sufficiently flexible to permit material movement of said member while still closing said outlet; and fluid supply means connected with the interior of said cylinder between said piston and said valve disc.

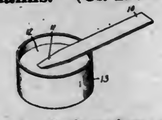
2,319,609
TRACTION SPLINT
Arthur H. La Crosse, Kenosha, Wis.
Application July 28, 1941, Serial No. 404,258
6 Claims. (Cl. 128—84)

4. An extensible splint applicable alternatively to the patient's right or left leg and comprising the combination with a substantially planiform frame comprising side tubes and rods telescopically adjustable therein and a cross connection between said rods at their outer ends, of a saddle pivoted to the tubes of said frame adjacent the ends thereof remote from said rods and movable between operative positions substantially at right angles to the plane of the frame and projecting alternately at opposite sides thereof, said saddle including an oblique offset whereby its respective pivotal connections to said tubes are offset longitudinally of the frame for shortening one side of the frame at the inside of either leg of the patient, according to which side of the frame is uppermost, sling means connected between said tubes and affording sufficient slack to receive a patient's leg between said tubes, said sling means being flexibly invertible to project downwardly irrespective of the inclusion of the frame, means associated with the respective tubes for holding the telescopically extensible rods in adjustment, a boot between said rods adapted for connection with a patient's foot, traction means invertibly connected with the cross connection between



said rods and connected with said boot, whereby said boot may be applied operatively to the patient's foot in either operative position of the frame, and a supporting bracket for the outer ends of the rods in pivotal connection therewith for movement between positions of projection from opposite sides of said rods at substantially 90 degrees to the plane of said frame, said bracket having an intermediate position substantially in said plane, and sleeves retractibly slidable upon said rods into engagement with portions of said bracket and releasably adapted to maintain said bracket selectively in any of said three positions, of a split sleeve comprising elastic web means adapted to extend under predetermined tension about said tubes and the intervening leg of a patient supported on said slings, said web means being of such peripherial extent as to be incapable of enveloping the patient's leg without stretching and being provided with free end portions having complementary slide fastener elements extending longitudinally of the frame for the connection and tensioning of said web means, and a slide fastener operatively associated with one of the said elements for engagement with the other.
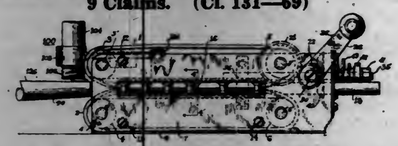
2,319,610
ELECTRIC CONTACT MEMBER
John E. Lake, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 12, 1941, Serial No. 410,528
4 Claims. (Cl. 117—114)



1. The method of forming a metal electric contact on one end of a metal supporting member which consists in dipping said end of the supporting member in a molten bath of the metal of the contact and causing the molten metal to

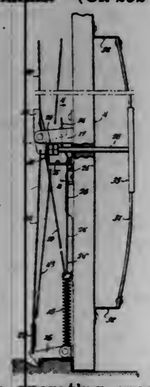
wet the member, removing the member from the bath together with a small amount of the molten contact metal adhering to the member, and then holding the member with said end lowermost so as to cause the molten metal to collect on said end and harden to form a contact body having a spherical surface.

2,319,611
CIGARETTE MAKING MACHINE
Ward Leathers, Brooklyn, N. Y.
Substituted for abandoned application Serial No. 352,349, August 13, 1940. This application September 15, 1942, Serial No. 458,400
9 Claims. (Cl. 131—69)



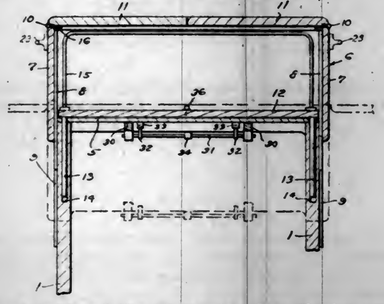
1. In a cigarette making apparatus of the character described, a pair of cooperating carriers positioned adjacent each other and defining therebetween a common straight-away portion, each carrier including a resilient normally flat endless belt having continuous plane inner and outer surfaces, the outer surfaces of said belts being designed for cooperation in the straight-away portion in shaping cylindrical cigarette stock therebetween, means for moving said belts in synchronism at the same rate of speed and in the same direction in said straight-away portion, and means positioned in the path of movement of the outer edges of said belts in the straight-away portion for deflecting said edges inwardly into registry and opposing relationship, thus causing free unobstructed transverse flexing of the belts in opposite directions whereby a tubular stock confining and retaining void is created between the opposed surfaces thereof.

2,319,612
DOOR OPERATING MECHANISM
Fred Lichtfeldt, Wauwatosa, Wis.
Application April 5, 1939, Serial No. 266,042
9 Claims. (Cl. 292—93)



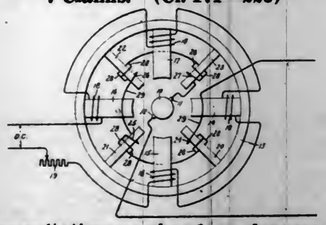
1. In a door operating mechanism, a door, latching means for locking said door in closed position, an external operating member mounted on the outer side of said door and comprising a relatively heavy leaf spring held in spaced relation to said door by a pair of lighter straight, outwardly extending springs secured to the ends of said leaf spring and to said door, said relatively heavy leaf spring and said lighter outwardly extending springs being located on the outside of said door, whereby said leaf spring is movable towards said door, and trip means controlling said latching means and released when said external operating means is moved towards said door.

2,319,613
TABLE
Isidor Lichtstern and Albin Lichtstern, Cleveland, Ohio
Application September 10, 1941, Serial No. 410,330
4 Claims. (Cl. 312—2)



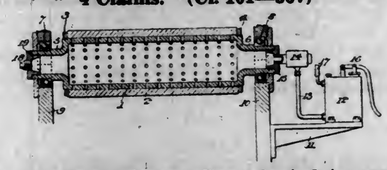
1. A table of the character described comprising a supporting structure, a case mounted for vertical sliding movement on said supporting structure, a pair of leaves hingedly mounted on said case and constituting a closure therefor, and means on the supporting structure for opening the leaves when the case is moved downwardly on said structure.

2,319,614
DYNAMOELECTRIC MACHINE
Thomas M. Linville, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 23, 1942, Serial No. 448,058
7 Claims. (Cl. 171—223)



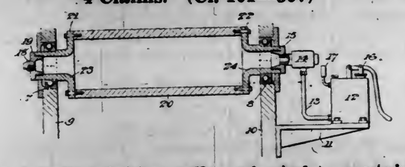
1. An excitation member for a dynamo-electric machine including main pole pieces and commutating pole pieces arranged intermediate said main pole pieces, means including a series field exciting winding having substantially equally divided conductors arranged on each side of said commutating pole pieces for carrying current in the same direction on both sides of said commutating pole pieces and for providing substantially half series current excitation to each axial side of said main pole pieces and substantially no excitation to said commutating pole pieces, and means for connecting in series said series field exciting winding conductors on adjacent commutating pole pieces arranged across only one transverse side of each of said main pole pieces providing for substantially a half turn series excitation to said main pole pieces.

2,319,615
INKING ROLLER FOR PRINTING PRESSES
Hans J. Luehrs, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application April 12, 1941, Serial No. 388,219
4 Claims. (Cl. 101—367)



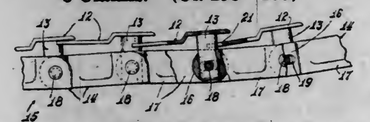
1. A hollow inking roller adapted to contain a supply of liquid ink and having rotary inner and outer side walls, the inner side wall being perforated and provided with hollow trunnions and the outer side wall being of pervious hard material, means for removably positioning the porous outer side wall on the inner side wall, and means for feeding liquid ink under pressure to the interior of the roller.

2,319,616
INKING ROLLER FOR PRINTING PRESSES
Hans J. Luehrs, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Original application April 12, 1941, Serial No. 388,219. Divided and this application October 31, 1942, Serial No. 464,015
4 Claims. (Cl. 101—367)



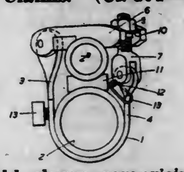
1. A hollow inking roller adapted to contain a supply of liquid ink and comprising a cylindrical sleeve of pervious hard material. ends removably secured to the sleeve and provided with hollow trunnions, and means for feeding liquid ink under pressure to the interior of the roller.

2,319,617
CHAIN CONVEYER
George Manierre, Milwaukee, Wis.
Original application January 13, 1939, Serial No. 256,038. Divided and this application February 7, 1941, Serial No. 377,794
3 Claims. (Cl. 198—189)



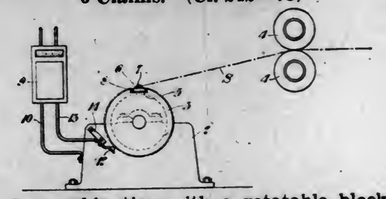
1. A universally flexible chain-conveyer comprising, in combination, a plurality of substantially rectangular flights each having a pintle fixed therein and depending therefrom closely adjacent a longitudinal edge, each of said flights having its other edge portion offset longitudinally to partially underlie the adjacent flight, substantially V-shaped links each including an apex portion and two diverging arms, said links having their apex portions journaled one to each pintle, the arms thereof embracing the apex portion of the adjacent link, and a cross-pin anchored in each pintle and extending laterally through elongated openings in the apex portion of the link mounted on said pintle to provide a pivotal mounting at right angles to the pintle for the said embracing arms of the adjacent link, said links being spaced from the flights to provide clearance for the offset flight portions when the conveyer is flexed vertically.

2,319,618
SCAFFOLD CLAMP
Walter George Mann, Weybridge, England
Application April 7, 1942, Serial No. 437,961
In Great Britain February 4, 1942
2 Claims. (Cl. 304—40)



1. A scaffold clamp comprising a body part of U-shaped cross-sectional outline for engaging a pole, an upstanding limb at one end of one of the walls of said body, an extension at the free end of said limb, said extension lying at an angle of 45° to the longitudinal axis of the body of the clamp, an upstanding limb at the other end of the other wall of said body, an extension upon the free end of said limb, said extension lying at an angle of 45° to the longitudinal axis of the body of the clamp, a cap engaging a second pole, means hingedly connecting one end of said cap to the extension upon the free end of one limb, means adjustably and releasably connecting the other end of said cap to the extension upon the second limb, said cap lying at an angle of 45° with respect to the first pole, a body interposed between the pole engaged by the body of the clamp and the pole engaged by the cap, a recess upon the under surface of said body to engage the first pole, recesses upon the upper surface of said body to engage the second pole, and recesses upon the under surface of the cap to engage the second pole.

2,319,619
APPARATUS FOR COILING STRIP METAL
Frank Marquart and William H. Stivason, Cleveland, Ohio, assignors to The American Steel & Wire Company of New Jersey, a corporation of New Jersey
Application December 17, 1940, Serial No. 370,560
6 Claims. (Cl. 242—78)



1. In combination with a rotatable block for coiling continuous strip metal, means for delivering the strip to be coiled to said block, an electric circuit including the coiled portion of the strip itself when coiled around said block, means arranged on the periphery of said block which the first convolution of the strip is adapted to contact when coiled around the same, and means arranged with said last mentioned means for

completing the circuit through the coiled portion of strip and said last mentioned means at least once each revolution of said block.

2,319,620

PROCESS FOR CATALYTIC CONVERSION REACTIONS

Percy Mather, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application February 26, 1940, Serial No. 320,815
4 Claims. (Cl. 196—52)



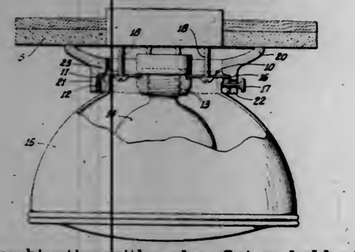
1. A process which comprises introducing a stream of reactants to one end of a vertically elongated reactor containing spaced superimposed beds of contact material to flow through the reactor from said end to the opposite end thereof in a generally vertical direction, dividing the reactants within and along the inner periphery of the reactor into a plurality of separate streams of substantially equal volume, passing each of said separate streams through one of said beds from a point adjacent the inner periphery of the reactor to a point adjacent the vertical axis of the reactor and effecting reaction of the reactant streams during such passage through the beds of contact material, removing each of the separate streams from contact with said material after it has passed through only one of said beds and commingling the individual streams of reaction products along the vertical axis of the reactor, and removing the reaction products as a single composite stream from the opposite end of the reactor.

2,319,621

COVER FOR GLASS FIXTURE HOLDERS

William McLaughlin, Los Angeles, Calif.

Application November 5, 1941, Serial No. 417,891
1 Claim. (Cl. 240—78)



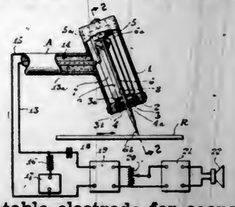
In combination with a glass fixture holder having a mounting means by which it may be tightened toward a surface on which it is to be mounted, and adjustable screws adapted to be tightened toward the rim of a glass fixture to enable the fixture to be mounted thereon, a glass cover for the fixture holder having a rim engageable with said surface and an internal shoulder adapted to be positioned against the back of the fixture holder whereby on tightening the fixture holder toward the surface the cover will have its rim tightened into engagement with said surface and be held thereagainst by the fixture holder, said cover having a flange portion below the shoulder telescopically arranged over the fixture holder, said flanged portion being notched to accommodate the adjustable screws.

2,319,622

PHONOGRAPHIC PICKUP DEVICE

Benjamin F. Miessner, Harding Township, Morris County, N. J., assignor to Miessner Inventions, Inc., Millburn Township, Essex County, N. J., a corporation of New Jersey

Application November 8, 1940, Serial No. 364,807
15 Claims. (Cl. 179—100.41)



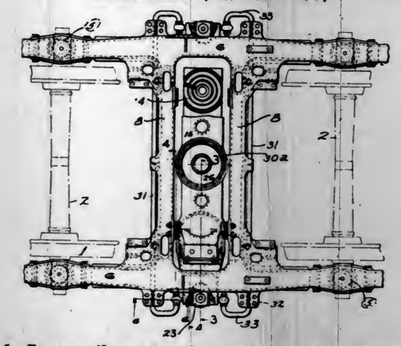
1. A vibratable electrode for cooperation with the stationary electrode of an electrostatic phonographic pick-up device, comprising a record-engaging needle extending into spaced relationship to, and forming an oscillatorily variable capacity with, said stationary electrode.

2,319,623

RAILWAY TRUCK

Karl F. Nystrom, Milwaukee, Wis., Edmund S. Beckette, East St. Louis, Ill., and Vernon L. Green, Milwaukee, Wis.; said Beckette assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application May 6, 1940, Serial No. 333,608
15 Claims. (Cl. 105—190)



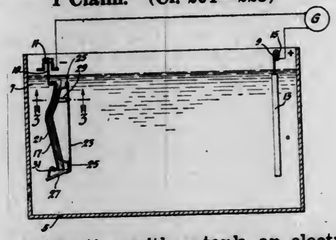
1. In a railway truck, a frame, swing hangers suspended from said frame, springs carried thereby and located inwardly of the sides of said frame, a bolster mounted on said springs with portions extending outwardly of the truck beyond said springs and spaced substantially below said frames, and shock absorbers positioned outwardly of said springs and secured at their opposite ends to the sides of said frame and to said bolster outwardly extending portions respectively.

2,319,624

CURRENT DISTRIBUTING MEANS FOR ELECTROLYTIC PROCESSES

Robert C. Olsen, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application December 24, 1940, Serial No. 371,486
1 Claim. (Cl. 204—228)



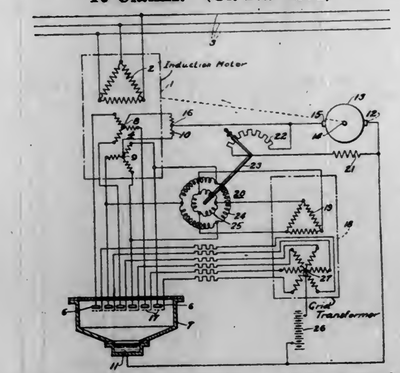
The combination with a tank, an electroplating electrolyte therein, anodes fixedly supported in said electrolyte, work-supporting means arranged to travel through said electrolyte past said anodes and to support irregularly shaped work, and means to cause electric current to flow through said electrolyte between said anodes and said work, of a current-collecting and distributing device spaced from said anodes and unconnected therewith but positioned in the path of said current, said device having a current-collecting part composed of metal other than the plating metal positioned nearer the anodes than the work and a current-distributing part composed of plating metal positioned nearer the work and conforming in contour to the contour of irregularities of the work throughout substantially the entire area of the irregularities, and means for insulatingly supporting said device fixedly upon the work so as to travel therewith.

2,319,625

VARIABLE SPEED MOTOR SYSTEM

John K. Ostrander, Philadelphia, Pa.

Application August 28, 1937, Serial No. 161,407
10 Claims. (Cl. 172—274)



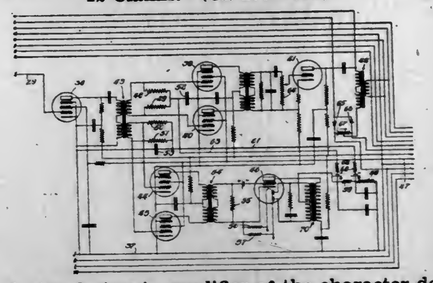
4. A variable speed motor system comprising a wound rotor induction motor, a direct-current motor in driving connection therewith, circuit means interconnecting the rotor winding of said induction motor with said direct-current motor, a valve type converter interposed in said circuit means, control electrodes associated with said converter, a control circuit for applying potentials from said rotor winding to said control electrodes, an impedance network interposed in said control circuit for determining the phase relation of the control potentials applied to said control electrodes, said network being adjustable to control the speed of said induction motor, a plurality of exciting windings in said direct-current motor, at least one of said exciting windings being adjustable to vary the speed of said direct current motor, and means for simultaneously adjusting said exciting winding with adjustment of said impedance network.

2,319,626

SIGNAL CONTROLLED AMPLIFIER

Le Roy C. Paslay, Chicago, Ill., assignor to National Geophysical Company, a corporation of Delaware

Application August 19, 1937, Serial No. 159,994
12 Claims. (Cl. 177—352)



1. An electronic amplifier of the character described adapted to maintain a substantially constant output when the mean signal input thereto varies substantially uni-directionally through a wide range during an interval of time, including: an amplifier having at least two tubes in cascade; means independent of said signal for automatically varying the gain of at least one tube inversely to said input during said interval; and means for varying the gain of at least one succeeding tube by but inversely to said signal variation.

2,319,627

SYSTEM AND APPARATUS FOR SOUND RECEPTION

Sol Perlman, Brooklyn, N. Y., assignor to Hubert J. La Joie, Newark, N. J.

Application December 4, 1940, Serial No. 368,425
10 Claims. (Cl. 179—107)



7. In the method of transmitting to, and receiving sound intelligence by, a person of impaired hearing, the step which comprises utilizing the conductivity of the human body to convey sound intelligence translated at one portion of the body to electrical energy to another portion of the body where it is reconverted into sound intelligence, the point on the body at which the electrical energy is received for reconversion being spaced from the transmitting point on the body and the transmission to such point of the electrical energy being effected solely through the

body, said step being carried out with the body as the only means for conducting electrical energy between the transmitting and receiving points.

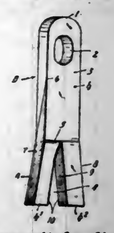
2,319,628
BURNER BASKET
Roy E. Pinniger, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 4, 1940, Serial No. 351,425
2 Claims. (Cl. 220—19)



1. A wire receptacle for burning waste material comprising a body portion consisting of a plurality of substantially vertically extending spaced apart wire members which extend substantially the height of the receptacle and a plurality of substantially horizontally disposed spaced apart annular wire members around which said vertically extending wires are peripherally arranged and to which they are attached and having a bottom portion arranged therewith on which the receptacle is adapted to rest, a plurality of additional vertically extending wire members with one arranged between each of said first-mentioned vertically extending wire members, said last mentioned wire members having their inner and lower ends thereof bent inwardly and converging and being interconnected centrally of the receptacle so as to provide an inverted cone-shaped bottom for the body portion which is spaced from the extreme bottom of the receptacle and which is adapted to support the material deposited therein with the upper and outer ends of the last-mentioned vertically extending wire members extending upwardly along the sides of the body portion and being securely attached to at least some of said annular members.

2,319,629
SHREDDER BLADE
Theodore H. Poese, St. Louis, Mo., assignor to Gruendler Crusher & Pulverizer Co., St. Louis, Mo., a corporation of Missouri
Application May 25, 1942, Serial No. 444,349
1 Claim. (Cl. 83—11)

A reversible shredding-machine blade comprising a body-member generally of oblong-rectangular contour with approximately flat opposite side faces for the major portion of its area and longitudinally slotted for a selected distance from one end and thereby provided with a pair of arms, said arms being oppositely offset for divergingly extending obliquely outwardly with respect to the main portion of the plane of the body-member, the body-member and one arm being continuously from a point disposed approximately midway of the body-member between its opposite end and the offset line of said arm obliquely chamfered along their outer side face and the body-member and the other arm being from said point oppositely obliquely chamfered also along their outer side face and the body-member and said arms being thereby provided with a pair of companion elongated outer marginal cutting edges extending in out-



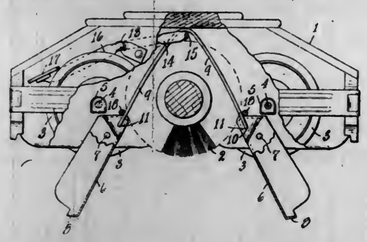
wardly diverging oppositely disposed oblique relation to the body-member, said arms being oppositely chamfered obliquely upon their inner faces and thereby provided with inner marginal cutting edges also extending in diverging relation to the body-member and the edges of each of said pairs being disposed for rotation in different rotary planes, the chamfered inner and outer side faces of each respective arm being approximately parallel and each of said arms with their said chamfered inner and outer faces having the cross-sectional form of a rhomboid.

2,319,630
DEODORIZED SULPHUR-BEARING COMPOSITION
Carl F. Prutton, Cleveland Heights, and Harry E. Johnson, Willoughby, Ohio, assignors to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application December 28, 1939, Serial No. 311,420
2 Claims. (Cl. 252—46)

1. The method of improving a lubricating composition containing a characterizing amount of a sulphur-bearing compound containing odorous organic constituents which comprises adding to such composition a small amount of an aldehyde whereby the latter reacts with and renders inoffensive such odorous sulphur-bearing constituents as may be originally present and produced during storage and use.

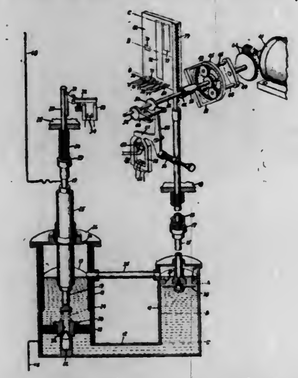
2,319,631
CARPET SWEEPER
Fred W. Pullen, Grand Rapids, Mich., assignor to Bissell Carpet Sweeper Co., Grand Rapids, Mich.
Application March 2, 1942, Serial No. 432,950
2 Claims. (Cl. 15—41)

1. In a carpet sweeper having a case with a centrally disposed longitudinally extending rotary brush and a pair of spaced dustpans extending parallel to the brush and adapted to close the bottom of the case on opposite sides of the brush and pivoted on axes parallel to the axis of the brush with their outer edges adapted to swing downwardly for dumping, stop means to prevent the pans from swinging to a vertical position when they are open whereby in open position the pans are in a slanting position, a spring having its ends biased outwardly and pivotally connected to the pans at points spaced inwardly toward the brush from the axis of pivoting of the pans and so located as to be below the axis of pivoting of the pans when the outer edges of the pans lie at floor level and above the axis



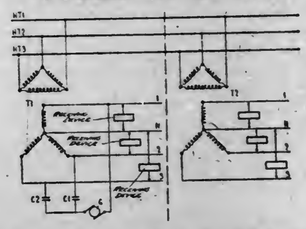
of pivoting of the pans when the pans are open, whereby the spring will close the pans if the sweeper is placed on the floor with the pans open to close them to floor level and will hold the pans in open position when they are open.

2,319,632
RECLOSING CIRCUIT BREAKER SYSTEM
William K. Rankin, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application May 11, 1940, Serial No. 334,596
13 Claims. (Cl. 175—294)



1. In combination, an electric circuit breaker for controlling a power line comprising relatively movable contacts normally biased to closed circuit position, contact operating means having a plurality of operative positions, means operable in response to abnormal conditions in the power line with which the breaker is associated for effecting movement of said contact operating means from a first operative position to a second operative position to open said contacts, means effecting automatic reclosure of said contacts after the first opening thereof, means for returning said operating means to its first operative position if the abnormal condition is removed during the first opening of said breaker, and means for rendering said last mentioned means ineffective if the abnormal condition persists when said contacts are reclosed and permitting said operating means to reopen said contacts by movement of said operating means from said second operative position to a third operative position.

2,319,633
ELECTRICAL SIGNALING SYSTEM
Philip Norton Roseby, Woodvale, and John Francis Mackenzie, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware
Application September 16, 1939, Serial No. 295,210
In Great Britain October 24, 1938
2 Claims. (Cl. 177—352)



1. In an electric supply system, wherein a plurality of low tension networks are supplied with power from a three phase high tension line, a signaling system comprising a single phase high frequency generator, a plurality of control devices connected to one low tension network, said generator connected in series with condensers directly between one of the leads of another of said low tension networks and two of the other leads of said other low tension network in parallel and circuits for operating the control devices of a network including said high frequency current generator, said one low tension network, said high tension supply circuit, the other low tension network, and the control device.

2,319,634
SOFTENER FOR SYNTHETIC RUBBER
Doran E. Sauser, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application June 2 1942, Serial No. 445,481
5 Claims. (Cl. 260—36)

1. A composition of matter comprising a synthetic rubber prepared by the polymerization of a butadiene-1,3, and, as a softener therefor, an aliphatic nitrile containing an open chain of at least ten carbon atoms.

2,319,635
PROCESS OF TREATING STEEL
Wilbur A. Saylor, Bellevue, Pa.
No Drawing. Application September 30, 1941, Serial No. 413,043
4 Claims. (Cl. 75—129)

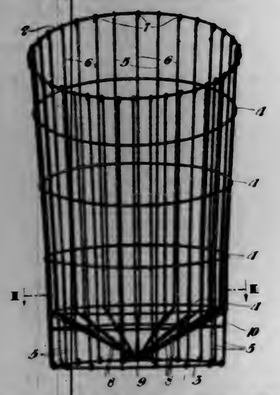
1. The process of treating steel to improve machinability thereof which comprises adding sulphur and nitrogen to molten steel contained in a ladle by incorporating in the steel ammonium sulphate in sufficient quantities to contain approximately 4 times the amount of nitrogen that is to be included in the steel.

2,319,636
OIL BURNER
Reinhold D. Schoenwetter, Clarendon, Va., assignor to Swirling Heat, Inc., Rosslyn, Va., a corporation of Delaware
Application June 11, 1940, Serial No. 339,962
7 Claims. (Cl. 158—28)

1. In an oil burner including an atomizing nozzle, wall means substantially concentric with

body, said step being carried out with the body as the only means for conducting electrical energy between the transmitting and receiving points.

2,319,628
BURNER BASKET
Roy E. Pinniger, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 4, 1940, Serial No. 351,425
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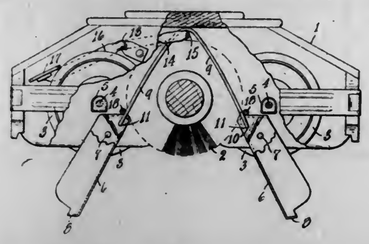
wardly diverging oppositely disposed oblique relation to the body-member, said arms being oppositely chamfered obliquely upon their inner faces and thereby provided with inner marginal cutting edges also extending in diverging relation to the body-member and the edges of each of said pairs being disposed for rotation in different rotary planes, the chamfered inner and outer side faces of each respective arm being approximately parallel and each of said arms with their said chamfered inner and outer faces having the cross-sectional form of a rhomboid.

2,319,630
DEODORIZED SULPHUR-BEARING COMPOSITION
Carl F. Prutton, Cleveland Heights, and Harry E. Johnson, Willoughby, Ohio, assignors to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application December 28, 1939, Serial No. 311,420
2 Claims. (Cl. 252—46)

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2 Claims. (Cl. 15—41)

1. In a carpet sweeper having a case with a centrally disposed longitudinally extending rotary brush and a pair of spaced dustpans extending parallel to the brush and adapted to close the bottom of the case on opposite sides of the brush and pivoted on axes parallel to the axis of the brush with their outer edges adapted to swing downwardly for dumping, stop means to prevent the pans from swinging to a vertical position when they are open whereby in open position the pans are in a slanting position, a spring having its ends biased outwardly and pivotally connected to the pans at points spaced inwardly toward the brush from the axis of pivoting of the pans and so located as to be below the axis of pivoting of the pans when the outer edges of the pans lie at floor level and above the axis

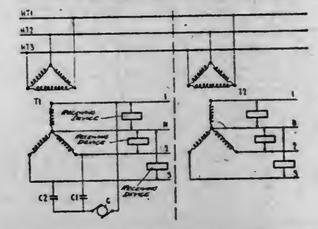


of pivoting of the pans when the pans are open, whereby the spring will close the pans if the sweeper is placed on the floor with the pans open to close them to floor level and will hold the pans in open position when they are open.

2,319,632
RECLOSING CIRCUIT BREAKER SYSTEM
William K. Rankin, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application May 11, 1940, Serial No. 334,596
13 Claims. (Cl. 175—294)

1. In combination, an electric circuit breaker for controlling a power line comprising relatively movable contacts normally biased to closed circuit position, contact operating means having a plurality of operative positions, means operable in response to abnormal conditions in the power line with which the breaker is associated for effecting movement of said contact operating means from a first operative position to a second operative position to open said contacts, means effecting automatic reclosure of said contacts after the first opening thereof, means for returning said operating means to its first operative position if the abnormal condition is removed during the first opening of said breaker, and means for rendering said last mentioned means ineffective if the abnormal condition persists when said contacts are reclosed and permitting said operating means to reopen said contacts by movement of said operating means from said second operative position to a third operative position.

2,319,633
ELECTRICAL SIGNALING SYSTEM
Philip Norton Roseby, Woodvale, and John Francis Mackenzie, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware
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2 Claims. (Cl. 177—352)



1. In an electric supply system, wherein a plurality of low tension networks are supplied with power from a three phase high tension line, a signaling system comprising a single phase high frequency generator, a plurality of control devices connected to one low tension network, said generator connected in series with condensers directly between one of the leads of another of said low tension networks and two of the other leads of said other low tension network in parallel and circuits for operating the control devices of a network including said high frequency current generator, said one low tension network, said high tension supply circuit, the other low tension network, and the control device.

2,319,634
SOFTENER FOR SYNTHETIC RUBBER
Doran E. Sauser, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application June 2 1942, Serial No. 445,481
5 Claims. (Cl. 260—36)

1. A composition of matter comprising a synthetic rubber prepared by the polymerization of a butadiene-1,3, and, as a softener therefor, an aliphatic nitrile containing an open chain of at least ten carbon atoms.

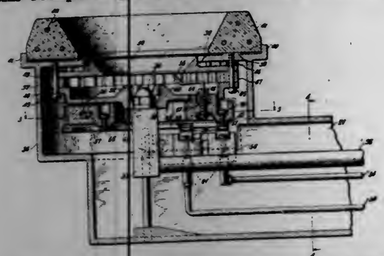
2,319,635
PROCESS OF TREATING STEEL
Wilbur A. Saylor, Bellevue, Pa.
No Drawing. Application September 30, 1941, Serial No. 413,043
4 Claims. (Cl. 75—129)

1. The process of treating steel to improve machinability thereof which comprises adding sulphur and nitrogen to molten steel contained in a ladle by incorporating in the steel ammonium sulphate in sufficient quantities to contain approximately 4 times the amount of nitrogen that is to be included in the steel.

2,319,636
OIL BURNER
Reinhold D. Schoenwetter, Clarendon, Va., assignor to Swirling Heat, Inc., Rosslyn, Va., a corporation of Delaware
Application June 11, 1940, Serial No. 339,962
7 Claims. (Cl. 158—28)

1. In an oil burner including an atomizing nozzle, wall means substantially concentric with

the axis of said nozzle defining a substantially circular burner head, flame shaping means within said wall means defining a generally conical combustion zone opening in the direction of discharge from said nozzle and at least one means to admit air to said combustion zone in a region supplied by the discharge of said nozzle; ignition means comprising a pair of electrodes extending

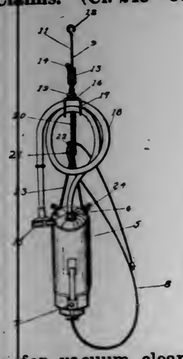


into said combustion zone, a pair of electrical conducting means substantially concentric with the axis of said nozzle disposed within said head on the side of said discharge end of said nozzle remote from said combustion zone and each electrically connected to one of said electrodes, and a means for establishing electrical connection of the control potentials applied to said conmeans and a source of electrical energy.

2,319,637
STARCH PRODUCT AND METHOD OF MAKING
Herman H. Schopmeyer and George E. Felton, Hammond, Ind., assignors to American Maize-Products Company, a corporation of Maine
No Drawing. Application August 2, 1940, Serial No. 350,167
6 Claims. (Cl. 127—33)

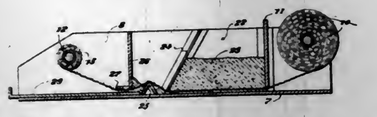
1. In making a thin bodied starch of high adhesive strength and substantial freedom from set-back of its aqueous gel, the method which comprises warming a mixture of waxy maize starch and a dilute aqueous solution of an acid at a temperature above room temperature but not substantially above 140° F. until the starch in the mixture has an alkali fluidity not substantially below 20 or above 96, and then neutralizing the acid.

2,319,638
VACUUM CLEANER SUPPORT
James W. Sheker, Fort Dodge, Iowa
Application September 18, 1941, Serial No. 411,400
4 Claims. (Cl. 248—304)



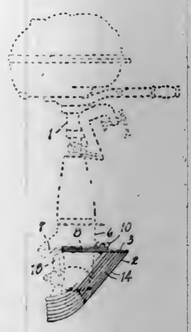
4. A hanger for vacuum cleaners comprising upper and lower detachably united sections, the upper section being provided with horizontally disposed arms terminating in a hose supporting loop and the lower section being provided at its upper end with an angularly disposed loop resting on but freely separable from said arms, the lower end of the lower section being provided with hooks for detachable engagement with the suspension loops of said vacuum cleaner.

2,319,639
BANDAGE APPARATUS
Walter W. Simpson, San Antonio, Tex.
Application April 19, 1940, Serial No. 330,610
5 Claims. (Cl. 91—32)



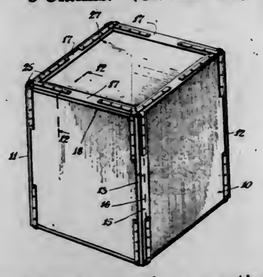
1. Apparatus for applying a coating of powdered material to fabric comprising, a casing, a hopper therein for coating material, means for passing a fabric web through the casing and hopper to receive a load of coating material, tamping means operative in the casing on the upper face of the loaded fabric at a point spaced from said hopper, and means in the casing in pressure engagement with the lower face of the loaded fabric intermediate the tamping means and the hopper, for collecting coating material which has passed through the fabric and forcing the same into the fabric from the underside thereof.

2,319,640
PROPELLER GUARD
Burson A. Sink, Benton Harbor, Mich.
Application April 21, 1941, Serial No. 389,532
15 Claims. (Cl. 115—42)



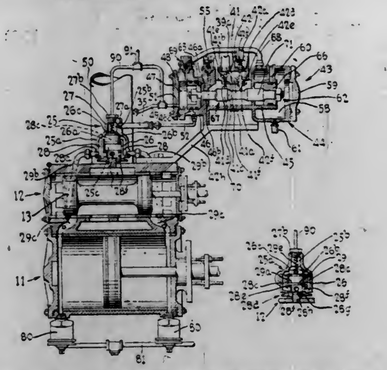
14. The combination with a marine propeller, of a support therefor provided with a cavitation plate disposed above and in operative relation to said propeller, a weed guard comprising a plate-like support member provided with means at the front thereof for mounting on said cavitation plate, and a plurality of guard bars disposed in spaced parallel relation to depend from said support, said bars being of substantial width and spaced and disposed in such relation to the propeller as to constitute a guard therefor and to minimize turbulence in advance of the propeller.

2,319,641
CARTON
Robert Wade Speir, Jr., Richmond, Va., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application April 29, 1941, Serial No. 390,882
3 Claims. (Cl. 229—23)



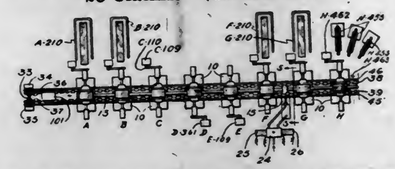
1. A container comprising a continuous square tube body portion having vertical side edges, flaps integral with said body portion, vertical corner battens secured inside each vertical side edge, horizontal end battens secured to said vertical battens, two metal straps secured to said body along each vertical side edge, said straps extending in unfolded position above the end of said body and adapted to fold criss-cross and be secured along the top of said flaps, and means to close the ends of said body.

2,319,642
STEAM CONTROL SYSTEM FOR LOCOMOTIVE CYLINDERS AND STEAM CHESTS
Charles Stern, Jersey City, N. J.
Application September 20, 1941, Serial No. 411,728
10 Claims. (Cl. 121—137)



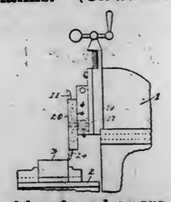
1. In combination with a steam cylinder and a steam chest for said cylinder, a steam balancing valve comprising a casing, a chamber within said casing, pipes connecting said casing with the admission ports of said cylinder, passages interconnecting said pipes with said chamber, said casing being formed with a second chamber, passages within said casing interconnecting the second chamber with the first chamber, means to connect said second chamber with the steam chest, and a plunger within said casing adapted in one position thereof to close said passages to prevent passage of steam between said pipes and also to prevent passage of steam from said first chamber to said pipes and to said second chamber, and in another position thereof being adapted to open said passages to permit flow of steam from said first chamber to said second chamber and steam chest, and from said first chamber to said pipes.

2,319,643
PNEUMATIC TIRE MACHINE
Frank S. Sternad, Cuyahoga Falls, and John P. Sapp, Kent, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 19, 1937, Serial No. 159,906
25 Claims. (Cl. 154—10)



25. Apparatus for building tires, said apparatus comprising a hollow collapsible drum, a plurality of chucking stations each comprising a pair of opposed conical drum-centering members adapted to engage directly the ends of a hollow drum substantially throughout its circumference, and means for conveying the drum from station to station along a path between the drum centering members by engagement of the conveying means with the outer periphery of the drum.

2,319,644
SHAPER TOOL HOLDER
Samuel Strobl, Chicago, Ill.
Application June 25, 1941, Serial No. 399,656
2 Claims. (Cl. 29—48)

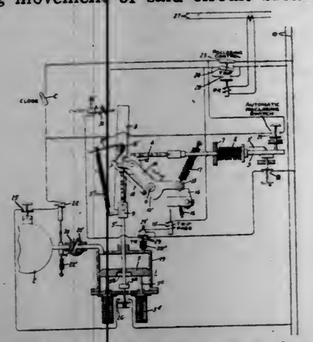


2. In a tool holder for shapers, a base section formed with a central perforation and with longitudinally extending recesses located upon opposite sides of said central perforation, the recesses upon one side of said central perforation being varied as to depth and width, all of said recesses adapted to receive tools, a cover section for said base section, means for securing said sections together in operative relation, a screw connecting said sections together and to the shaper and passing through said central perforation, said sections being movable about said screw through an arc of 180 degrees when free thereon, and a nut upon said screw.

2,319,645
CIRCUIT BREAKER OPERATING SYSTEM
Carl Thumim, Yeadon, Pa., assignor to General Electric Company, a corporation of New York
Application November 29, 1940, Serial No. 367,788
17 Claims. (Cl. 175—294)

1. An automatic reclosing circuit breaker system comprising a fluid motor operable through a working stroke to close the circuit breaker, a source of fluid pressure for operating said motor, means for presetting said motor after a working stroke independently of said circuit breaker

at an intermediate point in said stroke, a control valve for admitting said fluid to said motor, tripping means for said circuit breaker, and means operative in response to predetermined opening movement of said circuit breaker upon



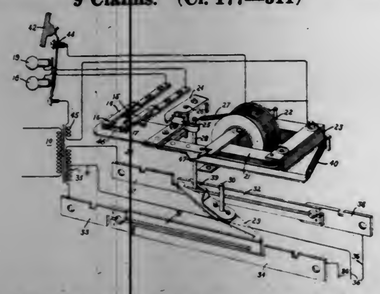
actuation of said tripping means for opening said valve and causing reversal of movement of said motor from said intermediate point to reclose said circuit breaker through a partial working stroke prior to completion of the opening stroke thereof.

2,319,646

TRANSFORMER LOAD INDICATOR

Edward D. Treanor, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application September 28, 1939, Serial No. 296,959
9 Claims. (Cl. 177—311)



1. A transformer load indicating device comprising a signal means, control means for said signal means, an actuator for said control means, stepped releasing means for said actuator, means responsive to the transformer load condition for actuating said stepped releasing means, a housing for said signal means including a cover, means responsive to the opening of said cover for resetting said actuator and operative to move said signal control means to an operative position for causing an indication of the operative condition of said signal means.

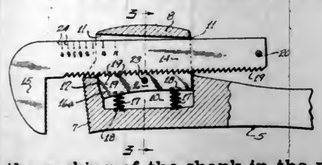
2,319,647

QUICK ACTION PIPE WRENCH

George P. Vautrot, Leavenworth, Kans.

Application March 19, 1942, Serial No. 435,316
2 Claims. (Cl. 81—100)

1. In a wrench of the kind described, an elongated handle, a flattened head on the forward end of the handle, the lower portion of the forward margin of the head being inclined rearwardly and serrated to provide a fixed rear jaw and the upper portion thereof being offset upwardly to provide a shank carrier, the forward end of the offset portion being retracted relative to the face of said jaw, there being a flattened, elongated follower block chamber formed within the head aligned with the axis of the handle and opening out forwardly and rearwardly through the ends of the offset shank carrier portion to provide guide ways, the inner face of the forward end of said chamber being concaved on the plane of the head, immediately below the forward guide-way of the shank carrier, a frontal jaw shank slidably extended through the shank carrier and guide-ways thereof, and dimensioned relative to the depth of the guideways so as to



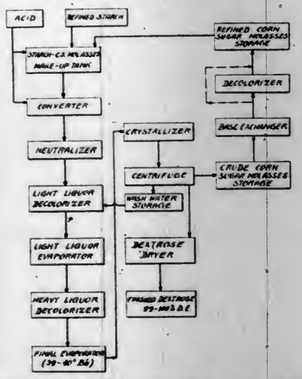
permit the rocking of the shank in the plane of the head, a jaw offset on the forward end of said shank in operative alignment with the fixed jaw of the head and serrated on its inner face, an elongated follower block seated freely within the follower block chamber immediately below the inserted shank, the forward end thereof being convexed complementally to and slidably seated in the concavity at the forward end of the chamber of the head, means for resiliently urging the follower block upward against the said frontal jaw shank, intermeshing teeth formed on the meeting faces of follower block and shank, and means for releasing the follower block and teeth thereof from engagement with the teeth of the said frontal jaw shank.

2,319,648

PROCESS OF MAKING DEXTROSE

James F. Walsh, Yonkers, N. Y., and James Dudicker, Hammond, Ind., assignors to American Maize-Products Company, a corporation of Maine

Application September 25, 1940, Serial No. 358,272
5 Claims. (Cl. 127—40)



2. The method of converting corn starch substantially completely to crystallized dextrose which comprises converting the starch to dextrose and other products by hydrolysis in the presence of water and acid, treating the resulting conversion syrup with an alkali to increase the pH and coagulate proteins and other coagulable substances, the said acid and alkali used being ones that

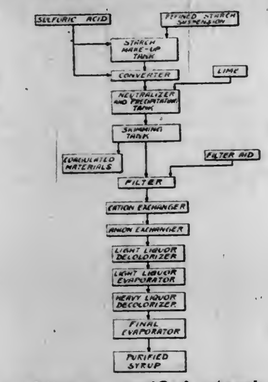
on reaction with each other give only a salt that is soluble in water, removing the coagulated material, decolorizing and concentrating the remaining liquor so as to give concentrated refined syrup, crystallizing dextrose from the concentrated syrup, separating mother liquor as crude molasses from the crystallized dextrose, treating the separated molasses with a base exchanger adapted to remove metals from an aqueous solution of salts of the metals and replace the said metals by hydrogen, so as to effect reduction of the content of metals in the molasses, separating the base exchanger from the treated molasses, mixing the treated molasses with fresh starch suspension, and repeating the aforesaid sequence of steps beginning with converting the starch, the removal of metals by the exchanger serving to improve the conversion of the molasses to dextrose.

2,319,649

METHOD OF MAKING PURIFIED SIRUP

James F. Walsh, Yonkers, N. Y., assignor to American Maize-Products Company, a corporation of Maine

Application November 30, 1940, Serial No. 367,934
2 Claims. (Cl. 127—40)



1. In making a purified starch conversion sirup, the method which comprises converting starch by warming with a dilute aqueous solution of sulfuric acid constituting the only acid present in substantial proportion, treating the resulting solution with lime in amount to establish the pH at approximately 3.5 to 5 and cause coagulation of coagulable material and precipitation of part of the sulfuric acid, separating the coagulated and precipitated materials to form a clarified liquor, treating the clarified liquor with an acid exchanger to remove acid, and then concentrating and decolorizing the treated liquor to form a refined sirup.

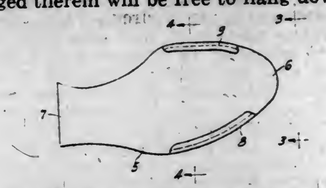
2,319,650

SHOE FORM

Brother E. Walstrom, Buchanan, Mich.

Application January 19, 1942, Serial No. 427,276
2 Claims. (Cl. 12—129.1)

1. A unitary shoe form comprising a planar body portion of rigid material in the general shape of a shoe sole, and integral means on said body portion rising upwardly from the lateral edges of said body portion and forming converging channel-like grooves adapted to engage the edge of the sole of a shoe pressed over said body portion, said means extending only along a portion of the lateral edges of said body portion, whereby the unsupported rear end of a shoe engaged therein will be free to hang downwardly



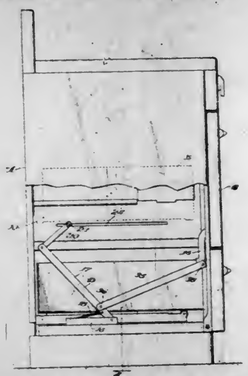
for straightening the vamp portion of said shoe by the depending weight thereof.

2,319,651

OVEN DRAWER AND DOOR MECHANISM

George D. Wilkinson, Oak Park, and Nickolas Sheppel, Chicago, Ill., assignors to Cribben and Sexton Company, Chicago, Ill., a corporation of Illinois

Application October 13, 1939, Serial No. 299,360
9 Claims. (Cl. 126—340)



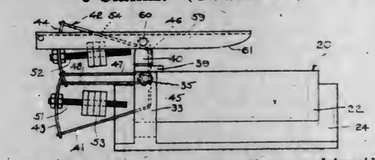
1. In combination with a range compartment, a door normally closing said compartment, a drawer mounted therein for withdrawal independent of the movement of said door, slidable means mounted within said compartment and including a spring latch, means carried by said drawer, adapted to releasably engage said spring latch, and means associated with said door for effecting movement of said slidable means and latch member when the door is opened whereby when the latch is in engagement with the drawer the drawer will be moved by the opening of the door.

2,319,652

DAMPER FOR FURNACES AND THE LIKE

Raymond E. Young, Harvey, Ill.

Application May 21, 1942, Serial No. 443,855
9 Claims. (Cl. 236—45)



1. In a barometric damper the combination of a rectangular frame adapted for attachment to a flue to be served, a rock shaft journalled with respect to one end portion of such frame, a damper blade connected to said rock shaft, a suitable seat in the frame for the edge portion of

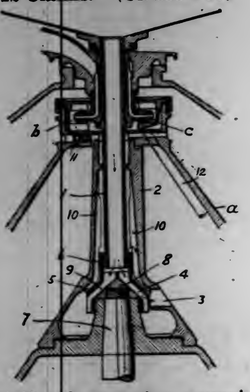
such blade, said seat lying substantially parallel to flue axis, together with means to counterbalance said rock shaft and blade, comprising a pair of frames secured to said rock shaft, each such frame including an arcuate side, a weight supporting arm adjustably connected to such arcuate frame side, means to secure such weight supporting arm in adjusted position, and a weight adjustably mounted on each such weight supporting arm, said weight supporting arms being set at different angular positions on the arcuate frame sides with respect to the plane of the damper blade.

2,319,653

CENTRIFUGAL SEPARATOR

Stig Holger Bjarne Zachariassen, Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey

Application March 28, 1940, Serial No. 326,320
In Sweden April 3, 1939
12 Claims. (Cl. 233—40)



11. A centrifugal separator comprising a stationary central feed tube having a bottom outlet for the material to be separated, a central distributing chamber surrounding the lower part of the feed tube, the lower part of the distributing chamber being enlarged in diameter and extending below the feed tube, a separating chamber surrounding the distributing chamber and having an opening communicating with the enlarged lower end of the distributing chamber below the outlet end of the feed tube, wings in the distributing chamber below the outlet end of the feed tube, said wings extending from the center of rotation and forming between them flow channels extending from below the outlet of the feed tube to about the opening between the distributing chamber and the separating chamber, and a tubular member of circular contour in cross-section in, and spaced from the wall of and rotating with, the distributing chamber and extending above said wings and into which the lower end of said feed tube extends, there being substantially no greater clearance between the tubular member and the feed tube than necessary to prevent contact between them during rotation of the bowl.

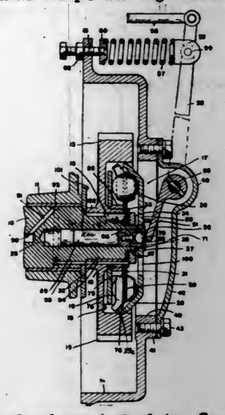
2,319,654

GOVERNOR STRUCTURE

Herman G. Adler, Detroit, Mich., assignor to Novi Equipment Company, Novi, Mich., a corporation of Michigan

Application October 27, 1941, Serial No. 416,760
12 Claims. (Cl. 264—17)

4. In a governor of the type employing a plurality of radially movable balls, a rotary driver therefor comprising a plate structure of generally flat, annular shape having substantially ra-



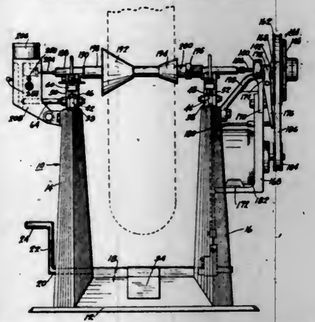
dially arranged, elongated slots, flanges at the sides of said slots forming ball-retaining guides, the outer ends of said slots being closed to prevent removal of balls therefrom.

2,319,655

WHEEL BALANCING APPARATUS

Claude C. Bennett, South Bend, Ind., assignor to A. E. Feragen, Inc., Seattle, Wash., a corporation of Washington

Application June 24, 1939, Serial No. 281,032
2 Claims. (Cl. 73—53)



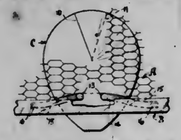
1. A wheel balancing device comprising a pair of spaced pedestals, horizontally disposed rails carried by the pedestals, angularly movable saddle members pivotally mounted on the pedestals, forwardly and rearwardly extending arms carried by the saddle members and positioned to overlie said rails, spaced bearings in the saddle members, a wheel supporting spindle adapted to engage said bearing members, a yoke pivotally mounted on each of the saddle members and positioned to overlie the wheel supporting spindle, means to drive the spindle comprising a shaft aligned with the spindle, universal driving means between said shaft and spindle, a clutch member operably connected to said shaft, a second clutch member concentrically mounted on the shaft and manually movable into engagement with said first mentioned clutch member, power means to rotate said second clutch member, means to disengage the two clutch members and thus release the spindle and wheel for free rotation, an indicator comprising a graduated dial and a rotatable member including a light operably connected for rotation with the spindle, means comprising switches carried by the pedestals and operable by substantially predetermined angular movement of said saddle relative to its associated rail to energize the light, means to vary the resistance to the force developed by dynamic unbalance of a rotating wheel which moves each angularly movable saddle relative to its associated rail to actuate its associated switch to indicate the degree of dynamic unbalance, and manually operable means to selectively interconnect the light with one of said switches.

2,319,656

EAR PROTECTOR FOR HAIR NETS

Elaine Berg, Chicago, Ill.

Application July 18, 1942, Serial No. 451,391
18 Claims. (Cl. 132—49)



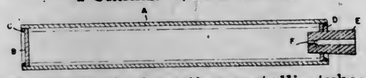
1. In combination with a hair net adapted to be worn on the head, a pair of ear shields for covering and protecting the ears of the wearer, and said shields being supportably connected to marginal portions of the net.

2,319,657

METHOD FOR COATING TUBING

Walter Brown, Hermosa Beach, Calif.

Application January 21, 1941, Serial No. 375,346
4 Claims. (Cl. 117—97)



1. The method of coating metallic tubes with a different metal layer of substantial thickness comprising heating the surface to be coated to a high temperature within a substantially closed cylinder containing a non-oxidizing atmosphere, separately melting the coating metal, opening said cylinder and introducing through said opening a quantity of the molten metal, and spinning the cylinder to distribute the molten metal uniformly over said surface and to solidify the same before contamination occurs.

2,319,658

HAIR CURLER

Armand Caldora, Brooklyn, N. Y.

Application April 1, 1941, Serial No. 386,275
10 Claims. (Cl. 132—33)



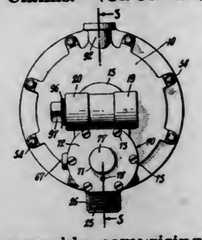
4. A curler construction comprising an elongated core, a finger pivotally mounted thereon and a latch member to hold a coil of hair thereon, said latch having an outside leg and an inside leg and said inside leg passing longitudinally through the said core, said inside leg projecting beyond said core and said outside leg having an enlarged integrally recessed head engaging said projecting portion.

2,319,659

COMBINED PRESSURE REGULATING AND RELIEF VALVE ASSEMBLY

Herman W. Carnes, Indianapolis, Ind., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application August 24, 1940, Serial No. 354,019
4 Claims. (Cl. 50—26)



1. A valve assembly comprising, in combination, a casting formed with an inlet chamber and an outlet chamber communicating with said inlet chamber, said outlet chamber being formed with a trough-like depression in one wall thereof, an opening in its opposite wall, and an opening in the bottom of said depression; means sealing said opening in said opposite wall; a pressure responsive diaphragm sealing said bottom opening; oppositely disposed outlet openings communicating with said depression; and a member bridging said depression adjacent said bottom opening and formed with an outlet passage normally sealed by said diaphragm.

2,319,660

COMPOSITION FOR TREATING PLASTIC MATERIALS

Arthur B. Clark, Burbank, Calif., assignor to Technicolor Motion Picture Corporation, Los Angeles, Hollywood, Calif., a corporation of Maine

No Drawing. Application July 25, 1939, Serial No. 286,407
3 Claims. (Cl. 106—311)

1. A composition for use in the vapor phase treatment at normal temperatures of articles manufactured from cellulose derivatives and the like plastic materials containing volatile plasticizing agents, comprising approximately three parts camphor, ten parts ethyl alcohol, seventeen parts propanol-butanol mixture, eleven parts dimethyl phthalate, and nineteen parts water.

2,319,661

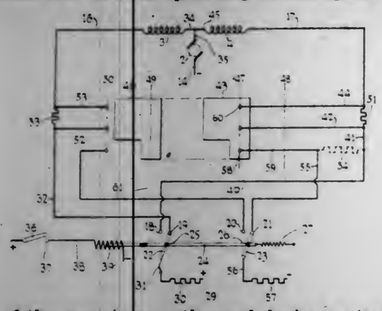
CLOSURE

John W. Conway, Mechanicville, N. Y., assignor to Consolidated Car Heating Company, Inc., Albany, N. Y., a corporation of New York

Application June 29, 1940, Serial No. 343,098
1 Claim. (Cl. 172—239)

A reversing motion device, including in combination: a series electric motor including an armature and opposed field windings each in series with the armature; means including two operating circuits one including the armature and one field winding only, the other including the other field winding and both the armature and the first field winding in series circuits therewith; for causing rotation of said motor in either one of two directions; means including two holding circuits for holding the armature in an operated position each including a source of potential, a resistance, the armature and a field winding; means including a snubbing cir-

cuit for bringing the armature to a standstill; means for causing the armature to rotate slower in one direction than in the other with the same load; means for causing substantially the same current flow in each operating circuit upon stalling of the armature; a thermal device protecting the motor against excess current flow and means for causing substantially the same value of current flow through said thermal device regardless of which operating circuit is operative.



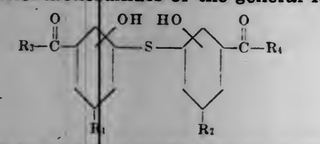
2,319,662

LUBRICATING OILS

Elmer W. Cook, New York, N. Y., and William D. Thomas, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 31, 1941, Serial No. 417,311
7 Claims. (Cl. 252—46)

1. A lubricating oil composition containing a predominating amount of a mineral oil and a compound selected from the group consisting of acyl phenol monosulfides of the general formula



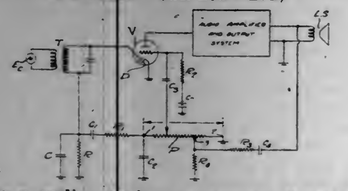
in which R_1 and R_2 are alkyl groups having 1 to 20 carbon atoms and R_3 and R_4 are members of the group consisting of alkyl, aryl, alkoxyalkyl, aroxyalkyl, aralkyl, alkaryl and cycloalkyl radicals and metal salts thereof.

2,319,663

VOLUME CONTROL CIRCUITS

John F. Crowley, Philadelphia, Pa., assignor, by mesne assignments, to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware

Application May 8, 1937, Serial No. 141,536
6 Claims. (Cl. 179—171)



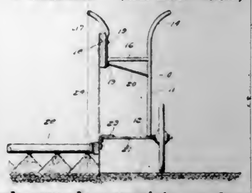
1. In a radio receiver, a source of audio signals, an audio amplifier having an input circuit and an output circuit, a volume control device connected to said source and connecting said input circuit to said output circuit degeneratively for transferring to said input circuit the difference between a portion of the signal in said output circuit and a portion of the signal from said source, said degeneratively connected volume control device including means for varying the said portion of each of said signals in such manner that the degenerative ratio is approximately one when the volume control is adjusted for minimum output level, and said ratio increases to a maximum and then decreases as the volume control is progressively adjusted for higher output levels.

2,319,664

SPLASH GUARD

Henry R. Davis, Coventry, and John B. Foley, Warwick, R. I.

Application March 9, 1942, Serial No. 433,927
2 Claims. (Cl. 160—351)



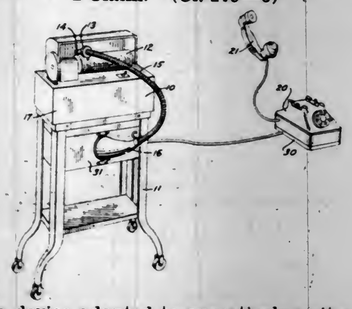
1. A splash guard comprising a frame, a shield vertically mounted on one side of said frame, said frame having an axle extending laterally at right angles to said shield, a wheel rotatably mounted on said axle, the lower edges of said wheel and of said shield being substantially in alignment, said frame having manually graspable means on one end thereof for manual propulsion of the splash guard.

2,319,665

TELEPHONE CONVERSATION RECORDING DEVICE

Milton W. Dobrzensky, Oakland, Calif.

Application September 2, 1941, Serial No. 409,232
1 Claim. (Cl. 179—6)



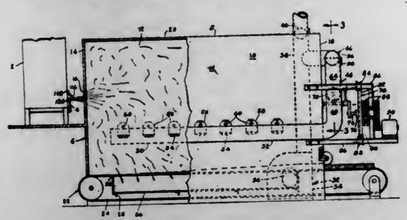
In a device adapted to operatively unit a conventional type of dictating machine to a telephone instrument while permitting normal operation or use of either instrument as a separate unit, the combination of a dictating machine, having a speaking tube, an electrical telephone instrument, a field pick-up located adjacent the latter, an amplifier connected to the output side of the pick-up, a loud speaker connected to said amplifier, a tube end coupling mounted for adjustment to and from the loud speaker for detachably coupling the open end of the speaking tube of said dictating machine adjacent said loud speaker, said coupling including a predetermined air gap surrounding said loud speaker, and means for adjusting the width of the air gap between said coupling and loud speaker.

2,319,666

MEANS FOR AND METHOD OF MANUFACTURING MINERAL WOOL FELTED MATERIALS

Daniel C. Drill, Wabash, Ind., assignor to American Rock Wool Corp., Wabash, Ind., a corporation of Indiana

Application February 14, 1941, Serial No. 378,976
10 Claims. (Cl. 19—156)



1. An apparatus of the character described including a settling chamber having a front wall portion, a rear wall portion provided with a fiber inlet open portion, two side wall portions, and a roof portion, and also having a foraminous continuously movable floor portion at the bottom thereof on which said fibers may be deposited; said blow chamber being also provided with a combined fluid blower and conduit construction which is adapted to withdraw the vapors and gases from said chamber through said floor portion and to feed back alternately a portion of said vapors and gases first through one side of said side wall portions and then through the other of said side wall portions to blow the fibers from each of said side wall portions inwardly and directly over said floor portion to provide an increased deposition of said fibers on the central portion of said movable floor portion.

8. The method of manufacturing mineral wool blankets from a descending stream of molten siliceous material suitable for producing mineral wool fibers, said method comprising shredding said stream into fibers, blowing with a gaseous stream the newly formed fibers into gaseous suspension directly above a moving foraminous surface in the direction of the movement of said surface, subjecting the fibers while above said surface to the action of two oppositely directed gaseous streams moving inwardly over and at substantially right angles to the direction of movement of said surface and withdrawing at least a substantial portion of the gas above said surface downwardly through said surface to force said fibers downwardly upon said surface and each other to form a felted mineral wool blanket.

2,319,667

INHIBITED HYGROSCOPIC SALT SOLUTION

Alvin M. Edmunds, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application June 14, 1941, Serial No. 398,117
11 Claims. (Cl. 23—89)

1. As a composition of matter, a hygroscopic salt solution essentially comprising a halide of at least one of the metals calcium and lithium and having dissolved therein as an inhibitor for retarding corrosion of ferrous metals small proportions of an arsenite and an organic nitrogen base.

2,319,668

HYGROSCOPIC SALT SOLUTION CONTAINING AN ARYL GUANIDINE INHIBITOR

Alvin M. Edmunds, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application June 14, 1941, Serial No. 398,118
8 Claims. (Cl. 23—89)

1. As a composition of matter, a hygroscopic salt solution essentially comprising a halide of at least one of the metals calcium and lithium and having dissolved therein as an inhibitor for retarding corrosion of ferrous metals a small proportion of an aryl guanidine.

2,319,669

PROCESS FOR PREPARING HYDROXYLAMINE HYDROCHLORIDE

Philip J. Ehman and Walter O. Walker, Marinette, Wis., assignors to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin

No Drawing. Application November 24, 1941, Serial No. 420,308
19 Claims. (Cl. 23—87)

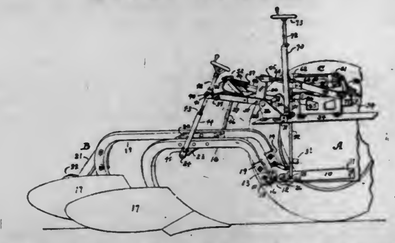
1. A process for preparing hydroxylamine hydrochloride which comprises reacting acetone with a mixture of nitric acid and hydrochloric acid, chlorinating the resulting reaction mixture to produce a solution containing phosgene oxime, heating said solution to boiling until the hydrolysis of phosgene oxime is complete and evaporating the resulting solution at reduced pressure until hydroxylamine hydrochloride crystallizes from the concentrated solution.

2,319,670

DIRECT COUPLED PLOW

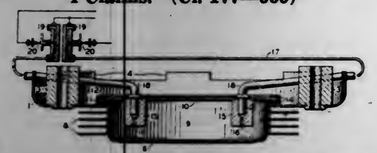
George Ross Ego, Brantford, Ontario, Canada, assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada, a limited company of Canada

Application January 9, 1941, Serial No. 373,730
8 Claims. (Cl. 97—47)



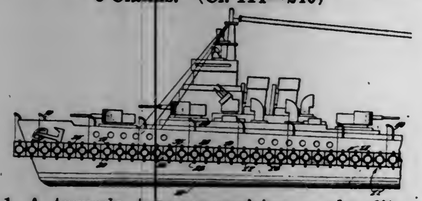
1. A device of the class described, comprising a tractor adapted to pull a plow and having mounted thereon a raising and lowering mechanism, said raising and lowering mechanism having spaced transverse operating connections to said plow midway its length and having means whereby the plow may be tilted sidewise relative to the tractor, a separate connection between the body of said raising and lowering mechanism to the front end of said plow, manually operated means adapted to move said raising and lowering mechanism to thereby define the working position of said plow.

2,319,671
AERO CHAMBER ROSETTE
Francis C. Evans, Dongan Hills, Staten Island, N. Y., and Frank M. Cowan, Plainfield, N. J., assignors to American District Telegraph Company, New York, N. Y., a corporation of New Jersey
Application December 7, 1938, Serial No. 244,394
4 Claims. (Cl. 177—355)



1. In combination, an aero tube protective circuit adapted to detect abrupt changes of temperature within an enclosure and a detector unit connected in said aero tube circuit for detecting temperature changes within a given area comprising a heat collecting means comprising an expansion chamber and means providing a normally open restricted connection between said tubing circuit and said chamber whereby the passage of air from said tubing to said chamber is sufficiently delayed to maintain said tubing operative during temperature changes and in spite of a leak in said chamber.

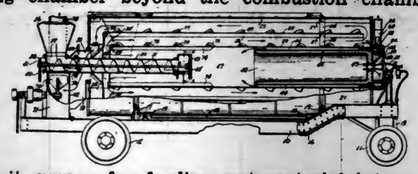
2,319,672
TORPEDO TRAP
Edward Flood, New York, N. Y.
Application January 29, 1942, Serial No. 428,701
6 Claims. (Cl. 114—240)



1. A torpedo trap comprising a plurality of parallel aligned, U-shaped members disposed in vertical planes and having horizontal arms, nets supported by the rear curved portions of said U-shaped members, top and bottom parallel cables interconnected to the ends of the arms of said U-shaped members, vertical members interconnecting the top and bottom arms of the U-shaped members, vertical plungers slidably mounted on said top and bottom cables between said U-shaped members, and horizontal plungers on said vertical members.

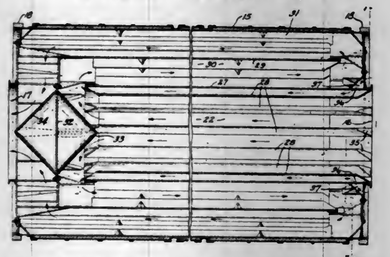
2,319,673
DEHYDRATING APPARATUS
Henry C. French, Elm Grove, Wis., assignor to Arnold Dryer Co., Milwaukee, Wis., a corporation of Wisconsin
Application February 7, 1941, Serial No. 377,798
17 Claims. (Cl. 263—32)

1. In a dehydrating apparatus, a rotatable drying drum, a combustion chamber unit extending into one end of said drum and rotatable therewith, means for delivering hot gases of combustion into said rotatable combustion chamber, said drum having an intermediate mixing chamber into which hot gases of combustion are discharged from the combustion chamber, means including passageways extending adjacent the exterior of the combustion chamber unit for directing gases into said mixing chamber beyond the combustion chamber



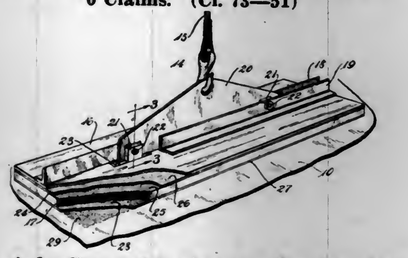
unit, means for feeding wet material into said mixing chamber from the opposite end of said drum to be acted upon by the hot gases therein, and means for discharging dried material.

2,319,674
ROTARY DRIER
Henry C. French, Elm Grove, and Harlow L. Schmidt, Milwaukee, Wis., assignors to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Original application July 3, 1939, Serial No. 282,592. Divided and this application October 11, 1941, Serial No. 414,582
10 Claims. (Cl. 263—32)



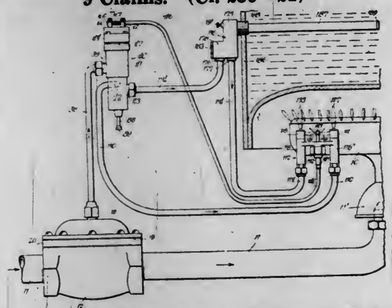
1. In a drier, a rotary drum having a central tubular drying zone open for the admission of material to be treated at one end and terminating axially of a deflecting cone at its opposite end, a series of elongated hollow material agitating flights extending along said zone and being sealed therefrom at the material admission end but being open adjacent said cone, conduit means connecting the sealed ends of said vanes with atmosphere, and means for reducing the pressure in said zone below atmospheric.

2,319,675
LOADING PATCH FOR STRESS-TESTING AIRCRAFT
Hershel W. Grinter, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 20, 1940, Serial No. 346,584
6 Claims. (Cl. 73—51)



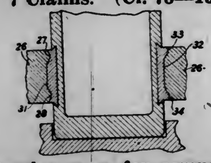
1. A loading patch structure for the stress-testing of aircraft, said patch structure comprising a stiff plate having a concave face conforming approximately to the curvature of the portion of the skin of the aircraft to be tested, and a body of resilient rubber material adhered to the concave face of said plate and having an opposite face adapted to be adhered throughout said face to the skin of the aircraft, said body being of substantially uniform thickness and yieldability throughout the area of said face thereof.

2,319,676
SAFETY SHUTOFF SYSTEM
Stanley S. Guelson, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 9, 1940, Serial No. 334,159
9 Claims. (Cl. 236—21)



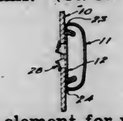
7. In combination, a main burner, a fuel supply pipe leading to said burner, a valve in said pipe, said valve having a diaphragm subject on one side to the pressure of the fuel in said pipe and having a diaphragm chamber on the other side thereof, means for constantly bleeding fuel into said diaphragm chamber from the fuel supply pipe anterior of said valve, a pair of vents for venting said diaphragm chamber, two pilot lights one receiving fuel from one of said vents and the other receiving fuel from the other of said vents, and thermoresponsive means for opening and closing one of said vents. said valve being opened and held open by the pressure of the fuel in said pipe only when both of said vents are open.

2,319,677
HYDRAULIC CIRCULAR PRESS
David Gup, Rochester, N. Y., assignor to The West Tire Setter Company, Rochester, N. Y., a corporation of New York
Application January 17, 1942, Serial No. 427,147
7 Claims. (Cl. 78—15)



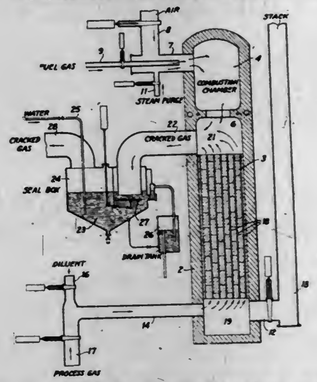
1. In a circular press for compressing a band intervals in any given horizontal plane at each on a cylindrical body including a series of pairs of oppositely arranged radially movable carriers and fluid means for actuating said carriers inwardly, a die mounted on each carrier having its pressure or operative face including band-engaging and radially offset portions whereby one of said portions engages the band in advance of the other, the band-engaging and offset portions on opposite dies being reversely arranged whereby the band is compressed only at spaced operation and two operations are required with the work in different positions to compress all portions of the band.

2,319,678
MOLDING RETAINER
William J. Hall, Detroit, Mich., assignor of one-half to Orley J. Crowe, Detroit, Mich.
Application October 27, 1941, Serial No. 416,663
7 Claims. (Cl. 85—5)



1. An attaching element for molding comprising a base plate having elongated and substantially parallel spaced slits, the metal between said slits being pressed out from one side of the base to form an offset projection connected integrally at its ends to the plate, said offset projection intermediate the slits being provided with a slot extending substantially parallel to the slits whereby the metal at the sides of said slot may be spread apart transversely of the slits.

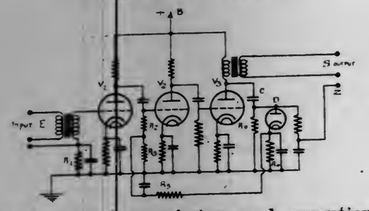
2,319,679
MANUFACTURE OF ACETYLENE BY REGENERATIVE TYPE OF PYROLYSIS
Rudolph Leonard Hasche and William B. Hincke, Kingsport, Tenn., assignors, by mesne assignments, to Wulff Process Company, Los Angeles, Calif., a corporation of California
Application April 27, 1942, Serial No. 440,740
8 Claims. (Cl. 260—679)



1. The process of manufacturing acetylene with regenerative heating and without the application of evacuation for obtaining reduced pressure, which comprises regeneratively storing heat in silicon carbide heating means, said heating means bounding passageways ¼- to ½-inch thick, and several feet long and wide, the thickness of said silicon carbide being not greater than one and one-half inches, the ratio of thickness of passageways to refractory thickness being from 1:3 to 1:6, the ratio of the surface of the passageways expressed in square feet to the volume thereof expressed in cubic feet being greater than 30, then after said heat storing, substantially immediately passing hydrocarbon and diluent through said passageways at between 5 to 30 pounds of hydrocarbon and diluent per min-

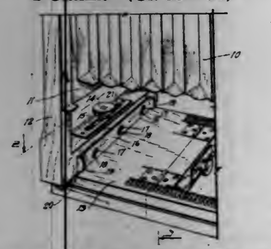
ute per cubic foot of passageway, liberating heat from the heating means to the hydrocarbon and diluent to heat same to a temperature greater than 1100° C. in a fraction of a second, and cause the formation of acetylene, the heat storing being applied for a period of time greater than the heat liberation.

2,319,680
SIMULTANEOUS TRANSMITTING AND RECEIVING SYSTEM WITH ELECTRONIC CHANGE-OVER DEVICE
Werner Hasenberg, Rio de Janeiro, Brazil
Application January 22, 1941, Serial No. 375,492
In Brazil December 2, 1940
1 Claim. (Cl. 179—1)



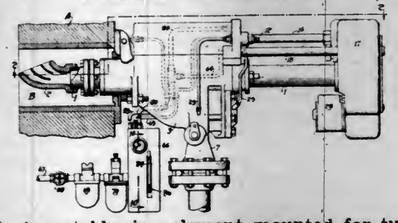
A system of transmission and reception of sound consisting of, two channels of opposite direction, each channel comprising a microphone and a loudspeaker and an electronic device self-contained with amplifying means operating as A-type amplifiers and control means for the mutual control of the gain in either channel so as to reduce the gain in its own channel when a direct current potential is impressed and produce a rectified direct current potential when sound energy is transmitted through the channel, both means providing that the overall gain in the two channels is kept below the level of self-oscillation due to acoustic feed-back in the absence and presence of actual transmission, an outlet for the control potential which is to act on the opposite channel, and an inlet grounded for alternating current but receptive for a direct current potential to be applied from outside.

2,319,681
LENS BOARD LOCK FOR CAMERAS
William W. Heckethorn, Littleton, Colo.
Application November 8, 1941, Serial No. 418,309
1 Claim. (Cl. 95—50)



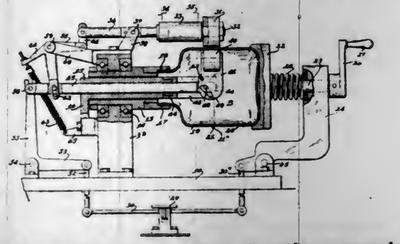
A guiding and locking device for cameras of the type having a pivoted, laterally movable lens board frame mounted on a track board comprising: a plate resting in a channel cut across the upper surface of said track board in alignment with the rear face of said frame, said channel having a width equalling the thickness of said plate to prevent sideward movement of the latter; and means for lifting said plate from said channel when desired.

2,319,682
SOOT BLOWER
De Los E. Hibner, Du Bois, and Fred C. Arey, Freeport, Pa., assignors to Vulcan Soot Blower Corporation, a corporation of Pennsylvania
Application August 14, 1940, Serial No. 352,528
9 Claims. (Cl. 122—392)



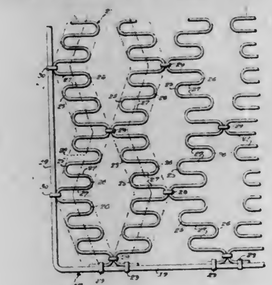
1. A soot blowing element mounted for turning movements and also for lengthwise movements between a working position and an idle position, a motor to move the said element lengthwise, a second motor to turn said element, an automatic reversing device for said second motor, a controller having a movable member in one position of which the first motor is caused to move said element into its working position and in a second position of which that motor is caused to return said element to its idle position and said second motor is caused to stop, and means controlled by said element while in its working position to cause said member to assume its said second position after said element has turned through a predetermined angle.

2,319,683
APPARATUS FOR UNITING PARTS OF THERMOPLASTIC ARTICLES
Victor E. Hofmann, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application August 21, 1941, Serial No. 407,770
11 Claims. (Cl. 18—11)



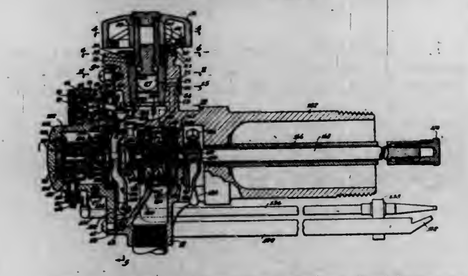
10. Apparatus for welding together complementary sections of a hollow article made of thermoplastic material, said apparatus comprising a holder for an open ended section of the article, said holder mounted for rotation, a backing roll, an arm carrying said roll and adapted to enter said open ended section, said arm mounted to swing from an operative position in which the roll is held in contact with the inner surface of the section attached to said holder, to a position to permit the said section to pass thereover, a heating roll mounted to swing into and out of engagement with the outer surface of the article at a point opposite the backing roll, a second holder adapted to engage the other section of the article and hold said sections together, means for moving said second holder to and from a holding position, and interconnected mechanism between said second holder and said rolls by which the latter are moved to and from engagement with the article concomitantly with the movement of said second holder to and from its holding position.

2,319,684
SPRING CONSTRUCTION
Frank J. Horton, Detroit, Mich., assignor to F. L. Jacobs Company, Detroit, Mich., a corporation of Michigan
Application May 17, 1941, Serial No. 393,913
4 Claims. (Cl. 155—179)



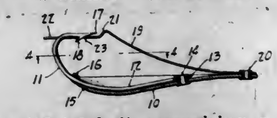
1. A longitudinal spring element preformed into zig-zag configuration along a zig-zag axial line, said element comprising a single sinuously bent wire having curved portions alternately arranged on opposite sides of said axial line and tangent to zig-zag lines on opposite sides of said axial line and substantially parallel thereto, the alternate curved portions being joined by parallel straight portions oblique to said axial line.

2,319,685
SAFETY CONTROL FOR GASEOUS FUEL BURNERS
Wilbur F. Jackson, Lynwood, and Thomas H. Jeffers, Los Angeles, Calif., assignors to Grayson Heat Control, Ltd., Lynwood, Calif., a corporation of California
Application May 14, 1941, Serial No. 393,397
12 Claims. (Cl. 236—21)



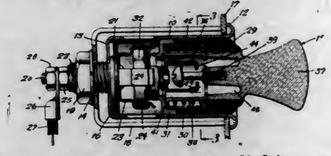
1. In a safety control for gaseous fuel burners, the combination of rotatable means for controlling the supply of fuel to the burner, a thermostatic valve for regulating the supply of fuel to said burner, thermostat means for adjusting said valve between open and closed positions to maintain selected temperatures, means movable from active to inactive position for causing movement of said thermostatic valve from open to closed position regardless of the condition of said thermostat, and means operable upon rotation of said controlling means for actuating said valve closing means to active position to permit thermostatic control of the thermostatic valve.

2,319,686
ARTIFICIAL BAIT
Maximillian P. Janisch, Milwaukee, Wis.
Application June 9, 1941, Serial No. 397,178
2 Claims. (Cl. 43—39)



1. An artificial bait comprising a spoon like body portion, a fish hook carried thereby, said hook having a forwardly projecting point offset from said body portion adjacent the rear thereof, and a depressable weed guard having one end attached to said body portion and another portion normally disposed adjacent said point to protect the latter from weeds and the like, said last named portion having guide fingers longitudinally extended into coacting relation with the body of said hook to prevent lateral displacement thereof relative to said hook when said last named portion is depressed from said point.

2,319,687
CIGAR LIGHTER
Arthur A. Johnson, Bridgeport, Conn., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut
Application October 11, 1940, Serial No. 360,714
15 Claims. (Cl. 219—32)



4. In a wireless type cigar lighter, a holding device; an igniting unit mounted thereon and adapted to be completely manually withdrawn and separated therefrom for use; a heating element carried by the igniting unit; means for yieldingly retaining said igniting unit in the holding device; a circuit for energizing said heating element; switch means carried by said igniting unit and forming a part of said circuit; and means for urging said switch to an open-circuit position, said switch being closed incident only to a pulling force exerted on said igniting unit in the direction necessary to withdraw and separate the same from said holding device, the force necessary to close the circuit being less than that required to overcome the yieldable retaining means, said urging means being continuously operative to return said switch to the open-circuit position upon cessation of the pulling force before complete manual withdrawal of said igniting unit.

2,319,688
ENGINE STARTER
Burr W. Jones, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 9, 1941, Serial No. 401,609
2 Claims. (Cl. 74—7)

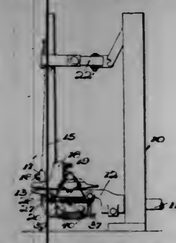
1. In an engine starter drive a power shaft having a smooth reduced portion forming a thrust shoulder, a further reduced smooth portion providing a second shoulder, and a terminal portion with driving flats formed thereon, a shaft exteriorly threaded throughout its length

counter-bored at one end to bear on the further reduced portion of the power shaft and broached at the other end to fit the flatted section thereof, thrust means holding the threaded shaft on the power shaft with the top of its threads flush with the surface of the first reduced portion of



the power shaft, a flanged pinion journalled on the threaded shaft and the first reduced portion of the power shaft, a flanged nut on the threaded shaft, a block of elastically deformable material seated on the nut between the flanges. said thrust means serving also as an abutment to define the idle position of the nut on the threaded shaft.

2,319,689
CHECK FOR PICKER STICKS
John W. Jones, Greenville, S. C., assignor to Harriett K. Bellwood, Greenville, S. C.
Application September 24, 1942, Serial No. 459,549
7 Claims. (Cl. 139—150)



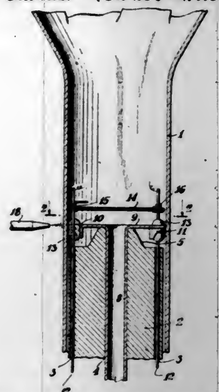
1. A picker stick check for a loom having a picker stick, a shoe secured to the picker stick and an oscillating stand, said check including a lower unit mounted upon the oscillating stand and including spaced bumpers, an upper unit mounted upon the shoe and including resilient devices engaging the bumpers.

2,319,690
CUSHION
Martin S. Karpen, Chicago, Ill.
Application September 30, 1940, Serial No. 359,141
3 Claims. (Cl. 155—179)



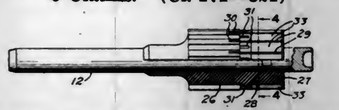
3. A cushion of the character described comprising a continuous and integral resilient foam rubber body equipped with a recess in the upper surface thereof, said recess being in the shape of a substantially elliptical endless channel, and a resilient ring insert of foam rubber of a higher density than said body, said insert being of a shape to conform to the shape of said channel and being received within said channel, the upper surface of said insert being aligned with the upper surface of said body adjacent thereto to provide a smooth, flat, top surface for said cushion.

2,319,691
CATHODE RAY TUBE AND PROCESS
Stanley J. Koch, Clifton, and Robert E. Rutherford, Rutherford, N. J., assignors to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application May 29, 1942, Serial No. 444,961
14 Claims. (Cl. 250—27.5)



1. In the process of producing a cathode ray tube, the steps which comprise introducing into the neck of a glass tube an exhaust tubulation having a flange with a serrated edge and having electric conductors in the serrations and applying sufficient heat to said neck and flange to fuse them together.

2,319,692
COMMUTATOR
Alfred C. Korte, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application August 3, 1942, Serial No. 453,324
9 Claims. (Cl. 171—321)



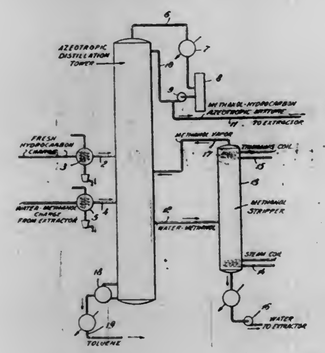
1. A commutator comprising an annular brush engaging portion of metal having relatively high conductivity, separately formed pieces of harder material secured to the edges of said annular portion and extending inwardly therefrom, and supporting body structure of insulating material closely fitting the interior of said annular portion and secured therein by said pieces.

2,319,693
SOCKET
Eugene R. Kulka, Mount Vernon, N. Y.
Application June 8, 1942, Serial No. 446,188
4 Claims. (Cl. 173—328)



1. A socket having a body which is made of insulating material and which is adapted to connect two parallel adjacent end-prongs of an electrical device to the respective terminals of a power circuit, said body having a front-wall and an edge-wall, said edge-wall having an edge-wall-recess, said front-wall having a front-wall-recess which is continuous with said edge-wall-recess, said body having a partition rib which divides said front-wall-recess into two sub-recesses, said body having a contact spring at each side of said partition rib, said contact springs being separated from each other, each said contact spring having a portion which is adjacent to and which is spaced from said partition rib, the respective spaces between said partition rib and said portions being shaped to receive respective prongs which are in contact with said respective contact springs, said body having a projection which is located in said front-wall-recess and which is spaced from the tip of said partition rib, the space between said projection and said tip being greater than the width of a single end-prong, said space between said projection and said tip being less than the distance between a pair of said end-prongs.

2,319,694
SEPARATION OF HYDROCARBONS
Russell Lee, Wenonah, and Herbert K. Holm, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application February 6, 1941, Serial No. 377,620
2 Claims. (Cl. 202—42)



2. That method for the separation of toluene from a mixture containing toluene and non-aromatic hydrocarbons of substantially similar boiling point comprising heating and feeding the hydrocarbon mixture to a fractionating column at a point between the ends thereof, feeding a heated water-methanol mixture to the column at a point adjacent to and below the hydrocarbon feed, withdrawing a second water-methanol mixture as a side stream from the column at a point below the water-methanol feed, distilling said side stream to separate methanol vapor from water, returning methanol vapor to the said column at a point below the mixed hydrocarbon feed, withdrawing toluene from the said column at the bottom of the exhausting section thereof, withdrawing a constant boiling mixture of methanol and non-aromatic hydrocarbons from the top of said column, condensing said mixture and adding water thereto to extract methanol therefrom and returning the aqueous methanol so formed to the said column as the total water-methanol feed thereof.

2,319,695
SODIUM FERRICYANIDE WITH $2H_2O$
Urner Liddel, Greenwich, Conn., assignor to American Cyanamid Co., New York, N. Y., a corporation of Maine
No Drawing. Application October 2, 1940, Serial No. 359,341
1 Claim. (Cl. 23—77)

The method of producing dry, non-deliquescent $Na_3Fe(CN)_6.2H_2O$ which comprises cooling a reasonably pure sodium ferricyanide solution to a temperature lower than about —10° C. whereby sodium ferricyanide crystals containing substantially sixteen molecules of water of crystallization are obtained, filtering off said polyhydrate crystals and warming them to from about 12° C. to about 40° C. in order to evaporate the excess water of crystallization.

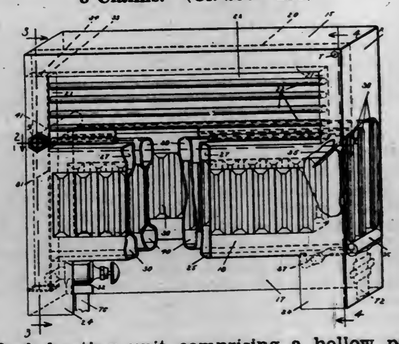
2,319,696
DEHYDROABIETIC ACID DERIVATIVE
Edwin R. Littmann, Westfield, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application September 29, 1938, Serial No. 232,315. Divided and this application March 14, 1941, Serial No. 383,366
8 Claims. (Cl. 260—97)

5. As a new composition of matter, a diazotized material selected from the group consisting of diazotized amino dehydroabietic acid and diazotized amino dehydroabietic acid esters coupled to an aromatic coupling compound selected from the group consisting of benzene and naphthalene coupling compounds.

2,319,697
CHEMICAL MANUFACTURE
James Douglas MacMahon, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application June 24, 1939, Serial No. 281,049
10 Claims. (Cl. 252—187)

1. An improved product for forming aqueous solutions containing calcium ions and hypochlorite ions, comprising a calcium hypochlorite and, in intimate association therewith, sodium tetra phosphate in proportion approximating 0.5%–20% by weight on the calcium hypochlorite.

2,319,698
HEATING DEVICE
Walter L. Mayne, Cincinnati, Ohio
Application October 3, 1938, Serial No. 232,951
8 Claims. (Cl. 257—136)



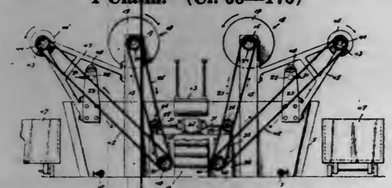
2. A heating unit comprising a hollow panel

adapted to serve as a closure for a wall recess, a plurality of convector units disposed in spaced parallel relation behind said hollow panel, a supply header having open and free communication with the upper part of said hollow panel and further having restricted communication with each of said convector units, said supply header connectible to a source of fluid-heating medium, the hollow panel receiving a circulating supply of fluid heating medium under substantially all conditions of its connected source, said convector units being inoperative when the pressure of the source is insufficient to pass the fluid heating medium through the restricted communication from the supply header.

2,319,699

APPARATUS FOR THE TREATMENT OF FABRICS

Luigi Migliaccio, Paterson, N. J.
Application April 1, 1942, Serial No. 437,255
1 Claim. (Cl. 68—176)



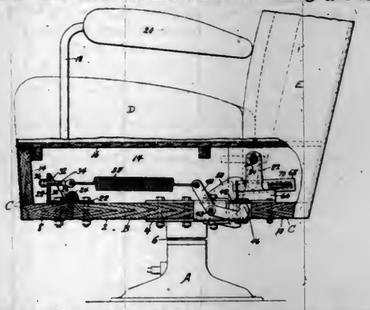
In a fabric treating apparatus, a liquid containing vat, a reel located above the vat and supporting fabric with the ends thereof detachably connected together and with draping runs for movement through the liquid of the vat during rotation of the reel, standards secured to the vat and rotatably supporting the reel, guide means for the runs of the fabric and located laterally of and in a plane below the reel and above said vat, standards secured to the vat and supporting said means, substantially V-shaped brackets having the ends thereof secured to the standards with the apexes thereof located laterally of the reel and one end of the vat and in a plane above and laterally of said guide means, a fabric takeoff roller journaled on the apexes of the brackets for feeding the fabric from the vat and the reel and out of engagement of said guide means when said ends of the fabric have been detached and one end placed over and in engagement with said roller, and a power operated drive means connected to the reel and the roller for rotating said reel and roller in opposite directions to each other.

2,319,700

RECLINING SEAT MECHANISM

Harry Miller and Julius Schlenther, St. Charles, Mo., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 18, 1939, Serial No. 305,078
5 Claims. (Cl. 155—116)

2. A reclining seat comprising in combination, a seat base carried by a supporting pedestal structure, an inverted box-like seat frame having a cushion resting on the upper panel thereof, a seat back rigidly attached to the seat frame, pivot means supporting one side of said box-like seat frame upon the seat base for reclining movement of the seat frame and attached seat back, counterbalance means including a bell-crank secured to said seat base for movably supporting the other side of said seat frame on the seat base for movement relative thereto, and latch means secured to said seat frame and seat base to retain said frame in a plurality of predetermined positions, said latch means being housed within said box-like seat frame and including a sliding

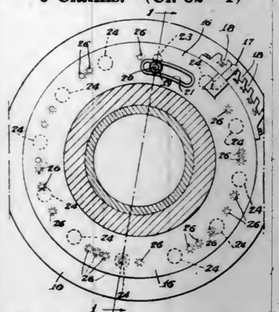


bolt carried by said seat frame and engageable in openings formed in a latch plate secured to said seat base and projecting into said box-like seat frame.

2,319,701

STAR FEED FOR MACHINE TOOLS

William R. Miller, Philadelphia, Pa., assignor to Wm. Sellers & Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application July 25, 1942, Serial No. 452,365
6 Claims. (Cl. 82—1)



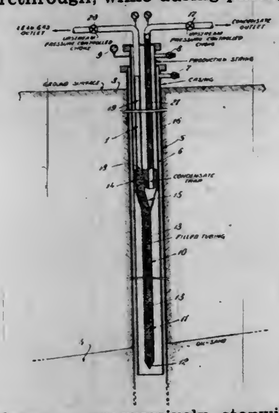
1. In a star feed of the type described, relatively rotatable structures, one including a feed shaft and a star wheel actuator therefor, the other structure comprising a pin plate having a circular series of circumferentially spaced extensible pins for engagement with the teeth of the star wheel, spring means normally maintaining said pins in inoperative position, means for extending selected groups of said pins comprising a cam plate associated with said pin plate and having a circular series of lobes for coaction with said pins, and means to relatively adjust said pin and cam plates.

2,319,702

METHOD AND APPARATUS FOR PRODUCING OIL WELLS

Charles A. Moon, New York, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application April 4, 1941, Serial No. 386,755
5 Claims. (Cl. 166—2)

1. The method of producing an oil well which comprises, passing the homogeneous fluid mixture as withdrawn from the producing formation, substantially at formation pressure and without prior substantial separation of constituents thereof, into and through a closed upwardly extending column filled with a continuous body of porous permeable material, said column being located within the well, the column being of sufficient length to bring about separation of the constituents of the fluid mixture upon complete passage therethrough, while during passage through

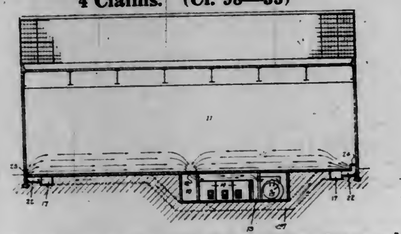


said column a progressively stepwise pressure drop occurs without substantial simultaneous separation of gas phase from oil phase, thereby maintaining a gas-lift effect within the column while separate withdrawal of gas and liquid phases may be effected at the egress opening thereof.

2,319,703

METHOD OF HEATING AND VENTILATING

Arthur A. Olson, Youngstown, Ohio
Application December 17, 1938, Serial No. 246,343
4 Claims. (Cl. 98—33)



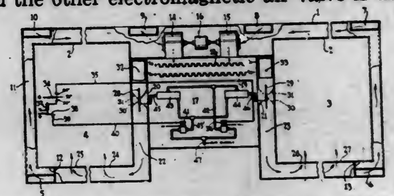
1. A heating and ventilating system for a relatively large enclosure comprising a tunnel extending substantially centrally beneath the floor of the enclosure, a series of grills between said tunnel and enclosure, an air heating furnace, ducts positioned beneath said floor and extending outwardly to positions adjacent the outer wall of said enclosure, means in said floor providing communication between the enclosure and said ducts, and air circulating means adapted to withdraw return air from said tunnel and propel the same through said furnace and ducts.

2,319,704

HEATING

Robert J. Parsons, Schenectady, N. Y., assignor to Consolidated Car Heating Company, Inc., Albany, N. Y., a corporation of New York
Application June 7, 1940, Serial No. 339,318
1 Claim. (Cl. 236—84)

In a heating system, in combinaiton: a thermostat having two extreme positions and an intermediate position; two electromagnetic air valves; a relay including an armature; means whereby when the thermostatic element is in one extreme position one of the air valves is energized electrically, and means whereby when the thermostatic element is in the other extreme position the said relay is energized, its armature raised and the other electromagnetic air valve is deen-



ergized and whereby when the thermostatic element is in the intermediate position the said relay is de-energized, its armature lowered and the said last named electromagnetic air valve is energized; and a damper operating motor controlled by said air valves.

2,319,705

DRILLING MUD

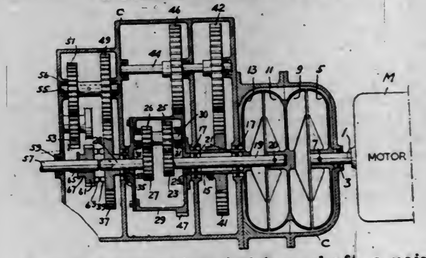
Earl E. Post, Pomona, and Charles F. Bonnet, Monrovia, Calif., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 27, 1941, Serial No. 385,462
4 Claims. (Cl. 252—8.5)

2. An aqueous mud dispersion having improved wall-building properties for oil and gas wells comprising clay and pectate pulp.

2,319,706

FLUID-DRIVE POWER TRANSMISSION

Walter Reit, Philadelphia, Pa.
Application August 2, 1941, Serial No. 405,268
4 Claims. (Cl. 74—189.5)



1. In a transmission, a driven shaft, a pair of transmission trains for driving said shaft, one of said trains including a planetary carrier for gears included in the other of said trains, said carrier being free to rotate in either direction with relation to said driven shaft and a fluid drive for said trains comprising an impeller, a propeller-impeller unit driven thereby and driving the last-named train, and a second propeller driven by the impeller of the propeller-impeller unit and driving the first-named train.

2,319,707

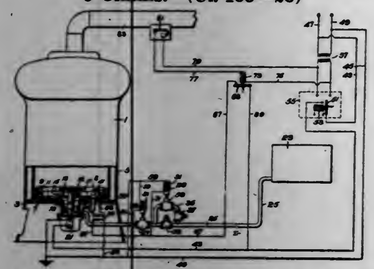
PRODUCTION OF ALIPHATIC DIHYDRIC ALCOHOLS

Walter Reppe, Willi Schmidt, Alfred Schulz, and Hans Wenderlein, Ludwigsafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 4, 1939, Serial No. 265,970. In Germany April 16, 1938
7 Claims. (Cl. 260—635)

1. The production of aliphatic dihydric alco-

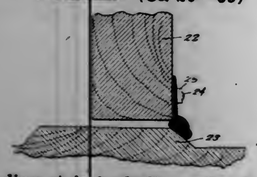
hols which comprises continuously leading a butin-2-diol-1.4 in the liquid phase together with an excess of hydrogen at temperatures between 15 and 200° C. over a hydrogenation catalyst selected from the group consisting of nickel and cobalt applied to a carrier.

2,319,708
OIL BURNER
George C. Smith and John E. Carlberg, Hartford, Conn., assignors to The Silent Glow Oil Burner Corporation, Hartford, Conn., a corporation of Connecticut
Application October 23, 1941, Serial No. 416,226
9 Claims. (Cl. 158—28)



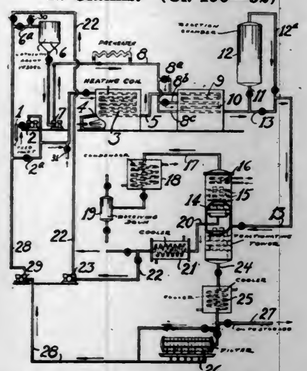
7. In an oil burner of the type having an electric motor operated means for discharging oil into a combustion chamber and ignition means for the oil, means including a stop valve and a metering valve for establishing and interrupting a normal flow of oil to said electric motor operated means from a source of oil supply, means including a second stop valve and a second metering valve for establishing and interrupting an extra flow of oil to said electric motor operated means from a source of oil supply, and electrically controlled means for said stop valves operative to open both automatically upon the motor being placed in operation for establishing said normal and extra flow of oil during the starting period of the burner, which electrically controlled means includes temperature responsive means for causing said second stop valve to interrupt said extra flow of oil upon the expiration of the starting period of the burner while said motor is in operation and the first mentioned stop valve is open.

2,319,709
SEALING STRIP
Louis Spraragen, Bridgeport, Conn., assignor to Bridgeport Fabrics, Inc., Bridgeport, Conn., a corporation of Connecticut
Application January 4, 1941, Serial No. 373,125
7 Claims. (Cl. 20—69)



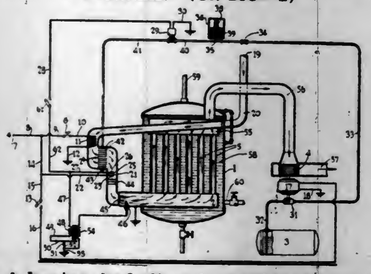
1. A sealing strip including a bead of relatively soft, compressible material, an attaching strip of flexible, resilient, noncompressible, tear-resisting material having one edge anchored in said bead, a relatively rigid reinforcing strip overlying at least one side of the attaching strip and fixed thereto, said reinforcing strip extending around a portion of the bead and forming a backing therefor for holding the bead against lateral movement in one direction, the attaching strip adjacent the bead flexing to permit lateral movement of the bead in the other direction.

2,319,710
CATALYTIC CRACKING PROCESS
Reginald K. Stratford, Moore Township, and Roy H. Smith, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware
Application December 29, 1938, Serial No. 248,164
12 Claims. (Cl. 196—52)



10. An improved process for producing gasoline from heavier hydrocarbons which comprises forcing a hydrocarbon distillate heavier than gasoline through a narrow constricted passageway and heating the same under pressure during flow to a temperature above 700° F., the temperature and pressure conditions being interadjusted to effect complete vaporization of the oil, then adding to the oil vapor stream a finely divided adsorptive siliceous catalyst whereby the catalyst is immediately dispersed in the oil vapor without condensation thereof, and maintaining contact between the oil vapor and the finely dispersed catalyst under pressure in excess of 100 pounds per square inch and at cracking temperature, for a time sufficient to effect conversion of a substantial part of the oil to gasoline.

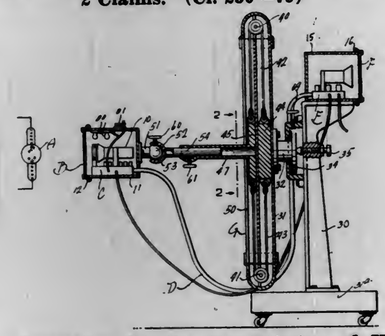
2,319,711
HEATING DEVICE
Frederick Kunst Van Almelo, Nassau, N. Y., assignor to Consolidated Car Heating Company, Inc., Albany, N. Y., a corporation of New York
Application April 9, 1941, Serial No. 387,697
4 Claims. (Cl. 158—1)



1. A heater, including, in combination: a heat exchange duct; a combustion air inlet duct in heat exchange relation to said first mentioned

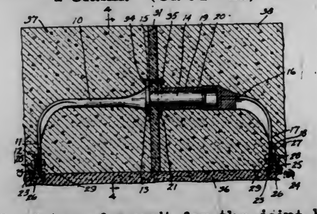
duct whereby air passing therethrough may be heated; means for creating a flow of air in said combustion air inlet duct; means for heating said air prior to the heating thereof by said heat exchange duct; a combustion chamber communicating with said heat exchange duct; means in said combustion air inlet duct for vaporizing liquid fuel therein; a supply of liquid fuel; means for supplying liquid fuel to the vaporizing means; means for igniting vaporized fuel in the combustion chamber and means interposed between the supply of liquid fuel and the vaporizer for temporarily storing the fuel under pressure and then automatically supplying an augmented supply of liquid.

2,319,712
DAYLIGHT FLUOROSCOPE
Edward E. Williams, Bronx, N. Y.
Application October 2, 1940, Serial No. 359,459
2 Claims. (Cl. 250—79)



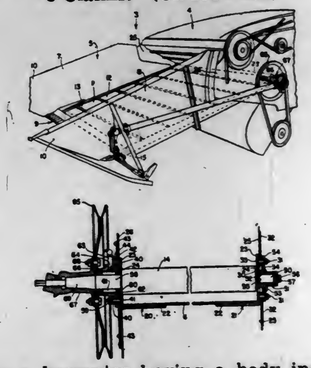
1. Apparatus for the transmission of X-ray images and the like comprising a supporting base, a member rotatably mounted on the supporting base, a fluorescent screen mounted for rotary movement with said member, and means for sliding said fluorescent screen across said rotary member to either side of its axis of rotation.

2,319,713
LOAD TRANSFER UNIT FOR PAVING JOINT STRUCTURES
Rolland G. Williams, Fort Myers, Fla., assignor to Malleable Iron Fittings Company, Branford, Conn., a corporation of Connecticut
Application September 30, 1939, Serial No. 297,246
1 Claim. (Cl. 94—18)



In a load transfer unit for the joint between adjacent sections of sectional construction in which a filler strip is disposed vertically between the ends of the sections, a one-piece socket member comprising a horizontal socket portion adapted to be embedded in the end of one section of the construction having a cylindrical axially extending socket open at one end and closed at the other end and having a peripheral flange at its open end adapted to be embedded in said section with its outer surface substantially in the vertical plane of the end of said section, and a downwardly extending supporting and anchoring leg integral with the closed end of said socket part, and a one-piece plunger member comprising a supporting part adapted to be embedded in the end of an adjacent section of the construction and having a peripheral flange adapted to be embedded in said last mentioned section with its outer surface substantially in the vertical plane of the end of said section, a downwardly extending supporting and anchoring leg integral with said supporting part, and a horizontal cylindrical plunger part integral with and projecting from said flanged supporting part, said plunger part having freely slidable closely fitting engagement with said cylindrical socket of said socket part, whereby relative movement between said socket and plunger members occurs entirely within one section of the concrete.

2,319,714
HARVESTER PLATFORM MOUNTING
Ralph L. Anderson, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Original application July 29, 1940, Serial No. 348,128. Divided and this application November 7, 1941, Serial No. 418,198
8 Claims. (Cl. 198—184)



1. In a harvester having a body including a pair of side walls, a platform extending forwardly and downwardly from said body between said side walls, a platform conveyor on said platform including upper and lower rollers and a flexible endless belt trained over said rollers, and means for swingably connecting said platform to said body for pivoting movement about the axis of rotation of the upper roller, comprising an annular bearing support mounted on one of said side walls and having an opening therein adapted for insertion of said roll therethrough during installation and removal, means for mounting said platform on said annular support, and a bearing member on the shaft of said roller and adapted to be carried in the opening in said support.

2,319,715
CURTAIN AND SHADE BRACKET
William L. Barndollar, Elyria, Ohio
Application December 16, 1940, Serial No. 370,321
4 Claims. (Cl. 248—254)

1. A bracket of the character described comprising: a relatively thin flat plate having a depression formed in one face thereof and trans-

verse openings at the ends of said depression; and rod supporting members disposed relatively in spaced relation comprising a length of wire bent to provide upstanding free ends spaced



apart and inwardly extending bottom portions projecting through the openings in said plate and an intermediate connecting portion disposed entirely in said depression affording a relatively smooth attaching surface.

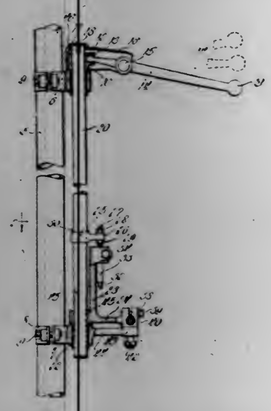
2,319,716

GEAR SHIFTING MEANS

Leo A. Bixby, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application December 20, 1940, Serial No. 370,944

12 Claims. (Cl. 74—484)



1. In combination, a transmission having a forwardly projecting operating shaft, a remotely disposed gear shifting and selecting means for said transmission comprising an operating rod, means including a flexible motion transmitting element connected between said rod and shaft for moving said shaft axially upon rotation of said rod, and a second means including a second flexible motion transmitting element between said rod and shaft for rotating said shaft upon axial shifting of said rod.

2,319,717

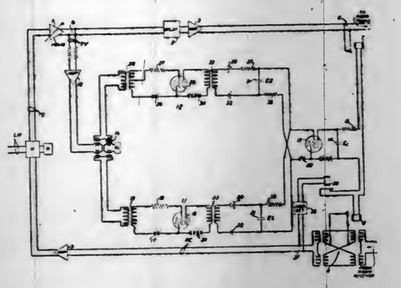
TRANSMISSION CONTROL IN TWO-WAY SIGNAL WAVE TRANSMISSION SYSTEMS

Bjorn G. Bjornson, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 29, 1942, Serial No. 444,952

5 Claims. (Cl. 178—44)

1. In combination with a two-way signal wave transmission system including at a given point oppositely-directed one-way signal transmission paths, a signal-controlled switching circuit including switching branches respectively controlled from each path, for directionally controlling signal transmission therein while preventing singing and suppressing echoes, and means to



improve the operation of said circuit from the standpoint of facilitating break-in comprising an auxiliary circuit controlled by the signals in one path for making the time hang-over in operation of the branch of said switching circuit controlled from that path vary inversely with the amplitude of the signals controlling its operation.

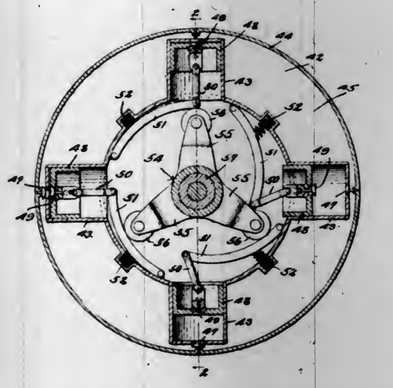
2,319,718

AIR COMPRESSOR

John W. Brooks, Petersburg, Va.

Application September 6, 1940, Serial No. 355,671

1 Claim. (Cl. 230—194)



In a device of the class described, a compressor embodying a casing, a plurality of cylinders arranged in a circular line within the casing, exhaust valves in the outer ends of the cylinders establishing communication between said cylinders and casing, valved pistons operating within the cylinders, curved pivoted arm mounted within the casing, yieldable means adapted to normally urge the arms inwardly, links connecting the arms with the pistons, and a rotary member within the casing and adapted to move over the curved pivoted arms, successively moving the pistons within their cylinders, compressing air in the casing, and an exhaust pipe through which air passes from the casing.

2,319,719

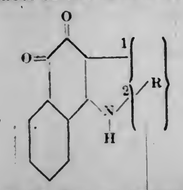
NEW VAT DYESTUFFS

Willy Burneleit, Cologne-Deutz, Germany, assignor to General Aniline & Film Corporation, a corporation of Delaware

No Drawing. Original application November 26, 1937, Serial No. 176,623. Divided and this application September 13, 1940, Serial No. 356,662. In Germany December 3, 1936

4 Claims. (Cl. 260—315)

1. The products of the following formula:



wherein R stands for an aromatic radical selected from the group consisting of benzene, naphthalene, diphenyl, and anthraquinone radicals, and the substitution products thereof, and wherein the bonds 1 and 2 are attached to adjacent positions of the aromatic radical.

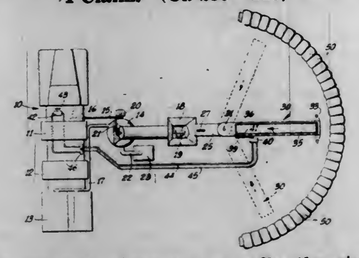
2,319,720

PROCESS FOR CEMENTING OIL WELLS AND THE LIKE

John D. Chesnut, Los Angeles, Calif., assignor, by mesne assignments, to International Cementers, Inc., a corporation of Delaware

Application July 30, 1940, Serial No. 348,399

1 Claim. (Cl. 259—146)



In a method of cementing wells, the steps of providing a predetermined number of sacks of cementitious material; piling said sacks in an arc; feeding said cementitious material from said pile progressively along said arc and on radial lines toward the center of said arc; forming a slurry of said cementitious material upon its arrival at the center of said arc; and delivering said slurry to a well.

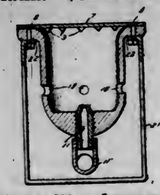
2,319,721

FIRE STARTER

Frank R. Coker, Tyler, Tex.

Application February 26, 1941, Serial No. 380,741

1 Claim. (Cl. 158—10)



The combination with a burner for a fire starter or kindler having a head provided with an annular flange and a cover plate positioned thereon, of a burner support of U-shape positioned under the burner and having the legs thereof at their terminals provided with inwardly directed integral lugs upon which the flange of the burner is seated, said flange, cover plate and lugs having registered openings, and bolts extending through said openings providing the sole means for securing said cover plate to the burner head and for securing the assembled burner head and cover plate to said support.

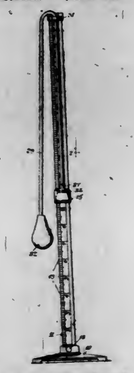
2,319,722

SKIRT MARKER

Walter H. Collins, Summit, N. J.

Application January 10, 1941, Serial No. 373,894

1 Claim. (Cl. 33—9)



In a skirt marker a standard, a dispensing container slidably mounted on said standard, said container including a back and two sides, a flat top and a curved bottom, the top forming a right angle with the back thereof, the bottom curving from the back beneath the top and to form therewith an elongated slit, an opening in said top for the insertion of marking material, a stopper in said opening, said stopper including a downwardly extending fin adapted to prevent the passage of material when said stopper is in one position, and to allow the free passage of said material when said stopper is in another position.

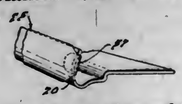
2,319,723

DRIP MOLDING

Orley J. Crowe and William J. Hall, Detroit, Mich.
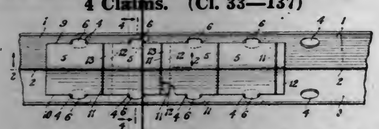
Application July 18, 1940, Serial No. 346,075

4 Claims. (Cl. 41—10)



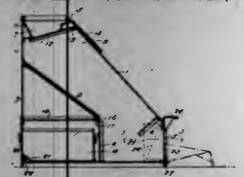
1. A drip molding for motor vehicles comprising an inner metal strip having a base portion adapted to be disposed along the side of the vehicle and an outer, upwardly directed wall which jointly with the base portion forms a water drain or gutter, and a relatively thin metal cover having an upright part covering the outer surface of the wall and a lower part covering the base portion of the strip, the upright part of the cover having a narrower end projecting linearly beyond the wall part of the strip and bent towards the inner side of the wall.

2,319,724
FLEXIBLE TAPE
Julius Dinhofer, New York, N. Y.
Application January 16, 1943, Serial No. 472,565
4 Claims. (Cl. 33—137)



1. An article of the character described comprising, a flexible channel-shaped strip having a concave face, stiffening means extending over said concave face, said means consisting of a plurality of independent flexed plates and disposed in overlapped relationship, and means by which said plates are detachably engaged with the strip to hold said plates in bowed condition.

2,319,725
DUSTLESS ASH RECEIVER
Charles M. Drinkwater, Chicago, Ill.
Application June 14, 1941, Serial No. 398,171
3 Claims. (Cl. 209—246)



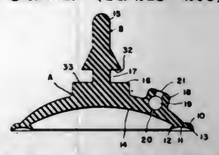
1. In a dustless ash receiver of that type having an opening in the top for the deposit of ashes, an inclined screen beneath said opening and dividing the receiver into a fine ash compartment below said screen and a cinder compartment at the opposite side of said screen, and said receiver having a clean-out opening in said ash compartment, in combination with an ash drawer in said fine ash compartment having a front wall larger than the clean-out opening to overlie the edges of said opening when the drawer is in closed position, said ash drawer having a bottom portion upwardly inclined toward the front of the drawer, and roller means connected to the receiver to support the bottom of the drawer, whereby the drawer by its own weight may cause its front wall to be drawn into sealing contact with the wall of the receiver about the clean-out opening.

2,319,726
SUCTION CUP STRUCTURE
James Edward Duggan, Detroit, Mich.
Original application July 29, 1940, Serial No. 348,264, now Patent No. 2,286,473, dated June 16, 1942. Divided and this application March 23, 1942, Serial No. 435,889
4 Claims. (Cl. 248—206)



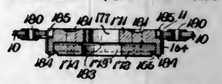
4. In a structure of the class described, an interiorly threaded tube open at one end and closed at the other, the closed end having a centrally disposed orifice for air, the interiorly threaded portion of the tube being provided from the open to the closed ends thereof upon the outer side of said threads with a longitudinally extending passage for conducting air from the open end of the tube to the orifice in the closed end thereof, and means controlling the orifice without affecting the flow of air through the passage including a manually operable element engaging the threads upon the interior of said tube and having a reduced end portion engageable with said orifice.

2,319,727
SUCTION CUP STRUCTURE
James Edward Duggan, Detroit, Mich.
Application March 23, 1942, Serial No. 435,890
6 Claims. (Cl. 248—206)



4. A suction cup structure having a body of resilient material provided with a suction face, said body containing a spherical hole and provided at substantially diametrically opposite sides of said hole with openings, one leading outward from the hole to the outside of the body and the other leading inward from the hole to the suction face of the body, and valve means engaging the hole and outward opening for controlling the flow of air through the inward opening.

2,319,728
THERMIONIC TUBE SOCKET
Hugh H. Eby, Jenkintown, Pa., assignor to Hugh H. Eby, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Original application June 16, 1937, Serial No. 148,546. Divided and this application December 18, 1940, Serial No. 370,639
1 Claim. (Cl. 173—328)

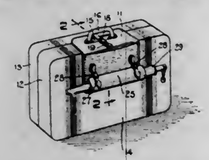


A radio tube socket comprising a pair of insulating plates in juxtaposed relation, a pair of contact apertures in one plate, a pair of contacts mounted in said apertures and each having a portion overlying said apertured plate, barrier means mounted on the plates and extending between the plates separating the adjacent apertures to minimize leakage between said contacts, the other plate of the pair having apertures registering with the contacts in said first mentioned contact apertures, said barrier means comprising a rib on one of said plates and a groove on the other plate of the pair, with said rib nested in said groove.

2,319,729
UMBRELLA AND ARTICLE CARRYING ATTACHMENT
Gladys C. Ford, New York, N. Y.
Application October 12, 1940, Serial No. 360,929
1 Claim. (Cl. 190—60)

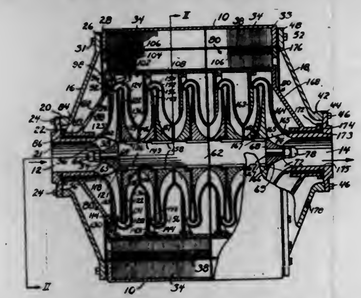
An improved article carrying device adapted to be removably attached to a suitcase and comprising, a body, a flap attached at one end thereof, a second flap attached to the other end thereof and provided with means for removably attaching the same to the handle portion of a suitcase, a piece of sheet material of substantially the same superficial area as the area of the body

and attached at three sides to the said body to thereby form, in conjunction with the body, an article forming pocket or envelope, and means



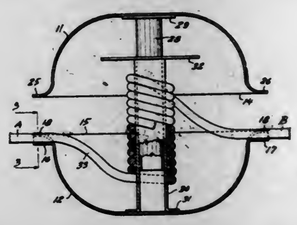
on the sheet of material and on the free end of the flap cooperating to hold the flap in article holding position with respect to the body.

2,319,730
PUMP
George H. Garraway, North Plainfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 26, 1941, Serial No. 412,359
2 Claims. (Cl. 103—87)



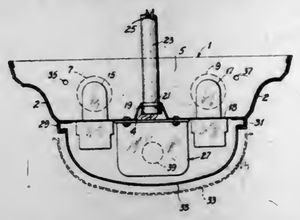
1. A centrifugal pump without stuffing boxes including a stator shell and a rotor each provided with laminations to form an electric motor, relatively short stationary inlet and outlet members, said inlet and outlet members each having a hub at their inner ends, dished front and back cover members for fixedly connecting said inlet and outlet members to said stator, a stationary shaft extending longitudinally of the pump along its axis, means for securing one end of said shaft to said hub in said inlet member and the other end of said shaft to said hub in said outlet member, said rotor including a relatively large cylinder concentric with said shaft and having dished bearing brackets provided with sleeves rotatably mounted on said inlet and outlet members, bearing means between said sleeves and said inlet and outlet members, said rotor also including open ended hollow and annular impeller members having circumferential extensions connected to said cylinder and being concentric with said shaft, each impeller member having an inlet adjacent said shaft and an outlet adjacent said cylinder, a plurality of open ended, stationary hollow annular diffuser members fixedly held on and concentric with said stationary shaft, each diffuser member having an inlet near the outlet of one impeller member and an outlet adjacent said shaft and near the inlet of the next impeller member, whereby rotation of said rotor causes fluid to pass through said inlet member, then an impeller member, then a diffuser member and successive impeller and diffuser members until the fluid is discharged through said outlet member at a higher pressure than it was at the inlet member.

2,319,731
CORD HOLDER
Earl E. Garrett, Marshfield, Oreg.
Application November 5, 1941, Serial No. 417,943
6 Claims. (Cl. 242—97)



1. A cord holder comprising a pair of complemental opposed substantially semi-spherical shells, a peripheral radial flange formed on each shell abutting each other, a core tube within one shell adapted to have a cord wound thereon, a core tube on the other shell telescoping within said first mentioned core tube and having a sliding friction fit therein whereby to maintain said shells in assembled relation.

2,319,732
LIGHTING FIXTURE
Edwin F. Guth, Florissant, Mo.
Application November 5, 1941, Serial No. 417,885
7 Claims. (Cl. 240—78)

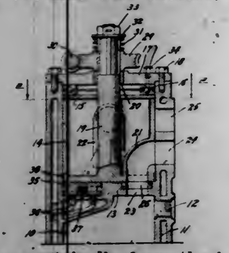


1. An indirect lighting fixture comprising a channel-shaped reflector having a solid bottom and open upwardly and also open at its ends, a light unit in said channel, electrical apparatus serving said light unit attached to and located beneath said reflector, supporting means rising from the central section of said reflector for attachment to a ceiling, a lower trough-shaped depending cover for said electrical apparatus removable for inspection of the electrical apparatus, means for removably attaching the cover to the reflector, and end closure members for said reflector and cover having means for attachment of same throughout the end regions of the reflector only and flat portions projecting downwardly for flush closure of the ends of said depending cover.

2,319,733
ROTARY VALVE
Charles W. Hall, Denver, Colo., assignor to Malcolm S. Losey, Denver, Colo.
Application September 5, 1942, Serial No. 457,493
5 Claims. (Cl. 123—190)

1. A rotary valve for internal combustion engines comprising: a cup-shaped valve having an open top and a closed bottom; gas conduits in

said valve communicating from the bottom thereof through the side wall thereof; and a shaft

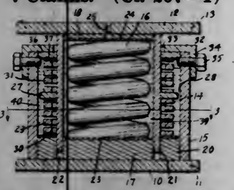


extending concentrically from the bottom of the valve for imparting rotation thereto.

2,319,734
GEOCHEMICAL PROSPECTING
Leo Horvitz, Houston, Tex., assignor to Esme E. Rosaire, Houston, Tex.
No Drawing. Application November 4, 1939, Serial No. 302,853
3 Claims. (Cl. 23—230)

1. In a method of prospecting for petroliferous deposits in which samples of soil are collected in the area to be investigated and are analyzed for a constituent indicative of the presence of oil in a subterranean formation in said area, the step of determining the relative amounts of fine and coarse material in the soil samples, whereby the ratio of these materials may be utilized in the interpretation of the results.

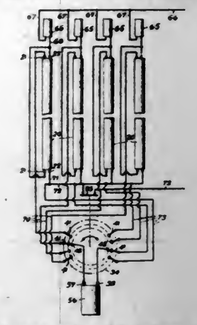
2,319,735
HYDRAULIC VIBRATION AND SHOCK ABSORBER
Carl Hussman, Chicago, Ill.
Application November 7, 1941, Serial No. 418,110
7 Claims. (Cl. 267—1)



1. In a device of the class described, a pair of plates in spaced parallel relation, a helical spring between said plates for absorbing vibrations imposed on one of said plates, a semi-solid material surrounding said spring for absorbing high frequency vibrations imposed on one of said plates, a cylinder secured to said vibrating plate and surrounding said spring, a second cylinder secured to the other of said plates and surrounding said first cylinder, a liquid filling the space between said cylinders, and means associated with said cylinders for causing said liquid to surge through a restricted opening so as to damp the movement of said vibrating plates when a shock is imposed on said vibrating plate.

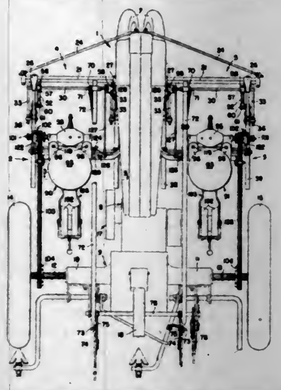
2,319,736
FLUORESCENT LAMP
Abraham Jarmolowsky, Brooklyn, N. Y.
Application July 2, 1941, Serial No. 400,786
5 Claims. (Cl. 176—124)

1. A lighting device including a main circuit for supplying electric current, fluorescent lighting tubes electrically connected in parallel in said circuit, each of said tubes having thermionic electrode means, a starter, and means operable to establish electrical connection between said



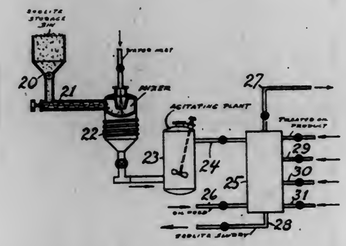
means of any one of said tubes and the starter while retaining said main circuit open to render the same conductive and to subsequently close said main circuit for the purpose of lighting the selected tube.

2,319,737
PLANTER
Theodore W. Johnson, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application March 27, 1940, Serial No. 326,196
26 Claims. (Cl. 111—59)



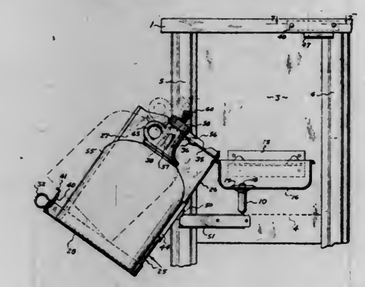
1. An agricultural implement comprising a supporting frame, planting mechanism and fertilizer dispensing mechanism carried thereby, a pair of laterally spaced generally longitudinally extending cultivator beams, a generally upwardly extending bracket fixed to each beam, generally parallel links movably connecting each bracket with said supporting frame, said planting and fertilizer mechanisms being disposed substantially above said cultivator beams, a rigid bar disposed transversely of said beams, means at the outer ends of said rigid bar for securing the latter to said beams rearwardly of the brackets secured thereto, a second rigid bar, means at the outer ends of said second rigid bar for securing the latter to said beams forwardly of said brackets, a planter furrow opener receiving seed from said planting mechanism and secured to said first rigid bar between said cultivator beams, and a fertilizer furrow opener receiving fertilizer from said fertilizer dispensing mechanism and secured to said second rigid bar also between said cultivator beams, whereby said planter and fertilizer receiving furrow openers move together.

2,319,738
REFINING MINERAL OILS
Minor C. K. Jones, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 28, 1940, Serial No. 372,025
2 Claims. (Cl. 196—29)



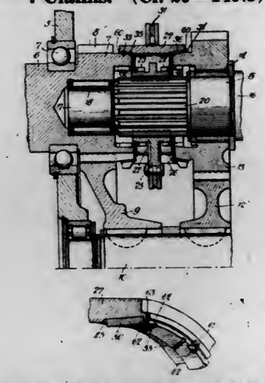
1. Process for the refining of petroleum oils boiling in the motor fuel boiling range which comprises contacting a liquid feed petroleum oil in a contacting zone with a countercurrently flowing slurry of an alkali metal aluminum silicate of the zeolite type, in the presence of an oxygen-containing gas which is flowing concurrently with the oxygen-containing petroleum oil.

2,319,739
LIQUID DISPENSING APPARATUS
Charles J. Kessler, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application September 6, 1941, Serial No. 409,824
10 Claims. (Cl. 158—40)



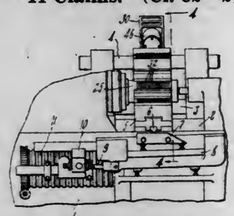
1. In apparatus of the class described, a distributing receptacle, a carrier supported for movement between a reservoir receiving position at one side of the receptacle and a reservoir supporting position over the receptacle, the carrier incorporating a bifurcated reservoir support that is disposed over the receptacle when the carrier is in the second mentioned position, and a reservoir provided with a neck defining its discharge opening and having abutment means extending laterally from the neck for engagement with the aforesaid support thereby to sustain the reservoir with its neck within the bifurcation of the support and its discharge opening in a position to be liquid sealed within the distributing receptacle.

2,319,740
METHOD OF MAKING FRICTION RINGS
Robert Lapsley and Donald S. Dence, Berrien Springs, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application February 7, 1940, Serial No. 317,658
7 Claims. (Cl. 29—149.5)



1. The method of forming friction rings for transmission synchronizer sleeves which comprises, providing a metal sheet having a layer of bearing material bonded to a base material, stamping out arcuate blanks in said sheet, milling simultaneously a plurality of rectangular section grooves in the bearing material face of said blank, and bending said blank into a frustoconical ring with said face forming the internal surface, said grooves being distorted into dovetail section by said bending to provide sharp lubricant cutting edges.

2,319,741
TOOL CARRIER CONTROL MECHANISM
John E. Lovely and Nelson R. Longe, Springfield, Vt., assignors to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application September 8, 1939, Serial No. 293,874
11 Claims. (Cl. 82—2)

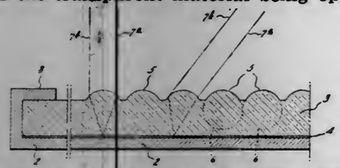


1. A machine of the class described, comprising a rockably mounted tool carrier, means engaging said carrier actuable to rock said carrier, other means actuable during the operative cycle of the machine between the insertion and removal of the work to vary the distance from the rocking axis of said tool carrier at which said carrier rocking means is effective on said carrier, and means for controlling said varying means.

2,319,742
RETRODIRECTIVE REFLECTING DEVICE
Richard W. Luce, Southport, Conn., assignor of one-half to George T. Gill, South Orange, N. J.
Application February 23, 1940, Serial No. 320,267
2 Claims. (Cl. 88—82)

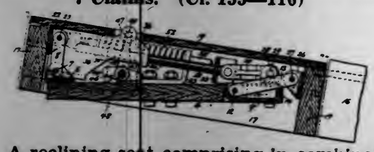
1. A retrodirective, light-reflecting device of

the kind described comprising in combination a relatively thin plate of moldable, transparent material having a plane rear surface and a multiplicity of relatively small, substantially spherical, light-collecting lenses on the front surface formed integral therewith and of a radius of curvature of less than one thirty-second of an inch, the lenses being sectors of spheres cut by the front surface of the plate and the thickness of the plate including the lenses, the radius of curvature of the lenses and the index of refraction of the transparent material being optically



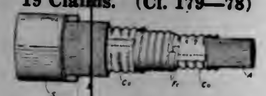
related in the relation of thirty-seven-thousands of an inch, one sixty-fourth of an inch and one and six-tenths, and an opaque, light-reflecting medium having different light-reflecting characteristics at the rear surface of the plate behind the lenses, the lenses being uniformly distributed over the surface of the plate and sufficiently closely related to sharply define in the reflected light without observable distortion transitions in the light-reflecting characteristics of the light reflecting medium at the rear of the plate.

2,319,743
RECLINING SEAT
William E. Morey and Ralph G. Nichols, St. Charles, Mo., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 18, 1939, Serial No. 305,054
7 Claims. (Cl. 155—116)



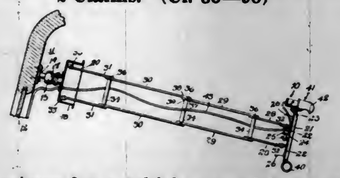
2. A reclining seat comprising in combination, a seat base carried by a supporting structure, a seat frame having a cushion receiving portion, upwardly diverging links pivotally supporting each side of said frame upon said base for reclining movement of the frame, and releasable lock means controllably connecting said seat frame and base, said means comprising gripping jaws pivotally connected to said seat frame, a thrust rod engageable by said gripping jaws, and a link pivotally connecting said thrust rod and base.

2,319,744
SHIELDING FOR COMMUNICATION CIRCUITS
Wilbur E. Mougey, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 30, 1941, Serial No. 417,183
19 Claims. (Cl. 179—78)



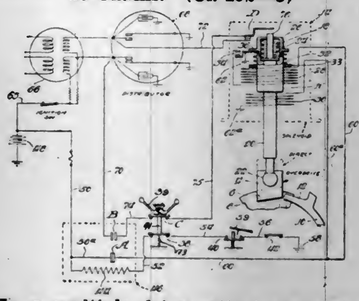
1. A longitudinal shield for enclosing a high frequency circuit which is effective in establishing a longitudinally directed voltage gradient upon the surface of said shield nearest to the circuit, said shield comprising an iron layer and a copper layer between said iron layer and the circuit, said copper layer being comprised of copper tape so disposed about the circuit that currents therein due to said voltage gradient will produce a resultant magnetic flux directed substantially at right angles to the longitudinal direction of said shield, and said iron layer being comprised of iron tape wound about said copper layer with turns substantially concidental with the general direction of said resultant magnetic flux.

2,319,745
MIRROR
Pasquale Napoli, New York, N. Y.
Application September 17, 1940, Serial No. 357,100
2 Claims. (Cl. 88—98)



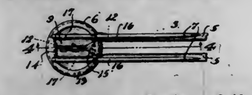
1. A mirror for a vehicle comprising a reflecting member, a supporting member adapted to be attached to a vehicle in the normal position of a rear vision mirror and including a receptacle having an open side and means providing for angular adjustment thereof, and a foldable connecting device for connecting the reflecting member to the receptacle whereby the reflecting member may be shifted between a position disposed over the open side of the receptacle with the connecting device disposed entirely inside of the receptacle and a position spaced from the receptacle, said foldable connecting device being transversely rigid so as to support the reflecting member when it is spaced from the receptacle.

2,319,746
TRANSMISSION
Palmer Orr, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 26, 1940, Serial No. 358,457
25 Claims. (Cl. 192—3)



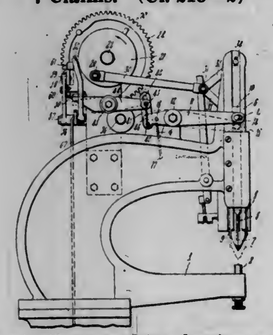
1. In a multiple drive ratio transmission including a rotatable torque transmitting element adapted when rotating to permit the transmission to operate in one drive ratio and when braked to establish another drive ratio, for a motor vehicle including an engine; means for braking said element, means for shifting said braking means, a relay, a first switch controlled by said relay and adapted to control the movement of said shifting means, and a second switch controlled by said relay and adapted when said first switch is in brake release position to effect the interruption of the ignition of said engine, so as to produce a reversal of driving torque on said element permitting release of said braking means, said relay having an interval of delayed action preceding the ignition interruption, during which the engine may accelerate to remove any coast load that may be imposed upon said braking means.

2,319,747
ARTICLE SUPPORT
Orville S. Osborne, Syracuse, N. Y.
Application September 15, 1941, Serial No. 410,942
3 Claims. (Cl. 211—31)



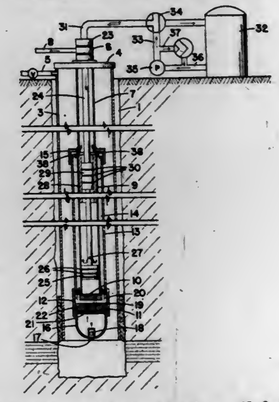
1. An article supporting device of the class described, comprising a pair of contiguously arranged normally parallel elastic strands of equal length, a pair of clip members of bendable material each folded about and firmly embracing the corresponding ends of said elastic strands to fix the same together at the opposite ends of the pair of strands and to form a unitary assembly, each of said clip members being of substantial length to embrace a substantial length of the strands, and a fastener member fixed to each of the opposite ends of said pair of strands to secure the strands to a support for the reception of an article to be supported thereby, each of said fastener members including a button-like body having a recess in one face thereof of a size to snugly receive the clip member at the corresponding end of the pair of strands, with the clip member disposed generally diametrically of the body, and said body having a bendable tongue at one edge thereof normally overlying the recess aforesaid at the outer side of the clip member to prevent inadvertent displacement of the clip member from the recess.

2,319,748
RIVETING MACHINE
Austin D. Rhodes, Waltham, Mass., assignor to Judson L. Thompson Manufacturing Company, Waltham, Mass., a corporation of Massachusetts
Application April 17, 1940, Serial No. 330,121
7 Claims. (Cl. 218—2)



1. In a riveting machine having a work support, a rivet holder movable from and toward work on said support, a driver for driving a rivet held by said holder and projecting therefrom, and power means for actuating said driver, operator actuable means for first depressing said holder away from said driver and toward the work and then actuating said power means to operate said rivet driver, said machine having means for preventing retraction of said rivet relative to said holder when said holder is depressed toward the work, whereby the projecting portion is caused to enter the work in advance of the driving action of said driver.

2,319,749
BORE HOLE PUMP
Ivan S. Salnikov, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 22, 1941, Serial No. 403,501
5 Claims. (Cl. 103—46)

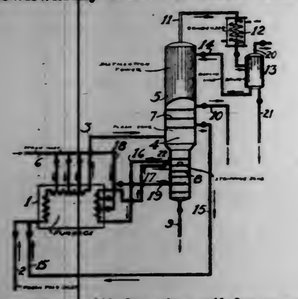


1. An apparatus for producing oil from a subsurface formation which comprises a tubing for carrying said fluid extending from the surface substantially to said formation, an oil collection chamber carried by the end of said tubing, an entrance for oil from said formation into said chamber, a passage for oil from said chamber into said tubing, a piston adapted by reciprocation to force fluid from said chamber into said tubing, an elongated rigid fluid conducting hollow rod connecting said piston to the surface, and means at the surface for applying fluid pressure to the interior of said hollow rod to thereby extend said rod and actuate said piston.

2,319,750
DISTILLATION PROCESS
Jackson R. Schonberg and James B. Maxwell, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application August 12, 1939, Serial No. 289,762
6 Claims. (Cl. 196—72)

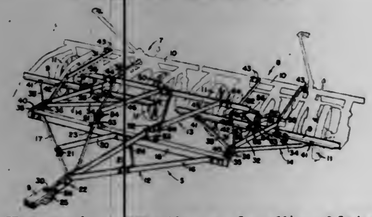
1. Process for the flash distillation of oil for the production of maximum yields of high viscosity oils boiling immediately above the asphalt boiling range and for the production of low penetration asphalts comprising heating a feed oil by passing the same through a heating coil, withdrawing and introducing the heated feed oil into a distillation tower under conditions to secure flash vaporization of a substantial amount of the oil, passing vaporized portions upwardly through the tower into a fractionating section, withdrawing a portion of the oil from a plate in

the fractionating section immediately above the flash zone and recirculating the same in the absence of added recycled higher boiling oils through said heating coil into the flash zone with the fresh feed, passing unvaporized portions of the oil downwardly from the flash zone into a



stripping section, withdrawing oil from an upper plate in said stripping section, reheating and returning the same to a plate in said stripping section under conditions adapted to secure in said stripping section a temperature at least substantially as high as the temperature of the entering feed into said flash zone.

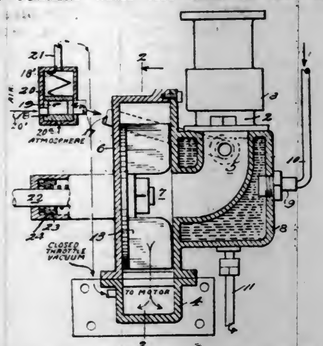
2,319,751
MULTIPLE HITCH DEVICE
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 12, 1939, Serial No. 289,713
10 Claims. (Cl. 97—233)



1. For use in connecting a plurality of laterally spaced implements to a tractor, a multiple hitch device comprising a main draft frame, a hitch connection for attaching said main draft frame with the tractor, a plurality of supplemental draft frames adapted to be connected one to each of the implements, a generally laterally extending stabilizing member rigidly connected with said main draft frame, and means connecting said supplemental draft frames with said main draft frame and with the laterally outer end portions of said stabilizing member so as to provide for pivotal movement of each implement about a longitudinal axis but preventing lateral movement of said implements, thereby holding the implements in constant laterally spaced relation to one another.

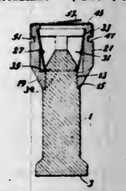
2,319,752
FUEL MIXTURE COOLING AND EXPANSION RETARDING PRESSURE FEEDER
Frank A. Smith and Alexander Sabo, Highland Park, Calif.
Application September 2, 1941, Serial No. 409,212
5 Claims. (Cl. 123—119)

1. A combustion-motor, fuel feeding device having, in combination, a casing and a centrifugal pump impeller operative therein, and a chilling cell attached to the motor carburetor, and circulating jacket means having a fuel passage coaxial with the axis of the impeller



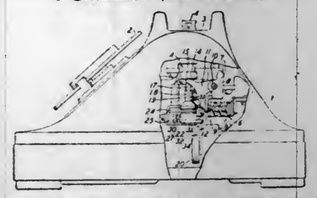
for the control of the temperature of the cell; whereby to retard or prevent undesired expansion of gaseous fuel passing from the carburetor to the pump casing.

2,319,753
LOCK
Thomas F. Smith, Milton, and Lewis A. Lockhart, Natick, Mass.
Application July 5, 1940, Serial No. 343,988
3 Claims. (Cl. 70—50)



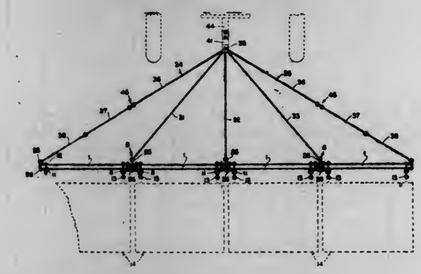
1. A lock having in combination a shank, a sleeve fitting thereover with capacity for free axial movement onto and off from the shank, means within the sleeve locking the sleeve to the shank and accessible for unlocking through one end of the sleeve, and a sealing cap closing such end and having its skirt crimped inward to a diameter less than that of other parts of the end enclosed within the cap.

2,319,754
ELECTRICAL CONTACTING DEVICE
Charles F. Spahn, Jr., New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 29, 1940, Serial No. 367,699
6 Claims. (Cl. 200—1)
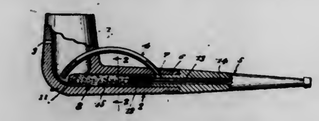


1. In a contacting device, supporting members, a group of contact making springs insulatedly mounted in a single pile-up on one of said supporting members, a cam mounted between two of said supporting members, an operating member rotatably mounted between said two supporting members for actuating said cam in different rotary positions, one of said springs being provided with an aperture, a stud member on another of said springs extending through said aperture, said first-mentioned spring and said stud member arranged in engagement with said cam, all of said spring members being so arranged and the cam so cut that all of said springs will make or break contact with each other in different combinations corresponding to different angular rotary displacements of said cam.

2,319,755
HITCH DEVICE
Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 20, 1940, Serial No. 341,474
13 Claims. (Cl. 55—84)



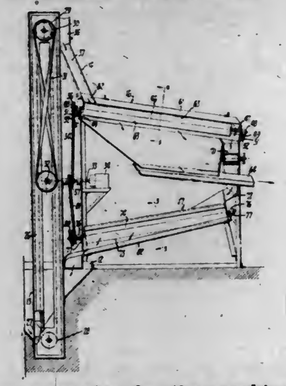
7. In a folding evener, a hinge construction for connecting two adjacent members thereof, comprising a pair of connecting plates disposed on opposite sides of said members and connected therewith, and a hitch member extending loosely through one of said plates and fixed to the other.

2,319,756
PLEASANT PUFF OVERDRAFT PIPE
John B. Swan, Gladstone, Mich.
Application October 30, 1942, Serial No. 463,960
1 Claim. (Cl. 131—202)



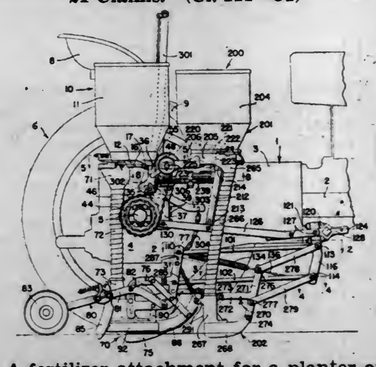
As a new article of manufacture, an overdraft pipe provided with an absorbent device, said absorbent device comprising a body of a series of spring coils, said body having its outer coil parallel throughout its length with the other coils and terminating in a sharp impaling point turned inwardly near the longitudinal axis in convolution with the rest of said coil, said body having its inner coil terminating in an integral elongated handle, said handle extending or centered with the longitudinal axis of said body, said handle provided at its outer end with a horizontal elongated loop grip, and an absorbent sheet impaled on said sharp point by rotating said body, whereby the sheet is rolled around the whole of said body with portions of said sheet within spaces formed by said coils and also covering the exterior surface of said body.

2,319,757
NUT-CRACKING APPARATUS
Emile N. Vignean, San Francisco, Calif., assignor to Rosenberg Bros. & Co., San Francisco, Calif., a corporation of California
Application October 18, 1940, Serial No. 361,668
5 Claims. (Cl. 146—11)



1. In an apparatus for the cracking of nuts such as walnuts, means including a pair of smooth surfaced spaced-apart rolls of substantially uniform diameter for separating improperly cracked nuts from properly cracked nuts, said rolls having their axes inclined downwardly from the feed end to the discharge end thereof, means for driving said rolls to cause their adjacent surfaces to travel upwardly, means for feeding nuts to said separating means, nut cracking means for receiving improperly cracked nuts from said separating means, and means for feeding cracked nuts from said cracking means to said first-named feeding means.

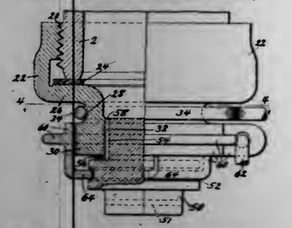
2,319,758
PLANTING AND FERTILIZING MEANS
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 29, 1939, Serial No. 311,583
21 Claims. (Cl. 111—34)



1. A fertilizer attachment for a planter or the like having seed selecting mechanism, driving means including a driving part and a supporting frame receiving and at least partially enclosing said driving part, said attachment including a fertilizer distributing mechanism, a rotatable gear member therefor, a sprocket chain for driving the same, and means including a part adapt-

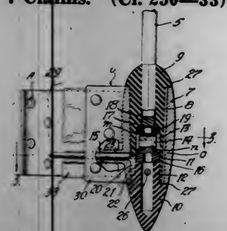
ed to be mounted on said supporting frame for connecting said sprocket chain in driving relation with said enclosed driving part.

2,319,759
OUTLET STRUCTURE FOR TANKS
Victor Willoughby, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application August 19, 1941, Serial No. 407,499
13 Claims. (Cl. 220—39)



1. A tank outlet structure comprising, an outlet member, a cap secured to the lower end of the outlet member and having a small opening therein, a plug closing the small opening in the cap, a locking member slidable over a non-round portion of said cap and being held in position by said plug, and means preventing rotation of said locking member whereby said cap is locked on said outlet member.

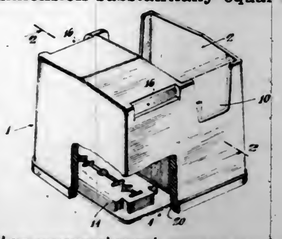
2,319,760
ANTENNA SYSTEM
Rudolph A. Becwar, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application December 2, 1939, Serial No. 307,333
7 Claims. (Cl. 250—33)



1. Radio antenna apparatus adapted to be connected by a conductor to a radio receiver, including a signal collector, supporting means for said signal collector having a substantially cylindrical portion with an axial bore centrally thereof, insulators assembled in said bore from opposite ends thereof in a manner and being of such configuration as to form a cavity therebetween, the signal collector passing through one of said insulators to the cavity formed between the said insulators, and an inductance coil in said cavity in series connection with said signal collector and with the conductor for the radio receiver.

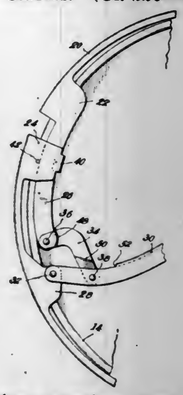
2,319,761
RAZOR BLADE RECEPTACLE
Irving S. Bodkin, New York, N. Y., assignor to Conrad Razor Blade Co., Inc., New York, N. Y., a corporation of New York
Application April 28, 1939, Serial No. 270,541
3 Claims. (Cl. 206—16)

1. A receptacle for safety razor blades comprising, in combination, a unitary molded part having a pair of compartments separated by a wall common to each, the top of one compartment being open and the bottom of the other compartment being open to permit it to be made as a unitary structure, the open bottom compartment having its transverse and longitudinal dimensions at least as great as the longitudinal and transverse dimensions of a conventional razor blade to be placed in the compartment, the open bottom compartment having a longitudinal dimension substantially equal to that of



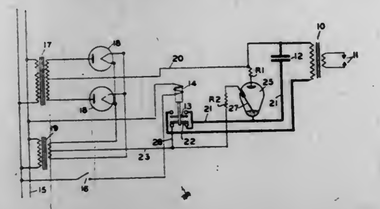
the open top compartment, means projecting into said open bottom portion from the sides of the open compartment, a dish-shaped insert member adapted to be snapped into the bottom of said open bottom compartment so that the edges thereof rest against said projecting means to retain the insert in position and to form a vault-like compartment therefrom, said vault-like compartment having a slot therein along a top horizontal corner thereof to facilitate molding and for the insertion and removal of used razor blades.

2,319,762
CLAMPING RING ASSEMBLY
William Bruning, Port Richmond, N. Y., and Lloyd D. Simonson, Rochelle Park, N. J., assignors to Atlas Steel Barrel Corporation, Bayonne, N. J., a corporation of New Jersey
Application May 11, 1939, Serial No. 273,088
9 Claims. (Cl. 220—61)



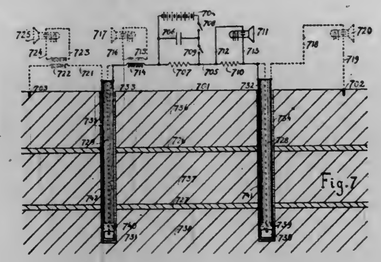
1. A clamping member comprising a split channeled ring, an arcuate arm secured to and projecting beyond one end thereof, an operating lever pivotally connected adjacent one of its ends with said ring at a point arcuately remote from the other end of the latter, a link pivotally connecting the free end of said arm with said lever at a point between the free end of the latter and its pivotal connection with the ring, and guide means associated with the ring between its pivotal connection with the lever and the adjacent free end of the ring cooperable with said arm to retain the latter in spaced relation to the ring.

2,319,763
WELDING CIRCUIT
Stanley M. Humphrey, Warren, Ohio, assignor to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio
Application September 3, 1941, Serial No. 409,336
5 Claims. (Cl. 219—4)



5. Apparatus for supplying unidirectional current of high amplitude and short duration to a low impedance load comprising in combination a large capacitor, a charging circuit for said capacitor including a rectifier, a discharge circuit interconnecting said capacitor and said load, and a discharge device in parallel with said capacitor having a control element adapted to be connected with said rectifier whereby said discharge device is rendered conductive upon the reversal of polarity on said capacitor as detected by conduction through said rectifier.

2,319,764
METHOD AND APPARATUS FOR GEOELECTRICAL EXPLORATION
Sylvain J. G. Pirson, State College, Pa., assignor of one-half to Shelley Krasnow, county of New York, N. Y.
Application September 10, 1938, Serial No. 229,312
31 Claims. (Cl. 175—182)



1. In a method of determining underground structure the improvement which comprises causing an electric surge to travel through the earth between spaced electrodes embedded in the surface of the earth and receiving the electric impulses reflected by the geologic strata upon an electric circuit in which there is a suitable indicating instrument, the duration being such that said electrical surge terminates before said reflected electrical impulses are received.

4. Apparatus for geophysical exploration comprising a pair of spaced electrodes embedded in the earth, means for causing an electric surge of short duration the voltage of which varies in time substantially according to the formula

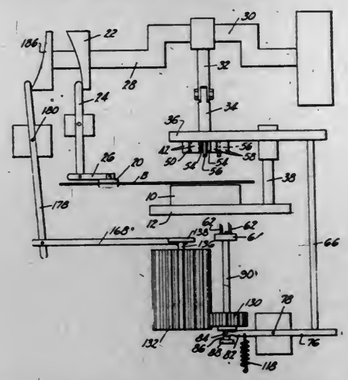
$$\frac{E}{A}(\epsilon^{+\alpha t}-\epsilon^{-\alpha t})$$

to travel in the earth between said electrodes, a resistance in series with the energizing circuit, and an electric circuit connected in parallel with said resistance and including an oscillograph for indicating the electric impulses reflected by the geologic strata, the duration of said electric surge being such that it decays before reception of said reflected electric impulses.

2,319,765
ELECTROLYTIC RECORDING
Paul Talmey, New York, N. Y., assignor to Radio Inventions, Inc., New York, N. Y., a corporation of New York
No Drawing. Application December 14, 1939, Serial No. 309,187
5 Claims. (Cl. 204—2)

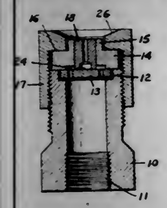
1. An electrolytic recording medium comprising a porous insulating support carrying an electrolytically sensitive composition consisting essentially of a light-colored oxygen-bearing compound of an element chosen from the group consisting of hexavalent molybdenum and hexavalent tungsten, and an electrolyte in sufficient quantity to make the medium conducting in the presence of water.

2,319,766
PUNCH PRESS TOOL
Parker G. Cox, Jay T. Black, and Guy C. Fricke, Detroit, Mich.
Application May 14, 1941, Serial No. 393,402
10 Claims. (Cl. 164—21)



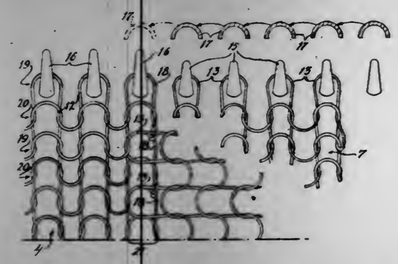
1. In a progressive punch press tool; a plurality of pattern dies, pattern punches corresponding thereto, a plurality of blanking dies, means for feeding a plurality of pieces of stock to said dies, a rotatable loader, loader pins for said loader, there being one pin for each blanking die, said pins being aligned with and arranged to enter the blanking dies and receive thereon stamped members as they are blanked from said stock, means for moving the loader pins into the blanking dies and withdrawing them therefrom, and means for rotating the loader to position the loader pins in alignment with different blanking dies than those last aligned with when the loader pins are withdrawn from said blanking dies.

2,319,767
SPRAY NOZZLE
Thomas W. Murphy, Penn Valley, Lower Merion Township, Montgomery County, Pa., assignor to Monarch Manufacturing Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application August 28, 1941, Serial No. 408,600
4 Claims. (Cl. 299—120)



1. A high pressure liquid spray nozzle comprising a body of relatively soft material having a passage therethrough and adapted to be connected to a liquid supply source, a holder of relatively soft material engaging the body, an insert of hard material in the holder, the insert having a swirl chamber and discharge orifice therein, a disk of hard material floatingly mounted between the body and holder, whereby strain between the insert and disk during assembly is eliminated, the disk forming the base of the swirl chamber, and means for conducting liquid to the swirl chamber including slots formed in the insert.

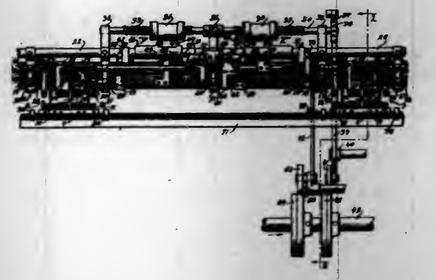
2,319,768
METHOD OF KNITTING
Joseph L. Beers, Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y.
Application October 21, 1936, Serial No. 106,828
54 Claims. (Cl. 66—82)



1. The method of uniting two knitted fabrics comprising topping the marginal loops of a knitted fabric on a set of non-knitting needles, topping the marginal loops of another knitted fabric on a set of knitting needles, knitting a series of courses as a continuation of the fabric topped on the knitting needles, and transferring the loops topped on the non-knitting needles to engage and interloop the adjacent loops of said courses.

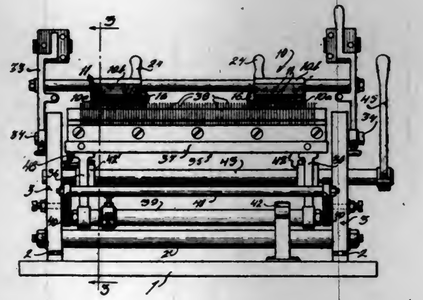
2,319,769
METHOD OF AND MACHINE FOR KNITTING HEEL FABRICS IN SINGLE UNIT STOCKING BLANKS
Joseph L. Beers, Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y.
Application April 27, 1937, Serial No. 139,129
51 Claims. (Cl. 66—82)

42. In a flat knitting machine, in combination: at least two sets of needles; means cooperating with one set of needles to knit successive courses thereby; and means for successively transferring



loops from the other set of needles onto the first set of needles as the courses of loops are knitted by the latter.

2,319,770
TOPPING MACHINE
Joseph L. Beers, Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y.
Application July 20, 1937, Serial No. 154,574
40 Claims. (Cl. 66—148)

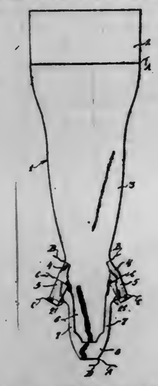


13. In a topping stand, a topping bar comprising two topping point sections, each having a series of topping points, pivotal supporting means for said sections constructed and arranged to permit relative swinging movements of said sections from a straight line to a parallel position, a transfer bar having transfer points and supporting means for the same, and loop transfer means comprising a comb movable to force fabric held on the topping points onto the points of the transfer bar.

2,319,771
SINGLE UNIT FULL-FASHIONED STOCKING
Joseph L. Beers, Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y.
Application April 21, 1938, Serial No. 203,252
34 Claims. (Cl. 66—187)

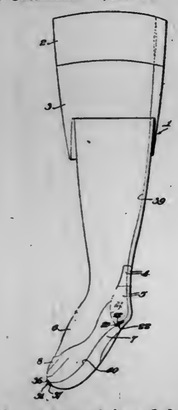
22. In a stocking of the character described, a sole fabric and a heel fabric, said sole fabric having a coursewise row of loops overlapping a wale-

wise row of loops of the heel fabric, with predetermined loops of said walewise row of loops of



the heel fabric completely passing through and interlooping with said overlapping loops.

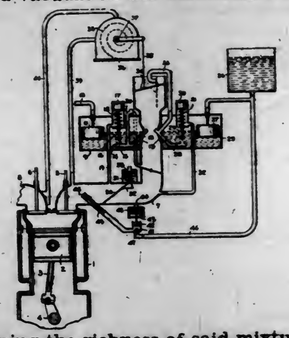
2,319,772
HOSIERY AND METHOD OF MANUFACTURING THE SAME
Joseph L. Beers, Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y.
Application December 5, 1939, Serial No. 307,608
31 Claims. (Cl. 66—187)



19. A stocking comprising fabric having opposite edge portions, and yarn knitted into connected courses and wales and interlooped with said opposite edge portions to form a knitted seam therefor.

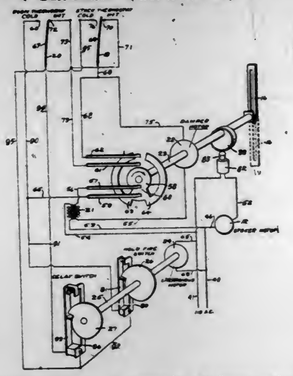
2,319,773
CONTROL DEVICE
George R. Ericson, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application February 3, 1942, Serial No. 429,427
41 Claims. (Cl. 123—119)

1. In an internal combustion engine having an intake manifold, means for introducing a fuel air mixture to said manifold and means for controlling the richness of said mixture in accordance with operating conditions of the engine and the position of the throttle to supply a mixture of proper richness for maximum anti-detonating quality when the vacuum in the manifold is low, means for governing the richness of said mixture in accordance with requirements for maximum richness consistent with maximum power when the engine is operated under wide open throttle conditions at sufficient speed to maintain a predetermined vacuum in the manifold, and means



for governing the richness of said mixture in accordance with requirements for maximum economy when the engine is being operated with the throttle partly open and under conditions such as to maintain a predetermined vacuum in the manifold.

2,319,774
STOKER CONTROL
Armand T. Rankin, Indianapolis, Ind., assignor, by direct and mesne assignments, of one-half to Sun-Fire Stoker Corporation, a corporation of Indiana, and one-fourth to William J. Bash, Champaign, Ill.
Application June 24, 1939, Serial No. 280,900
7 Claims. (Cl. 236—9)

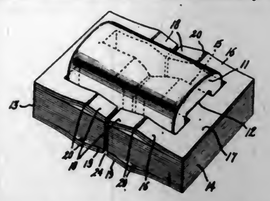


1. For controlling a motor driven stoker applied to a heater having a draft control damper, a control system comprising in combination, a high temperature limit thermostat switch at the heater; a room temperature responsive thermostat switch; a stoker motor control switch; a damper operating motor; a damper motor control switch operated by the damper motor; means driven by the damper motor to actuate said stoker motor switch; an intermittent switch; a second intermittent switch; means continuously operating both of the intermittent switches between on and off positions at a predetermined rate of speed; and a circuit including a source of electrical energy, said damper motor, said intermittent switches, said room thermostat switch in a room no-heat-demand condition, and said high tem-

perature limit switch, said circuit being closable by one of said intermittent switches through said damper motor control switch only upon said high temperature limit switch being in its cold position, said damper motor control switch being formed to close the circuit through the damper motor to operate that motor to the open draft position and then stop that motor upon each closure of said one intermittent switch, and upon closing of the other intermittent switch, to again close the circuit through said damper motor to cause that motor to operate to the closed draft position, said stoker motor switch being closed and opened by the damper motor in accordance with open draft and closed draft damper positions.

2,319,775
ELECTROMAGNETIC INDUCTION APPARATUS
Armin F. Mittermaier, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Original application March 9, 1940, Serial No. 323,235. Divided and this application September 5, 1940, Serial No. 355,525
6 Claims. (Cl. 175—356)

1. Electromagnetic induction apparatus comprising a form-wound conductive-winding structure or coil having a substantially rectangular window therein, a pair of groups of core laminations of E shape, and impregnating cement, the groups of laminations each having the middle legs of the E inserted in the coil window and extending toward the corresponding legs of the other group with a fixed gap between opposite leg tips, the middle leg substantially filling the coil window, the top and bottom laminations of the groups having their legs bent toward each other with the outer legs bent more than the inner legs, whereby the laminations are securely wedged in

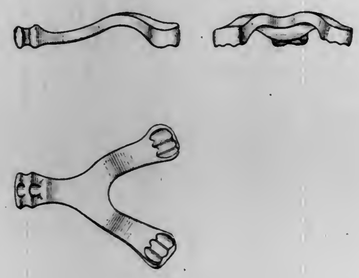


the coil window and the portions of the laminations both within and surrounding the coil are securely held together, whereby the laminations are locked and noise is prevented, the said cement impregnating the space within the coil window not occupied by the laminations.

DESIGNS

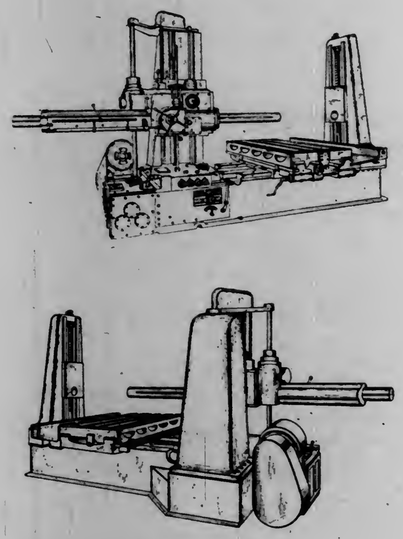
MAY 18, 1943

135,685
DESIGN FOR A TEETHING DEVICE
Roland S. Claflin, Park Ridge, Ill.
Application March 26, 1943, Serial No. 109,822
Term of patent 14 years



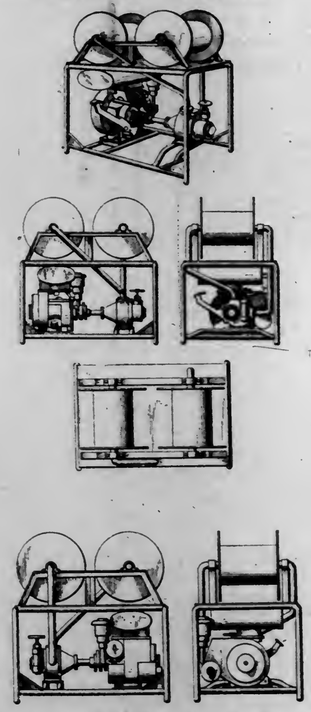
The ornamental design for a teething device, substantially as shown.

135,686
DESIGN FOR A HORIZONTAL BORING MILL
Frank S. Jones, Drexel Hill, Pa.
Application December 5, 1941, Serial No. 104,498
Term of patent 3½ years



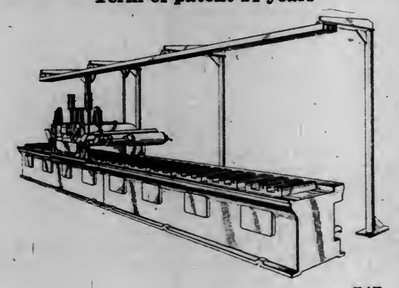
The ornamental design for a horizontal boring mill, as shown and described.

135,687
DESIGN FOR A FUEL DISPENSING UNIT
Frederick E. Neef, Jr., United States Army, Baltimore, Md.
Application May 27, 1942, Serial No. 107,026
Term of patent 3½ years

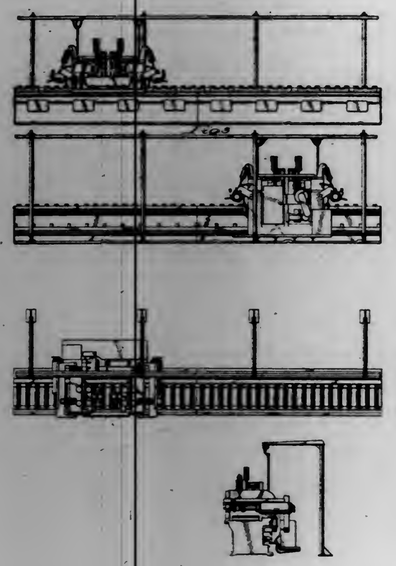


The ornamental design for a fuel dispensing unit, as shown.

135,688
DESIGN FOR A MILLING MACHINE
Rudolph F. Onsrud, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill., a corporation of Illinois
Application February 1, 1943, Serial No. 109,407
Term of patent 14 years

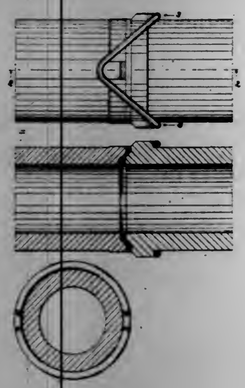


135,688—Continued



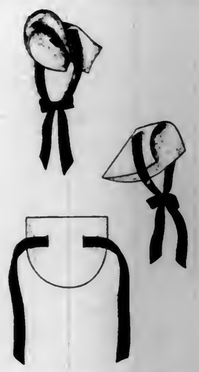
The ornamental design for a milling machine, as shown.

135,689
DESIGN FOR A PLIANT PIPE COUPLING OR SIMILAR ARTICLE
Ivan Ročič, New York, N. Y.
Application March 7, 1942, Serial No. 106,116
Term of patent 3½ years



The ornamental design for a pliant pipe coupling or similar article, as shown and described.

135,690
DESIGN FOR A HAT
Doris Vernon, New York, N. Y.
Application February 16, 1943, Serial No. 109,555
Term of patent 3½ years

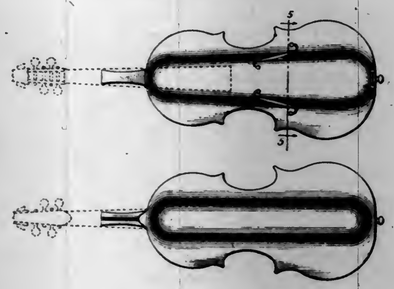


The ornamental design for a hat substantially as shown.

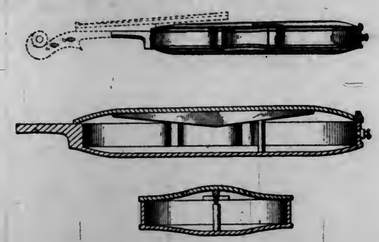
135,691
DESIGN FOR A BADGE OR SIMILAR ARTICLE OF JEWELRY
John Feldner, Newark, Ohio
Application August 31, 1942, Serial No. 108,077
Term of patent 7 years

The ornamental design for a badge or similar article of jewelry, as shown.

135,692
DESIGN FOR A VIOLIN
Mathew Little, Walla Walla, Wash.
Application February 24, 1943, Serial No. 109,617
Term of patent 14 years

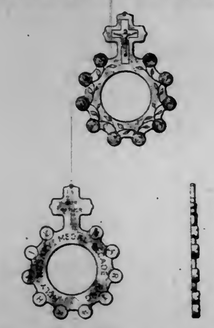


135,692—Continued



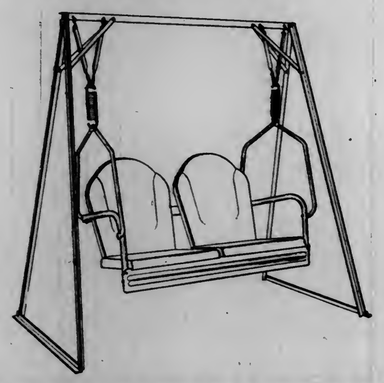
The ornamental design for a violin, as shown and described.

135,693
DESIGN FOR A RELIGIOUS ROSARY OR SIMILAR ARTICLE
Francis X. Smith, Brooklyn, N. Y.
Application March 31, 1943, Serial No. 109,877
Term of patent 14 years



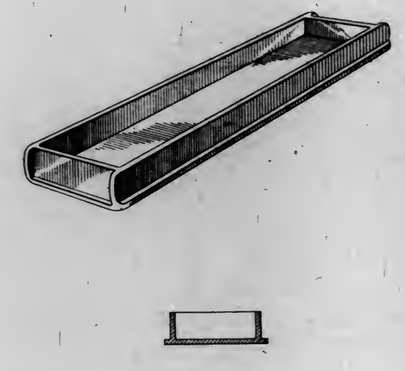
The ornamental design for a religious rosary or similar article, as shown.

135,694
DESIGN FOR A SWING
William I. Smith, Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application March 10, 1943, Serial No. 109,713
Term of patent 14 years



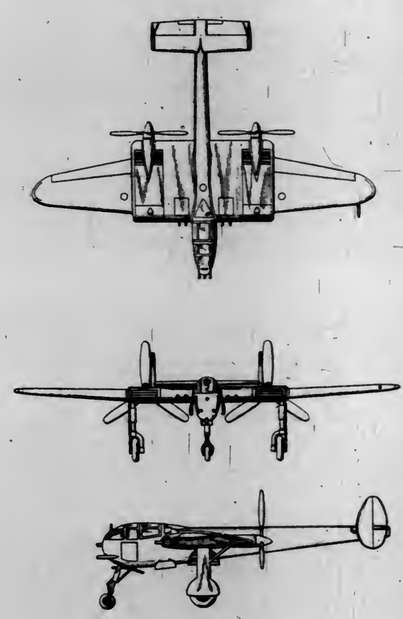
The ornamental design for a swing, as shown.

135,695
DESIGN FOR A COIN TRAY
George L. Allen, Lake Geneva, Wis.
Application July 24, 1942, Serial No. 107,664
Term of patent 3½ years



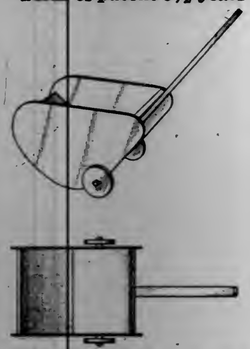
The ornamental design for a coin tray, as shown and described.

135,696
DESIGN FOR AN AIRPLANE
Roland Joseph Duhamel, Maxwell Field, Ala.
Application July 4, 1942, Serial No. 107,430
Term of patent 7 years



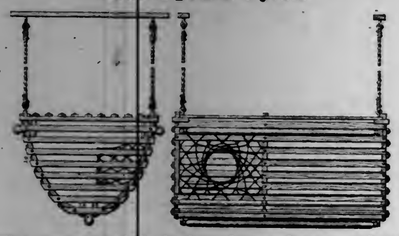
The ornamental design for an airplane, as shown.

135,697
DESIGN FOR A HAND CART
Verle C. Kenney, Chagrin Falls, Ohio
Application August 19, 1942, Serial No. 107,965
Term of patent 3½ years



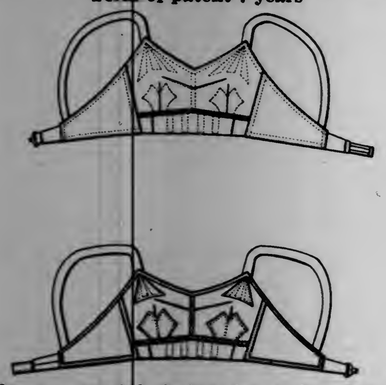
The ornamental design for a hand cart, substantially as shown.

135,698
DESIGN FOR A LAMP
Michael Samit, New York, N. Y.
Application October 6, 1942, Serial No. 108,444
Term of patent 7 years



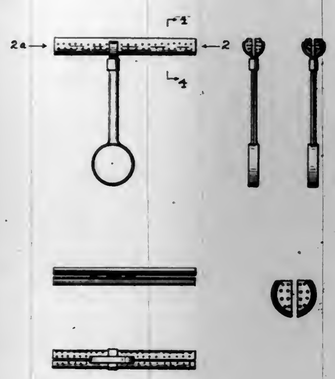
The ornamental design for a lamp, substantially as shown.

135,699
DESIGN FOR A BRASSIERE
Pierre Amyot, Quebec, Quebec, Canada
Application March 6, 1943, Serial No. 109,688
Term of patent 7 years



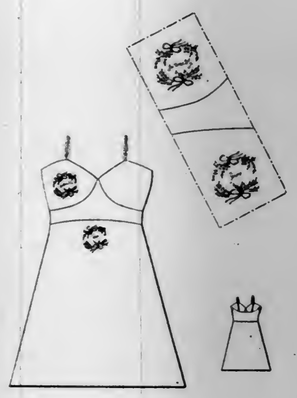
The ornamental design for a brassiere, as shown.

135,700
DESIGN FOR A CIGARETTE HOLDER RING
Jacob M. Bock, New York, N. Y.
Application August 11, 1942, Serial No. 107,880
Term of patent 7 years



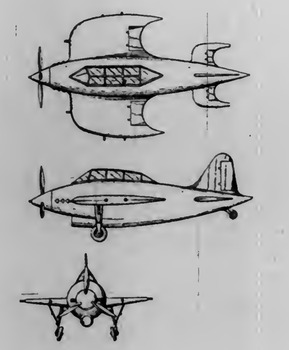
The ornamental design for a cigarette holder ring, as shown.

135,701
DESIGN FOR A SLIP OR SIMILAR ARTICLE
Frances Hawkes, Des Moines, Iowa, assignor to Rollins Hosiery Mills, Inc., Des Moines, Iowa, a corporation of Delaware
Application February 26, 1943, Serial No. 109,630
Term of patent 14 years



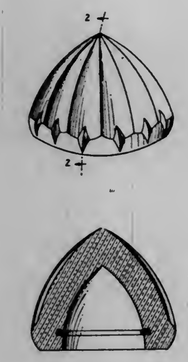
The ornamental design for a slip or similar article, as shown and described.

135,702
DESIGN FOR AN AIRPLANE
Francis Stephen Hornak, Bridgeport, Conn.
Application November 27, 1942, Serial No. 108,888
Term of patent 14 years



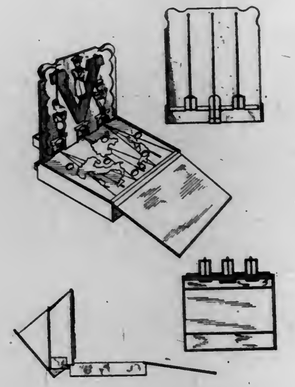
The ornamental design for an airplane, as shown.

135,703
DESIGN FOR A FRUIT JUICE EXTRACTOR
Thomas Raymond Bunton, Calgary, Alberta, Canada
Application March 11, 1940, Serial No. 90,830
Term of patent 7 years



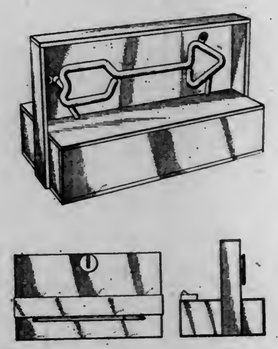
The ornamental design for a fruit juice extractor, substantially as shown.

135,704
DESIGN FOR A GAME DEVICE
Burton Daniels, New York, N. Y.
Application October 9, 1942, Serial No. 108,478
Term of patent 3½ years



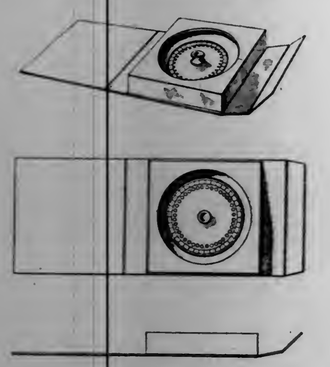
The ornamental design for a game device, as shown.

135,705
DESIGN FOR A PORTABLE SIGN
John B. Cottell, Cincinnati, Ohio, assignor of one-half to Harold A. Cline, Cincinnati, Ohio
Application August 28, 1942, Serial No. 108,050
Term of patent 14 years



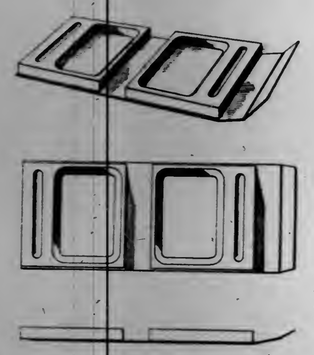
The ornamental design for a portable sign, as shown and described.

135,706
DESIGN FOR A GAME DEVICE
Joseph W. Drueke, Grand Rapids, Mich.
Application March 5, 1943, Serial No. 109,672
Term of patent 3½ years



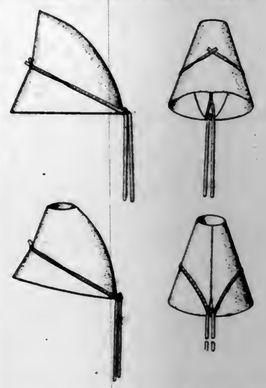
The ornamental design for a game device, as shown.

135,707
DESIGN FOR A GAME DEVICE
William Francis Drueke, Jr., Grand Rapids, Mich.
Application March 5, 1943, Serial No. 109,673
Term of patent 3½ years



The ornamental design for a game device, as shown.

135,708
DESIGN FOR A HAT
Zinaida Harpignies, Kew Gardens, N. Y.
Application October 7, 1942, Serial No. 108,456
Term of patent 3½ years



The ornamental design for a hat, as shown.

135,709
DESIGN FOR A RIBBON POCKET BELT
Dora Vertes, New York, N. Y., assignor to Heirloom Needlework Guild, Inc., New York, N. Y., a corporation of New York
Application March 16, 1943, Serial No. 109,767
Term of patent 3½ years



The ornamental design for a ribbon pocket belt, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

Addis, Charles M., doing business as Refiners Lubricating Company, New York, N. Y. Cleaning material. Serial No. 457,456; May 18. Class 4.

Amalgamated Dental Company Limited, The, London, England. Synthetic resin plastics. Serial No. 457,489; May 18. Class 44.

Anma Card Company. (See Butler, Earl Pleasant.)

Aspinall, Robert, doing business as Robert Aspinall Company and West American Sales Co., San Francisco, Calif. Jellies, fruit preserves, canned fruits and canned vegetables. Serial No. 458,995; May 18. Class 46.

Associated Retail Millinery, Inc., Dallas, Tex. Hats for women. Serial No. 458,217; May 18. Class 39.

Automatic Products Company, Milwaukee, Wis. Strainers. Serial No. 443,870; May 18. Class 13.

Bank of America National Trust and Savings Association, San Francisco, Calif. Printed forms. Serial No. 458,384; May 18. Class 37.

Barbera, Edward, Lodi, Calif. Fresh grapes. Serial No. 458,719; May 18. Class 46.

Barkin, Levin & Co., Inc., New York, N. Y. Ladies' and misses' coats. Serial No. 459,067; May 18. Class 39.

Beach Soap Company, Lawrence, Mass. Soap. Serial Nos. 451,220–1; May 18. Class 4.

Bemis Bro. Bag Company, St. Louis, Mo. Cotton fabric bags. Serial No. 458,676; May 18. Class 2.

Bendix Aviation, Ltd., North Hollywood, Calif. Radio transmitters. Serial No. 457,294; May 18. Class 21.

Beverages of America Bottling Company. (See Webb, Samuel E.)

Blucolite Company. (See Chapman, Clyde C.)

Boye Needle Company, The, Chicago, Ill. Metal, composition, and wooden crochet hooks. Serial No. 429,392; May 18. Class 40.

Boye Needle Company, The, Chicago, Ill. Metal, composition, and wooden crochet hooks. Serial No. 429,641; May 18. Class 40.

Bulkley, Weinberg & Tormey, Incorporated, New York, N. Y. Fabrics in the piece. Serial No. 459,255; May 18. Class 42.

Butler, Earl Pleasant, doing business under the name of Anma Card Company, Tulsa, Okla. Playing cards. Serial No. 454,684; May 18. Class 22.

Cataldo, Angelo, doing business as Liberty Candy Co. and Liberty Chocolate Co., Boston, Mass. Candy. Serial No. 459,216; May 18. Class 46.

Chapman, Clyde D., doing business as Blucolite Company, Spokane, Wash. Liquid cleaning, glazing, and polishing material. Serial No. 455,046; May 18. Class 16.

Charles & Co., Inc., New York, N. Y. Smoking tobacco. Serial No. 455,226; May 18. Class 17.

Chelsea Fan & Blower Co., Inc., Irvington, N. J. Exhaust fans and blowers. Serial No. 456,651; May 18. Class 34.

Cohn & Rosenberger, Inc., New York, N. Y. Necklaces and bracelets, not including watches, etc. Serial No. 458,455; May 18. Class 28.

Commander Battery Manufacturing Co., Chicago, Ill. Storage batteries. Serial No. 451,186; May 18. Class 21.

County Perfumery Company, Inc., The, Bloomfield, N. J. Brilliantine. Serial No. 455,908; May 18. Class 6.

Dell Publishing Company, Inc., New York, N. Y. Magazine. Serial No. 459,283; May 18. Class 18.

Dell Publishing Company, Inc., New York, N. Y. Magazine. Serial No. 459,536; May 18. Class 38.

Dermetics, Inc., Seattle, Wash. Cosmetic applicators and rouge applicators. Serial No. 450,177; May 18. Class 6.

Dickinson, Albert, Company, The, Chicago, Ill. Shelled popcorn. Serial No. 458,683; May 18. Class 46.

Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Ship anchors. Serial No. 459,259; May 18. Class 14.

Esterbrook Steel Pen Manufacturing Company, The, Camden, N. J. Writing pens of all kinds, fountain pens, and parts thereof. Serial No. 459,044; May 18. Class 37.

Evangeline Products, Inc., Brooklyn, N. Y. Shoe dressings and shoe polishes. Serial No. 458,589; May 18. Class 4.

Fear, Ernest D., Kansas City, Mo. Mixture comprising dextrose, lactose, carotene etc. Serial Nos. 459,170–1; May 18. Class 6.

Firecraft Door Company, Chicago, Ill. Publication. Serial No. 459,465; May 18. Class 38.

Forged Steel Products Company, Newport, Pa. Wire cutters, water pump pliers, brake pliers, etc. Serial No. 458,963; May 18. Class 23.

Frank-Cerf, Inc., New York, N. Y. Women's, misses' and girls' coats, suits, dresses, etc. Serial No. 459,022; May 18. Class 39.

Galbraith, C. C., & Son, Inc., New York, N. Y. Electric heaters and electric water lights. Serial No. 456,794; May 18. Class 21.

Gale Shoe Mfg. Co., Boston, Mass. Shoes. Serial No. 449,046; May 18. Class 39.

Green, Monroe D., San Francisco, Calif. Patna type rice. Serial No. 451,712; May 18. Class 46.

Grindex Company. (See Schmidt, Glenn T.)

Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Medicinal tablet. Serial No. 458,685; May 18. Class 6.

Harrison, Monroe, Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages. Serial No. 451,382; May 18. Class 45.

Hilliard Corporation, The, Elmira, N. Y. Filtering apparatus. Serial No. 458,654; May 18. Class 31.

Hirsch, Fred S., doing business as Innerclean Co., Los Angeles, Calif. Laxative. Serial No. 459,266; May 18. Class 6.

Innerclean Co. (See Hirsch, Fred S.)

International Plastic Corporation, Morristown, N. J. Tape dispensers. Serial No. 459,568; May 18. Class 2.

Inter-State Fruit & Vegetable Co., doing business as Tex-Rio Fruit Co., La Feria, Tex. Fresh citrus fruits. Serial No. 458,398; May 18. Class 46.

Jones, B. Marghretta, Chicago, Ill. Hair preparation. Serial No. 453,009; May 18. Class 6.

Lee, Frank H., Company, The, Hartford, Conn. Men's hats and caps. Serial No. 432,647; May 18. Class 39.

Leggett, Francis H., & Company, New York, N. Y. Canned soy bean succotash. Serial No. 458,658; May 18. Class 46.

Liberty Candy Co. (See Cataldo, Angelo.)

Liberty Chocolate Co. (See Cataldo, Angelo.)

Lippey, David, doing business as The Lippey Company, Los Angeles, Calif. Shoe laces. Serial No. 457,959; May 18. Class 40.

Lockport Cotton Batting Co., Lockport, N. Y. Cotton batting or cotton batts. Serial No. 448,157; May 18. Class 1.

Lowe, E. S. Company, Inc., New York, N. Y. Game apparatus. Serial No. 456,875; May 18. Class 22.

Mallinson Fabrics Corporation, New York, N. Y. Piece goods of silk, wool, cotton, etc. Serial No. 455,346; May 18. Class 42.

Manawul Patent Corporation, Boston, Mass. Yarns. Serial No. 450,073; May 18. Class 43.

Mayer, Oscar, & Co., Chicago, Ill. Meat products. Serial No. 453,896; May 18. Class 46.

McDonald, Wm. P., Corporation, Lakeland, Fla. Fresh citrus fruits. Serial No. 458,943; May 18. Class 46.

McKesson & Robbins, Incorporated, New York, N. Y. Multiple vitamin product. Serial No. 459,343; May 18. Class 6.

Metal Cutting Tools Inc., Rockford, Ill. Metal cutting tools. Serial No. 458,843; May 18. Class 23.

Metrical Laboratories, Inc., Ann Arbor, Mich. Precision instruments. Serial No. 458,597; May 18. Class 26.

Mixing Equipment Co., Inc., Rochester, N. Y. Fluid agitating and mixing devices. Serial No. 457,654; May 18. Class 23.

Monarch Liquor Corp., Syracuse, N. Y. Wines. Serial No. 457,836; May 18. Class 47.

National Cash Register Company, The, Dayton, Ohio. Registering machines. Serial No. 455,021; May 18. Class 26.

New England Wholesale Co-operative Buyers. (See Weber, Holiday.)

Newport Industries, Inc., Pensacola, Fla. Solid zinc-treated rosin. Serial No. 458,544; May 18. Class 1.

Newport Industries, Inc., Pensacola, Fla. Polymerized or partially polymerized rosin. Serial No. 459,127; May 18. Class 1.

Pacific Huts, Inc., Seattle, Wash. Nuts, bolts, drive clips, etc. Serial No. 458,403; May 18. Class 13.

Pacific Mills, Boston, Mass. Piece goods. Serial No. 458,868; May 18. Class 42.

Pacific Products Corporation, Seattle, Wash. Oily lubricants. Serial No. 456,687; May 18. Class 15.

Paper and Industrial Appliances, Inc., New York, N. Y. Beating engines comprising apparatus for paper making. Serial No. 458,571; May 18. Class 23.

Para-Tone Co. Inc., Chicago, Ill. Transfer screen sheets. Serial No. 456,830; May 18. Class 37.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Dungarees, work shirts and overalls for men and boys. Serial No. 458,949; May 18. Class 39.

Prim-Era Hosiery Mills, Inc., Chester, Ill. Ladies' hosiery. Serial No. 459,082; May 18. Class 39.

Q-O-S Corporation, New York, N. Y. Lens. Serial No. 457,613; May 18. Class 26.

RCA Manufacturing Company, Inc., assignor to Radio Corporation of America, Camden, N. J. Electrically operated vacuum cleaners, etc., parts thereof, attachments thereto, and accessories. Serial No. 444,741; May 18. Class 21.

Radio Corporation of America. (See RCA Manufacturing Company, Inc.)

Rahn, Otto, Ithaca, N. Y. Series of puzzle games. Serial No. 458,741; May 18. Class 22.

Refiners Lubricating Company. (See Addis, Charles M.)
Reverie Inc., New York, N. Y. Lanolin cream preparation. Serial No. 457,687; May 18. Class 6.
Robins, A. H., Company, Inc., Richmond, Va. Multiple vitamin preparation Serial No. 459,289; May 18. Class 6.
Rollins Hosiery Mills, Inc., Des Moines, Iowa. Ladies' underwear. Serial No. 458,883; Mar. 18. Class 39.
Roman Cleanser Co., Detroit, Mich. Cleaner for painted walls, woodwork, linoleum, etc. Serial No. 457,752; May 18. Class 4.
Royal Crown Bottling Company of Newark, Inc., Newark, N. J. Dies and alignment apparatus. Serial No. 459,316; May 18. Class 23.
San Marino Wine Corporation, New York, N. Y. Champagne wine. Serial No. 458,795; May 18. Class 47.
Schmidt, Glenn T., doing business as Grindex Company, Cincinnati, Ohio. Coffee grinding machine. Serial No. 459,340; May 18. Class 23.
Scovill Manufacturing Company, Waterbury, Conn. Hose reels. Serial No. 459,573; May 18. Class 2.
Sea-Net Manufacturing Company, Los Angeles, Calif. Devices adapted for attachment to the feet for use as aids in swimming. Serial No. 456,906; May 18. Class 22.
Southland Manufacturing Co., Inc., Wilmington, N. C. Men's and boys' outer skirts, pajamas, underwear, etc. Serial No. 458,250; May 18. Class 39.
Sperti, Inc., Cincinnati, Ohio. Electrical vacuum switches and electronic tubes. Serial No. 458,200; May 18. Class 21.
Staley, A. E., Manufacturing Company, Decatur, Ill. Plant growth promoting substances. Serial No. 459,500; May 18. Class 6.
Stein, Joseph, doing business as Joseph Stein Coat Co., New York, N. Y. Ladies' and misses' coats, suits, skirts. Serial No. 456,725; May 18. Class 39.
Tex-Rio Fruit Co. (See Inter-State Fruit & Vegetable Co.)
Toledo Soybean Products Company, The, Toledo, Ohio. Soybean oil meal. Serial No. 458,022; May 18. Class 46.
Traders Oil Mill Company, Fort Worth, Tex. Specially processed cottonseed flour for human consumption. Serial No. 459,156; May 18. Class 46.
Tricamp Corporation, New York, N. Y. Hosiery. Serial No. 459,055; May 18. Class 39.
Turlock Co-Operative Growers, Modesto and San Francisco, Calif. Canned fruits. Serial No. 458,418; May 18. Class 46.
United Gilsonite Laboratories, Scranton, Pa. Chemical drain pipe solvent. Serial No. 459,446; May 18. Class 6.
Valena Wine Co., Inc., New York, N. Y. Wines. Serial No. 456,546; May 18. Class 47.
Volpit Chewing Candy Co., Inc., Long Island City, N. Y. Chewing candies. Serial No. 458,377; May 18. Class 46.
Warwick Chemical Company, West Warwick, R. I. Water repellent compounds. Serial No. 459,455; May 18. Class 6.
Webb, Samuel E., doing business as Beverages of America Bottling Company, Philadelphia, Pa. Nonalcoholic, maltless beverages and products for use in making the same. Serial No. 458,519; May 18. Class 45.
Weber, Holiday, doing business as New England Wholesale Co-Operative Buyers, Boston, Mass. Door mats. Serial No. 458,748; May 18. Class 50.
Wellman, S. K., Company, The, Cleveland, Ohio. House organ. Serial No. 459,279; May 18. Class 38.
West American Sales Co. (See Aspinall, Robert.)
White Swan Uniforms, Inc., Yonkers and New York, N. Y. Nurses' uniforms. Serial No. 458,558; May 18. Class 39.
Wiesehan, Henry, McAllen, Tex. Fresh vegetables. Serial No. 458,887; May 18. Class 46.
Young Radiator Company, Racine, Wis. Air conditioning and ventilating units. Serial No. 458,420; May 18. Class 34.
Ziegler, John C., Weslaco, Tex. Egg poachers. Serial No. 458,382; May 18. Class 13.

LIST OF REGISTRANTS OF TRADE-MARKS

Alba Pharmaceutical Company, Inc., New York, N. Y. Inorganic preparation for use in the treatment of various respiratory diseases. 401,437; May 18; Serial No. 456,112; published Dec. 15. 1942. Class 6.
Albi Chemical Corporation, New York, N. Y. Chemical preparations. 401,429; May 18; Serial No. 454,567; published Mar. 9, 1943. Class 6.
American Bandage Corp., Chicago, Ill. Gauze bandages. 401,435; May 18; Serial No. 455,494; published Nov. 17, 1942. Class 44.
American Druggists Syndicate, Inc., Long Island City, N. Y. Vitamin preparation. 401,455; May 18; Serial No. 457,293; published Mar. 9, 1943. Class 6.
American Glue Company, Boston, Mass., assignor, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y. Flint, garnet, and emery paper, and cloth. 169,485; renewed June 19, 1943.
American Oil Corporation, Jackson, Mich., assignor to American Oil & Grease Corporation, Chicago, Ill. Lubricating oils. 170,531; renewed July 17, 1943.
American Raw Hide Products Co., Providence, R. I Mallets and hammers having rawhide faces and rawhide faces for hammers and loom pickers and sweepstick heads for looms. 401,441; May 18; Serial No. 456,649; published Mar. 9, 1943. Class 23.
American Tripoli Company, assignor to Barnsdall Tripoli Corporation, Seneca, Mo. Tripoli flour. 167.792; renewed May 8, 1943.
Aralac, Inc., New York, N. Y Fibrous materials in the form of filaments. 401,436; May 18; Serial No. 455,838; published Mar. 9, 1943. Class 1.
Aristoc Limited, Nottinghamshire, England. Socks and stockings. 401,411; May 18; Serial No. 449,247; published Feb. 9, 1943. Class 39.
Arizona Farms, Tolleson, Ariz Fresh vegetables. 401,450; May 18; Serial No. 457,110; published Mar. 9, 1943. Class 46.
Babs Creations, Incorporated, New York, N. Y. Perfumery and cosmetics. 401,407; May 18; Serial No. 446,483; published Mar. 9, 1943. Class 6.
Barnsdall Tripoli Corporation. (See American Tripoli Company, assignor.)
Battle Creek Food Company, The, Battle Creek, Mich Cereal breakfast food. 172,764; renewed Sept. 11, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Laxative. 172,885; renewed Sept. 11, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Breakfast cereals. 173,172; renewed Sept. 18, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Nut cereal food. 173,488; renewed Sept 25, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Vegetable flavors. 173,501; renewed Sept. 25, 1943.
Beaton, J. R., Co., Inc., Inc., New York, N. Y., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Underwear for girls and women 401,453; May 18; Serial No. 457,267; published Mar. 2, 1943. Class 39.
Beaux Arts Professional Instrument Mfg. Co. (See Pomilla, Frances.)
Bendix Aviation Corporation, South Bend, Ind. Carburetors, governors, and accessories therefor. 401,472; May 18; Serial No. 457,845; published Mar. 2, 1943. Class 23.
Bereman, James H, doing business as The Stillman Company, Aurora, Ill. Creams suitable for the treatment of freckles. 172,550; renewed Sept. 4, 1943.
Berkshire Knitting Mills. (See Beaton, J. R., Co., Inc., assignor.)
Bernstein, Herbert H., doing business as Typosture Chair Co., New York, N. Y Office chairs. 401,475; May 18; Serial No. 457,891; published Mar. 9, 1943. Class 32.
Better Monkey Grip Co., Arlington, Tex. Tire casing and tube patches and tire and tube patching kits for use either as a vulcanizing unit or as a cold repairing unit. 401,447; May 18; Serial No. 456,951; published Mar. 9, 1943. Class 35.
Bevin-Wilcox Line Company, East Hampton, Conn. Fish lines. 171,121; renewed July 31, 1943.
Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa. Finishing rolls for rolling mills. 401,486; May 18. Class 23.
Blaney Bakeries, Inc., Philadelphia, Pa. Dog food. 401,464; May 18; Serial No. 457,671; published Mar. 9, 1943. Class 46.
Blue Buckle Overall Co. Inc., Lynchburg, Va. Overalls and overall jackets, band overalls and dungarees, work pants and shirts, etc., for men and boys. 401,465; May 18; Serial No. 457,714; published Mar. 2, 1943. Class 39.
Broudy, Albert M., Pittsburgh, Pa. Envelopes provided with joined attaching strips. 401,483; May 18. Class 37.
Brown, Andrew, Company, Los Angeles, Calif. Lacquer coating for wood, metal, fabric or rubber surfaces. 401,491; May 18. Class 16.
Camloc Fastener Company, New York, N. Y. Tools. 401,459; May 18; Serial No. 457,458; published Mar. 9, 1943. Class 23.
Candy Lane Inc., Beverly Hills, Los Angeles, and Glendale, Calif. Candies and candy confections. 401,425; May 18; Serial No. 453,392; published Mar. 9, 1943. Class 46.
Carborundum Company, The. (See American Glue Company, assignor.)
Chance, A. B., Company, Centralia, Mo. Linemen's platforms, platform railings and live line guards. 401,462; May 18; Serial No. 457,492; published Mar. 9, 1943. Class 12.

Chapman, R. H., Jr. (See Sanozone Chemical Co., assignor.)
Charles of the Ritz, Inc., New York, N. Y. Perfumes and toilet water. 401,410; May 18; Serial No. 449,090; published Mar. 9, 1943. Class 6.
Chemical Products Company, Mineola, N. Y. Chemical for removing foreign substances from airplane engines and parts. 401,489; May 18. Class 6.
Chicago Pharmacal Company, The, Chicago, Ill. Preparation for use in the treatment of spastic conditions of the stomach and bowls. 401,449; May 18; Serial No. 457,074; published Mar. 9, 1943. Class 6.
Chillicothe Paper Company, The, Chillicothe, Ohio. Book paper, coated and uncoated, bond paper, and writing paper. 171,109; renewed July 31, 1943.
Claire Manufacturing Company, Chicago, Ill. Self polishing wax for floors, linoleum, and furniture. 401,454; May 18; Serial No. 457,272; published Mar. 9, 1943. Class 16.
Cohen, Friedlander & Martin Co., Toledo, Ohio. Ladies' suits and coats. 166,598; renewed Apr. 10, 1943.
Cohn & Rosenberger, Inc., New York, N. Y. Necklaces and bracelets, finger rings, earrings, etc. 401,445–6; May 18; Serial Nos. 456,864–5; published Mar. 9, 1943. Class 28.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 401,416; May 18; Serial No. 451,671; published Mar. 9, 1943. Class 4.
Cotter, R. E., Company, San Francisco, to Monterey Canning Company, Monterey, Calif., successor. Canned vegetables, canned fruits, and canned fish. 166,453; renewed Apr. 3, 1943.
Creolin Co., The., Rahway, N. J. Chemical substance used as a wood preserver. 167,589; renewed May 1, 1943.
Diamond Calk Horseshoe Company, Duluth, Minn. Wrenches and parts thereof, etc. 401,456–7; May 18; Serial Nos. 457,386–7; published Mar. 9, 1943. Class 23.
Diamond Match Company, The, Chicago, Ill., assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y. Matches. 167,347–8; renewed May 1, 1943.
Di Giorgio Fruit Corporation. (See Earl Fruit Company, assignor.)
Dirats Manufacturing Company, Westfield, Mass. Abrasive grinding wheels. 401,484; May 18. Class 4.
Dixie Distributors Incorporated. (See Harwood Brothers, Inc.)
Driver-Harris Company, Harrison, N. J. Metallic wire and strips. 401,414; May 18; Serial No. 449,853; published Feb. 24, 1942. Class 21.
Dura Fixture Company, Statesville, N. C. Convertible studio davenport beds. 401,473; May 18; Serial No. 457,870; published Mar. 9, 1943. Class 32.
E-Z Products. (See Steckler, Nat P.)
Earl Fruit Company, Sacramento, assignor to Di Giorgio Fruit Corporation, San Francisco, Calif. Fresh cantaloupes. 168,637; renewed May 29, 1943.
Eastman Kodak Company, The, Jersey City, N. J., and Rochester, N. Y. Contrast medium for radiography. 401,476; May 18; Serial No. 458,010; published Mar. 9, 1943. Class 6.
Eisendrath, Joseph N., Company, Chicago, Ill. Leather gloves, gauntlets, and mittens. 170,405–6; renewed July 17, 1943.
Elevator Safety Corporation, New York, N. Y. Elevator rollers guides. 401,430; May 18; Serial No. 455,049; published Mar. 9, 1943. Class 23.
Erie County Milk Association, Erie, Pa. Ice cream. 166,816; renewed Apr. 17, 1943.
Firestone Tire & Rubber Company, The, Akron, Ohio. Fountain pens, mechanical pencils, and wooden lead pencils. 401,421; May 18; Serial No. 453,105; published Mar. 9, 1943. Class 37.
Firestone Tire & Rubber Company, The, Akron, Ohio. Ash trays. 401,422; May 18; Serial No. 453,106; published Mar. 9, 1943. Class 8.
Flex-O-Glass Manufacturing Co. and Warp Brothers. (See Warp, Harold.)
Flintkote Company, The, New York, N. Y. Bituminous roofing cement. 401,412; May 18; Serial No. 449,259; published Feb. 2, 1943. Class 12.
Flower Foods, Inc., Maywood, Ill. Composition containing chemical ingredients for cut plants. 401,470; May 18; Serial No. 457,808; published Mar. 9, 1943. Class 6.
Foley & Company, Chicago, Ill. Hair oils. 172,974; renewed Sept. 11, 1943.
Foley & Company, Chicago, Ill. Talcum powder. 173,472; renewed Sept. 25, 1943.
General Mills, Inc. (See Larrowe Milling Company, The, assignor.)
General Mills, Inc. (See Noblesville Milling Co., assignor.)
General Mills, Inc. (See Washburn-Crosby Company, assignor.)
Gulf States Steel Company, Birmingham, Ala., assignor to Republic Steel Corporation, Cleveland, Ohio. Barbed wire. 171,810–12; renewed Aug. 14, 1943.
Hanley and Kinsella Laboratories, Inc., St. Louis, Mo. Nonspray type liquid insecticide. 401,488; May 18. Class 6.
Harwood Brothers, Inc., Richmond, Va., assignor to Dixie Distributors Incorporated, Ann Arbor, Mich. Lubricating oils and greases. 172,032; renewed Aug. 21, 1943.
Hawaiian Pineapple Company, Ltd., assignor to Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii, and San Francisco, Calif. Canned pincapple. 169,819; renewed July 3, 1943.
Hoffmann-La Roche, Inc., Nutley, N. J. Vitamin preparation. 401,460; May 18; Serial No. 457,469; published Mar. 9, 1943. Class 6.
Hordern-Richmond Aircraft Limited, Haddenham, England. Aeroplanes made principally of wood and wooden structural parts thereof. 401,439; May 18; Serial No. 456,184; published Mar. 9, 1943. Class 19.
Hordern-Richmond Aircraft Limited, Haddenham, England. Plywood. 401,440; May 18; Serial No. 456,185; published Mar. 9, 1943. Class 12.
Howdy Company, The, to Seven Up Company, The, St. Louis, Mo. Grape-flavored sugar drink concentrate. 173,294; renewed Sept. 18, 1943.
Industrial Engineering Co. Inc., Minneapolis, Minn. Burr trimming machines, cushioned cutter pilots, drill grinding fixture, etc. 401,452; May 18; Serial No. 457,222; published Mar 2, 1943. Class 23.
Industrial Sales Corporation, New York, N. Y. Linseed oil, denatured alcohol, pine oil, etc. 401,433; May 18; Serial No. 455,269; published Mar. 9, 1943. Class 16.
International Shoe Co., St. Louis, Mo. Boots and shoes. 168,159; renewed May 15, 1943.
Ivanhoe Fruit Association, Klink, Calif. Fresh deciduous fruits. 168.879; renewed May 29, 1943.
Jay Dee Drug Co., Chicago, Ill. Preparation for imparting color to gray hair. 401,495; May 18. Class 6.
Jell-Well Dessert Company, Ltd. (See Miles Manufacturing Company.)
Kales Stamping Company, Detroit, Mich., by change of name, to Whitehead Stamping Company. Mirrors. 170,013; renewed July 10, 1943.
Katzinger, Edward, Company, The, Chicago, Ill. Baking pans. 167,242; renewed Apr. 24, 1943.
Katzinger, Edward, Company, The, Chicago, Ill. Baking pans. 167,245–6; renewed Apr. 24, 1943.
Kellogg Toasted Corn Flake Co., to Kellogg Company, Battle Creek, Mich., successor. Cereal breakfast food. 170,696; renewed July 24, 1943.
Kimberlin, Carna M., doing business as Kimberlin Manufacturing Co., Spokane, Wash. Heaters using liquid fuels, and used in maintaining temperatures in water and oil systems etc. 401,426; May 18; Serial No. 453,756; published Mar. 9, 1943. Class 34.
Kitchen Art Foods Inc., Chicago, Ill. Food products and ingredients thereof. 401,406; May 18; Serial No. 443,939; published Mar. 9, 1943. Class 46.
Korn Leather Company, Peabody, Mass. Sole leather. 401,492; May 18. Class 1.
Larrowe Milling Company, The, Detroit, Mich., assignor to General Mills, Inc., Minneapolis, Minn. Dairy and cattle feed. 171,032; renewed July 31, 1943.
Larrowe Milling Company, The, Detroit, Mich., assignor to General Mills, Inc., Minneapolis, Minn. Dairy and cattle feed. 171,135–6; renewed July 31, 1943.
Liberty Vitamin Corporation, New York, N. Y. Multiple vitamin mineral therapy, vitamins in capsule form and minerals in tablet form. 401,468; May 18; Serial No. 457,764; published Mar. 9, 1943. Class 6.
Litrov, A. (See Miller-Cummings Company, assignor.)
Lowell Company, The, assignor to Primrose House, Inc., New York, N. Y. Toilet preparation for the removal of superfluous hair. 170,462; renewed July 17, 1943.
Luxury Mint & Gum Company, Chicago, Ill. Chewing gum, mint and hard candy. 401,431; May 18; Serial No. 455,053; published Mar. 9, 1943. Class 46.
Marshall Canning Company, Marshalltown, Iowa. Canned foods. 167,126; renewed Apr. 24, 1943.
Masury-Young Company, Boston, Mass. Floor dressing. 401,474; May 18; Serial No. 457,879; published Mar. 9, 1943. Class 16.
Max Ams, Inc., New York, N. Y. Prune butter. 401,471; May 18; Serial No. 457,844; published Mar. 9, 1943. Class 46.
Mendoza Fur Dyeing Works, Inc., assignor to Henry G. Schlesinger, New York, N. Y. Furs, skins, hides, etc. 165,304; renewed Mar. 6, 1943.
Metal Findings Corporation, New York, N. Y. Metal jewelers' findings. 401,434; May 18; Serial No. 455,483; published Mar. 9, 1943. Class 28.
Michigan Clamp Company, Jackson, Mich. Mechanical pressure units. 401,493; May 18. Class 23.
Miles Manufacturing Company, to Jell-Well Dessert Company, Ltd., Los Angeles, Calif., successor. Compound of sugar, gelatin, and fruit acid, artificially colored and flavored. 168,675; renewed May 29, 1943.
Miller-Cummings Company, Inc., New York, N. Y., assignor to A. Litrov, Los Angeles, Calif. Fresh cantaloupes, fresh casaba melons, fresh honey dew melons, etc. 173,385; renewed Sept. 25, 1943.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Pressure-sensitive adhesive tape. 401,403; May 18; Serial No. 436,937; published Mar. 9, 1943. Class 5.
Monterey Canning Company. (See Cotter, R. E., Company.)

Morello & Di Cara, New York, N. Y., and Clark Summit, Pa. Tomatoes in their natural state. 401,496; May 18. Class 46.

Mortell, J. W., Company, Kankakee, Ill. Adhesive plastic compound. 401,487; May 18.

National Technical Laboratories, South Pasadena, Calif. Automatic germicide mixers and dispensers. 401,408; May 18; Serial No. 446,743; published Mar. 9, 1943. Class 13.

Noblesville Milling Co., Noblesville, Ind., assignor to General Mills, Inc., Minneapolis, Minn. Self-rising flour. 168,897; renewed May 29, 1943.

Norris, John L., Jr., doing business as Victus Products, Lyndonville, Vt. Ointment. 401,469; May 18; Serial No. 457,795; published Mar. 9, 1943. Class 6.

Osage Produce Co., Los Angeles, Calif. Fresh vegetables and fresh deciduous fruits. 401,423; May 18; Serial No. 453,164; published July 21, 1942. Class 46.

Parke, Davis & Company, Detroit, Mich. Preparations used for protection of the skin. 401,418; May 18; Serial No. 451,850; published May 5, 1942. Class 6.

Parke, Davis & Company, Detroit, Mich. Preparation used in the treatment of diseases of the respiratory tract. 401,438; May 18; Serial No. 456,156; published Mar. 9, 1943. Class 6.

Pass Book and Check Cover Company, The, Denver, Colo. Bank pass books, cover for books. 401,413; May 18; Serial No. 449,778; published Mar. 9, 1943. Class 37.

Pennstate Cigar Corporation, Philadelphia, Pa. Cigars. 401,481; May 18. Class 17.

Pfister Hybrid Corn Company, El Paso, Ill. Seed corn. 401,409; May 18; Serial No. 447,153; published Mar. 9, 1943. Class 1.

Phonette Company of America, Los Angeles, Calif. Coin actuated music producing apparatus and parts therefor. 401,494; May 18. Class 36.

Piggly Wiggly Corporation, Atlanta, Ga. Peanut butter, salad dressing, mustard, etc. 401,485; May 18. Class 46.

Pittsburgh Plate Glass Company of Michigan. (See Sunset Paint Company, assignor.)

Pomilla, Frances, doing business as Beaux Arts Professional Instrument Mfg. Co. and also Beaux Arts Instruments Co., Passaic, N. J. Electric needle machines for killing the roots of, or the removal of, undesired human hair by electrolysis. 401,451; May 18; Serial No. 457,207; published Mar. 9, 1943. Class 44.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Preparation for treatment of deficiency in B complex factors. 401,478; May 18; Serial No. 458,045; published Mar. 9, 1943. Class 6.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Vitamin concentrate. 401,479; May 18; Serial No. 458,046; published Mar. 9, 1943. Class 6.

Primrose House, Inc. (See Lowell Company, The, assignor.)

Prince Macaroni Mfg. Co., Boston, Mass. Macaroni. 166,674; renewed Apr. 10, 1943.

Puritan Chemical Company, Atlanta, Ga. Chemical preparation. 401,442; May 18; Serial No. 456,724; published Mar. 9, 1943. Class 6.

Republic Steel Corporation. (See Gulf States Steel Corporation, assignor.)

Richmond-Chase Company, assignor, by mesne assignments, to Richmond-Chase Company, San Jose, Calif. Canned fruits. 168,812; renewed May 29, 1943.

Roche, William E., doing business as The Roche Fruit and Produce Co., assignor to W. E. Roche Fruit Company, Yakima, Wash. Fresh apples. 173,329; renewed Sept. 25, 1943.

Rockwell-Barnes Company, Chicago, Ill. Note books and blank books. 401,427; May 18; Serial No. 454,313; published Mar. 9, 1943. Class 37.

Rosemary Manufacturing Company, Roanoke Rapids, N. C. Table damask, table cloths, and napkins. 173,269; renewed Sept. 18, 1943.

Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Men's, youths', and boys' suits, and overcoats, including raincoats. 166,863; renewed Apr. 17, 1943.

Sanozone Chemical Co., assignor to R. H. Chapman, Jr., doing business as Sanozone Company, Philadelphia, Pa. Deodorants, disinfectants, pipe cleaner, etc. 167,490; renewed May 1, 1943.

Sapolin Co. Inc., New York, N. Y. Oil base paints for interior use. 401,458; May 18; Serial No. 457,451; published Mar. 9, 1943. Class 16.

Schlesinger, Henry G. (See Mendoza Fur Dyeing Works, Inc., assignor.)

Scholl Manufacturing Company, The, Chicago, Ill., by change of name to The Scholl Mfg. Co., Inc. Adhesive medicated shields or pads. 167,379; renewed May 1, 1943.

Seaman, Harry J., doing business as Seaman Motors, Milwaukee, Wis. Rotary plows. 401,466; May 18; Serial No. 457,729; published Mar. 2, 1943. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Catalogues. 167,921; renewed May 8, 1943.

Sebastopol Apple Growers' Union, Sebastopol, Calif. Fresh apples. 165,987; renewed Mar. 27, 1943.

Seven Up Company. (See Howdy Company.)

Sherwin-Williams Company, The, Cleveland, Ohio. Paints and painters' materials. 168,111; renewed May 15, 1943.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints and painters' materials. 168,347; renewed May 22, 1943.

Sherwin-Williams Company, The, Cleveland, Ohio. Drier for paint products. 168,455; renewed May 22, 1943.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, japans, varnishes, etc. 169,471–2; renewed June 19, 1943.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, japans, varnishes, etc. 169,474–5; renewed June 19, 1943.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, japans, etc. 170,537; renewed July 17, 1943.

Siegel Brothers Kiki Maid Koats, Inc., New York, N. Y. Women's and misses' coats, suits, jackets, etc. 401,463; May 18; Serial No. 457,644; published Mar. 2, 1943. Class 39.

Sire-Phillips, Inc., Dalton, Ga., and New York, N. Y. Stuffed animal toys and dolls. 401,477; May 18; Serial No. 458,021; published Mar. 9, 1943. Class 22.

Society of Chemical Industry in Basle, Basel, Switzerland. Intestinal antiseptic and an internal disinfectant. 401,415; May 18; Serial No. 450,290; published Mar. 9, 1943. Class 6.

Southern Supply Company. (See Thompson, Lee H.)

Staley, A. E., Manufacturing Co., Decatur, Ill. Sugar. 170,901–2; renewed July 24, 1943.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Mineral oils. 401,419; May 18; Serial No. 452,875; published July 21, 1942. Class 6.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Petroleum asphalt. 401,420; May 18; Serial No. 452,876; published Sept. 1, 1942. Class 12.

Steckler, Nat P., doing business as E-Z Products, New York, N. Y. Cocoa butter U. S. P., in liquid, stick, and salve form. 401,490; May 18. Class 6.

Stillman Company, The. (See Bereman, James H.)

Storms, H. M., Company, Brooklyn, N. Y. Carbon paper, typewriter ribbons, inked ribbons, etc. 172,627; renewed Sept. 11, 1943.

Sunset Feather Co., San Francisco, Calif. Pillows and cushions. 172,346; renewed Aug. 28, 1943.

Sunset Paint Company, Los Angeles, Calif., assignor to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa. Painters' materials. 172,053; renewed Aug. 21, 1943.

Sunset Paint Company, Los Angeles, Calif., assignor to Pittsburgh Plate Glass Company of Michigan, Pittsburgh, Pa. House paint, floor finish, etc. 172,054; renewed Aug. 21, 1943.

Swift and Company, Chicago, Ill. A substitute for lard. 22,797; rerenewed Apr. 11, 1943.

Swift and Company, Chicago, Ill. Dressed poultry. 166,899; renewed Apr. 17, 1943.

Thompson, Lee H., doing business as Southern Supply Company, Pasadena, Calif. Washing preparations. 401,417; May 18; Serial No. 451,733; published Mar. 9, 1943. Class 4.

Typosture Chair Co. (See Bernstein, Herbert H.)

United States Gypsum Company, Chicago, Ill. Calcined gypsum, plaster of Paris, wall plaster, etc. 167,733; renewed May 8, 1943.

United Wall Paper Factories, Inc., Chicago, Ill. Wall paper. 401,444; May 18; Serial No. 456,856; published Mar. 9, 1943. Class 37.

Victus Products. (See Norris, John L., Jr.)

Voit, Alfred M., Louisville, Ky. Board game played in conjunction with cards. 401,428; May 18; Serial No. 454,317; published Mar. 9, 1943. Class 22.

Volume Sprayer Manufacturing Co., Inc., Tulsa, Okla. Game. 401,448; May 18; Serial No. 456,996; published Mar. 9, 1943. Class 22.

Waltham Watch Company, Waltham, Mass. Watches, clocks, chronometers, etc., and parts of the foregoing. 401,424; May 18; Serial No. 453,286; published Mar. 9, 1943. Class 27.

Warp, Harold, doing business as Flex-O-Glass Manufacturing Co. and Warp Brothers, Chicago, Ill. Flexible, translucent, and transparent materials used as substitutes for glass. 401,404; May 18; Serial No. 437,229; published Jan. 26, 1943. Class 50.

Washburn-Crosby Company, assignor to General Mills, Inc., Minneapolis, Minn. Wheat flour. 171,443; renewed Aug. 7, 1943.

West Disinfecting Company, New York, to West Disinfecting Company, Long Island City, N. Y. Insecticides. 167,736; renewed May 8, 1943.

Western Waterproofing Company, Detroit, Mich. Mechanically driven mixing devices, receptacles connected thereto for receiving, and means for discharging, together with parts thereof. 401,443; May 18; Serial No. 456,815; published Feb. 23, 1943. Class 23.

Westinghouse Air Brake Company, The, Borough of Wilmerding, Pa. Pneumatic horns and air raid alarm equipments. 401,480; May 18; Serial No. 458,056; published Mar. 9, 1943. Class 23.

White Flame Fuel Co., Los Angeles, Calif., and Denver, Colo. Coal. 401,482; May 18. Class 1.

Whitehead Stamping Company. (See Kales Stamping Company.)

Williams, J. B., Company, The, Glastonbury, Conn. Preparation for the hair and beard. 167,906; renewed May 8, 1943.

Williams, R. C., & Company, Inc., New York, N. Y. Canned vegetables, fruits, fruit juices, fish, pork and beans, soups, etc. 401,405; May 18; Serial No. 437,747; published Feb. 17, 1942. Class 46.

Willys-Overland Company, The, assignor, by mesne assignments, to Willys-Overland Motors, Inc., Toledo, Ohio. Pneumatic tires. 169,131; renewed June 12, 1943.

Wilson & Co., Inc., Chicago, Ill. Beef, lamb, veal, etc. 401,432; May 18; Serial No. 455,058; published Mar. 9, 1943. Class 46.

Wilson Brothers, Chicago, Ill. Men's and boys' sport jackets. 401,461; May 18; Serial No. 457,487; published Mar. 2, 1943. Class 39.

Wollensak Optical Company, Rochester, N. Y. Photographic shutters. 401,467; May 18; Serial No. 457,733; published Mar. 9, 1943. Class 26.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. White Flame Fuel Co. 401,482; May 18.

Fibrous materials in the form of filaments. Aralac, Inc. 401,436; May 18; Serial No. 455,838; published Mar. 9, 1943.

Furs, skins, hides, etc. Mendoza Fur Dying Works, Inc. 165,304; renewed Mar. 6, 1943.

Leather, Sole. Korn Leather Company. 401,492; May 18.

Seed corn. Pfister Hybrid Corn Company. 401,409; May 18; Serial No. 447,153; published Mar. 9, 1943.

Tripoli flour. American Tripoli Company. 167,792; renewed May 8, 1943.

CLASS 4

Flint, garnet, and emery paper, and cloth. American Glue Company. 169,485; renewed June 19, 1943.

Grinding wheels, Abrasive. Dirats Manufacturing Company. 401,484; May 18.

Soap. Colgate-Palmolive-Peet Company. 401,416; May 18; Serial No. 451,671; published Mar. 9, 1943.

Washing preparations. L. H. Thompson. 401,417; May 18; Serial No. 451,733; published Mar. 9, 1943.

CLASS 5

Adhesive tape, Pressure-sensitive. Minnesota Mining & Manufacturing Company. 401,403; May 18; Serial No. 436,937; published Mar. 9, 1943.

CLASS 6

Antiseptic and an internal disinfectant, Intestinal. Society of Chemical Industry in Basle. 401,415; May 18; Serial No. 450,290; published Mar. 9, 1943.

Chemical for removing foreign substances from airplane engines and parts. Chemical Products Company. 401,489; May 18.

Chemical preparation. Puritan Chemical Company. 401,442; May 18; Serial No. 456,724; published Mar. 9, 1943.

Chemical preparations. Albi Chemical Corporation. 401,429; May 18; Serial No. 454,567; published Mar. 9, 1943.

Chemical substance used as a wood preserver. Creolin Co. 167,589; renewed May 1, 1943.

Cocoa butter U. S. P., in liquid, stick, and salve form. N. P. Steckler. 401,490; May 18.

Composition containing chemical ingredients for cut plants. Flower Foods, Inc. 401,470; May 18; Serial No. 457,808; published Mar. 9, 1943.

Contrast medium for radiography. Eastman Kodak Company. 401,476; May 18; Serial No. 458,010; published Mar. 9, 1943.

Creams suitable for the treatment of freckles. J. H. Bereman. 172,550; renewed Sept. 4, 1943.

Deodorants, disinfectants, pipe cleaners, etc. Sanozone Chemical Co. 167,490; renewed May 1, 1943.

Hair oils. Foley & Company. 172,974; renewed Sept. 11, 1943.

Insecticide, Nonspray type liquid. Hanley and Kinsella Laboratories, Inc. 401,488; May 18.

Insecticides. West Disinfecting Company. 167,736; renewed May 8, 1943.

Laxative. Battle Creek Food Company. 172,885; renewed Sept. 11, 1943.

Medicated shields or pads, Adhesive. Scholl Manufacturing Company. 167,379; renewed May 1, 1943.

Mineral oils. Standard Oil Company of California. 401,419; May 18; Serial No. 452,875; published July 21, 1942.

Ointment. J. L. Norris, Jr. 401,469; May 18; Serial No. 457,795; published Mar. 9, 1943.

Perfumery and cosmetics. Babs Creations, Incorporated. 401,407; May 18; Serial No. 446,483; published Mar. 9, 1943.

Perfumes and toilet water. Charles of the Ritz, Inc. 401,410; May 18; Serial No. 449,090; published Mar. 9, 1943.

Powder, Talcum. Foley & Company. 173,472; renewed Sept. 25, 1943.

Preparation for imparting color to gray hair. Jay Dee Drug Co. 401,495; May 18.

Preparation for the hair and beard. J. B. Williams Company. 167,906; renewed May 8, 1943.

Preparation for treatment of deficiency in B complex factors. Premo Pharmaceutical Laboratories, Inc. 401,478; May 18; Serial No. 458,045; published Mar. 9, 1943.

Preparation for use in the treatment of spastic conditions of the stomach and bowels. Chicago Pharmacal Company. 401,449; May 18; Serial 457,074; published Mar. 9, 1943.

Preparation for use in the treatment of various respiratory diseases, Inorganic. Alba Pharmaceutical Company. 401,437; May 18; Serial No. 456,112; published Dec. 15, 1942.

Preparation used in the treatment of diseases of the respiratory tract. Parke, Davis & Company. 401,438; May 18; Serial No. 456,156; published Mar. 9, 1943.

Preparations used for protection of the skin. Parke, Davis & Company. 401,418; May 18; Serial No. 451,850; published May 5, 1942.

Toilet preparation for the removal of superfluous hair. Lowell Company. 170,462; renewed July 17, 1943.

Vitamin concentrate. Premo Pharmaceutical Laboratories, Inc. 401,479; May 18; Serial No. 458,046; published Mar. 9, 1943.

Vitamin mineral therapy, vitamins in capsule form and minerals in tablet form, Multiple. Liberty Vitamin Corporation. 401,468; May 18; Serial No. 457,764; published Mar. 9, 1943.

Vitamin preparation. American Druggists Syndicate, Inc. 401,455; May 18; Serial No. 457,293; published Mar. 9, 1943.

Vitamin preparation. Hoffmann-La Roche, Inc. 401,460; May 18; Serial No. 457,469; published Mar. 9, 1943.

CLASS 8

Ash trays. Firestone Tire & Rubber Company. 401,422; May 18; Serial No. 453,106; published Mar. 9, 1943.

CLASS 9

Matches. Diamond Match Company. 167,347–8; renewed May 1, 1943.

CLASS 11

Carbon paper, typewriter ribbons, inked ribbons, etc. H. M. Storms Company. 172,627; renewed Sept. 11, 1943.

CLASS 12

Adhesive plastic compound. J. W. Mortell Company. 401,487; May 18.

Asphalt, Petroleum. Standard Oil Company of California. 401,420; May 18; Serial No. 452,876; published Sept. 1, 1942.

Gypsum, plaster of Paris, wall plaster, etc., Calcined. United States Gypsum Company. 167,733; renewed May 8, 1943.

Platforms, platform railings, and life line guards, Linemen's. A. B. Chance Company. 401,462; May 18; Serial No. 457,492; published Mar. 9, 1943.

Plywood. Hordern-Richmond Aircraft Limited. 401,440; May 18; Serial No. 456,185; published Mar. 9, 1943.

Roofing cement, Bituminous. Flintkote Company. 401,412; May 18; Serial No. 449,259; published Feb. 2, 1943.

CLASS 13

Germicide mixers and dispensers, Automatic. National Technical Laboratories. 401,408; May 18; Serial No. 446,743; published Mar. 9, 1943.

Pans, Baking. Edward Katzinger Company. 167,242; renewed Apr. 24, 1943.

Pans, Baking. Edward Katzinger Company. 167,245–6; renewed Apr. 24, 1943.

Wire, Barbed. Gulf States Steel Company. 171,810–12; renewed Aug. 14, 1943.

CLASS 15

Lubricating oils. American Oil Corporation. 170,531; renewed July 17, 1943.

Oils and greases, Lubricating. Harwood Brothers, Inc. 172,032; renewed Aug. 21, 1943.

CLASS 16

Drier for paint products. Sherwin-Williams Company. 168,455; renewed May 22, 1943.

Floor dressing. Masury-Young Company. 401,474; May 18; Serial No. 457,379; published Mar. 9, 1943.
Lacquer coating for wood, metal, fabric or rubber surfaces. Andrew Brown Company. 401,491; May 18.
Linseed Oil, denatured alcohol, pine oil, etc. Industrial Sales Corporation. 401,433; May 18; Serial No. 455,269; published Mar. 9, 1943.
Materials, Painters'. Sunset Paint Company. 172,053; renewed Aug. 21, 1943.
Paint and painters' materials. Sherwin-Williams Company. 168,111; renewed May 15, 1943.
Paint, floor finish, etc., House. Sunset Paint Company. 172,054; renewed Aug. 21, 1943.
Paints and painters' materials. Sherwin-Williams Company. 168,347; renewed May 22, 1943.
Paints for interior use, Oil base. Sapolin Co. Inc. 401,458; May 18; Serial No. 457,451; published Mar. 9, 1943.
Paints, paint enamels, japans, etc. Sherwin-Williams Company. 170,537; renewed July 17, 1943.
Paints, paint enamels, japans, varnishes, etc. Sherwin-Williams Company. 169,471–2; renewed June 19, 1943.
Paints, paint enamels, japans, varnishes, etc. Sherwin-Williams Company. 169,474–5; renewed June 19, 1943.
Wax for floors, linoleum, and furniture, Self polishing. Claire Manufacturing Company. 401,454; May 18; Serial No. 457,272; published Mar. 9, 1943.

CLASS 17

Cigars. Pennstate Cigar Corporation. 401,481; May 18.

CLASS 19

Aeroplanes made principally of wood and wooden structural parts thereof. Hordern-Richmond Aircraft Limited. 401,439; May 18; Serial No. 456,184; published Mar. 9, 1943.
Mirrors. Kales Stamping Company. 170,013; renewed July 10, 1943.

CLASS 21

Wire and strips, Metallic. Driver-Harris Company. 401,414; May 18; Serial No. 449,853; published Feb. 24, 1942.

CLASS 22

Game. Volume Sprayer Manufacturing Co. 401,448; May 18; Serial No. 456,996; published Mar. 9, 1943.
Game played in conjunction with cards, Board. A. M. Voit. 401,428; May 18; Serial No. 454,317; published Mar. 9, 1943.
Lines, Fish. Bevin-Wilcox Line Company. 171,121; renewed July 31, 1943.
Toys and dolls, Stuffed animal. Sire-Phillips, Inc. 401,477; May 18; Serial No. 458,021; published Mar. 9, 1943.

CLASS 23

Carburetors, governors, and accessories therefor. Bendix Aviation Corporation. 401,472; May 18; Serial No. 457,845; published Mar. 2, 1943.
Elevator roller guides. Elevator Safety Corporation. 401,430; May 18; Serial No. 455,049; published Mar. 9, 1943.
Finishing rolls for rolling mills. Birdsboro Steel Foundry and Machine Company. 401,486; May 18.
Horns and air raid alarm equipments, Pneumatic. Westinghouse Air Brake Company. 401,480; May 18; Serial No. 458,056; published Mar. 9, 1943.
Mallets and hammers having rawhide faces and rawhide faces for hammers and loom pickers and sweepstick heads for looms. American Raw Hide Products Co. 401,441; May 18; Serial No. 456,649; published Mar. 9, 1943.
Mixing devices, receptacles connected thereto for receiving, and means for discharging, together with parts thereof, Mechanically driven. Western Waterproofing Company. 401,443; May 18; Serial No. 456,815; published Feb. 23, 1943.
Plows, Rotary. H. J. Seaman. 401,466; May 18; Serial No. 457,729; published Mar. 2, 1943.
Pressure units, Mechanical. Michigan Clamp Company. 401,493; May 18.
Tools. Camloc Fastener Company. 401,459; May 18; Serial No. 457,458; published Mar. 9, 1943.
Trimming machines, cushioned cutter pilots, drill grinding fixture, etc., Burr. Industrial Engineering Co. Inc. 401,452; May 18; Serial No. 457,222; published Mar. 2, 1943.
Wrenches and parts thereof, etc. Diamond Calk Horseshoe Company. 401,456–7; May 18; Serial Nos. 457,386–7; published Mar. 9, 1943.

CLASS 26

Photographic shutters. Wollensak Optical Company. 401,467; May 18; Serial No. 457,733; published Mar. 9, 1943.

CLASS 27

Watches, clocks, chronometers, etc., and parts of the foregoing. Waltham Watch Company. 401,424; May 18; Serial No. 453,286; published Mar. 9, 1943.

CLASS 28

Jewelers' findings, Metal. Metal Findings Corporation. 401,434; May 18; Serial No. 455,483; published Mar. 9, 1943.
Necklaces and bracelets, finger rings, earrings, etc. Cohn & Rosenberger, Inc. 401,445–6; May 18; Serial Nos. 456,864–5; published Mar. 9, 1943.

CLASS 32

Beds, Convertible studio davenport. Dura Fixture Company. 401,473; May 18; Serial No. 457,870; published Mar. 9, 1943.
Chairs, Office. H. H. Bernstein. 401,475; May 18; Serial No. 457,891; published Mar. 9, 1943.
Pillows and cushions. Sunset Feather Co. 172,346; renewed Aug. 28, 1943.

CLASS 34

Heaters using liquid fuels, and used in maintaining temperatures in water and oil systems, etc. C. M. Kimberlin. 401,426; May 18; Serial No. 453,756; published Mar. 9, 1943.

CLASS 35

Tire casing and tube patches and tire and tube patching kits for use either as a vulcanizing unit or as a cold repairing unit. Better Monkey Grip Co. 401,447; May 18; Serial No. 456,951; published Mar. 9, 1943.
Tires, Pneumatic. Willys-Overland Company. 169,131; renewed June 12, 1943.

CLASS 36

Music producing apparatus and parts therefor, Coin actuated. Phonette Company of America. 401,494; May 18.

CLASS 37

Books and blank books, Note. Rockwell-Barnes Company. 401,427; May 18; Serial No. 454,313; published Mar. 9, 1943.
Books, covers for books, Bank pass. Pass Book and Check Cover Company. 401,413; May 18; Serial No. 449,778; published Mar. 9, 1943.
Envelopes provided with joined attaching strips. A. M. Broudy. 401,483; May 18.
Paper, coated and uncoated, bond paper, and writing paper, Book. Chillicothe Paper Company. 171,109; renewed July 31, 1943.
Paper, Wall. United Wall Paper Factories, Inc. 401,444; May 18; Serial No. 456,856; published Mar. 9, 1943.
Pens, mechanical pencils and wooden lead pencils, Fountain. Firestone Tire & Rubber Company. 401,421; May 18; Serial No. 453,105; published Mar. 9, 1943.

CLASS 38

Catalogues. Sears, Roebuck and Co. 167,921; renewed May 8, 1943.

CLASS 39

Boots and shoes. International Shoe Co. 168,159; renewed May 15, 1943.
Coats, suits, jackets, etc., Women's and misses'. Siegel Brothers Kiki Maid Koats, Inc. 401,463; May 18; Serial No. 457,644; published Mar. 2, 1943.
Gloves, gauntlets and mittens, Leather. Joseph N. Eisendrath Company. 170,405–6; renewed July 17, 1943.
Jackets, Men's and boys' sport. Wilson Brothers. 401,461; May 18; Serial No. 457,487; published Mar. 2, 1943.
Overalls and overall jackets, band overalls and dungarees, work pants and shirts, etc., for men and boys. Blue Buckle Overall Co. Inc. 401,465; May 18; Serial No. 457,714; published Mar. 2, 1943.
Socks and stockings. Aristoc Limited. 401,411; May 18; Serial No. 449,247; published Feb. 9, 1943.
Suits and coats, Ladies'. Cohen, Friedlander & Martin Co. 166,598; renewed Apr. 10, 1943.
Suits, and overcoats, including raincoats, Men's, youths' and boys'. Sanger Brothers, Inc. 166,863; renewed Apr. 17, 1943.
Underwear for girls and women. J. R. Beaton Co., Inc. 401,453; May 18; Serial No. 457,267; published Mar. 2, 1943.

CLASS 42

Damask, table cloths, and napkins, Table. Rosemary Manufacturing Company. 173,269; renewed Sept. 18, 1943.

CLASS 44

Bandages, Gauze. American Bandage Corp. 401,435; May 18; Serial No. 455,494; published Nov. 17, 1942.
Needle machines for killing the roots of, or the removal of, undesired human hair by electrolysis, Electric. F. Pomilla. 401,451; May 18; Serial No. 457,207; published Mar. 9, 1943.

CLASS 45

Concentrate, Grape flavored sugar drink. Howdy Company. 173,294; renewed Sept. 18, 1943.

CLASS 46

Apples, Fresh. Sebastopol Apple Growers' Union. 165,987; renewed Mar. 27, 1943.
Apples, Fresh. W. E. Roche. 173,329; renewed Sept. 25, 1943.
Beef, lamb, veal, etc. Wilson & Co., Inc. 401,432; May 18; Serial No. 455,058; published Mar. 9, 1943.
Candies and candy confections. Candy Lane Inc. 401,425; May 18; Serial No. 453,392; published Mar. 9, 1943.
Canned foods. Marshall Canning Company. 167,126; renewed Apr. 24, 1943.
Canned fruits. Richmond-Chase Company. 168,812; renewed May 29, 1943.
Canned pineapple. Hawaiian Pineapple Company, Ltd. 169,819; renewed July 3, 1943.
Canned vegetables, canned fruits, and canned fish. R. E. Cotter Company. 166,453; renewed Apr. 3, 1943.
Canned vegetables, fruits, fruit juices, fish, soups, etc. R. C. Williams & Company. 401,405; May 18; Serial No. 437,747; published Feb. 17, 1942.
Cantaloupes, Fresh. Earl Fruit Company. 168,637; renewed May 29, 1943.
Cantaloupes, fresh casaba melons, fresh honey dew melons, etc., Fresh. Miller-Cummings Company. 173,385; renewed Sept. 25, 1943.
Cereals, Breakfast. Battle Creek Food Company. 173,172; renewed Sept. 18, 1943.
Compound, of sugar, gelatin, and fruit acid, artificially colored and flavored. Miles Manufacturing Company. 168,675; renewed May 29, 1943.
Feed, Dairy and cattle. Larrowe Milling Company. 171,032; renewed July 31, 1943.
Feed, Dairy and cattle. Larrowe Milling Company. 171,135–6; renewed July 31, 1943.
Flavors, Vegetable. Battle Creek Food Company. 173,501; renewed Sept. 25, 1943.
Flour, Self-rising. Noblesville Milling Co. 168,897; renewed May 29, 1943.
Flour, Wheat. Washburn-Crosby Company. 171,443; renewed Aug. 7, 1943.
Food, Cereal breakfast. Kellogg Toasted Corn Flake Co. 170,696; renewed July 24, 1943.
Food, Cereal breakfast. Battle Creek Food Company. 172,764; renewed Sept. 11, 1943.
Food, Dog. Blaney Bakeries, Inc. 401,464; May 18; Serial No. 457,671; published Mar. 9, 1943.
Food, Nut cereal. Battle Creek Food Company. 173,488; renewed Sept. 25, 1943.
Food products and ingredients thereof. Kitchen Art Foods Inc. 401,406; May 18; Serial No. 443,939; published Mar. 9, 1943.
Fruits, Fresh deciduous. Ivanhoe Fruit Association. 168,879; renewed May 29, 1943.
Gum, mint and hard candy, Chewing. Luxury Mint & Gum Company. 401,431; May 18; Serial No. 455,053; published Mar. 9, 1943.
Ice cream. Erie County Milk Association. 166,816; renewed Apr. 17, 1943.
Lard, A substitute for. Swift and Company. 22,797; re-renewed Apr. 11, 1943.
Macaroni. Prince Macaroni Mfg. Co. 166,674; renewed Apr. 10, 1943.
Peanut butter, salad dressing, mustard, etc. Piggly Wiggly Corporation. 401,485; May 18.
Poultry, Dressed. Swift and Company. 166,899; renewed Apr. 17, 1943.
Prune butter. Max Ams. 401,471; May 18; Serial No. 457,844; published Mar. 9, 1943.
Sugar. A. E. Staley Manufacturing Co. 170,901–2; renewed July 24, 1943.
Tomatoes in their natural state. Morello & Di Cara. 401,496; May 18.
Vegetables and fresh deciduous fruits, Fresh. Osage Produce Co 401,423; May 18; Serial No. 453,164; published July 21, 1942.
Vegetables, Fresh. Arizona Farms. 401,450; May 18; Serial No. 457,110; published Mar. 9, 1943.

CLASS 50

Materials used as substitutes for glass, Flexible, translucent, and transparent. H. Warp. 401,404; May 18; Serial No. 437,229; published Jan. 26, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Banker, Oscar H., assignor to New Products Corporation, Chicago, Ill. Automatic transmission. Re. 22,312; May 18.

Britton, Kenneth L., and R. O. Eaton, Erie, Pa., assignors to General Electric Company. Electric resistor. Re. 22,313; May 18.

Colonial Broach Company. (See Welte, Benedict, assignor.)

Dawson, John W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. Re. 22,314; May 18.

Eaton, Reginald O. (See Britton, K. L., and Eaton.)

Fry, Clifford N., Toronto, Ontario, Canada, assignor to Line Material Company, Milwaukee, Wis. Drop-out switch. Re. 22,315; May 18.

General Electric Company. (See Britton, K. L., and Eaton, assignors.)

Larison Compensating Axle Corporation. (See Larison, Glenn L., assignor.)

Larison, Glenn L., La Grande, Oreg., assignor to Larison Compensating Axle Corporation. Shock reducing and cushioning wheel mounting for vehicles. Re. 22,316; May 18.

Line Material Company. (See Fry Clifford N., assignor.)

Line Material Company. (See Steinmayer, Alwin G., assignor.)

Nelson, Edward F., Vallejo, Calif. Stud welder. Re. 22,317; May 18.

New Products Corporation. (See Banker, Oscar H., assignor.)

Steinmayer, Alwin G., assignor to Line Material Company, South Milwaukee, Wis. Fuse link construction. Re. 22,319; May 18.

Welte, Benedict, Lake Orion Township, Oakland County, assignor to Colonial Broach Company, Detroit, Mich. Hydraulic broaching machine. Re. 22,318; May 18.

Westinghouse Electric & Manufacturing Company. (See Dawson, John W., assignor.)

LIST OF PLANT PATENTEES

Grullemans, John J., Painesville, assignor to The Wayside Gardens Company, Mentor, Ohio. Aster. 584; May 18.

Jackson & Perkins Company. (See Nicolas, Jean H., assignor.)

Nicolas, Fannie, administratrix. (See Nicolas, Jean H.)

Nicolas, Jean H., deceased, by F. Nicolas, administratrix, assignor to Jackson & Perkins Company, Newark, N. Y. Rose. 586; May 18.

Shannon, Wesley F., Hood River, Oreg., assignor to Stark Bro's Nurseries and Orchards Company. Pear tree. 585; May 18.

Stark Bro's Nurseries and Orchards Company. (See Shannon, Wesley F., assignor.)

Wayside Gardens Company, The. (See Grullemans, John J., assignor.)

LIST OF DESIGN PATENTEES

Allen, George L., Lake Geneva, Wis. Coin tray. 135,695; May 18.

Amyot, Pierre, Quebec, Quebec, Canada. Brassière. 135,699; May 18.

Beck, Jacob M., New York, N. Y. Cigarette holder ring. 135,700; May 18.

Bunton, Thomas R., Calgary, Alberta, Canada. Fruit juice extractor. 135,703; May 18.

Claflin, Roland S., Park Ridge, Ill. Teething device. 135,685; May 18.

Cline, Harold A. (See Cottell, John B., assignor.)

Cottell, John B., assignor of one-half to H. A. Cline, Cincinnati, Ohio. Portable sign. 135,705; May 18.

Daniels, Burton, New York, N. Y. Game device. 135,704; May 18.

Drueke, Joseph W., Grand Rapids, Mich. Game device. 135,706; May 18.

Drueke, William F., Jr., Grand Rapids, Mich. Game device. 135,707; May 18.

Duhamel, Roland J., Maxwell Field, Ala. Airplane. 135,696; May 18.

Feldner, John, Newark, Ohio. Badge or similar article of jewelry. 135,691; May 18.

Harpignies, Zinaida, Kew Gardens, N. Y. Hat. 135,708; May 18.

Hawkes, Frances, assignor to Rollins Hosiery Mills, Inc., Des Moines, Iowa. Slip or similar article. 135,701; May 18.

Heirloom Needlework Guild, Inc. (See Vertes, Dora, assignor.)

Hettrick Manufacturing Company, The. (See Smith, William I., assignor.)

Hornak, Francis S., Bridgeport, Conn. Airplane. 135,702; May 18.

Jones, Frank S., Drexel Hill, Pa. Horizontal boring mill. 135,686; May 18.

Kenney, Verle C., Chagrin Falls, Ohio. Hand cart. 135,697; May 18.

Little, Mathew, Walla Walla, Wash. Violin. 135,692; May 18.

Neef, Frederick E., Jr., U. S. Army, Baltimore, Md. Fuel dispensing unit. 135,687; May 18.

Onsrud Machine Works, Inc. (See Onsrud, Rudolph F., assignor.)

Onsrud, Rudolph F., assignor to Onsrud Machine Works, Inc., Chicago, Ill. Milling machine. 135,688; May 18.

Ročić, Ivan, New York, N. Y. Pliant pipe coupling or similar article. 135,689; May 18.

Rollins Hosiery Mills, Inc. (See Hawkes, Frances, assignor.)

Samit, Michael, New York, N. Y. Lamp. 135,698; May 18.

Smith, Francis X., Brooklyn, N. Y. Religious rosary or similar article. 135,693; May 18.

Smith, William I., Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Swing. 135,694; May 18.

Vernon, Doris, New York, N. Y. Hat. 135,690; May 18.

Vertes, Dora, assignor to Heirloom Needlework Guild, Inc., New York, N. Y. Ribbon pocket belt. 135,709; May 18.

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PATENTS WERE ISSUED ON THE 18TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Apparatus for loading sheath wire heating units. 2,319,573; May 18.
Acco Products, Inc. (See Brennan, D. A., assignor.)
Acme Steel Company. (See MacChesney, Chester M., assignor.)
Acme Steel & Malleable Iron Works, Inc. (See Parker, Frank O., assignor.)
Adler, Herman G., Detroit, assignor to Novi Equipment Company, Novi, Mich. Governor structure. 2,319,654; May 18.
Adney, Adrian P., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich. Discharge valve for pumps. 2,319,574; May 18.
Agens, Maynard C., Schenectady, N. Y., assignor to General Electric Company. Resinous composition. 2,319,575; May 18.
Agens, Maynard C., Schenectady, N. Y., assignor to General Electric Company. Peroxidized ester. 2,319,576; May 18.
Alabrune, Francois, Chicago, Ill. Mechanical movement. 2,319,485; May 18.
Alien Property Custodian. (See Amiot, Félix.)
Alien Property Custodian. (See Andresen, Halvor T. H.)
Alien Property Custodian. (See Becker, Carlheinz.)
Alien Property Custodian. (See Dalotel, Maurice A.)
Alien Property Custodian. (See de Nooij, Jan C., and Bleibler.)
Alien Property Custodian. (See Friedrich, Albert, and Goppel.)
Alien Property Custodian. (See Gerenadâs, Miksa.)
Alien Property Custodian. (See Hefel, Karl.)
Alien Property Custodian. (See Hepp, Gerard.)
Alien Property Custodian. (See Jenkner, Adolf.)
Alien Property Custodian. (See Kaltenbach, Alois.)
Alien Property Custodian. (See Martinotti, Pietro.)
Alien Property Custodian. (See Mulder, Johannes G. W.)
Alien Property Custodian. (See Nebel, Max.)
Alien Property Custodian. (See Nerwin, Hubert.)
Alien Property Custodian. (See Perrey, Marcel A. L.)
Alien Property Custodian. (See Poillevey, Léon.)
Alien Property Custodian. (See Polgar, A., and Halmos.)
Alien Property Custodian. (See Schiebold, Ernst.)
Alien Property Custodian. (See Wassenegger, Hans.)
Alien Property Custodian. (See Wouters, Otto J.)
Alien Property Custodian. (See Wünsch, G., and Krüssmian.)
Alien Property Custodian. (See Ziegs, Paul.)
Allen-Bradley Company. (See Glogau, Manfred L., assignor.)
Allen, Reynolds, et al. (See Harrington, Lester B., assignor.)
Alpaugh, Albert. (See Gallot, C., and Alpaugh.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Widell, Magnus E., assignor.)
American Can Company. (See Winters, William P., assignor.)
American Car and Foundry Company. (See Euwer, Herbert D., assignor.)
American Car and Foundry Company. (See Miller, H., and Schlenther, assignors.)
American Car and Foundry Company. (See Morey, W. E., and Nichols, assignors.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Cyanamid Company. (See Cook, E. W., and Thomas, Jr., assignors.)
American Cyanamid Co. (See Liddel, Urner, assignor.)
American Cyanamid Company. (See Post, E. E., and Bonnet, assignors.)
American District Steam Company. (See Hall, Robert, assignor.)
American District Telegraph Company. (See Evans, F. C., and Cowan, assignors.)
American Maize-Products Company. (See Schopmeyer, H. H., and Felton, assignors.)
American Maize-Products Company. (See Walsh, James F., assignor.)
American Maize-Products Company. (See Walsh, James F., and Dudicker, assignors.)
American Marsh Pumps, Inc. (See Adney, Adrian P., assignor.)
American Optical Company. (See Pincus, Alexis G., assignor.)
American Radiator & Standard Sanitary Corporation. (See Hill, Charles A., assignor.)
American Rock Wool Corp. (See Drill, Daniel C., assignor.)

American Rubber Products Corporation. (See O'Hare. John J., assignor.)
American Seating Company. (See Hanson, Walter M., assignor.)
American Steel & Wire Company, The. (See Marquart, Frank, and Stivason, assignors.)
American Steel and Wire Company, The. (See Pinniger, Roy E., assignor.)
Amertype Recordgraph Corporation. (See Woolf, William L., assignor.)
Amiot, Félix, Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Piloting system for aircraft. 2,319,285; May 18.
Anderson, Ralph L., assignor to Deere & Company, Moline, Ill. Harvester platform mounting. 2,319,714; May 18.
Anderson, Stanley, and R. W. Manuel, assignors to Crane Co., Chicago, Ill. Apparatus for measuring the thickness of metallic plating on bases. 2,319,196; May 18.
Andresen, Halvor T. H., Oslo, Norway; vested in the Alien Property Custodian. Sheet arrangement for the stretching of surfaces. 2,319,286; May 18.
Angell, Charles H., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,319,201; May 18.
Ansul Chemical Company. (See Ehman, P. J., and Walker, assignors.)
Arendt, Morton, New York, N. Y. Display system. 2,319,287; May 18.
Arey, Fred C. (See Higner, De L. E., and Arey.)
Armantrout, Charles W. (See Schneider, W. G., and Armantrout.)
Arnold Dryer Co. (See French, Henry C., assignor.)
Art Metal Works, Inc. (See Burchett, Ray L., assignor.)
Associated Spring Corporation. (See Cook, Raymond W., assignor.)
Associated Telephone & Telegraph Company. (See Roseby, P. N., and Mackenzie, assignors.)
Atlas Steel Barrell Corporation. (See Bruning, W., and Simonson, assignors.)
Austin, Ellsworth W., assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa. Earth mover. 2,319,486; May 18.
Automatic Devices Corporation. (See Johnson, Arthur A., assignor.)
Automotive Products Company Limited. (See Clench, Edward C. S., assignor.)
Babcock & Wilcox Company, The. (See Dewald, Edward A., assignor.)
Bachman, Paul W., Summit, N. J., and B. W. Hammarén, Floral Park, assignors to General Chemical Company, New York, N. Y. Production of o-phenoxy-phenylbenzoate. 2,319,197; May 18.
Bahnsen, Monroe J. (See McIntyre, G. H., and Bahnsen.)
Bailey, Robert M. (See Codney, A. O., and Bailey.)
Bailey, William J. A. (See Leathers, W., Haddad, and Bailey.)
Bailie, Alfred J., Philadelphia, Pa. Reader's aid and book mark. 2,319,436; May 18.
Baker, Clarence V. (See Gould, S., and Baker.)
Baker, Corwin W., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoes and making the same. 2,319,288; May 18.
Baldocchi, Archie A. (See Cooley, William L., assignor.)
Baldwin, John D., Jr., Los Angeles, Calif., assignor to The Weatherhead Company, Cleveland, Ohio. Tank and making same. 2,319,487; May 18.
Barbour, Howard C., Elyria, and F. S. Miller, Amherst, assignors to The Cleveland Quarries Company, Cleveland, Ohio. Apparatus for drilling holes in stone. 2,319,528; May 18.
Bard, Morry A., and E. A. Tarshis, New York, N. Y. Hosiery. 2,319,577; May 18.
Bargen, William J., Waukegan, Ill. School desk seat and support therefor. 2,319,202; May 18.
Barndollar, William L., Elyria, Ohio. Curtain and shade bracket. 2,319,715; May 18.
Barrans, William T., Towson, Md., P. M. Cole, Meadville, Pa., D. O. Hannan and D. C. Robson, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for slitting and cutting conductors. 2,319,198; May 18.
Bash, William J. (See Rankin, Armand T., assignor.)
Becker, Carlheinz, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian. Controlling kerr-cells. 2,319,289; May 18.
Beckette, Edmund S. (See Nystrom, K. F., Beckette, and Green.)
Becwar, Rudolph A., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Antenna system. 2,319,760; May 18.

Bedell, Clyde, Park Ridge, Ill. Display booklet. 2,319,200; May 18.
Beekley, Henry L., Glen Ellyn, R. H. Gilbert, Oak Park, and R. H. Lacart, Chicago, assignors to The Electrimatic Corporation. Valve. 2,319,578; May 18.
Beers, Joseph L., Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y. Knitting. 2,319,768; May 18.
Beers, Joseph L., Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y. Method of and machine for knitting heel fabrics in single unit stocking blanks. 2,319,769; May 18.
Beers, Joseph L., Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y. Topping machine. 2,319,770; May 18.
Beers, Joseph L., Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y. Single unit full-fashioned stocking. 2,319,771; May 18.
Beers, Joseph L., Bloomfield, N. J., assignor to Julius Kayser & Co., Brooklyn, N. Y. Hosiery and manufacturing the same. 2,319,772; May 18.
Beisner, August H., Los Angeles, Calif. Crusher. 2,319,290; May 18.
Bell Telephone Laboratories, Incorporated. (See Bjornson, Bjorn G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Dickieson, Alton C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Head, George A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Logan, M. A., and Schimpf, assignors.)
Bell Telephone Laboratories, Incorporated. (See Maloney, Martin E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mougey, Wilbur E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Müller, K. H., and Ressler, assignors.)
Bell Telephone Laboratories, Incorporated. (See Spahn, Charles F., Jr., assignor.)
Bell Telephone Laboratories, Incorporated. (See Thurston, George M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ulrich, Horace W., assignor.)
Bellwood, Harriett K. (See Jones, John W., assignor.)
Belmont Radio Corporation. (See Plensler, Alexander W., assignor.)
Bendix Aviation Corporation. (See Buxton, James E., assignor.)
Bendix Aviation Corporation. (See Good, John, assignor.)
Bendix Aviation Corporation. (See Jones, Burr W., assignor.)
Bendix Aviation Corporation. See Nardone, Romeo M., assignor.)
Benedict, Wayne L., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic treatment of hydrocarbons. 2,319,199; May 18.
Bennett, Claude C., South Bend, Ind., assignor to A. E. Feragen, Inc., Seattle, Wash. Wheel balancing apparatus. 2,319,655; May 18.
Benotti, Norbert. (See Brown, E. A., and Benotti.)
Berg, Elaine, Chicago, Ill. Ear protector for hair nets. 2,319,656; May 18.
Besser, Jesse H., Alpena, Mich. Mold box. 2,319,291; May 18.
Bethlehem Steel Corporation. (See Epstein, S., and Kreiser, assignors.)
Biasotti, John B., Albany, Calif. Saw grinding machine. 2,319,437; May 18.
Bissell Carpet Sweeper Co. (See Pullen, Fred W., assignor.)
Bixby, Leo A., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Gear shifting means. 2,319,716; May 18.
Bjornson, Bjorn G., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission control in two-way signal wave transmission systems. 2,319,717; May 18.
Black, Jay T. (See Cox, P. G., Black, and Fricke.)
Black, Theron W., Columbus, assignor to B. H. Card, Fairwater, Wis. Mixing feeds with molasses. 2,319,579; May 18.
Bleibler, Ernest. (See de Nooij, J. C., and Bleibler.)
Bodkin, Irving S., assignor to Conrad Razor Blade Co., Inc., New York, N. Y. Razor blade receptacle. 2,319,761; May 18.
Boggs, Henry R., assignor to Richards, Boggs & King, Inc., Chicago, Ill. Garment. 2,319,292; May 18.
Bolsey, Jacques, New York, N. Y. Cinematographic fading device. 2,319,204; May 18.
Bolsey, Jacques, New York, N. Y. Film magazine. 2,319,530; May 18.
Bonnet, Charles F. (See Post, E. E., and Bonnet.)
Borg-Warner Corporation. (See Orr, Palmer, assignor.)
Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
Branham, Martin, Pound, Va. Brick. 2,319,203; May 18.
Braunstein, Arthur, San Diego, Calif. Transfer picture post card. 2,319,293; May 18.
Breckenridge, Frank, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Washing machine wringer. 2,319,294; May 18.

Brennan, Daniel A., deceased, by E. L. Zwickel, Chicago, Ill., executor, assignor to Acco Products, Inc., Long Island City, N. Y. Fastening device. 2,319,438; May 18.
Bridgeport Fabrics, Inc. (See Spraragen, Louis, assignor.)
British Insulated Cables Limited. (See Quayle, Joshua C., assignor.)
Britten, Edwin F., Jr., Short Hills, assignor to Monroe Calculating Machine Company, Orange, N. J. Compass bowl. 2,319,529; May 18.
Brooks, John W., Petersburg, Va. Air compressor. 2,319,718; May 18.
Brookshire, Drake, New Orleans, La. Well packer. 2,319,295; May 18.
Brostrom, Charles G., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sole-rounding machine. 2,319,296; May 18.
Brown, Ben M. (See McCormick, G., and Brown.)
Brown, Ethan Allan, Boston, and N. Benotti, Weston, Mass., said Benotti assignor to said Brown. Apparatus for cleansing tubular elements. 2,319,531; May 18.
Brown Instrument Company, The. (See Jones, Harry S., assignor.)
Brown, Walter, Hermosa Beach, Calif. Coating tubing. 2,319,657; May 18.
Brown, William D., Pittsburgh, Pa. Determining manganese in the presence of iron. 2,319,580; May 18.
Brownlee, Stuart D., and J. G. Macdonald, Toronto, Ontario, Canada. Article of furniture. 2,319,581; May 18.
Bruestle, Armin O. (See Cartlidge, J. R., and Bruestle.)
Bruning, William, Port Richmond, N. Y., and L. D. Simonson, Rochelle Park, N. J., assignor to Atlas Steel Barrel Corporation, Bayonne, N. J. Clamping ring assembly. 2,319,762; May 18.
Buck, Foster, Lisle, Ill. Electrically operated toothbrush. 2,319,205; May 18.
Buckeye Tools Corporation. (See McCombs, Melvorne J., assignor.)
Budd, Edward G., Manufacturing Co. (See Hardman, G. W., and Watter, assignors.)
Bulldog Electric Products Company. (See Fisher, Lawrence E., assignor.)
Burchett, Ray L., Newark, N. J., assignor to Art Metal Works, Inc. Combined razor and sharpening device. 2,319,488; May 18.
Burneleit, Willy, Cologne-Deutz, Germany, assignor to General Aniline & Film Corporation. New vat dyestuffs. 2,319,719; May 18.
Burroughs, Samuel G. (See Corkery, F. W., and Burroughs.)
Burry, Arthur A., Toronto, Ontario, Canada. Plastic molding apparatus. 2,319,439; May 18.
Burt, F. N., Company. (See Wells, William J., assignor.)
Bush, Vannevar, Washington, D. C., assignor to the Government of the United States of America, as represented by the Secretary of War. Machine for rifling guns. 2,319,206; May 18.
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Railway brake beam. 2,319,440; May 18.
Buxton, James E., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,319,441; May 18.
Caldora, Armand, Brooklyn, N. Y. Hair curler. 2,319,658; May 18.
Callan, Terence J., Park Ridge, and V. L. Erickson, assignors to Welmaid Products, Chicago, Ill. Clothes hamper. 2,319,384; May 18.
Callite Tungsten Corporation. (See Kurtz, Jacob, assignor.)
Calvert, Landon R., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Timing device for electric current. 2,319,385; May 18.
Canal National Bank of Portland, trustee, The. (See Sawyer, Edward E., assignor.)
Carbide and Carbon Chemicals Corporation. (See Carnes, Herman W., assignor.)
Carborundum Company, The. (See Heyroth, Albert H., assignor.)
Card, Benjamin H. (See Black, Theron W., assignor.)
Carlberg, John E. (See Smith, G. C., and Carlberg.)
Carlson, Frank E., East Cleveland, Ohio, assignor to General Electric Company. Optical system. 2,319,489; May 18.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Punch needle. 2,319,442; May 18.
Carmody, Don R., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Conversion of hydrocarbons. 2,319,209; May 18.
Carmody Research Laboratories, Inc. (See Carmody, W. H., and Kelly, assignors.)
Carmody, William H., and H. E. Kelly, Springfield, Ohio, assignors to Carmody Research Laboratories, Inc. Making phenolated resins. 2,319,386; May 18.
Carnes, Herman W., Indianapolis, Ind., assignor to Carbide and Carbon Chemicals Corporation. Combined pressure regulating and relief valve assembly. 2,319,659; May 18.
Carroll, Guy B., Minneapolis, Minn. Internal keyway grinder. 2,319,582; May 18.

Carter Carburetor Corporation. (See Ericson, George R., assignor.)
Carter Carburetor Corporation. (See Korte, Alfred C., assignor.)
Carter Carburetor Corporation. (See Korte, A. C., and Lannert, assignors.)
Cartlidge, John R., and A. O. Bruestle, assignors to The Cincinnati Mine Machinery Company, Cincinnati, Ohio. Mining machine. 2,319,387; May 18.
Celanese Corporation of America. (See Finlayson, Donald, assignor.)
Celanese Corporation of America. (See Storey, Alvin B., assignor.)
Chambers, Allan C., Detroit, Mich. Brake. 2,319,583; May 18.
Charlton, John M., assignor to R. A. Simpson Manufacturing Company, Inc., Oakland, Calif. Butter mold. 2,319,584; May 18.
Chavennes, Marc A. (See Schwartz, F. F., and Chavennes.)
Chemical Construction Corporation. (See Erickson, Stephen E., assignor.)
Chesler, Isidor, Oceanport, N. J., assignor to Eagle Pencil Company, New York, N. Y. Pencil. 2,319,585; May 18.
Chesnut, John D., Los Angeles, Calif., assignor, by mesne assignments, to International Cementers, Inc. Cementing oil wells and the like. 2,319,720; May 18.
Chicago Flexible Shaft Company. (See Delmonte, Jack, assignor.)
Chicago Metal Hose Corporation. (See Fentress, D. W., and Hughes, assignors.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chicago Railway Equipment Company. (See Welp, Herman T., assignor.)
Chrysler Corporation. (See Fishburn, Otto E., assignor.)
Chrysler Corporation. (See Hazen, Adelbert G., assignor.)
Chrysler Corporation. (See Priebe, Edward H., assignor.)
Cieri, Dominick J., Hartford, Conn. Emergency brake for vehicles. 2,319,297; May 18.
Cincinnati Mine Machinery Company, The. (See Cartlidge, J. R., and Bruestle, assignors.)
Clampit, James M. (See Stillman, W. B., Scott, and Clampit.)
Clark, Arthur B., Burbank, assignor to Technicolor Motion Picture Corporation, Los Angeles, Hollywood, Calif. Composition for treating plastic materials. 2,319,660; May 18.
Clark, Clyde W., Dearborn, Mich. Hardness tester. 2,319,208; May 18.
Clark Equipment Company. (See Bixby, Leo A., assignor.)
Clark Equipment Company. (See Lapsley, R., and Dence, assignors.)
Clark, Harry F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Split-phase motor control. 2,319,490; May 18.
Clarkson, Clarence W., Washington, D. C. Combination mercury mazda spotlight. 2,319,207; May 18.
Clausing, George, Portsmouth, Ohio, assignor to Vulcan Corporation. Heel concaving machine. 2,319,298; May 18.
Clench, Edward C. R., assignor to Automotive Products Company Limited, London, England. End fitting for flexible hoses. 2,319,586; May 18.
Cleutt, Peabody & Co. (See Cluett, S. L., and Schreiner, assignors.)
Cleveland Quarries Company, The. (See Barbour, H. C., and Miller, assignors.)
Cluett, Sanford L., and G. A. Schreiner, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Manufacture of collars and the like. 2,319,211; May 18.
Codney, Arthur O., Cleveland Heights, and R. M. Bailey, assignors to Willard Storage Battery Company, Cleveland, Ohio. Liquid dispensing apparatus. 2,319,532; May 18.
Codney, Arthur O., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Charging cover. 2,319,533; May 18.
Cogrisch Products, Inc. (See Scharsch, Walter R., assignor.)
Coker, Frank R., Tyler, Tex. Fire starter. 2,319,721; May 18.
Cole, Paul M. (See Barrans, W. T. Cole. Hannan, and Robson.)
Colgate-Palmolive-Peet Company. (See Ittner, Martin H., assignor.)
Collins, Ronald B. (See Kendall, J. D., and Collins.)
Collins, Walter H., Summit, N. J. Skirt marker. 2,319,722; May 18.
Combustion Engineering Company. (See Hamm, Alexander L., assignor.)
Cone, Ralph R., assignor to Threads, Incorporated, Gastonia, N. C. Sheet warp vibrator. 2,319,491; May 18.
Conrad, John W., Zanesville, Ohio., assignor to James R. Kearney Corporation, St. Louis, Mo. Dead end tool. 2,319,587; May 18.
Conrad Razor Blade Co. (See Bodkin, Irving S., assignor.)
Consolidated Car Heating Company. (See Conway, John W., assignor.)
Consolidated Car Heating Company. (See Parsons, Robert J., assignor.)
Consolidated Car Heating Company. (See Van Almelo, Frederick K., assignor.)
Converse, Frederick J., Pasadena, Calif. Measuring loads. 2,319,299; May 18.
Conway, John W., Mechanicville, assignor to Consolidated Car Heating Company, Inc., Albany, N. Y. Closure. 2,319,661; May 18.
Cook, Elmer W., New York; N. Y., and W. D. Thomas, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Lubricating oils. 2,319,662; May 18.
Cook, Raymond W., assignor to Associated Spring Corporation, Bristol, Conn. Contact strip annealing furnace. 2,319,300; May 18.
Cook, Raymond W., assignor to Associated Spring Corporation, Bristol, Conn. Contact strip annealing furnace. 2,319,302; May 18.
Cooley, William L., San Carlos, assignor to Archie A. Baldocchi, San Francisco, Calif. Photoelectric control device. 2,319,212; May 18.
Corkery, Frank W., Crafton, and S. G. Burroughs, Pittsburgh, Pa., assignors to Pennsylvania Industrial Chemical Corporation. Coating composition. 2,319,389; May 18.
Cornell Research Foundation, Inc. (See Sharp, Paul F., assignor.)
Corte, Alfred, Glendale, Calif., assignor, by mesne assignments, to Vega Aircraft Corporation. Multiple slip ring. 2,319,443; May 18.
Cotterman, Frederick W., Dayton, Ohio. Hydromechanical transmission gearing. 2,319,388; May 18.
Cottrell, C. B., & Sons Company. (See Luehrs, Hans J., assignor.)
Coviello, Pasquale. (See Lo Cascio, P., Kaufman and Coviello.)
Cowan, Frank M. (See Evans, F. C., and Cowan.)
Cox, Parker G., J. T. Black, and G. C. Fricke, Detroit, Mich. Punch press tool. 2,319,766; May 18.
Crane Co. (See Anderson, S., and Manuel, assignors.)
Crane Co. (See Hoeh, Earl A., assignor.)
Crawford, Harry J., Venice, Calif. Truss construction for overswinging doors or the like. 2,319,303; May 18.
Cribben and Sexton Company. (See Wilkinson, G. D., and Sheppel, assignor.)
Crosby, Melvin A., assignor to The Dayton Pump and Manufacturing Company, Dayton, Ohio. Remote indicator for dispensing pumps. 2,319,444; May 18.
Crowe, Orley J. (See Hall, William J., assignor.)
Crowe, Orley J., Detroit, Mich. Bead molding. 2,319,445; May 18.
Crowe, Orley J., and W. J. Hall, Detroit, Mich. Drip molding. 2,319,723; May 18.
Crowley, John C., Cleveland Heights, Ohio. Laminated glass and making same. 2,319,534; May 18.
Crowley, John F., assignor, by mesne assignments, to Philco Radio and Television Corporation, Philadelphia, Pa. Volume control circuits. 2,319,663; May 18.
Curtis & Marble Machine Company. (See Smith, C. E., and Lockman, assignors.)
Cutler-Hammer, Inc. (See Lightfoot, Edwin N., assignor.)
Cyr, Benjamin. (See Shipley, S. C., and Cyr, and Denison.)
Dalotel, Maurice A., Deuil, France; vested in the Alien Property Custodian. Diaphragm control device for motion and still picture cameras. 2,319,304; May 18.
Dannenberg, Joseph, executor, et al. (See Leprestre, Rene.)
Dantolan, Wilfred, Chicago, Ill. Gripping mitt. 2,319,390; May 18.
Davies, Gomer L., Woodside, Md., assignor to Washington Institute of Technology, Inc., Washington, D. C. Modulation system. 2,319,535; May 18.
Davies, Lynn E., Park Ridge, assignor to White Cap Company, Chicago, Ill. Packaging apparatus. 2,319,213; May 18.
Davies, Lynn E., Park Ridge, assignor to White Cap Company, Chicago, Ill. Sealing apparatus. 2,319,214; May 18.
Davis, Henry R., Coventry, and J. B. Foley, Warwick, R. I. Splash guard. 2,319,664; May 18.
Davis, John V., assignor to The Udylite Corporation, Detroit, Mich. Automatic bulk treating machine. 2,319,391; May 18.
Dawson, John W., Auburndale, assignor to Raytheon Manufacturing Company, Newton, Mass. Condenser welding system. 2,319,215; May 18.
Dayton Pump and Manufacturing Company, The. (See Crosby, Melvin A., assignor.)
Deere & Company. (See Anderson, Ralph L., assignor.)
Deere & Company. (See Johnson, Theodore W., assignor.)
Deere & Company. (See Silver, Walter H., assignor.)
Deere & Company. (See Strandlund, Carl G., assignor.)
Deere & Company. (See White, Charles H., assignor.)
Deibel, Buford C., Buechel, Ky. Tree mover. 2,319,536; May 18.
De Laval Separator Company. (See Zachariassen, Stig H. B., assignor.)

Delmonte, Jack, Park Ridge, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Making strain-relief structure. 2,319,537; May 18.
Dence, Donald S. (See Lapsley, R., and Dence.)
Denison, Frederick S. (See Shipley, S. C., Cyr, and Denison.)
De Nooij, Jan C., and E. Bleibler, Ghent, Belgium; vested in the Alien Property Custodian. Continuously forming cellulose films, staple fibers, and artificial silk. 2,319,305; May 18.
Design Laboratories, Incorporated. (See Wilson, Edwin B., assignor.)
Dewald, Edward A., Massillon, Ohio, assignor, by mesne assignments, to The Babcock & Wilcox Company, Newark, N. J. Tube expander. 2,319,216; May 18.
Dewey, Frederick L., Canton, Ill., assignor to International Harvester Company. Tractor attached implement. 2,319,492; May 18.
Dick, Burns, Ferguson, assignor to Wagner Electric Corporation, St. Louis, Mo. Seal construction. 2,319,392; May 18.
Dickey, Joseph B., and W. H. Strain, assignors to Eastman Kodak Company, Rochester, N. Y. Azo dye compounds. 2,319,217; May 18.
Dickieson, Alton C., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,319,306; May 18.
Digby, Everard T. (See Digby, William P., assignor.)
Digby, William P., assignor of one-half to Everard T. Digby, London, England. Heat treatment of copper-chromium alloy steels. 2,319,538; May 18.
Dimick, Hanna G. (See Owen, David T., assignor.)
Dinhofer, Julius, New York, N. Y. Flexible tape. 2,319,724; May 18.
Dobrzensky, Milton W., Oakland, Calif. Telephone conversation recording device. 2,319,665; May 18.
Dodd, Louis C., Buffalo, N. Y., assignor to Magnus Metal Corporation, Chicago, Ill. Welding rod. 2,319,539; May 18.
Dole Valve Company, The. (See Lund, James K., assignor.)
Dow Chemical Company, The. (See Edmunds, Alvin M., assignor.)
Dowty, George H., Arle Court, Cheltenham, England. Retractable undercarriage for aircraft. 2,319,446; May 18.
Drake, George F., assignor to Woodward Governor Company, Rockford, Ill. Synchronizing control. 2,319,218; May 18.
Draper, Charles S., Boston, Mass., J. H. Lancor, Jr., Brooklyn, and Yao Tzu Li, assignors to Research Corporation, New York, N. Y. Pressure indicating apparatus. 2,319,219; May 18.
Dreese, Delbert B., Larned, Kans. Truck loader and unloader. 2,319,588; May 18.
Drennan, Jimmy E., Lynwood, Calif. Tire mold. 2,319,447; May 18.
Drexler, Chas. Co. (See Morgan, Ralph H., assignor.)
Drill, Daniel C., assignor to American Rock Wool Corp., Wabash, Ind. Manufacturing mineral wool felted material. 2,319,666; May 18.
Drinkard, Woodrow W., Longview, Tex. Retractable formation sealing tool. 2,319,493; May 18.
Drinkwater, Charles M., Chicago, Ill. Food service truck. 2,319,589; May 18.
Drinkwater, Charles M., Chicago, Ill. Dustless ash receiver. 2,319,725; May 18.
Dudicker, James. (See Walsh, James F., and Dudicker.)
Duggan, James E., Detroit, Mich. Suction cup structure. 2,319,726; May 18.
Duggan, James E., Detroit, Mich. Suction cup structure. 2,319,727; May 18.
Du Mont, Allen B., Laboratories, Inc. (See Koch, S. J., and Rutherford, assignors.)
Du Pont, E. I., de Nemours & Company. (See Middleton, E. B., and Jennings, assignors.)
Du Pont, E. I., de Nemours & Company. (See Rossander, S. S., Sparks, and Maynard, Jr., assignors.)
Du Pont, E. I., de Nemours & Company. (See Sease, V. B., and Weber, assignors.)
Dusdieker, Stanley W., Des Moines, Iowa. Automatic electric light control apparatus for vehicles. 2,319,494; May 18.
Eagle Pencil Company. (See Chesler, Isidor, assignor.)
Eastman, DuBois, and C. Richker, Port Arthur, Tex., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Catalytic cracking of hydrocarbon oils. 2,319,590; May 18.
Eastman Kodak Company. (See Dickey, J. B., and Strain, assignors.)
Easy Washing Machine Corporation. (See Litle, Thomas J., Jr., assignor.)
Eby, Hugh H., Inc. (See Eby, Hugh H., assignor.)
Eby, Hugh H., Jenkintown, assignor to H. H. Eby, Inc., Philadelphia, Pa. Thermionic tube socket. 2,319,728; May 18.
Ecla Patents Corporation. (See Schwartz, F. F., and Chavannes, assignors.)
Eddy, Arnold, Stamford, Conn., assignor to Michael S. Striker, New York, N. Y. Preventing curling of the edges of knitted fabrics. 2,319,307; May 18.
Edmunds, Alvin M., assignor to The Dow Chemical Company, Midland, Mich. Inhibited hygroscopic salt solution. 2,319,667; May 18.
Edmunds, Alvin M., assignor to The Dow Chemical Company, Midland, Mich. Hygroscopic salt solution containing an aryl guanidine inhibitor. 2,319,668; May 18.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,319,495; May 18.
Ego, George R., Brantford, Ontario, assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada. Direct coupled plow. 2,319,670; May 18.
Egry Register Company, The. (See Kennedy, Andrew J., Sr., assignor.)
Ehman, Philip J., and W. O. Walker, assignors to Ansul Chemical Company, Marinette, Wis. Preparing hydroxylamine hydrochloride. 2,319,669; May 18.
Electrimatic Corporation, The. (See Beckley, H. L., Gilbert, and Lacart, assignors.)
Ellison, Russell H., assignor, by mesne assignments, to Violet K. Ellison, Dearborn, Mich. Apparatus for dispensing carbonated beverages. 2,319,308; May 18.
Ellison, Violet K. (See Ellison, Russell H., assignor.)
Emigh, Howard E., Detroit, Mich., assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Apparatus for rolling metal strip. 2,319,309; May 18.
Empire Electric Brake Corporation. (See Penrose, William F., assignor.)
Epstein, Samuel, Bethlehem, and J. R. Kreiser, Lebanon, Pa., assignors to Bethlehem Steel Company. Lubricant for solid dies. 2,319,393; May 18.
Erickson, Stephen E., Springdale, Conn., assignor to Chemical Construction Corporation, New York, N. Y. Beneficiation of low grade coal. 2,319,394; May 18.
Erickson, Victor L. (See Callan, T. J., and Erickson.)
Ericson, George R., Kirkwood, assignor to Carter Carburetor Corporation, Ct. Louis, Mo. Control device. 2,319,773; May 18.
Essex Research Corporation. (See Heuer, Russell P., assignor.)
Euwer, Herbert D., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. Refrigeration system. 2,319,310; May 18.
Evans, Arthur L., Detroit, Mich. Grinder. 2,319,311; May 18.
Evans, Francis C., Dongan Hills, Staten Island, N. Y., and F. M. Cowan, Plainfield, N. J., assignors to American District Telegraph Company, New York, N. Y. Aero chamber rosette. 2,319,671; May 18.
Ewing Development Company. (See Grebe, J. J., and Ewing, assignors.)
Ewing, Walkley B. (See Grebe, J. J., and Ewing.)
Falcon Bronze Company, The. (See Wick, J. L., Jr., and Nesselbush, assignors.)
Fay, Horace B., Willoughby, Ohio, assignor to Gridiron Steel Company. Ironing table top. 2,319,396; May 18.
Fay, Horace B., Willoughby, Ohio, assignor to Gridiron Steel Company. Ironing table. 2,319,397; May 18.
Felton, George E. (See Schopmeyer, H. H., and Felton.)
Fentress, David W., Evanston, and S. J. Hughes, assignors to Chicago Metal Hose Corporation, Maywood, Ill. Braid securing method and means. 2,319,220; May 18.
Feragen, A. E., Inc. (See Bennett, Claude C., assignor.)
Ferenci, Lester, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar bunch cutting mechanism. 2,319,221; May 18.
Ferguson, William, Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated. Treating imperfectly combustible liquids or semi-liquids. 2,319,591; May 18.
Ferris, Warren B., Chicago, Ill. Fluorescent device. 2,319,222; May 18.
Ferro Enamel Corporation. (See McIntyre, G. H., and Bahnsen, assignors.)
Fiedler, William J., Mitchell, S. Dak., assignor to Wind Governor Corporation. Windmill. 2,319,592; May 18.
Finlayson, Donald, Spondon, near Derby, England, assignor to Celanese Corporation of America. Textile and like product. 2,319,312; May 18.
Fishburn, Otto E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Synchronizer. 2,319,496; May 18.
Fisher, Lawrence E., assignor to Bulldog Electric Products Company, Detroit, Mich. Switch. 2,319,593; May 18.
Flam, Stephen, Sherman Oaks, Calif. Molding apparatus. 2,319,313; May 18.
Flint & Walling Manufacturing Co. (See Lung, Kenneth R., assignor.)
Flood, Edward, New York, N. Y. Torpedo trap. 2,319,672; May 18.
Foley, John B. (See Davis, H. R., and Foley.)
Folkers, Karl. (See Harris, S. A., and Folkers.)
Ford, Edward T., assignor of one-half to H. F. Rogers, Red Key, Ind. Train order device. 2,319,540; May 18.
Ford, Gladys C., New York, N. Y. Umbrella and article carrying attachment. 2,319,729; May 18.
Fosdick Machine Tool Company, The. (See Linden, C. E., and McClellan, assignors.)
Foster Wheeler Corporation. (See Frisch, Martin, assignor.)
Franklin, John, Oklahoma City, Okla. Flexible sample case for shoes and the like. 2,319,497; May 18.

Frawley, Robert N. (See Rassweiler, G. M., and Frawley.)
French, Henry C., Elm Grove, assignor to Arnold Dryer Co., Milwaukee, Wis. Dehydrating apparatus. 2,319,673; May 18.
French, Henry C., Elm Grove, and H. L. Schmidt, assignors to The Heil Co., Milwaukee, Wis. Rotary drier. 2,319,674; May 18.
Fricke, Guy C. (See Cox, P. G., Black, and Fricke.)
Friedrich, Albert, and O. Goppel, Stuttgart-Bad Canstatt, Germany; vested in the Alien Property Custodian. Arrangement of auxiliary devices for internal combustion engines. 2,319,314; May 18.
Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Method and apparatus for temperature regulation. 2,319,223; May 18.
Frostad, George O., Milwaukee, Wis. Soda straw package. 2,319,448; May 18.
Fulton, Chester A. (See Ten Eyck, H. S., and Fulton.)
Gage, Edward G., Brooklyn, assignor of two-thirds to L. Ottinger, New York, N. Y. Safety high potential electrical source and circuit. 2,319,594; May 18.
Gallot, Charles, and A. Alpaugh, Milwaukee, Wis. Fence charging device. 2,319,449; May 18.
Galvin Manufacturing Corporation. (See Becwar, Rudolph A., assignor.)
Garraway, George H., North Plainfield, N. J., assignor to Standard Oil Development Company. Pump. 2,319,730; May 18.
Garrett, Earl E., Marshfield, Oreg. Cord holder. 2,319,731; May 18.
Garrett, Joseph E., Philadelphia, assignor to Jack Kugelman, Abington, Pa. Full-fashioned heel construction. 2,319,224; May 18.
Garvey, Richard J., Dorchester, Mass. Heating system. 2,319,315; May 18.
Geissler, Joseph, Milwaukee, Wis. Convertible table. 2,319,499; May 18.
General Aniline & Film Corporation. (See Burneleit, Willy, assignor.)
General Aniline & Film Corporation. (See Reppe, W., Schmidt, Schulz, and Wenderlein, assignors.)
General Chemical Company. (See Bachman, P. W., and Hammarén, assignors.)
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Agens, Maynard C., assignor.)
General Electric Company. (See Carlson, Frank E., assignor.)
General Electric Company. (See Lake, John E., assignor.)
General Electric Company. (See Linville, Thomas M., assignor.)
General Electric Company. (See Mittermaier, Armin F., assignor.)
General Electric Company. (See Rankin, William K., assignor.)
General Electric Company. (See Thumin, Carl, assignor.)
General Electric Company. (See Treanor, Edward D., assignor.)
General Motors Corporation. (See Clark, Harry F., assignor.)
General Motors Corporation. (See Gerard, Frank W., assignor.)
General Motors Corporation. (See Gould, Richard E., assignor.)
General Motors Corporation. (See Holmes, J. Q., and Gordon, assignors.)
General Motors Corporation. (See Olley, M., and Gibson, assignors.)
General Motors Corporation. (See Rassweiler, G. M., and Frawley, assignors.)
General Motors Corporation. (See Rippingille, Edward V., assignor.)
General Motors Corporation. (See Schweller, Edmund F., assignor.)
General Motors Corporation. (See Tormyn, Herman, assignor.)
General Motors Corporation. (See Trigg, Chester S., assignor.)
General Steel Castings Corporation. (See Krautheim, William C., assignor.)
General Steel Castings Corporation. (See Nystrom, K. F., (Beckette, assignor) and Green.)
Gerard, Frank W., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,319,498; May 18.
Gerendás, Miksa, Budapest, Hungary; vested in the Alien Property Custodian. Closing and clamping device. 2,319,316; May 18.
Gersbach, Herbert A., Malverne Park, assignor to Perey Manufacturing Company, Inc., New York, N. Y. Token control mechanism. 2,319,541; May 18.
Gibson, George F. (See Olley, M., and Gibson.)
Gilbert, Richard H. (See Beekley, H. L., Gilbert, and Lacart.)
Gill, George T. (See Luce, Richard W., assignor.)
Gille, Willis H., St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature sensitive device. 2,319,317; May 18.
Githens, Otto W., and G. Kende, New York, and E. M. Porter, Brooklyn, assignors to Universal Camera Corporation, New York, N. Y. Intermittent film feed. 2,319,318; May 18.
Glogau, Manfred L., assignor to Allen-Bradley Company, Milwaukee, Wis. Multiposition switch. 2,319,503; May 18.
Gold, Benjamin, Brooklyn, N. Y. Photographic apparatus. 2,319,398; May 18.
Good, John, Garden City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting device. 2,319,595; May 18.
Goodrich, B. F., Company, The. (See Grinter, Hershel W., assignor.)
Goodrich, B. F., Company, The. (See Sauser, Doran E., assignor.)
Goodrich, B. F., Company, The. (See Sternad, F. S., and Sapp, assignors.)
Goppel, Otto. (See Friedrich, A., and Goppel.)
Gora, Henry Z., Bridgeport, Conn., assignor to Jenkins Bros., New York, N. Y. Testing equipment. 2,319,501; May 18.
Gordon, Calmer E. (See Holmes, J. Q., and Gordon.)
Gould, Richard E., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus and method. 2,319,502; May 18.
Gould, Samuel, and C. V. Baker, Los Angeles, Calif. Gaseous tube sign. 2,319,450; May 18.
Government of the United States of America, as represented by the Secretary of War. (See Bush, Vannevar, assignor.)
Graham, Louis A., assignor to Graham Transmissions, Inc., Milwaukee, Wis. Torque transmitting device. 2,319,319; May 18.
Graham Transmissions, Inc. (See Graham, Louis A., assignor.)
Grant, Arthur W., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Separating electrodeposited layers. 2,319,596; May 18.
Grayson Heat Control, Ltd. (See Jackson, W. F., and Jeffers, assignors.)
Grebe, John J., Midland, and W. B. Ewing, Grand Rapids, assignors to Ewing Development Company, Bay City, Mich. Sun screen. 2,319,225; May 18.
Green, Arthur W. (See Insley, R., and Green.)
Green, Vernon L. (See Nystrom, K. F., Beckette, and Green.)
Gridiron Steel Company. (See Fay, Horace B., assignor.)
Grinter, Hershel W., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Loading patch for stress-testing aircraft. 2,319,675; May 18.
Griswold, Walter R., and J. H. O'Brien, assignors to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,319,226; May 18.
Groene, William F., and W. R. Meyer, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Gun rifling machine. 2,319,451; May 18.
Grosse, Aristid V., and W. J. Mattox, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of cyclic hydrocarbons. 2,319,452; May 18.
Grote, Henry W., assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of low boiling petroleum distillates. 2,319,500; May 18.
Grotelite Company, The. (See Ryder, Charles D., assignor.)
Gruendler Crusher & Pulverizer Co. (See Poese, Theodore H., assignor.)
Guardian Merchandising Corporation. (See Monnet, Georges, assignor.)
Guelson, Stanley S., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Safety shutoff system. 2,319,676; May 18.
Guetzkow, Edward. (See Saving, R. E., and Guetzkow.)
Gup, David, assignor to The West Tire Setter Company, Rochester, N. Y. Hydraulic circular press. 2,319,677; May 18.
Guth, Edwin F., Florissant, Mo. Lighting fixture. 2,319,732; May 18.
Gwynn, Marion H., Leonia, N. J. Process for activating catalytic surfaces. 2,319,453; May 18.
Haddad, Jerrier. (See Leathers, W., and Haddad.)
Haddad, Jerrier. (See Leathers, W., Haddad, and Bailey.)
Hadden, H. D., executor, et al. (See Leprestre, Rene.)
Hall, Charles W., assignor to M. S. Losey, Denver, Colo. Rotary valve. 2,319,733; May 18.
Hall, Franklin E., Chicago, Ill. Therapeutic machine. 2,319,542; May 18.
Hall, Robert, Lockport, assignor to American District Steam Company, North Tonawanda, N. Y. Continuous service expansion joint. 2,319,543; May 18.
Hall, William J. (See Crowe, O. J., and Hall.)
Hall, William J., assignor of one-half to O. J. Crowe, Detroit, Mich. Molding retainer. 2,319,678; May 18.
Halmos, Charles. (See Holgar, A., and Halmos.)
Hamm, Alexander L., assignor to Combustion Engineering Company, Inc., New York, N. Y. Apparatus for the recovery of chemicals from black liquor. 2,319,399; May 18.
Hamm, Douglas W., assignor to Muskegon Piston Ring Company, Muskegon, Mich. Piston ring. 2,319,454; May 18.
Hammarén, Berndt W. (See Bachman, P. W., and Hammarén.)
Hannan, Dan O. (See Barrans, W. T., Cole, Hannan, and Robson.)

Hanson, Walter M., assignor to American Seating Company, Grand Rapids, Mich. Chair structure. 2,319,597; May 18.
Hardman, George W., Brookline, and M. Watter, assignors to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Resistance welded metallic structure. 2,319,455; May 18.
Hardy, James H., Artesia, Miss. Roofing surface. 2,319,227; May 18.
Harley, Stanley J., and J. E. Wainwright, Coventry, England. Thread cutting tool. 2,319,544; May 18.
Harrington, Lester B., assignor of forty per cent to R. Allen, Salem, and fifteen per cent to C. A. Racely, Portland, Oreg. Vacuum pressure pump. 2,319,228; May 18.
Harrington, Lester B., assignor of forty per cent to R. Allen, Salem, and fifteen per cent to C. A. Racely, Portland, Oreg. Fuel pump. 2,319,229; May 18.
Harrington, Lester B., assignor of forty per cent to R. Allen, Salem, and fifteen per cent to C. A. Racely, Portland, Oreg. Centrifugal pump. 2,319,230; May 18.
Harris, Stanton A., Westfield, and K. Folkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Resolution of racemic α-hydroxy-β,β-dimethyl-γ-butyro lactone, and new compounds obtained by such resolution. 2,319,545; May 18.
Harris, William D., Kansas City, Mo. Apparatus for refining used crankcase oil. 2,319,598; May 18.
Harris, William D., Kansas City, Mo. Refining used crankcase oil. 2,319,599; May 18.
Hartmann, Raymond, and G. R. Tifal, Los Angeles, Calif. Traction splint. 2,319,400; May 18.
Hasche, Rudolph L., and W. B. Hincke, Kingsport, Tenn., assignors, by mesne assignments, to Wulff Process Company, Los Angeles, Calif. Manufacture of acetylene by regenerative type of pyrolysis. 2,319,679; May 18.
Hasenberg, Werner, Rio de Janeiro, Brazil. Simultaneous transmitting and receiving system with electronic change-over device. 2,319,680; May 18.
Hawley, Jesse G., Painted Post, N. Y. Power booster. 2,319,231; May 18.
Hazen, Adelbert G., Centerline, assignor to Chrysler Corporation, Highland Park, Mich. Material handling device. 2,319,456; May 18.
Head, George A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic dial. 2,319,321; May 18.
Heath, Dudley E., assignor to Servel, Inc., New York, N. Y. Refrigerator structure. 2,319,600; May 18.
Hebeler, Edward S., Williamsville, N. Y., assignor, by mesne assignments, to Unit Rays, Inc., Cleveland, Ohio. Method of and apparatus for welding metal. 2,319,401; May 18.
Heckethorn, William W., Littleton, Colo. Lens board lock for cameras. 2,319,681; May 18.
Hedlund, William T., New Rochelle, assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,319,601; May 18.
Hefel, Karl, Innsbruck, Germany; vested in the Alien Property Custodian. Control means for X-ray tubes. 2,319,322; May 18.
Heil Co., The. (See French, H. C., and Schmidt, assignors.)
Helbush, Herman H. (See Wallace, Frank C., assignor.)
Helbush, Herman H. (See Wallace, F. C., and Helbush.)
Held, Oscar A., et al. (See Kofler, Matt G., assignor.)
Hendley, Cornelia S., executrix. (See Hendley, Flavius J.)
Hendley, Flavius J., Chattanooga, Tenn., deceased, C. S. Hendley, executrix. Clamp. 2,319,602; May 18.
Hennessy, James J., Montclair, N. J. Pump structure. 2,319,604; May 18.
Henry, Robert E., Pittsburgh, Pa. Bathtub protector. 2,319,603; May 18.
Hepp, Gerard, Eindhoven, Netherlands; vested in the Alien Property Custodian. Circuit arrangement. 2,319,320; May 18.
Hercules Powder Company. (See Littmann, Edwin R., assignor.)
Heuer, Russell P., Villa Nova, Pa., assignor to Essex Research Corporation, Wilmington, Del. Desulphurizing apparatus. 2,319,402; May 18.
Heyroth, Albert H., assignor to The Carborundum Company, Niagara Falls, N. Y. Siliconized silicon carbide connection and making the same. 2,319,323; May 18.
Hibner, De Los E., Du Bois, and F. C. Arey, Freeport, Pa., assignors to Vulcan Soot Blower Corporation. Soot blower. 2,319,682; May 18.
Hill, Charles A., Buffalo, assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y. Wall structure. 2,319,403; May 18.
Hincke, William B. (See Hasche, R. L., and Hincke.)
Hirst, Arthur A., Northfield, Birmingham, assignor of one-half to Simon-Carves Limited, Cheadle Heath, Stockport, England. Apparatus for gravity separation of granular material. 2,319,457; May 18.
Hoeh, Earl A., assignor to Crane Co., Chicago, Ill. Valve. 2,319,404; May 18.
Hofmann, Victor E., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Apparatus for uniting parts of thermoplastic articles. 2,319,683; May 18.
Holm, Herbert K. (See Lee, R., and Holm.)
Holman, Clarence T., Glendale, Calif., assignor to The Weatherhead Company, Cleveland, Ohio. Fastening device. 2,319,504; May 18.
Holmes, John Q., and C. E. Gordon, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Hydraulic press. 2,319,232; May 18.
Holznagel, Ernest A. (See Rypkema, Martin, assignor.)
Hood, Charles E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Splitting machine. 2,319,324; May 18.
Hoppe, Charles W., Buffalo, N. Y. Soap dispenser. 2,319,233; May 18.
Hornish, Mars M., Washington, Ill. Tractor drawn implement. 2,319,458; May 18.
Horton, Frank J., assignor to F. L. Jacobs Company, Detroit, Mich. Spring construction. 2,319,684; May 18.
Horvitz, Leo, assignor to E. E. Rosaire, Houston, Tex. Geochemical prospecting. 2,319,734; May 18.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Sealing containers. 2,319,234; May 18.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Re-forming machine. 2,319,235; May 18.
Huffington, R. F. (See Whorton, L. H., and Minshall.)
Hughes, Sidney J. (See Fentress, D. W., and Hughes.)
Hultman, Carl E. (See Hultman, Maynard R., and C. E.)
Hultman, Maynard R., and C. E. Hultman, Crafton, Pittsburgh, Pa. Cover for large books. 2,319,605; May 18.
Humphrey, Stanley M., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Welding circuit. 2,319,763; May 18.
Hussman, Carl, Chicago, Ill. Hydraulic vibration and shock absorber. 2,319,735; May 18.
Hutaff, George H., Jr. (See Mailhack, Herman J., assignor.)
Hydraulic Development Corp. Inc. (See Tucker, Warren R., assignor.)
I.-T.-E. Circuit Breaker Company. (See Pokorny, Frank J., assignor.)
Ilford Limited. (See Kendall, J. D., and Collins, assignors.)
Imperial Rayon Corporation. (See Mothwurf, Arthur F. F., assignor.)
Indiana Condensed Milk Company. (See Kennedy, Alex R., assignor.)
Insley, Robert, Farmington, and A. W. Green, West Hartford, assignors to United Aircraft Corporation, East Hartford, Conn. Making valve sleeves. 2,319,546; May 18.
International Business Machines Corporation. (See Leathers, Ward, assignor.)
International Business Machines Corporation. (See Leathers, W., and Haddad, assignors.)
International Business Machines Corporation. (See Leathers, W., Haddad and Bailey, assignors.)
International Business Machines Corporation. (See Panissidi, Hugo, assignor.)
International Cementers, Inc. (See Chesnut, John D., assignor.)
International Cigar Machinery Company. (See Ferenci, Lester, assignor.)
International Harvester Company. (See Dewey, Frederick L., assignor.)
Isaacks, James D., and R. Jones, Houston, Tex., assignors to Sperry-Sun Well, Surveying Company, Philadelphia, Pa. Deflecting tool. 2,319,236; May 18.
Ittner, Martin H., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Manufacture of greases. 2,319,405; May 18.
Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)
Jackson, Wilbur F., Lynwood, and T. H. Jeffers, Los Angeles, assignors to Grayson Heat Control, Ltd., Lynwood, Calif. Safety control for gaseous fuel burners. 2,319,685; May 18.
Jacobs, F. L., Company. (See Horton, Frank J., assignor.)
James Manufacturing Company. (See Waterman, Arthur E., assignor.)
Janhunen, Matti, Helsingfors, E. A. Oivukka, Tampere, and I. P. A. Vienola, Helsingfors, Finland; said Oivukka and said Vienola assignors to said Janhunen. Cash register. 2,319,325; May 18.
Janisch, Maximillian P., Milwaukee, Wis. Artificial bait. 2,319,686; May 18.
Jarmolowsky, Abraham, Brooklyn, N. Y. Fluorescent lamp. 2,319,736; May 18.
Jeffers, Thomas H. (See Jackson, W. F., and Jeffers.)
Jenkins Bros. (See Gora, Henry Z., assignor.)
Jenkner, Adolf, Wanne-Eickel, Germany; vested in the Alien Property Custodian. Producing bitumenlike materials from coal. 2,319,326; May 18.
Jennings, Andrew B. (See Middleton, E. B., and Jennings.)
Johnson, Arthur A., assignor to Automatic Devices Corporation, Bridgeport, Conn. Cigar lighter. 2,319,687; May 18.
Johnson, Chester W., Boston, assignor of one-half to Willard MacMillan, Watertown, Mass. Apparatus for vaporizing and applying liquids. 2,319,459; May 18.
Johnson, Halligan, Miami, Fla. Amusement apparatus. 2,319,327; May 18.

Johnson, Harry E. (See Prutton, Carl F., and Johnson.)
Johnson, Theodore W., assignor to Deere & Company, Moline, Ill. Planter. 2,319,737; May 18.
Johnston, Douglas, assignor to L. R., G. L., and E. S. Tallman, Shelbyville, and J. L. Tallman, Decatur, Ill., trading as Tallman Manufacturing Company. Breather for fluid-actuated machinery. 2,319,460; May 18.
Jones & Lamson Machine Company. (See Lovely, J. E., and Longe, assignors.)
Jones, Burr W., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,319,688; May 18.
Jones, Harry S., Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa. Temperature control instrument. 2,319,406; May 18.
Jones, John W., assignor to H. K. Bellwood, Greenwood, S. C. Check for picker sticks. 2,319,689; May 18.
Jones, Minor C. K., Westfield, N. J., assignor to Standard Oil Development Company. Refining mineral oils. 2,319,738; May 18.
Jones, Ralph. (See Isaacks, J. D., and Jones.)
Just, George A. (See Lunken, E. H., and Just.)
Kaltenbach, Alois, Potsdam, Germany; vested in the Alien Property Custodian. Angle piece. 2,319,328; May 18.
Karpen, Martin S., Chicago, Ill. Cushion. 2,319,690; May 18.
Kaufman, Irving. (See Lo Cascio, P., Kaufman, and Coviello.)
Kautz, Frederick, Philadelphia, Pa. Shelf bracket support for adjustable and releasable shelving. 2,319,237; May 18.
Kayser, Julius, & Company. (See Beers, Joseph L., assignor.)
Kearney, James R., Corporation. (See Conrad, John W., assignor.)
Kearney & Trecker Corporation. (See Saving, R. E., and Guetzkow, assignors.)
Kelchner, John W., Jr., Tonowanda, N. Y. Fluorescent electric tube socket and tube holder. 2,319,461; May 18.
Keller, Joseph F. (See Ungar, Gustave A., assignor.)
Keller, Leo. (See Hodjus, Harry H., assignor.)
Kelly, Harold E. (See Carmody, W. H., and Kelly.)
Kendall, John D. and R. B. Collins, assignors to Ilford Limited, Ilford, England. Production of photographic sensitizing dyestuffs. 2,319,547; May 18.
Kende, George. (See Githens, O. W., Kende, and Porter.)
Kendrick, Charles M., New York, N. Y., assignor to Manly Corporation, Washington, D. C. Fluid pressure device. 2,319,238; May 18.
Kennedy, Alex R., deceased, by H. M. Kennedy, executrix, assignor to Indiana Condensed Milk Company, Indianapolis, Ind. Apparatus for processing canned foods. 2,319,505; May 18.
Kennedy, Andrew J., Sr., Nashville, Tenn., assignor to The Egry Register Company, Dayton, Ohio. Message book. 2,319,506; May 18.
Kennedy, Harriett M., executrix. (See Kennedy, Alex R.)
Kessler, Charles J., Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Liquid dispensing apparatus. 2,319,739; May 18.
Kevorkian, Joseph D., Philadelphia, Pa., and J. R. Wolfson, Forest Hills, N. Y. Knife. 2,319,607; May 18.
Key, Percy C., College Station, Tex. Automatic hose coupling. 2,319,329; May 18.
Kimble Glass Company. (See Rhein, Edwin J., assignor.)
Knochel, William J., Irvington, and D. E. Marshall, Allwood, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ignitron header construction. 2,319,407; May 18.
Koch, Stanley J., Clifton, and R. E. Rutherford, Rutherford, assignors to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Cathode ray tube and process. 2,319,691; May 18.
Kofler, Matt G., assignor of one-fourth to O. A. Held, and one-fourth to B. Sterr, Milwaukee, Wis. Apparatus for making enlargements and still pictures from moving picture film. 2,319,330; May 18.
Korte, Alfred C., assignor to Carter Carburetor Corporation, St. Louis, Mo. Commutator. 2,319,692; May 18.
Korte, Alfred C., St. Louis, and K. Lannert, St. Johns Station, assignors to Carter Carburetor Corporation, St. Louis, Mo. Windshield wiper parking device. 2,319,408; May 18.
Kosek, Ernest, et al. (See Vondracek, Frank J., assignor.)
Krasnow, Shelley. (See Pirson, Sylvain J. G., assignor.)
Kraut, Max, La Libertad, Chontales, Nicaragua, assignor to Southwestern Engineering Company, Los Angeles, Calif. Fluid motor. 2,319,608; May 18.
Krautheim, William C., St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck structure. 2,319,606; May 18.
Kreiser, John R. (See Epstein, S., and Kreiser.)
Kronstad, Haavard, near Mahoningtown, Pa. Kiln. 2,319,548; May 18.
Krumbhaar, William, New York, N. Y. Composition containing wood oil or oiticica oil. 2,319,507; May 18.
Kruse, Edward H., Fort Wayne, Ind. Line guide for fishing poles. 2,319,462; May 18.
Krüssmann, Adolf. (See Wünsch, G., and Krüssmann.)
Kubias, Fred, et al. (See Bondracek, Frank J., assignor.)
Kugelman, Jack. (See Garrett, Joseph E., assignor.)
Kulka, Eugene R., Mount Vernon, N. Y. Socket. 2,319,693; May 18.
Kurtz, Jacob, Teaneck, assignor to Callite Tungsten Corporation, Union City, N. J. Abrasive article. 2,319,331; May 18.
Lacart, Rollin H. (See Beekley, H. L., Gilbert and Lacart.)
La Crosse, Arthur H., Kenosha, Wis. Traction splint. 2,319,609; May 18.
Laird, William G., Maywood, assignor to Sears, Roebuck and Co., Chicago, Ill. Boot. 2,319,239; May 18.
La Joie, Hubert J. (See Perlman, Sol, assignor.)
Lake, John E., Schenectady, N. Y., assignor to General Electric Company. Electric contact member. 2,319,610; May 18.
Lamson Oil Corporation. (See Leary, James E., assignor.)
Lancor, Joseph H., Jr. (See Draper, C. S., Lancor, Jr., and Tzu Li.)
Lannert, Kenneth. (See Korte, A. C., and Lannert.)
La Plant-Choate Mfg. Co. (See Austin, Ellsworth W., assignor.)
Lapsley, Robert, and D. S. Dence, Berrien Springs, assignors to Clark Equipment Company, Buchanan, Mich. Making friction rings. 2,319,740; May 18.
Larsen, Earl I., and E. F. Swazy, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electric contact and the like. 2,319,240; May 18.
Latimer, George T., Harrison, N. Y., assignor to The S. S. White Dental Manufacturing Company. Flexible shaft. 2,319,409; May 18.
Lawrence, Frank L., Renton, Wash. Transmission. 2,319,549; May 18.
Lear Avia, Inc. (See Lear, William P., assignor.)
Lear, William P., Dayton, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio. Mechanical actuator system. 2,319,463; May 18.
Leary, James E., Cranston, R. I., assignor to Lamson Oil Corporation. Wall unit for oil tank installation. 2,319,410; May 18.
Leathers, Ward, Brooklyn, N. Y. Cigarette making machine. 2,319,611; May 18.
Leathers, Ward, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Register operating mechanism. 2,319,411; May 18.
Leathers, Ward, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Automatic meter-reading apparatus. 2,319,412; May 18.
Leathers, Ward, and J. Haddad, Brooklyn, assignors to International Business Machines Corporation, New York, N. Y. Method of and apparatus for producing tapped resistors. 2,319,413; May 18.
Leathers, Ward, and J. Haddad, Brooklyn, N. Y., and W. J. A. Bailey, Packanack Lake, N. J., assignors to International Business Machines Corporation, New York, N. Y. Method of and apparatus for verifying perforated records. 2,319,414; May 18.
Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Meyer, assignors.)
Lee, Russell, Wenonah, and H. K. Holm, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Separation of hydrocarbons. 2,319,694; May 18.
Leprestre, Margaret C., executor, et al. (See Leprestre, Rene.)
Leprestre, Rene, deceased, New York, N. Y., by M. C. Leprestre, Reading, Pa., H. D. Hadden, Westport, and R. C. Tobin, and J. Dannenberg, New York, N. Y., executors. Apparatus for producing hydrogenated hydrocarbon products. 2,319,508; May 18.
Leuthold, Edgar J., assignor to Tung-Sol Lamp Works Inc., Newark, N. J. Starting system and mechanism for gaseous discharge lamps. 2,319,241; May 18.
Lewy, Daniel, Chicago, Ill. Foot arch support. 2,319,550; May 18.
Libbey-Owens-Ford Glass Company. (See Putnam, Erle T., assignor.)
Lichtfeldt, Fred, Wauwatosa, Wis. Door operating mechanism. 2,319,612; May 18.
Lichtstern, Albin. (See Lichtstern, Isidor and Albin.)
Lichtstern, Isidor and A., Cleveland, Ohio. Table. 2,319,613; May 18.
Liddel, Urner, Greenwich, Conn., assignor to American Cynamid Co., New York, N. Y. Sodium ferricyanide with $2H_2O$. 2,319,695; May 18.
Lightfoot, Edwin N., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electrical control apparatus. 2,319,415; May 18.
Linden, Carl E., Norwood, and R. H. McClellan, Hamilton, assignors to The Fosdick Machine Tool Company, Cincinnati, Ohio. Hydraulic operating and control mechanism for machine tools. 2,319,551; May 18.
Linville, Thomas M., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,319,614; May 18.
Lipsius, Samuel, New York, N. Y. Apparatus for coating. 2,319,242; May 18.
Litle, Thomas J., Jr., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Portable ironing machine. 2,319,416; May 18.

Littmann, Edwin R., Westfield, N. J., assignor to Hercules Powder Company, Wilmington, Del. Dehydroabietic acid derivatives. 2,319,696; May 18.
Livingston, Walter, Hastings, Nebr. Casket flower holder. 2,319,243; May 18.
Loakes, Leslie A., Leicester, and G. Pell, Sr., Northampton, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Stiffening the uppers of shoes. 2,319,332; May 18.
Lo Cascio, Pasquale, and I. Kaufman, Brooklyn, N. Y., and P. Coviello, Woodcliff, N. J. Automatic lather machine. 2,319,244; May 18.
Lockhart, Lewis A. (See Smith, T. F., and Lockhart.)
Lockman, Frank D. (See Smith, C. E., and Lockman.)
Logan, Mason A., Summit, N. J., and L. G. Schimpf, St. George, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Service observing system. 2,319,333; May 18.
Long, Eli M., assignor to Shuron Optical Company, Inc., Geneva, N. Y. Lens grinding and polishing machine. 2,319,417; May 18.
Longe, Nelson R. (See Lovely, J. E., and Longe.)
Losey, Malcolm S. (See Hall, Charles W., assignor.)
Lubri-Zol Corporation, The. (See Prutton, C. F., and Johnson, assignors.)
Lovely, John E., and N. R. Longe, assignors to Jones & Lamson Machine Company, Springfield, Vt. Tool carrier control mechanism. 2,319,741; May 18.
Lucas, Stephen J., Chicago, Ill. Reed. 2,319,419; May 18.
Luce, Richard W., Southport, Conn., assignor of one-half to G. T. Gill, South Orange, N. J. Retrodirective reflecting device. 2,319,742; May 18.
Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Inking roller for printing presses. 2,319,615; May 18.
Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Inking roller for printing presses. 2,319,616; May 18.
Lund, James K., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Mixing device for mixing hot and cold liquids. 2,319,418; May 18.
Lung, Kenneth R., assignor to Flint & Walling Manufacturing Co., Inc., Kendallville, Ind. Pump starting controller. 2,319,509; May 18.
Lunken, Edmund H., Hartsdale, and G. A. Just, assignors to Lunken-Just Window Corporation, Scarsdale, N. Y. Window. 2,319,245; May 18.
Lunken-Just Window Corporation. (See Lunken, E. H., and Just, assignors.)
MacChesney, Chester M., assignor to Acme Steel Company, Chicago, Ill. Strap seal. 2,319,334; May 18.
Macdonald, John G. (See Brownlee, Stuart D., and Macdonald.)
Mackenzie, John F. (See Roseby, P. N., and Mackenzie.)
Macksoud, Michel E., Gloucester, Mass. Automatic starting gate. 2,319,420; May 18.
MacLaren, Archibald D., St. Paul, Minn. Oil filter. 2,319,421; May 18.
MacMahon, James D., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Chemical manufacture. 2,319,697; May 18.
MacMillan, Willard. (See Johnson, Chester W., assignor.)
Madland, Gabriel, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Door opening and closing device. 2,319,510; May 18.
Magnus Metal Corporation. (See Dodd, Louis C., assignor.)
Maihack, Herman J., Jersey City, N. J., assignor of one-half to G. H. Hutaff, Jr., Wilmington, N. C. Food warmer. 2,319,422; May 18.
Maihack, Herman J., Jersey City, N. J., assignor of one-half to G. H. Hutaff, Jr., Wilmington, N. C. Food warmer. 2,319,423; May 18.
Malleable Iron Fittings Company. (See Williams, Rolland G., assignor.)
Mallory, P. R., & Co. (See Larsen, E. I., and Swazy, assignors.)
Maloney, Martin E., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,319,424; May 18.
Manierre, George, Milwaukee, Wis. Chain conveyer. 2,319,617; May 18.
Manly Corporation. (See Kendrick, Charles M., assignor.)
Mann, Walter G., Weybridge, England. Scaffold clamp. 2,319,618; May 18.
Manuel, Robert W. (See Anderson, S., and Manuel.)
Marquart, Frank, and W. H. Stivason, Cleveland, Ohio, assignors to The American Steel & Wire Company of New Jersey. Apparatus for coiling strip metal. 2,319,619; May 18.
Marshall, Donald E. (See Knochel, W. J., and Marshall.)
Martin, Erle, West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Auxiliary governor control. 2,319,552; May 18.
Martin, Trevellic O., Jackson, Tenn., assignor of sixty-five per cent to E. S. Miller, Jackson, Mich. Bait-holding attachment for fishhooks. 2,319,246; May 18.
Martinotti, Pietro, Paris, France; vested in the Alien Property Custodian. Rotating assembly. 2,319,335; May 18.
Marzall, John A. (See Neal, Ernest C., assignor.)
Massa, Laurence, Los Angeles, Calif. Tooth for excavating apparatus. 2,319,464; May 18.
Massey-Harris Company Ltd. (See Ego, George R., assignor.)
Mather, Percy, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion reactions. 2,319,620; May 18.
Mathieson Alkali Works, Inc., The. (See MacMahon, James D., assignor.)
Mattox, William J. (See Grosse, A. V., and Mattox.)
Maynard, Carl W., Jr. (See Rossander, S. S., Sparks, and Maynard, Jr.)
Mayne, Walter L., Cincinnati, Ohio. Heating device. 2,319,698; May 18.
Maxwell, James B. (See Schonberg, J. R., and Maxwell.)
McAuley, James. (See Sunderman, F. R., and McAuley.)
McClellan, Raymond H. (See Linden, C. E., and McClellan.)
McCombs, Melvorne J., assignor to The Buckeye Tools Corporation, Dayton, Ohio. Angle head. 2,319,465; May 18.
McCormick, George, Redwood City, and B. M. Brown, Palo Alto, Calif. Car truck safety device. 2,319,466; May 18.
McCullough, Gerald W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Regulating mechanism for valves. 2,319,336; May 18.
McDaniel, Walter O., assignor of one-half to Raymond M. Schweiger, Jefferson, Wis. Sofa bed. 2,319,337; May 18.
McIntyre, Glenn H., Cleveland Heights, and M. J. Bahnsen, Lakewood, assignors to Ferro Enamel Corporation, Cleveland, Ohio. Opacifier and porcelain enamel containing the same. 2,319,247; May 18.
McLachlan, F. S., Co. (See Sunderman, F. R., and McAuley, assignors.)
McLaughlin, William, Los Angeles, Calif. Cover for glass fixture holders. 2,319,621; May 18.
Meek, Sterner St. P., United States Army, Metuchen, N. J. Bullet. 2,319,248; May 18.
Meitzner, Haakon, Houston, Tex. Lawn mower. 2,319,425; May 18.
Merck & Co. (See Harris, S. A., and Folkers, assignors.)
Meyer, Maximilian C., Brooklyn, N. Y. Bottle display device. 2,319,249; May 18.
Meyer, Walter R. (See Groene, W. F., and Meyer.)
Middleton, Edmund B., Woodbridge, and A. B. Jennings, New Brunswick, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic composition containing unsymmetrical diacylacet-polyamino-arylides and color development processes. 2,319,426; May 18.
Miessner, Benjamin F., Harding Township, Morris County, assignor to Miessner Inventions, Inc., Millburn Township, Essex County, N. J. Phonographic pickup device. 2,319,622; May 18.
Miessner Inventions, Inc. (See Miessner, Benjamin F., assignor.)
Migliaccio, Luigi, Paterson, N. J. Apparatus for the treatment of fabrics. 2,319,699; May 18.
Miller, Elmer S. (See Martin, Trevellic O., assignor.)
Miller, Franklin S. (See Barbour, H. C., and Miller.)
Miller, Harry, and J. Schlenther, St. Charles, Mo., assignors to American Car and Foundry Company, New York, N. Y. Reclining seat mechanism. 2,319,700; May 18.
Miller, William R., assignor to Wm. Sellers & Company, Inc., Philadelphia, Pa. Star feed for machine tools. 2,319,701; May 18.
Milwaukee Gas Specialty Company. (See Guelson, Stanley S., assignor.)
Minneapolis-Honeywell Regulator Company. (See Gille, Willis H., assignor.)
Minneapolis-Honeywell Regulator Company. (See Shipley, S. C., Cyr, and Denison, assignors.)
Minneapolis-Honeywell Regulator Company. (See Wilson, John M., assignor.)
Minshall, Ralph L. (See Whorton, L. H., and Minshall.)
Miss O'Mist Products, Inc. (See Smernis, John C., assignor.)
Mitchell, John, Chicago, Ill. Heat treated copper-nickel-molybdenum steel article and making the same. 2,319,250; May 18.
Mittermaier, Armin F., Fort Wayne, Ind., assignor to General Electric Company. Reactor. 2,319,251; May 18.
Mittermaier, Armin F., Fort Wayne, Ind., assignor to General Electric Company. Electromagnetic induction apparatus. 2,319,775; May 18.
Monarch Manufacturing Works, Inc. (See Murphy, Thomas W., assignor.)
Monnet, Georges, New York, N. Y., assignor to Guardian Merchandising Corporation, Montreal, Quebec, Canada. Closure. 2,319,252; May 18.
Monroe Calculating Machine Company (See Britten, Edwin F., Jr., assignor.)

Moon, Charles A., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method and apparatus for producing oil wells. 2,319,702; May 18.
Morey, William E., and R. G. Nicholas, St. Charles, Mo., assignors to American Car and Foundry Company, New York, N. Y. Reclining seat. 2,319,743; May 18.
Morgan, John M., Houston, Tex. Internal combustion motor. 2,319,427; May 18.
Morgan, Ralph H., assignor to Chas. Drexler Co., Indianapolis, Ind. Vernier type positive adjustable boring bar. 2,319,467; May 18.
Morton, Frank M., Phenix City, Ala., assignor to Morton Machine Works, Columbus, Ga. Calender rack. 2,319,553; May 18.
Morton Machine Works. (See Morton, Frank M., assignor.)
Mothwurf, Arthur F. F., Philadelphia, Pa., assignor, by mesne assignments, to Imperial Rayon Corporation, Gloucester, N. J. Rayon manufacture. 2,319,428; May 18.
Mougey, Wilbur E., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Shielding for communication circuits. 2,319,744; May 18.
Mulder, Johannes G. W., Eindhoven, Netherlands; vested in the Alien Property Custodian. Incandescent cathode. 2,319,338; May 18.
Müller, Karl H., Glen Ridge, and R. E. Ressler, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,319,339; May 18.
Murphy, Thomas W., Penn Valley, Lower Merion Township, Montgomery County, assignor to Monarch Manufacturing Works, Inc., Philadelphia, Pa. Spray nozzle. 2,319,767; May 18.
Muskegon Piston Ring Company. (See Hamm, Douglas W., assignor.)
Nagin, Harold, and L. C. Strickland, Pittsburgh, assignors to Reliance Steel Products Company, McKeesport, Pa. Bridge floor. 2,319,468; May 18.
Napoli, Pasquale, New York, N. Y. Mirror. 2,319,745; May 18.
Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,319,469; May 18.
National Airoil Burner Company. (See Ferguson, William, assignor.)
National Geophysical Company. (See Paslay, Le Roy C., assignor.)
Neal, Ernest C., assignor, by mesne assignments, to J. A. Marzall, Chicago, Ill. Tool. 2,319,253; May 18.
Nebel, Max, Chemnitz, Germany; vested in the Alien Property Custodian. Producing double-sided plated knit fabrics. 2,319,340; May 18.
Nelson, Eleanor K. (See Nelson, Wilbur A. and E. K.)
Nelson, Wilbur A. and E. K., South Bend, Wash. Beverage mixer and cooler. 2,319,429; May 18.
Nerwin, Hubert, Dresden, Germany; vested in the Alien Property Custodian. Photographic camera. 2,319,341; May 18.
Neshaim, Otto E., New York, N. Y. Coffee brewing utensil. 2,319,511; May 18.
Nesselbush, Louis M. (See Wick, J. L., Jr., and Nesselbush.)
Neumherz, Herbert W., Gardner, Mass. Hardware. 2,319,254; May 18.
Nichols, Ralph G. (See Morey, W. E., and Nichols.)
Nobles, Warren H., assignor to Seeger Refrigerator Company, St. Paul, Minn. Refrigerator shelf. 2,319,470; May 18.
Norton, Rolland A., Norfolk, Va. Ground working device. 2,319,255; May 18.
Norwick Pharmacal Company. (See Stillman, W. B., Scott, and Clampit, assignors.)
Novi Equipment Company. (See Adler, Herman G., assignor.)
Novi Equipment Company. (See Welch, Lewis W., assignor.)
Nystrom, Karl F., Milwaukee, Wis. Railway car structure. 2,319,471; May 18.
Nystrom, Karl F., Milwaukee, Wis., E. S. Beckette, East St. Louis, Ill., and V. L. Green, Milwaukee, Wis., assignors to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,319,623; May 18.
O'Brien, James H. (See Griswold, W. R., and O'Brien.)
O'Hare, John J., Ridgefield, Conn., assignor to American Rubber Products Corporation, New York, N. Y. Tank ball. 2,319,256; May 18.
Oivukka, Einar A. (See Janhunen, M., Oivukka, and Vienola.)
Olley, Maurice, Detroit, Mich., and G. F. Gibson, Luton, England, assignors to General Motors Corporation, Detroit, Mich. Suspension system. 2,319,430; May 18.
Olsen, Robert C., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Current distributing electrolytic processes. 2,319,624; May 18.
Olson, Arthur A., Youngstown, Ohio. Heating and ventilating. 2,319,703; May 18.
Orr, Palmer, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,319,746; May 18.
Osborne, Orville S., Syracuse, N. Y. Article support. 2,319,747; May 18.
Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Material loading apparatus. 2,319,257; May 18.
Ostrander, John K., Philadelphia, Pa. Variable speed motor system. 2,319,625; May 18.
Oswego Falls Corporation. (See Price, John F., assignor.)
Otis Elevator Company. (See Tilton, Russel G., assignor.)
Ottinger, Leon. (See Gage, Edward G., assignor.)
Owen, David T., Cleveland Heights, assignor to Hanna G. Dimick, Cuyahoga Falls, Ohio. Inner spring cushion and mattress structure. 2,319,431; May 18.
Owens-Illinois Glass Company. (See Hofmann, Victor E., assignor.)
Packard Motor Car Company. (See Griswold, W. R., and O'Brien, assignors.)
Panissidi, Hugo, Jamaica, assignor to International Business Machines Corporation. New York, N. Y. Meter construction. 2,319,432; May 18.
Parker, Frank O., assignor to Acme Steel & Malleable Iron Works, Inc., Buffalo, N. Y. Road joint support. 2,319,513; May 18.
Parrish, Alan J., Paris, Ill. Earth boring machine. 2,319,512; May 18.
Parsons, Robert J., Schenectady, assignor to Consolidated Car Heating Company, Inc., Albany, N. Y. Heating. 2,319,704; May 18.
Paslay, Le Roy C., Chicago, Ill., assignor to National Geophysical Company. Signal controlled amplifier. 2,319,626; May 18.
Pell, George, Sr. (See Loakes, L. A., and Pell, Sr.)
Penfield, Charles S., Bakersfield, assignor to Shell Development Company, San Francisco, Calif. Apparatus for controlling fluid flow through drill strings. 2,319,514; May 18.
Penn, Albert, Elkhart, and B. E. Shaw, Bristol, assignors to Penn Electric Switch Co., Goshen, Ind. Universal air volume controlling device. 2,319,554; May 18.
Penn Electric Switch Co. (See Penn, A., and Shaw, assignors.)
Penn Electric Switch Co. (See Shaw, Burton E., assignor.)
Pennsylvania Industrial Chemical Corporation. (See Corkery, F. W., and Burroughs, assignors.)
Penrose, William F., Irvington, N. J., assignor to Empire Electric Brake Corporation. Electric brake control system. 2,319,258; May 18.
Percy Manufacturing Company. (See Gersbach, Herbert A., assignor.)
Perfection Stove Company. (See Kessler, Charles J., assignor.)
Perlman, Sol, Brooklyn, N. Y., assignor to H. J. La Joie, Newark, N. J. System and apparatus for sound reception. 2,319,627; May 18.
Perrey, Marcel A. L., Herserange, France; vested in the Alien Property Custodian. Apparatus for determining the resistance to fracture of test pieces. 2,319,342; May 18.
Peterson, Chester, Short Hills, N. J., assignor to The H. A. Wilson Company. Contact. 2,319,259; May 18.
Petroleum Conversion Corporation. (See Sperling, Curren C., assignor.)
Phelps, Clyde H., assignor to Weaver Manufacturing Company, Springfield, Ill. Gas flow indicator. 2,319,516; May 18.
Philco Radio and Television Corporation. (See Crowley, John F., assignor.)
Phillips Petroleum Company. (See McCullough, Gerald W., assignor.)
Phillips, Robert L., Memphis, Tenn. Store window showcase. 2,319,433; May 18.
Pincus, Alexis G., assignor to American Optical Company, Southbridge, Mass. Chemical composition. 2,319,260; May 18.
Pinniger, Roy E., Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Burner basket. 2,319,628; May 18.
Pirson, Sylvain J. G., State College, Pa., assignor of one-half to Shelley Krasnow, County of New York, N. Y. Method and apparatus for geoelectrical exploration. 2,319,764; May 18.
Pitman, Arthur L., Berkeley, Calif., assignors to Westvaco Chlorine Products Corporation, South Charleston, W. Va. Stabilizing chlorinated hydrocarbons. 2,319,261; May 18.
Plensler, Alexander W., assignor to Belmont Radio Corporation, Chicago, Ill. Control apparatus. 2,319,472; May 18.
Podjus, Harry H., assignor of one-half to Leo Keller, Chicago, Ill. Safe or vault protecting device. 2,319,473; May 18.
Poese, Theodore H., assignor to Gruendler Crusher & Pulverizer Co., St. Louis, Mo. Shredder blade. 2,319,629; May 18.
Poillevey, Léon, Paris, France; vested in the Alien Property Custodian. Weighing scale recording. 2,319,343; May 18.
Pokorny, Frank J., assignor to I.-T.-E.-Circuit Breaker Company, Philadelphia, Pa. Circuit breaker. 2,319,262; May 18.
Polgar, André, and C. Halmos, Paris, France; vested in the Alien Property Custodian. Stabilizing prints obtained by photographic bleaching. 2,319,344; May 18.

Porter, Everett M. (See Githens, O. W., Kende, and Porter.)
Post, Earl E., Pomona, and C. F. Bonnet, Monrovia, Calif., assignors to American Cyanamid Company, New York, N. Y. Drilling mud. 2,319,705; May 18.
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Multiplex extensor. 2,319,263; May 18.
Premo, Owen D., Muskegon Heights, Mich. Progressive extension drawer slide. 2,319,555; May 18.
Price, John F., assignor to Oswego Falls Corporation, Fulton, N. Y. Machine for cooling coated containers. 2,319,474; May 18.
Priebe, Edward H., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,319,515; May 18.
Prutton, Carl F., Cleveland Heights, and H. E. Johnson, Willoughby, assignors to The Lubri-Zol Corporation, Wickliffe, Ohio. Deodorized sulphur-bearing composition. 2,319,630; May 18.
Pullen, Fred W., assignor to Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet sweeper. 2,319,631; May 18.
Pungor, Charles, Detroit, Mich. Dress steamer device. 2,319,434; May 18.
Putnam, Erle T., Detroit, Mich., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Building block. 2,319,345; May 18.
Quayle, Joshua C., Helsby, assignor to British Insulated Cables Limited, Prescot, Lancashire, England. Arrangement for the measurement of electrical impedance. 2,319,475; May 18.
Racely, Clay A., et al. (See Harrington, Lester B., assignor.)
Radio Corporation of America. (See Smith, Newell R., assignor.)
Radio Corporation of America. (See Zavattaro, Mario, assignor.)
Radio Inventions, Inc. (See Talmey, Paul, assignor.)
Rand, Sidney S., New York, N. Y. Liquid dispensing container. 2,319,517; May 18.
Rankin, Armand T., Indianapolis, Ind., assignor, by mesne assignments of one-half, to Sun-Fire Stoker Corporation, and one-fourth to W. J. Bash, Champaign, Ill. Stoker control. 2,319,774; May 18.
Rankin, William K., Lansdowne, Pa., assignor to General Electric Company. Reclosing circuit breaker system. 2,319,632; May 18.
Rassweiler, Gerald M., Ferndale, and R. N. Frawley, assignors to General Motors Corporation, Detroit, Mich. Automatic steering. 2,319,435; May 18.
Rathbun, Merrill L., Salamanca, N. Y. Closure. 2,319,346; May 18.
Rau, Charles R., assignor to Samuel Stamping and Enameling Company, Chattanooga, Tenn. Pipe joint or coupling. 2,319,518; May 18.
Ray, Don, Los Angeles, Calif. Coating machine. 2,319,476; May 18.
Raytheon Manufacturing Company. (See Dawson, John W., assignor.)
Reed, Jesse O., Washington, D. C., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America and his successors in office. Fractionating apparatus. 2,319,365; May 18.
Reed, Warren B., New Orleans, La. Valve control. 2,319,347; May 18.
Reit, Walter, Philadelphia, Pa. Fluid-drive power transmission. 2,319,706; May 18.
Reliance Steel Products Company. (See Nagin, H., and Strickland, assignors.)
Reppe, Walter, W. Schmidt, A. Schulz, and H. Wenderlein, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Production of aliphatic dihydric alcohols. 2,319,707; May 18.
Research Corporation. (See Draper, C. S., Lancor, Jr., and Tzu Li, assignors.)
Ressler, Ralph E. (See Müller, K. H., and Ressler.)
Reynolds Metals Company. (See Speir, Robert W., Jr., assignor.)
Rhein, Edwin J., assignor to Kimble Glass Company, Vineland, N. J. Physician's package. 2,319,556; May 18.
Rhodes, Austin D., assignor to J. L. Thompson Manufacturing Company, Waltham, Mass. Riveting machine. 2,319,748; May 18.
Richards, Alfred E., and M. Roberts, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Nailing machine. 2,319,348; May 18.
Richards, Boggs & King, Inc. (See Boggs, Henry R., assignor.)
Richker, Charles. (See Eastman, Du Bois, and Richker.)
Rippingille, Edward V., assignor to General Motors Corporation, Detroit, Mich. Clutch mechanism. 2,319,366; May 18.
Ritz-Woller, Oliver C., Chicago, Ill. Support arm for mirrors. 2,319,557; May 18.
Robbins, George A., Hilliar Township, Knox County, Ohio. Autogovernor. 2,319,264; May 18.
Roberts, Maurice. (See Richards, A. E., and Roberts.)
Robson, Duer C. (See Barrans, W. T., Cole, Hannan, and Robson.)
Rogers, H. F. (See Ford, Edward T., assignor.)
Romanoff, Hippolyte W., New York, N. Y., assignor to "V" Cutter Corporation. Wire cutting tool. 2,319,558; May 18.
Rosaire, Esme E. (See Horvitz, Leo, assignor.)
Rosaire, Esme E., Houston, Tex. Stage indicator. 2,319,519; May 18.
Roseby, Philip N., Woodvale, and J. F. Mackenzie, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill. Electrical signaling system. 2,319,633; May 18.
Rosenberg Bros. & Co. (See Vigneau, Emile N., assignor.)
Rossander, Swanie S., C. E. Sparks, and C. W. Maynard, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyestuffs. 2,319,265; May 18.
Rush, Harry A., Glendale, Calif. Electric water heater. 2,319,266; May 18.
Rush, Harry A., Glendale, Calif. Electric water heater 2,319,477; May 18.
Rutherford, Robert E. (See Koch, S. J., and Rutherford.)
Rybak, William E., Cleveland, Ohio. Body and fender pickup tool. 2,319,478; May 18.
Ryder, Charles D., Covington, assignor to The Grotelite Company, Bellevue, Ky. Self-locking plastic injection mold. 2,319,479; May 18.
Rypkema, Martin, Sandstone, Minn., assignor of one-half to E. A. Holznagel. Highway ice crusher and loosener. 2,319,520; May 18.
Sabo, Alexander. (See Smith, F. A., and Sabo.)
Safford, Truman S., Riverside, Conn. Refrigeration apparatus. 2,319,349; May 18.
Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Composite package. 2,319,560; May 18.
Salnikov, Ivan S., Tulsa, Okla., assignor to Standard Oil Development Company. Bore hole pump. 2,319,749; May 18.
Samuel Stamping and Enameling Company. (See Rau, Charles R., assignor.)
Sapp, John P. (See Sternad, F. S., and Sapp.)
Sauser, Doran E., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softener for synthetic rubber. 2,319,634; May 18.
Savage, Loys P., Bonner, Mont. Beet harvesting apparatus. 2,319,559; May 18.
Saving, Ralph E., Wauwatosa, and E. Guetzkow, assignors to Kearney & Trecker Corporation, West Allis, Wis. Adjustable micrometer dial. 2,319,480; May 18.
Sawyer, Edward E., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association, as trustee. Individual multilayer fibrous resin-bearing article. 2,319,267; May 18.
Saylor, Wilbur A., Bellevue, Pa. Treating steel. 2,319,635; May 18.
Scharsch, Walter R., Stockton, Calif., assignor to Cogrisch Products, Inc. Food cooking unit. 2,319,561; May 18.
Schiebold, Ernst, Leipzig, Germany; vested in the Alien Property Custodian. X-ray tube and apparatus. 2,319,350; May 18.
Schimpf, Luther G. (See Logan, M. A., and Schimpf.)
Schlage Lock Company. (See Schlage, Walter R., assignor.)
Schlage, Walter R., Burlingame, assignor to Schlage Lock Company, San Francisco, Calif. Door lock. 2,319,268; May 18.
Schlenther, Julius. (See Miller, H., and Schlenther.)
Schlums, Otto W., assignor to Whitin Machine Works, Whitinsville, Mass. Apron guiding device for long draft mechanism. 2,319,367; May 18.
Schonberg, Jackson R., and J. B. Maxwell, Westfield, N. J., assignors to Standard Oil Development Company. Distillation process. 2,319,750; May 18.
Schmidt, Harlow L. (See French, H. C., and Schmidt.)
Schmidt, Willi. (See Reppe, W. Schmidt, Schulz, and Wenderlein.)
Schneider, William G., and C. W. Armantrout, Seattle, Wash. Automobile tow bar. 2,319,521; May 18.
Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Actuating means for twin master cylinders. 2,319,368; May 18.
Schoenwetter, Reinhold D., Clarendon, assignor to Swirling Heat, Inc., Rosslyn, Va. Oil burner. 2,319,636; May 18.
Schopmeyer, Herman H., and G. E. Felton, Hammond, Ind., assignors to American Maize-Products Company. Starch product and making. 2,319,637; May 18.
Schreiner, George A. (See Cluett, S. L., and Schreiner.)
Schulz, Alfred. (See Reppe, W., Schmidt, Schulz, and Wenderlein.)
Schwalberg, Abraham, Brooklyn, N. Y. Wrist watch strap. 2,319,269; May 18.
Schwartz, Fernand F., and M. A. Chavannes, Paris, France, assignors, by mesne assignments, to Ecla Patents Corporation, New York, N. Y. Coating of surfaces with liquids by spraying. 2,319,353; May 18.
Schweiger, Raymond M. (See McDaniel, Walter O., assignor.)
Schweitzer & Conrad, Inc. (See Triplett, Hugh A., assignor.)

Schweller, Edmund F., assignor to General Motors Corporation, Dayton Ohio. Refrigerating apparatus. 2,319,522; May 18.
Scott, Albert B. (See Stillman, W. B., Scott, and Clampit.)
Sears, Roebuck and Co. (See Laird, William G., assignor.)
Sease, Virgil B., New Brunswick, and J. R. Weber, South River, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Process of color photography. 2,319,369; May 18.
Secretary of Agriculture of the United States of America, Claude R. Wickard, and to his successors in office. (See Reed, Jesse O., assignor.)
Seeger Refrigerator Company. (See Nobles, Warren H., assignor.)
Sellers, Wm., & Company. (See Miller, William R., assignor.)
Servel, Inc. (See Heath, Dudley E., assignor.)
Servel, Inc. (See Hedlund, William T., assignor.)
Sharp, Paul F., assignor to Cornell Research Foundation, Inc., Ithaca, N. Y. Stable crystalline anhydrous alpha lactose product and process. 2,319,562; May 18.
Shaw, Burton E. (See Penn, A., and Shaw.)
Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Thermostat. 2,319,563; May 18.
Sheker, James W., Fort Dodge, Iowa. Vacuum cleaner support. 2,319,638; May 18.
Shell Development Company. (See Penfield, Charles S., assignor.)
Sheppel, Nickolas. (See Wilkinson, George D., and Sheppel.)
Shipley, Sylvanus C., B. Cyr, and F. S. Denison, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fuel burner construction. 2,319,351; May 18.
Shuron Optical Company. (See Long, Eli M., assignor.)
Silent Glow Oil Burner Corporation, The. (See Smith, G. C., and Carlberg, assignors.)
Silver, Walter H., assignor to Deere & Company, Moline, Ill. Multiple hitch device. 2,319,751; May 18.
Simmons, Frank L., Woonsocket, R. I. Permanent magnet chuck. 2,319,270; May 18.
Simon-Carves Limited. (See Hirst, Arthur A., assignor.)
Simonson, Lloyd D. (See Bruning, W., and Simonson.)
Simpson, R. A., Manufacturing Company. (See Charlton, John M., assignor.)
Simpson, Walter W., San Antonio, Tex. Bandage apparatus. 2,319,639; May 18.
Sink, Burson A., Benton Harbor, Mich. Propeller guard. 2,319,640; May 18.
Smernis, John C., assignor to Miss O'Mist Products, Inc., Chicago, Ill. Vaporizing machine. 2,319,352; May 18.
Smith, Clifford E., and F. D. Lockman, Lockhart, S. C., assignors to Curtis & Marble Machine Company, Worcester, Mass. Feed mechanism for railway sewing machines. 2,319,370; May 18.
Smith, Frank A., and A. Sabo, Highland Park, Calif. Fuel mixture cooling and expansion retarding pressure feeder. 2,319,752; May 18.
Smith, George C., and J. E. Carlberg, assignors to The Silent Glow Oil Burner Corporation, Hartford, Conn. Oil burner. 2,319,708; May 18.
Smith, Newell R., Bloomfield, N. J., assignor to Radio Corporation of America. Base and socket. 2,319,564; May 18.
Smith, Roy H. (See Stratford, R. K., and Smith.)
Smith, Thomas F., Milton, and L. A. Lockhart, Natick, Mass. Lock. 2,319,753; May 18.
Socony-Vacuum Oil Company. (See Lee, R., and Holm, assignors.)
Socony-Vacuum Oil Company. (See Moon, Charles A., assignor.)
Soday, Frank J., Upper Darby, Pa., assignor to The United Gas Improvement Company. Hydrogenated polycyclopentadiene. 2,319,271; May 18.
Southern Phosphate Corporation. (See Ten Eyck, H. S., and Fulton, assignors.)
Southwestern Engineering Company. (See Kraut, Max, assignor.)
Spahn, Charles F., Jr., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical contacting device. 2,319,754; May 18.
Sparks, Chiles E. (See Rossander, S. S., Sparks, and Maynard, Jr.)
Speir, Robert W., Jr., assignor to Reynolds Metals Company, Richmond, Va. Carton. 2,319,641; May 18.
Sperling, Curren C., assignor to Petroleum Conversion Corporation, Elizabeth, N. J. Production of motor fuel of low sulphur content. 2,319,354; May 18.
Sperry-Sun Well Surveying Company. (See Isaacks, J. D., and Jones, assignors.)
Spraragen, Louis, assignor to Bridgeport Fabrics, Inc., Bridgeport, Conn. Sealing strip. 2,319,709; May 18.
Spraying Systems Co. (See Vegell, Albert, assignor.)
Standard Oil Company. (See Carmody, Don R., assignor.)
Standard Oil Company. (See Wickham, H. P., and White, assignors.)
Standard Oil Development Company. (See Garraway, George H., assignor.)
Standard Oil Development Company. (See Jones, Minor C. K., assignor.)
Standard Oil Development Company. (See Salnikov, Ivan S., assignor.)
Standard Oil Development Company. (See Schonberg, J. R., and Maxwell, assignors.)
Standard Oil Development Company. (See Stratford, R. K., and Smith, assignors.)
Starr, Delano T., San Gabriel, Calif. Patching material for rubber goods. 2,319,272; May 18.
Stenographic Machines Inc. (See Sterling, John G., assignor.)
Sterling, John G., Chicago, Ill., assignor to Stenographic Machines Inc. Stenographic machine. 2,319,273; May 18.
Stern, Charles, Jersey City, N. J. Steam control system for locomotive cylinders and steam chests. 2,319,642; May 18.
Sternad, Frank S., Cuyahoga Falls, and J. P. Sapp, Kent, assignors to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire machine. 2,319,643; May 18.
Sterr, Byron, et al. (See Kofler, Matt G., assignor.)
Stillman, William B., A. B. Scott, and J. M. Clampit, assignors to Norwich Pharmacal Company, Norwich, N. Y. Antiseptics. 2,319,481; May 18.
Stivason, William H. (See Marquart, Frank, and Stivason.)
Stonecypher, William E., Los Angeles, Calif. Folding box. 2,319,371; May 18.
Storey, Alvin B., Cumberland, Md., assignor to Celanese Corporation of America. Cleaning tool. 2,319,355; May 18.
Strain, William H. (See Dickey, J. B., and Strain.)
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Hitch device. 2,319,755; May 18.
Stratford, Reginald K., Moore Township, and R. H. Smith, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Catalytic cracking process. 2,319,710; May 18.
Stratton, Frank E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Machine for applying presssure to soles and shoes. 2,319,274; May 18.
Stratton, Robert S., Phoenix, Ariz. Evaporative cooler. 2,319,565; May 18.
Strickland, Leslie C. (See Nagin, H., and Strickland.)
Striker, Michael S. (See Eddy, Arnold, assignor.)
Strobl, Samuel, Chicago, Ill. Shaper tool holder. 2,319,644; May 18.
Sullivan Machinery Company. (See Osgood, Robert C., assignor.)
Sullivan, Michael F., St. Louis, Mo. Shoe counter. 2,319,356; May 18.
Sunderman, Frederick R., New York, and J. McAuley, Bronx, N. Y., assignors to F. S. McLachlan Co., Inc. Fuel pump. 2,319,566; May 18.
Sun-Fire Stoker Corporation. (See Rankin, Armand T., assignor.)
Swan, John B., Gladstone, Mich. Pleasant puff overdraft pipe. 2,319,756; May 18.
Swazy, Earl F. (See Larsen, E. I., and Swazy.)
Swirling Heat, Inc. (See Schoenwetter, Reinhold D., assignor.)
Tallman, Emma S., et al. (See Johnston, Douglas, assignor.)
Tallman, Gentry L., et al. (See Johnston, Douglas, assignor.)
Tallman, Jesse L., et al. (See Johnston, Douglas, assignor.)
Tallman, Leslie R., et al. (See Johnston, Douglas, assignor.)
Tallman Manufacturing Company. (See Johnston, Douglas, assignor.)
Talmey, Paul, assignor to Radio Inventions, Inc., New York, N. Y. Electrolytic recording. 2,319,765; May 18.
Tarshis, Elias A. (See Bard, Morry A., and Tarshis.)
Taylor-Winfield Corporation, The. (See Humphrey, Stanley M., assignor.)
Technicolor Motion Picture Corporation. (See Clark, Arthur B., assignor.)
Teletype Corporation. (See Potts, Louis M., assignor.)
Ten Eyck, Hugh S., and C. A. Fulton, assignors to Southern Phosphate Corporation, Baltimore, Md. Aqueous drilling mud. 2,319,395; May 18.
Ternstedt Manufacturing Company. (See Olsen, Robert C., assignor.)
Texas Company, The. (See Eastman, Du Bois, and Richker, assignors.)
Texas Company, The. (See Wilkinson, Clarence E., assignor.)
Thomas, William D., Jr. (See Cook, E. W., and Tomas, Jr.)
Thompson, Judson L., Manufacturing Company. (See Rhodes, Austin D., assignor.)
Threads, Incorporated. (See Cone, Ralph R., assignor.)
Thumin, Carl, Yeadon, Pa., assignor to General Electric Company. Circuit breaker operating system. 2,319,645; May 18.
Thurston, George M., Hasbrouck Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Variable air-gap crystal holder. 2,319,357; May 18.
Tifal, Gustave R. (See Hartmann, R., and Tifal.)

Tilton, Russell G., Mountain Lakes, N. J., assignor to Otis Elevator Company, New York, N. Y. Vulcanizing mechanism. 2,319,372; May 18.
Tobin, Ralph C., executor, et al. (See Leprestre, Rene.)
Tome, Charles A., Wilmington, Del. Tube. 2,319,275; May 18.
Tormyn, Herman, assignor to General Motors Corporation, Detroit, Mich. Making metal articles. 2,319,373; May 18.
Treanor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Transformer load indicator. 2,319,646; May 18.
Trigg, Chester S., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,319,523; May 18.
Triplett, Hugh A., Wilmette, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Circuit interrupting apparatus. 2,319,276; May 18.
Triplett, Hugh A., Wilmette, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Circuit interrupting apparatus. 2,319,277; May 18.
Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Apparatus and method for injection molding. 2,319,482; May 18.
Tung-Sol Lamp Works Inc. (See Leuthold, Edgar J., assignor.)
Tzu Li, Yao. (See Draper, C. S., Lancor, Jr., and Tzu Li.)
Udylite Corporation, The. (See Davis, John V., assignor.)
Ulrich, Horace W., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Through supervision system. 2,319,358; May 18.
Undy, Gustav E., assignor to Weltronic Corporation, Detroit, Mich. Timing control system. 2,319,524; May 18.
Ungar, Gustave A., Pelham Manor, assignor to Joseph F. Keller, New York, N. Y. Balanced pump and motor. 2,319,374; May 18.
Unit Rays, Inc. (See Hebeler, Edward S., assignor.)
United Aircraft Corporation. (See Insley, R., and Green, assignors.)
United Aircraft Corporation. (See Martin, Erle, assignor.)
United Engineering and Foundry Company. (See Emigh, Howard E., assignor.)
United Gas Improvement Company, The. (See Soday, Frank J., assignor.)
United Shoe Machinery Corporation. (See Baker, Corwin W., assignor.)
United Shoe Machinery Corporation. (See Brostrom, Charles G., assignor.)
United Shoe Machinery Corporation. (See Hood, Charles E., assignor.)
United Shoe Machinery Corporation. (See Loakes, L. A., and Pell, Sr., assignors.)
United Shoe Machinery Corporation. (See Richards, A. E., and Roberts, assignor.)
United Shoe Machinery Corporation. (See Stratton, Frank E., assignor.)
Unitd States Rubber Company. (See Grant, Arthur W., assignor.)
Universal Camera Corporation. (See Githens, O. W., and Kende, and Porter, assignors.)
Universal Oil Products Company. (See Angell, Charles H., assignor.)
Universal Oil Products Company. (See Benedict, Wayne L., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Grosse, A. V., and Mattox, assignors.)
Universal Oil Products Company. (See Grote, Henry W., assignor.)
Universal Oil Products Company. (See Mather, Percy, assignor.)
Urbain, Leon F., Chicago, Ill. Display board construction. 2,319,278; May 18.
"V" Cutter Corporation. (See Romanoff, Hippolyte W., assignor.)
Van Almelo, Frederick K., Nassau, assignor to Consolidated Car Heating Company, Inc., Albany, N. Y. Heating device. 2,319,711; May 18.
Vautrot, George P., Leavenworth, Kans. Quick action pipe wrench. 2,319,647; May 18.
Vega Aircraft Corporation. (See Corte, Alfred, assignor.)
Vegell, Albert, assignor, by mesne assignments, to Spraying Systems Co., Chicago, Ill. Filling tanks. 2,319,567; May 18.
Vienola, Ilmari P. A. (See Janhunen, M., Oivukka, and Vienola.)
Vigneau, Emile N., assignor to Rosenberg Bros. & Co., San Francisco Calif. Nut-cracking apparatus. 2,319,757; May 18.
Vondracek, Frank J., assignor of one-tenth to Fred Kubias and one-tenth to Ernest Kosek, Cedar Rapids, Iowa. Lawn mower. 2,319,483; May 18.
Von Gehr, George H., Chicago, Ill. Electrical outlet. 2,319,375; May 18.
Vulcan Corporation. (See Clausing, George, assignor.)
Vulcan Soot Blower Corporation. (See Hibner, De L. E., and Arey, assignors.)
Wagner Electric Corporation. (See Dick, Burns, assignor.)
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Wainwright, John E. (See Harley, S. J., and Wainwright.)
Wales, George F., Kenmore, N. Y. Punching device. 2,319,568; May 18.
Walker, Walter O. (See Ehman, P. J., and Walker.)
Wallace, Frank C., Los Angeles, assignor, by mesne assignments, to Herman H. Helbush, Beverly Hills, Calif. Rivet. 2,319,376; May 18.
Wallace, Frank C., Los Angeles, and H. H. Helbush, assignors, by mesne assignments, to Herman H. Helbush, Beverly Hills, Calif. Clamping tool. 2,319,377; May 18.
Walsh, James F., Yonkers, N. Y., and J. Dudicker, Hammond, Ind., assignors to American Maize-Products Company. Making dextrose. 2,319,648; May 18.
Walsh, James F., Yonkers, N. Y., assignor to American Maize-Products Company. Making purified sirup. 2,319,649; May 18.
Walstrom, Brother E., Buchanan, Mich. Shoe form. 2,319,650; May 18.
Washington Institute of Technology, Inc. (See Davies, Gomer L., assignor.)
Wassenegger, Hans, Dessau in Anhalt, Germany; vested in the Alien Property Custodian. Manufacture of cation-exchanging artificial resins. 2,319,359; May 18.
Waterman, Arthur E., assignor to James Manufacturing Company, Fort Atkinson, Wis. Locking and adjusting means for window sashes. 2,319,525; May 18.
Watkins, Bruce O., Tucson, Ariz. Current differentiated timing mechanism for the purpose of tripping circuit breakers or switches. 2,319,279; May 18.
Watter, Michael. (See Hardman, G. W., and Watter.)
Wearn, Stanley J., Los Angeles, Calif. Screed support. 2,319,526; May 18.
Weatherhead Company, The. (See Baldwin, John D., Jr., assignor.)
Weatherhead Company, The. (See Holman, Clarence T., assignor.)
Weaver Manufacturing Company. (See Phelps, Clyde H., assignor.)
Weber, John R. (See Sease, V. B., and Weber.)
Weisglass, Louis L., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Stabilizer system. 2,319,378; May 18.
Welch, Lewis W., Detroit, assignor to Novi Equipment Company, Novi, Mich. Heater structure. 2,319,379; May 18.
Wells, William J., assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Collapsible carry home container. 2,319,380; May 18.
Welmaid Products. (See Callan, T. J., and Erickson, assignors.)
Welp, Herman T., assignor, by mesne assignments, to Chicago Railway Equipment Company, Chicago, Ill. Brake beam head. 2,319,484; May 18.
Weltronic Corporation. (See Undy, Gustav E., assignor.)
Wenderlein, Hans. (See Reppe, W., Schmidt, Schulz, and Wenderlein.)
West Tire Setter Company, The. (See Gup, David, assignor.)
Western Electric Company. (See Barrans, W. T., Cole, Hannan, and Robson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Breckenridge, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Calvert, Landon R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Knochel, W. J., and Marshall, assignors.)
Westinghouse Electric & Manufacturing Company. (See Weisglass, Louis L., assignor.)
Westvaco Chlorine Products Corporation. (See Pitman, Arthur L., assignor.)
White Cap Company. (See Davies, Lynn E., assignor.)
White, Charles H., assignor to Deere & Company, Moline, Ill. Planting and fertilizing means. 2,319,758; May 18.
White, Dennis C., Akron, Ohio. Measuring profiles and contours. 2,319,569; May 18.
White, George, Jr. (See Wickham, H. P., and White.)
White, S. S., Dental Manufacturing Company, The. (See Latimer, George T., assignor.)
Whitin Machine Works. (See Schlums, Otto W., assignor.)
Whorton, Leo H., and Ralph L. Minshall, Donna; said Minshall assignor to J. R. Huffington, Bexar County, Tex. Toothpick dispenser. 2,319,570; May 18.
Wick, James L., Jr., and L. M. Nesselbush, assignors to The Falcon Bronze Company, Youngstown, Ohio. Cooling plate for blast furnace inwalls and mantles. 2,319,571; May 18.
Wickham, Henry P., New York, N. Y., and G. White, Jr., Summit, N. J., assignors to Standard Oil Company, Chicago, Ill. Continuous dewaxing. 2,319,381; May 18.
Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Conveyer. 2,319,280; May 18.
Wilkinson, Clarence E., Port Neches, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Apparatus for saturating roofing felt. 2,319,382; May 18.

Wilkinson, George D., Oak Park, and N. Sheppel, assignors to Cribben and Sexton Company, Chicago, Ill. Oven drawer and door mechanism. 2,319,651; May 18.
Willard Storage Battery Company. (See Codney, Arthur O., assignor.)
Willard Storage Battery Company. (See Codney, A. O., and Bailey, assignors.)
Williams, Edward E., Bronx, N. Y. Daylight fluoroscope. 2,319,712; May 18.
Williams, Rolland G., Fort Myers, Fla., assignor to Malleable Iron Fittings Company, Branford, Conn. Load transfer unit for paving joint structures. 2,319,713; May 18.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Outlet structure for tanks. 2,319,759; May 18.
Wilson, Edwin B., Forest Hills, assignor to Design Laboratories, Incorporated, New York, N. Y. Louver for lighting fixtures. 2,319,572; May 18.
Wilson, H. A., Company, The. (See Peterson, Chester, assignor.)
Wilson, John M., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic control system for fuel burners. 2,319,360; May 18.
Wind Governor Corporation. (See Fiedler, William J., assignor.)
Winters, William P., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Conveyer. 2,319,281; May 18.
Wiseley, Don C., Los Angeles, Calif. Safety razor. 2,319,361; May 18.
Wolfson, Joseph R. (See Kevorkian, J. D., and Wolfson.)
Woodward Governor Company. (See Drake, George F., assignor.)
Woolf, William L., Bayside, Long Island, N. Y., assignor, by mesne assignments, to Amertype Recordgraph Corporation, Elizabeth, N. J. Sprocket for feeding film. 2,319,282; May 18.
Wouters, Otto J., Zwolle, Netherlands; vested in the Alien Property Custodian. Process for the production of solid milk products. 2,319,362; May 18.
Wulff Process Company. (See Hasche, R. L., and Hincke, assignors.)
Wünsch, Guido, and A. Krüssmann, Berlin, Germany; vested in the Alien Property Custodian. Device for remote control. 2,319,363; May 18.
Young, Raymond E., Harvey, Ill. Damper for furnaces and the like. 2,319,652; May 18.
Youngstown Steel Door Company, The. (See Madland, Gabriel, assignor.)
Zachariassen, Stig H. B., Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator. 2,319,653; May 18.
Zalkind, Philip, New York, N. Y. Container and parts therefor. 2,319,283; May 18.
Zap, Edward F., Los Angeles, Calif. Linkage mounting for aerodynamic members. 2,319,383; May 18.
Zavattaro, Mario, Milan, Italy, assignor to Radio Corporation of America. Cabinet for portable radio receiver sets. 2,319,527; May 18.
Ziegs, Paul, Pforzheim, Germany; vested in the Alien Property Custodian. Electrical heating conductor and producing same. 2,319,364; May 18.
Zwickel, Elmer L., executor. (See Brennan, Daniel A.)
Zwirn, Charles W., New York, N. Y. Projection apparatus. 2,319,284; May 18.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Broaching machine, Hydraulic. B. Welte. Re. 22,318; May 18.
Control apparatus. J. W. Dawson. Re. 22,314; May 18.
Fuse link construction. A. G. Steinmayer. Re. 22,319; May 18.
Resistor, Electric. K. L. Britton and R. O. Eaton. Re. 22,313; May 18.
Switch, Drop-out. C. N. Fry. Re. 22,315; May 18.
Transmission, Automatic. O. H. Banker. Re. 22,312; May 18.
Welder, Stud. E. F. Nelson. Re. 22,317; May 18.
Wheel mounting for vehicles, Shock reducing and cushioning. G. L. Larison. Re. 22,316; May 18.

LIST OF PLANT INVENTIONS

Aster. J. J. Grullemans. 584; May 18.
Rose. J. H. Nicholas. 586; May 18.
Tree, Pear. W. F. Shannon. 585; May 18.

LIST OF DESIGN INVENTIONS

Airplane. R. J. Duhamel. 135,696; May 18.
Airplane. F. S. Hornak. 135,702; May 18.
Badge or similar article of jewelry. J. Feldner. 135,691; May 18.
Belt, Ribbon pocket. D. Vertes. 135,709; May 18.
Boring mill, Horizontal. F. S. Jones. 135,686; May 18.
Brassière. P. Amyot. 135,699; May 18.
Cart, Hand. V. C. Kenney. 135,697; May 18.
Extractor, Fruit juice. T. R. Bunton. 135,703; May 18.
Fuel dispensing unit. F. E. Neef, Jr. 135,687; May 18.
Game device. B. Daniels. 135,704; May 18.
Game device. J. W. Dreuke. 135,706; May 18.
Game device. W. F. Dreueke, Jr. 135,707; May 18.
Hat. Z. Harpignies. 135,708; May 18.
Hat. D. Vernon. 135,690; May 18.
Lamp. M. Samit. 135,698; May 18.
Milling machine. R. F. Onsrud. 135,688; May 18.
Pipe coupling or similar article, Pliant. I. Ročič. 135,689; May 18.
Ring, Cigarette holder. J. M. Bock. 135,700; May 18.
Rosary or similar article, Religious. F. X. Smith. 135,693; May 18.
Sign, Portable. J. B. Cottell. 135,705; May 18.
Slip or similar article. F. Hawkes. 135,701; May 18.
Swing. W. I. Smith. 135,694; May 18.
Teething device. R. S. Claflin. 135,685; May 18.
Tray, Coin. G. L. Allen. 135,695; May 18.
Violin. M. Little. 135,692; May 18.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article. J. Kurtz. 2,319,331; May 18.
Acetylene by regenerative type of pyrolysis, Manufacture of. R. L. Hasche and W. B. Hincke. 2,319,679; May 18.
Actuating means for twin master cylinders. S. Schnell. 2,319,368; May 18.
Adjustable boring bar. Vernier type positive. R. H. Morgan. 2,319,467; May 18.
Aero chamber rosette. F. C. Evans and F. M. Cowan. 2,319,671; May 18.
Alcohols, Production of aliphatic dihydric. W. Reppe, W. Schmidt, A. Schulz, and H. Wenderlein. 2,319,707; May 18.
Amusement apparatus. H. Johnson. 2,319,327; May 18.
Angle piece. A. Kaltenbach. 2,319,328; May 18.
Antenna system. R. A. Becwar. 2,319,760; May 18.
Antiseptic. W. B. Stillman, A. B. Scott, and J. M. Clampit. 2,319,481; May 18.
Apparatus and method for injection molding. W. R. Tucker. 2,319,482; May 18.
Apparatus for cleaning tubular elements. E. A. Brown and N. Benotti. 2,319,531; May 18.
Apparatus for coating. S. Lipsius. 2,319,242; May 18.
Apparatus for coiling strip metal. F. Marquart and W. H. Stivason. 2,319,519; May 18.
Apparatus for controlling fluid flow through drill strings. C. S. Penfield. 2,319,514; May 18.
Apparatus for determining the resistance to fracture of test pieces. M. A. A. Perrey. 2,319,342; May 18.
Apparatus for dispensing carbonated beverages. R. H. Ellison. 2,319,308; May 18.
Apparatus for drilling holes in stone. H. C. Barbour and F. S. Miller. 2,319,528; May 18.
Apparatus for gravity separation of granular material. A. A. Hirst. 2,319,457; May 18.
Apparatus for loading sheath wire heating units. C. C. Abbott. 2,319,573; May 18.
Apparatus for making enlargements and still pictures from moving picture film. M. G. Kofler. 2,319,330; May 18.
Apparatus for measuring the thickness of metallic plating on bases. S. Anderson and R. W. Manuel. 2,319,196; May 18.
Apparatus for processing canned foods. A. R. Kennedy. 2,319,505; May 18.
Apparatus for producing hydrogenated hydrocarbon products. R. Lepreatre. 2,319,508; May 18.
Apparatus for refining used crankcase oil. W. D. Harris. 2,319,598; May 18.
Apparatus for rolling metal strip. H. E. Emigh. 2,319,309; May 18.
Apparatus for saturating roofing felt. C. E. Wilkinson. 2,319,382; May 18.
Apparatus for slitting and cutting conductors. W. T. Barrans, P. M. Cole, D. O. Hannan, and D. C. Robson. 2,319,198; May 18.
Apparatus for the recovery of chemicals from black liquors. A. L. Hamm. 2,319,399; May 18.
Apparatus for the treatment of fabrics. L. Migliaccio. 2,319,699; May 18.
Apparatus for uniting parts of thermoplastic articles. V. E. Hofmann. 2,319,683; May 18.
Apparatus for vaporizing and applying liquids. C. W. Johnson. 2,319,459; May 18.
Apron guiding device for long draft mechanism. O. W. Schlums. 2,319,367; May 18.
Arm for mirrors, Support. O. C. Ritz-Woller. 2,319,557; May 18.
Arrangement for the measurement of electrical impedance. J. C. Quayle. 2,319,475; May 18.
Article of furniture. S. D. Brownlee and J. G. Macdonald. 2,319,581; May 18.
Article support. O. S. Osborne. 2,319,747; May 18.
Articles, Making Metal. H. Tormyn. 2,319,373; May 18.
Autogovernor. G. A. Robbins. 2,319,264; May 18.
Automatic hose coupling. P. C. Key. 2,319,329; May 18.
Automatic starting gate. M. E. Macksoud. 2,319,420; May 18.
Automatic steering. G. M. Rassweiler and R. N. Frawley. 2,319,435; May 18.
Automobile tow bar. W. G. Schneider and C. Armantrout. 2,319,521; May 18.
Auxiliary devices for internal combustion engines, Arrangement of. A. Friedrich and O. Goppel. 2,319,314; May 18.
Auxiliary governor control. E. Martin. 2,319,552; May 18.
Azo dye compounds. J. B. Dickey and W. H. Strain. 2,319,217; May 18.
Bait, Artificial. M. P. Janisch. 2,319,686; May 18.
Bait-holding attachment for fishhooks. T. O. Martin. 2,319,246; May 18.
Ball, Tank. J. J. O'Hare. 2,319,256; May 18.
Bandage apparatus. W. W. Simpson. 2,319,639; May 18.
Bar: *See*—
Adjustable boring bar. Automobile tow bar.
Base and socket. N. R. Smith. 2,319,564; May 18.
Basket, Burner. R. E. Pinniger. 2,319,628; May 18.
Bath tub protector. R. E. Henry. 2,319,603; May 18.
Bed, Sofa. W. O. McDaniel. 2,319,337; May 18.
Bituminelike materials from coal, Producing. A. Jenkner. 2,319,326; May 18.
Blade, Shredder. T. H. Poese. 2,319,629; May 18.
Block: *See*—
Building block.
Blower, Soot. D. L. E. Hibner and F. C. Arey. 2,319,682; May 18.
Body and fender pickup tool. W. E. Rybak. 2,319,478; May 18.
Book, Message. A. J. Kennedy, Sr. 2,319,506; May 18.
Booklet, Display. C. Bedell. 2,319,200; May 18
Boot. W. G. Laird. 2,319,239. May 18.
Bore hole pump. I. S. Salnikov. 2,319,749; May 18.
Boring machine, Earth. A. J. Parrish. 2,319,512; May 18.
Box: *See*—
Folding box. Mold box.
Bracket: *See*—
Curtain and shade bracket.
Braid securing method and means. D. W. Fentress and S. J. Hughes. 2,319,220; May 18.
Brake. A. C. Chambers. 2,319,583; May 18.
Brake beam head. H. T. Welp. 2,319,484; May 18.
Brake for vehicles, Emergency. D. J. Cieri. 2,319,297; May 18.
Breather for fluid-actuated machinery. D. Johnston. 2,319,460; May 18.
Brick. M. Branham. 2,319,203; May 18.
Building block. E. T. Putnam. 2,319,345; May 18.
Bulk treating machine, Automatic. J. V. Davis. 2,319,391; May 18.
Bullet. S. St. P. Meek. 2,319,248; May 18.
Burner: *See*—
Oil burner.
Butter mold. J. M. Charlton. 2,319,594; May 18.
Cabinet for portable radio receiver sets. M. Zavattaro. 2,319,527; May 18.
Calender rack. F. M. Morton. 2,319,553; May 18.
Camera, Photographic. H. Nerwin. 2,319,341; May 18.
Carbide connection and making the same, Siliconized silicon. A. H. Heyroth. 2,319,323; May 18.
Carton. R. W. Speir, Jr. 2,319,641; May 18.
Case for shoes and the like, Flexible. J. Franklin. 2,319,497; May 18.
Casket flower holder. W. Livingston. 2,319,243; May 18.
Catalytic conversion reactions. P. Mather. 2,319,620; May 18.
Catalytic cracking of hydrocarbon oils. DuB. Eastman and C. Richker. 2,319,590; May 18.
Catalytic cracking process. R. K. Stratford and R. H. Smith. 2,319,710; May 18.
Catalytic surfaces, Activating. M. H. Gwynn. 2,319,453; May 18.
Cathode, Incandescent. J. G. W. Mulder. 2,319,338; May 18.
Cathode ray tube and process. S. J. Koch and R. E. Rutherford. 2,319,691; May 18.
Cellulose films, staple fibers, and artificial silk, Continuously forming. J. C. de Nooij and E. Bleibler. 2,319,305; May 18.
Cementing oil wells and the like. J. D. Chesnut. 2,319,720; May 18.
Centrifugal pump. L. B. Harrington. 2,319,230; May 18.
Centrifugal separator. S. H. B. Zachariassen. 2,319,653; May 18.
Chain conveyer. G. Manierre. 2,319,617; May 18.
Chair structure. W. M. Hanson. 2,319,597; May 18.
Charging cover. A. O. Codney. 2,319,533; May 18.
Check for picker sticks. J. W. Jones. 2,319,689; May 18.
Chemical composition. A. G. Pincus. 2,319,260; May 18.

Chemical manufacture. J. D. MacMahon. 2,319,697; May 18.
Chlorinated hydrocarbons, Stabilizing. A. L. Pitman. 2,319,261; May 18.
Cigar bunch cutting mechanism. L. Ferencl. 2,319,221; May 18.
Cigarette making machine. W. Leathers. 2,319,611; May 18.
Cinematographic fading device. J. Bolsey. 2,319,204; May 18.
Circuit: *See*—
Welding circuit.
Circuit arrangement. G. Hepp. 2,319,320; May 18.
Circuit breaker. F. J. Pokorny. 2,319,262; May 18.
Circuit breaker operating system. C. Thumin. 2,319,645; May 18
Circuit breaker system, Reclosing. W. K. Rankin. 2,319,632; May 18.
Circuit interrupting apparatus. H. A. Triplett. 2,319,276–7; May 18.
Circuits, Volume control. J. F. Crowley. 2,319,663; May 18.
Clamp: *See*—
Scaffold clamp.
Clamp. F. J. Hendley. 2,319,602; May 18.
Clamping ring assembly. W. Bruning, and L. D. Simonson. 2,319,762; May 18.
Clamping tool. F. C. Wallace and H. H. Helbush. 2,319,377; May 18.
Cleaning tool. A. B. Storey. 2,319,355; May 18.
Closing and clamping device. M. Gerendás. 2,319,316; May 18.
Closure. J. W. Conway. 2,319,661; May 18.
Closure. G. Monnett. 2,319,252; May 18.
Closure. M. L. Rathbun. 2,319,346; May 18.
Clutch mechanism. E. V. Rippingille. 2,319,366; May 18.
Coal, Beneficiation of low grade. S. E. Erickson. 2,319,394; May 18.
Coating composition. F. W. Corkery and S. G. Burroughs. 2,319,389; May 18.
Coating machine. D. Ray. 2,319,476; May 18.
Coating of surfaces with liquids by spraying. F. F. Schwartz and M. A. Chavannes. 2,319,353; May 18.
Collapsible carry home container. W. J. Wells. 2,319,380; May 18.
Collars and the like, Manufacture of. S. L. Cluett and G. A. Schreiner. 2,319,211; May 18.
Color photography. V. B. Sease and J. R. Weber. 2,319,369; May 18.
Commutator. A. C. Korte. 2,319,692; May 18.
Compass bowl. E. F. Britten. 2,319,529; May 18.
Composition containing wood oil or oiticica oil. W. Krumbhaar. 2,319,507; May 18.
Composition for treating plastic materials. A. B. Clark. 2,319,660; May 18.
Compressor, Air. J. W. Brooks. 2,319,718; May 18.
Contact. C. Peterson. 2,319,259; May 18.
Contact strip annealing furnace. R. W. Cook. 2,319,300; May 18.
Contact strip annealing furnace. R. W. Cook. 2,319,301–2; May 18.
Container: *See*—
Collapsible carry home container. Liquid dispensing container.
Container and parts therefor. P. Zalkind. 2,319,283; May 18.
Containers, Sealing. J. M. Hothersall. 2,319,234; May 18.
Continuous service expansion joint. R. Hall. 2,319,543; May 18.
Control apparatus. A. W. Plensler. 2,319,472; May 18.
Control device. G. R. Ericson. 2,319,773; May 18.
Control means for X-ray tubes. K. Hefel. 2,319,322; May 18.
Control system for fuel burners, Automatic. J. M. Wilson. 2,319,360; May 18.
Controller. Pump starting. K. R. Lung. 2,319,509; May 18.
Controlling device, Universal air volume. A. Penn and R. E. Shaw. 2,319,554; May 18.
Controlling kerr-cells. C. Becker. 2,319,289; May 18.
Convertible table. J. Geissler. 2,319,499; May 18.
Conveyer. M. E. Widell. 2,319,280; May 18.
Conveyer. W. P. Winters. 2,319,281; May 18.
Cooking unit, Food. W. R. Scharsch. 2,319,561; May 18.
Cooling plate for blast furnace in walls and mantles. J. L. Wick, Jr., and L. M. Nesselbush. 2,319,571; May 18.
Copper-nickel-molybdenum steel article and making the same, Heat treated. J. Mitchell. 2,319,250; May 18.
Cord holder. E. E. Garrett. 2,319,731; May 18.
Coupling: *See*—
Automatic hose coupling
Cover: *See*—
Charging cover.
Cover for glass fixture holders. W. McLaughlin. 2,319,621; May 18.
Cover for large books. M. R. and C. E. Hultman. 2,319,605; May 18.
Crusher. A. H. Beisner. 2,319,290; May 18.
Crusher and loosener, Highway ice. M. Rypkema. 2,319,520; May 18.
Curler, Hair. A. Caldora. 2,319,658; May 18.
Current distributing means for electrolytic processes. R. C. Olsen. 2,319,624; May 18.
Curtain and shade bracket. W. L. Barndollar. 2,319,715; May 18.
Cushion. M. S. Karpen. 2,319,690; May 18.
Cushion and mattress structure, Inner spring. D. T. Owen. 2,319,431; May 18.
Damper for furnaces and the like. R. E. Young. 2,319,652; May 18.
Dead-end tool. J. W. Conrad. 2,319,587; May 18.
Deflecting tool. J. D. Isaacks and R. Jones. 2,319,236; May 18.
Dehydrating apparatus. H. C. French. 2,319,673; May 18.
Dehydroabietic acid derivatives. E. R. Littmann. 2,319,696; May 18.
Deodorized sulphur-bearing composition. C. F. Prutton and H. E. Johnson. 2,319,630; May 18.
Desulphurizing apparatus. R. P. Heuer. 2,319,402; May 18.
Determining manganese in the presence of iron. W. D. Brown. 2,319,580; May 18.
Device for remote control. G. Wünsch and A. Krüssmann. 2,319,363; May 18.
Dewaxing, Continuous. H. P. Wickham and G. White, Jr. 2,319,381; May 18.
Dextrose, Making. J. F. Walsh and J. Dudicker. 2,319,648; May 18.
Dial, Adjustable micrometer. R. E. Saving and E. Guetzkow. 2,319,480; May 18.
Diaphragm control device for motion and still picture cameras. M. A. Dalotel. 2,319,304; May 18.
Dispenser: *See*—
Soap dispenser. Toothpick dispenser.
Display board construction. L. F. Urbain. 2,319,278; May 18.
Display device, Bottle. M. C. Meyer. 2,319,249; May 18.
Display system. M. Arendt. 2,319,287; May 18.
Distillation process. J. R. Schonberg and J. B. Maxwell. 2,319,750; May 18.
Door lock. W. R. Schlage. 2,319,268; May 18.
Door opening and closing device. G. Madland. 2,319,510; May 18.
Door operating mechanism. F. Lichtfeldt. 2,319,612; May 18.
Drawer and door mechanism, Oven. G. D. Wilkinson and N. Sheppel. 2,319,651; May 18.
Drier: *See*—
Rotary drier.
Drilling mud. E. E. Post and C. F. Bonnet. 2,319,705; May 18.
Drilling mud, Aqueous. H. S. Ten Eyck and C. A. Fulton. 2,319,395; May 18.
Dyestuffs, Azo. S. S. Rossander, C. E. Sparks, and C. W. Maynard, Jr. 2,319,265; May 18.
Dyestuffs, New vat. W. Burneleit. 2,319,719; May 18.
Dynamo-electric machine. T. M. Linville. 2,319,614; May 18.
Earth mover. E. W. Austin. 2,319,486; May 18.
Electric brake control system. W. F. Penrose. 2,319,258; May 18.
Electric contact and the like. E. I. Larsen and E. F. Swazy. 2,319,240; May 18.
Electric contact member. J. E. Lake. 2,319,610; May 18.
Electric light control apparatus for vehicles, Automatic. S. W. Dusdieker. 2,319,494; May 18.
Electric water heater. H. A. Rush. 2,319,266; May 18.
Electric water heater. H. A. Rush. 2,319,477; May 18.
Electrical contacting device. F. C. Spahn, Jr. 2,319,754; May 18.
Electrical control apparatus. E. N. Lightfoot. 2,319,415; May 18.
Electrical heating conductor and producing same. P. Ziegs. 2,319,364; May 18.
Electrical outlet. G. H. Von Gehr. 2,319,375; May 18.
Electrical signaling system. P. N. Roseby and J. F. Mackenzie. 2,319,633; May 18.
Electrical source and circuit, Safety high potential. E. G. Gage. 2,319,594; May 18.
Electrically operated toothbrush. F. Buck. 2,319,205; May 18.
Electrodeposited layers, Separating. A. W. Grant. 2,319,596; May 18.
Electrolytic recording. P. Talmey. 2,319,765; May 18.
Electromagnetic induction apparatus. A. F. Mittermaier. 2,319,775; May 18.
Engine starter. B. W. Jones. 2,319,688; May 18.
Engine starting device. J. Good. 2,319,595; May 18.
Engine starting mechanism. R. M. Nardone. 2,319,469; May 18.
Esters, Peroxidized. M. C. Agens. 2,319,576; May 18.
Evaporative cooler. R. S. Stratton. 2,319,565; May 18.
Extension drawer slide, Progressive. O. D. Premo. 2,319,555; May 18.
Extensor, Multiplex. L. M. Potts. 2,319,263; May 18.
Fabrics, Producing double-sided plated knit. M. Nebel. 2,319,340; May 18.
Fastening device. D. A. Brennan. 2,319,438; May 18.
Fastening device. C. T. Holman. 2,319,504; May 18.
Feed for machine tools, Star. W. R. Miller. 2,319,701; May 18.
Feed mechanism for railway sewing machines. C. E. Smith and F. D. Lockman. 2,319,370; May 18.

Felted material, Manufacturing mineral wool. D. C. Drill. 2,319,666; May 18.
Fence charging device. C. Gallot and A. Alpaugh. 2,319,449; May 18.
Film feed, Intermittent. O. W. Githens, G. Kende and E. M. Porter. 2,319,318; May 18.
Filter: *See*—
Oil filter.
Fire starter. F. R. Coker. 2,319,721; May 18.
Fitting for flexible hose, End. E. C. S. Clench. 2,319,586; May 18.
Fixture, Lighting. E. F. Guth. 2,319,732; May 18.
Floor, Bridge. H. Nagin and L. C. Strickland. 2,319,468; May 18.
Fluid motor. M. Kraut. 2,319,608; May 18.
Fluid pressure device. C. M. Kendrick. 2,319,238; May 18.
Fluorescent device. W. B. Ferris. 2,319,222; May 18.
Fluorescent lamp. A. Jarmolowsky. 2,319,736; May 18.
Fluoroscope, Daylight. E. E. Williams. 2,319,712; May 18.
Folding box. W. E. Stonecypher. 2,319,371; May 18.
Food service truck. C. M. Drinkwater. 2,319,589; May 18.
Foot arch support. D. Lewy. 2,319,550; May 18.
Form, Shoe. B. E. Walstrom. 2,319,650; May 18.
Fractionating apparatus. J. O. Reed. 2,319,365; May 18.
Friction rings, Making. R. Lapsley and D. S. Dence. 2,319,740; May 18.
Fuel burner construction. S. C. Shipley, B. Cyr and F. S. Denison. 2,319,351; May 18.
Fuel of low sulphur content, Production of motor. C. C. Sperling. 2,319,354; May 18.
Fuel mixture cooling and expansion retarding pressure feeder. F. A. Smith and A. Sabo. 2,319,752; May 18.
Fuel pump. L. B. Harrington. 2,319,229; May 18.
Fuel pump. F. R. Sunderman and J. McAuley. 2,319,566; May 18.
Furnace: *See*—
Contact strip annealing furnace.
Garment. H. R. Boggs. 2,319,292; May 18.
Gas flow indicator. C. H. Phelps. 2,319,516; May 18.
Gaseous tube sign. S. Gould and C. V. Baker. 2,319,450; May 18.
Gate: *See*—
Automatic starting gate.
Gear shifting means. L. A. Bixby. 2,319,716; May 18.
Geochemical prospecting. L. Horvitz. 2,319,734; May 18.
Governor structure. H. G. Adler. 2,319,654; May 18.
Greases, Manufacture of. M. H. Ittner. 2,319,405; May 18.
Grinder. A. L. Evans. 2,319,311; May 18.
Grinder, Internal keyway. G. B. Carroll. 2,319,582; May 18.
Ground working device. R. A. Norton. 2,319,255; May 18.
Guard, Propeller. B. A. Sink. 2,319,640; May 18.
Guard, Splash. H. R. Davis and J. B. Foley. 2,319,664; May 18.
Guide for fishing poles, Line. E. H. Kruse. 2,319,462; May 18.
Gun rifling machine. W. F. Groene and W. R. Meyer. 2,319,451; May 18.
Hamper, Clothes. T. J. Callan and V. L. Erickson. 2,319,384; May 18.
Hardware. H. W. Neunherz. 2,319,254; May 18.
Harvester platform mounting. R. L. Anderson. 2,319,714; May 18.
Harvesting apparatus, Beet. L. P. Savage. 2,319,559; May 18.
Head, Angle. M. J. McCombs. 2,319,465; May 18.
Heat treatment of copper-chromium alloy steels. W. P. Digby. 2,319,538; May 18.
Heater: *See*—
Electric water heater.
Heater structure. L. W. Welch. 2,319,379; May 18.
Heating. R. J. Parsons. 2,319,704; May 18.
Heating and ventilating. A. A. Olson. 2,319,703; May 18.
Heating device. W. L. Mayne. 2,319,698; May 18.
Heating device. F. K. Van Almelo. 2,319,711; May 18.
Heating system. R. J. Garvey. 2,319,315; May 18.
Heel concaving machine. G. Clausing. 2,319,298; May 18.
Heel construction, Full fashioned. J. E. Garrett. 2,319,224; May 18.
Hitch device. C. G. Strandlund. 2,319,755; May 18.
Holder: *See*—
Casket flower holder.
Cord holder.
Shaper tool holder.
Variable air-gap crystal holder.
Hosiery. M. A. Bard and E. A. Tarshis. 2,319,577; May 18.
Hosiery and manufacturing the same. J. L. Beers. 2,319,772; May 18.
Hydraulic circular press. D. Gup. 2,319,677; May 18.
Hydraulic operating and control mechanism for machine tools. C. F. Linden and R. H. McClellan. 2,319,551; May 18.
Hydraulic press. J. Q. Holmes and C. E. Gordon. 2,319,232; May 18.
Hydraulic vibration and shock absorber. C. Hussman. 2,319,735; May 18.
Hydrocarbon oils, Conversion of. C. H. Angell. 2,319,201; May 18.
Hydrocarbons, Catalytic treatment of. W. L. Benedict. 2,319,199; May 18.
Hydrocarbons, Conversion of. D. R. Carmody. 2,319,209; May 18.
Hydrocarbons, Separation of. R. Lee and H. K. Holm. 2,319,694; May 18.
Hydrocarbons, Treatment of. G. Egloff. 2,319,495; May 18.
Hydrocarbons, Treatment of cyclic. A. V. Grosse and W. J. Mattox. 2,319,452; May 18.
Hydrogenated polycyclopentadiene resin. F. J. Soday. 2,319,271; May 18.
Hydroxylamine hydrochloride, Preparing. P. J. Ehman and W. O. Walker. 2,319,669; May 18.
Hygroscopic salt solution containing an aryl guanidine inhibitor. A. M. Edmunds. 2,319,668; May 18.
Ignition header construction. W. J. Knochel and D. E. Marshall. 2,319,407; May 18.
Implement, Tractor attached. F. L. Dewey. 2,319,492; May 18.
Indicator: *See*—
Gas flow indicator.
Stage indicator.
Transformer load indicator.
Indicator for dispensing pumps, Remote. M. A. Crosby. 2,319,444; May 18.
Internal combustion motor. J. M. Morgan. 2,319,427; May 18.
Ironing machine, Portable. T. J. Litle, Jr. 2,319,416; May 18.
Ironing table. H. B. Fay. 2,319,397; May 18.
Joint: *See*—
Continuous service expansion joint.
Kiln. H. Kronstad. 2,319,548; May 18.
Knife. J. D. Kevorkian and J. R. Wolfson. 2,319,607; May 18.
Knitted fabrics, Preventing curling of the edges of. A. Eddy. 2,319,307; May 18.
Knitting. J. L. Beers. 2,319,768; May 18.
Laminated glass and making the same. J. C. Crowley. 2,319,534; May 18.
Lamp: *See*—
Fluorescent lamp.
Lather machine, Automatic. P. Lo Cascio, I. Kaufman, and P. Coviello. 2,319,244; May 18.
Lens board lock for cameras. W. W. Heckethorn. 2,319,681; May 18.
Lens grinding and polishing machine. E. M. Long. 2,319,417; May 18.
Lighter, Cigar. A. A. Johnson. 2,319,687; May 18.
Linkage mounting for aerodynamic members. E. F. Zap. 2,319,383; May 18.
Liquid dispensing apparatus. A. O. Codney and R. M. Bailey. 2,319,532; May 18.
Liquid dispensing apparatus. C. J. Kessler. 2,319,739; May 18.
Liquid dispensing container. S. S. Rand. 2,319,517; May 18.
Liquids or semi-liquids, Treating imperfectly combustible. W. Ferguson. 2,319,591; May 18.
Load transfer unit for paving joint structures. R. G. Williams. 2,319,713; May 18.
Loader and unloader, Truck. D. B. Dreese. 2,319,588; May 18.
Loading patch for stress-testing aircraft. H. W. Grinter. 2,319,675; May 18.
Loads, Measuring. F. J. Converse. 2,319,299; May 18.
Lock: *See*—
Door lock.
Lock. T. F. Smith and L. A. Lockhart. 2,319,753; May 18.
Locking and adjusting means for window sashes. A. E. Waterman. 2,319,525; May 18.
Louvers for lighting fixtures. E. B. Wilson. 2,319,572; May 18.
Lubricant for solid dies. S. Epstein and J. R. Kreiser. 2,319,393; May 18.
Machine for applying pressure to soles and shoes. F. E. Stratton. 2,319,274; May 18.
Machine for cooling coated containers. J. F. Price. 2,319,474; May 18.
Machine for rifling guns. V. Bush. 2,319,206; May 18.
Magazine, Film. J. Bolsey. 2,319,530; May 18.
Magnet chuck, Permanent. F. L. Simmons. 2,319,270; May 18.
Magnetic dial. G. A. Head. 2,319,321; May 18.
Manufacture of collars and the like. S. L. Cluett and G. A. Schreiner. 2,319,210–11; May 18.
Marker, Skirt. W. H. Collins. 2,319,722; May 18.
Material handling device. A. G. Hazen. 2,319,456; May 18.
Material loading apparatus. R. C. Osgood. 2,319,257; May 18.
Mechanical actuator system. W. P. Lear. 2,319,463; May 18.

Mechanical movement. F. Alabrune. 2,319,485; May 18.
Metal, Method of and apparatus for welding. E. S. Hebeler. 2,319,401; May 18.
Metallic structure, Resistance welded. G. W. Hardman and M. Watter. 2,319,455; May 18.
Meter construction. H. Panissidi. 2,319,432; May 18.
Meter reading apparatus, Automatic. W. Leathers. 2,319,412; May 18.
Method and apparatus for geoelectrical exploration. S. J. G. Pirson. 2,319,764; May 18.
Method and apparatus for producing oil wells. C. A. Moon. 2,319,702; May 18.
Method and means for measuring profiles and contours. D. C. White. 2,319,569; May 18.
Method of and apparatus for producing tapped resistors. W. Leathers and J. Haddad. 2,319,413; May 18.
Method of and apparatus for verifying perforated records. W. Leathers, J. Haddad, and W. J. A. Bailey. 2,319,414; May 18.
Method of and machine for knitting heel fabrics in single unit stocking blanks. J. L. Beers. 2,319,769; May 18.
Milk products, Production of solid. O. J. Wouters. 2,319,362; May 18.
Mining machine. J. R. Cartlidge and A. O. Bruestle. 2,319,387; May 18.
Mirror. P. Napoli. 2,319,745; May 18.
Mitt, Gripping. W. Dantolan. 2,319,390; May 18.
Mixer and cooler, Beverage. W. A. Nelson and E. K. Nelson. 2,319,429; May 18.
Mixing device for mixing hot and cold liquids. J. K. Lund. 2,319,418; May 18.
Mixing feeds with molasses. T. W. Black. 2,319,579; May 18.
Modulation system. G. L. Davies. 2,319,535; May 18.
Mold: *See*—
Butter mold.
Self-locking plastic injection mold.
Tire mold.
Mold box. J. H. Besser. 2,319,291; May 18.
Molding apparatus. S. Flam. 2,319,313; May 18.
Molding, Bead. O. J. Crowe. 2,319,445; May 18.
Molding, Drip. O. J. Crowe and W. J. Hall. 2,319,723; May 18.
Molding retainer. W. J. Hall. 2,319,678; May 18.
Motor: *See*—
Fluid motor.
Internal combustion motor.
Motor control, Split-phase. H. F. Clark. 2,319,490; May 18.
Motor system, Variable speed. J. K. Ostrander. 2,319,625; May 18.
Motor vehicle. W. R. Griswold and J. H. O'Brien. 2,319,226; May 18.
Mounting: *See*—
Harvester platform mounting.
Mower, Lawn. H. Meitzner. 2,319,425; May 18.
Mower, Lawn. F. J. Vondracek. 2,319,483; May 18.
Multiple hitch device. W. H. Silver. 2,319,751; May 18.
Multiple slip ring. A. Corte. 2,319,443; May 18.
Multiposition switch. M. L. Glogau. 2,319,503; May 18.
Nailing machine. A. E. Richards and M. Roberts. 2,319,345; May 18.
Needle, Punch. G. A. Carlson. 2,319,442; May 18.
Nozzle, Spray. T. W. Murphy. 2,319,767; May 18.
Nut-cracking apparatus. E. N. Vigneau. 2,319,757; May 18.
Oil burner. R. D. Schoenwetter. 2,319,636; May 18.
Oil burner. G. C. Smith and J. E. Carlberg. 2,319,708; May 18.
Oil filter. A. D. MacLaren. 2,319,421; May 18.
Oils, Lubricating. E. W. Cook and W. D. Thomas, Jr. 2,319,662; May 18.
Opacifier and porcelain enamel containing the same. G. H. McIntyre and M. J. Bahnsen. 2,319,247; May 18.
o-Phenoxy-phenyl-benzoate, Production of. P. W. Bachman and B. W. Hammaren. 2,319,197; May 18.
Optical system. F. E. Carlson. 2,319,489; May 18.
Outlet structure for tanks. V. Willoughby. 2,319,759; May 18.
Quick action pipe wrench. G. P. Vautrot. 2,319,647; May 18.
Package, Composite. L. L. Salfisberg. 2,319,560; May 18.
Package, Physician's. E. J. Rhein. 2,319,556; May 18.
Package, Soda straw. G. O. Frostad. 2,319,448; May 18.
Packaging apparatus. L. E. Davies. 2,319,213; May 18.
Patching material for rubber goods. D. T. Starr. 2,319,272; May 18.
Pencil. I. Chesler. 2,319,585; May 18.
Petroleum distillates, Manufacture of low boiling. H. W. Grote. 2,319,500; May 18.
Phonographic pickup device. B. F. Miessner. 2,319,622; May 18.
Photoelectric control device. W. L. Cooley. 2,319,212; May 18.
Photographic apparatus. B. Gold. 2,319,398; May 18.
Photographic composition containing unsymmetrical diacylacet-polyamino-arylides and color development processes. E. B. Middleton and A. P. Jennings. 2,319,426; May 18.
Photographic sensitizing dyestuffs, Production of. J. D. Kendall and R. B. Collins. 2,319,547; May 18.
Piloting system for aircraft. F. Amiot. 2,319,285; May 18.
Pipe: *See*—
Pleasant puff overdraft pipe.
Pipe joint or coupling. C. R. Rau. 2,319,518; May 18.
Piston ring. D. W. Hamm. 2,319,454; May 18.
Planter. T. W. Johnson. 2,319,737; May 18.
Planting and fertilizing means. C. H. White. 2,319,758; May 18.
Plastic molding apparatus. A. A. Burry. 2,319,439; May 18.
Pleasant puff overdraft pipe. J. B. Swan. 2,319,756; May 18.
Plow, Direct coupled. G. R. Ego. 2,319,670; May 18.
Pneumatic tire machine. F. S. Sternad and J. P. Sapp. 2,319,643; May 18.
Post card, Transfer picture. A. Braunstein. 2,319,293; May 18.
Power booster. J. G. Hawley. 2,319,231; May 18.
Power transmission. E. H. Priebe. 2,319,515; May 18.
Power transmission, Fluid-drive. W. Reit. 2,319,706; May 18.
Press: *See*—
Hydraulic press.
Hydraulic circular press.
Pressure indicating apparatus. C. S. Draper, J. H. Lancor, Jr. and Y. T. Li. 2,319,219; May 18.
Pressure regulating and relief valve, Combined. H. W. Carnes. 2,319,659; May 18.
Prints obtained by photographic bleaching, Process for stabilizing. A. Polgar and C. Halmos. 2,319,344; May 18.
Protecting device, Safe or vault. H. H. Podjus. 2,319,473; May 18.
Projection apparatus. C. W. Zwirn. 2,319,284; May 18.
Protector: *See*—
Bath tub protector.
Protector for hair nets, Ear. E. Berg. 2,319,656; May 18.
Pump: *See*—
Bore hole pump.
Centrifugal pump.
Fuel pump.
Vacuum pressure pump.
Pump. G. H. Garraway. 2,319,730; May 18.
Pump and motor, Balanced. G. A. Ungar. 2,319,374; May 18.
Pump structure. J. J. Hennessy. 2,319,604; May 18.
Punch press tool. P. G. Cox, J. T. Black, and G. C. Fricke. 2,319,766; May 18.
Punching device. G. F. Wales. 2,319,568; May 18.
Rack: *See*—
Calender rack.
Railway brake beam. E. G. Busse. 2,319,440; May 18.
Railway car structure. K. F. Nystrom. 2,319,471; May 18.
Railway truck. K. F. Nystrom, E. S. Beckette and V. L. Green. 2,319,623; May 18.
Rayon manufacture. A. F. F. Mothwurf. 2,319,428; May 18.
Razor and sharpening device, Combined. R. L. Burchett. 2,319,488; May 18.
Razor blade receptacle. I. S. Bodkin. 2,319,761; May 18.
Razor, Safety. D. C. Wiseley. 2,319,361; May 18.
Reactor. A. F. Mittermaier. 2,319,251; May 18.
Reader's aid and bookmark. A. J. Baillie. 2,319,436; May 18.
Receiver, Dustless ash. C. M. Drinkwater. 2,319,725; May 18.
Receptacle: *See*—
Razor blade receptacle.
Reclining seat. W. E. Morey and R. G. Nichols. 2,319,743; May 18.
Recording device, Telephone conversation. M. W. Dobrzensky. 2,319,665; May 18.
Reed. S. J. Lucas. 2,319,419; May 18.
Refining mineral oils. M. C. K. Jones. 2,319,738; May 18.
Refining used crank case oils. W. D. Harris. 2,319,599; May 18.
Reflecting device, Retrodirective. R. W. Luce. 2,319,742; May 18.
Re-forming machine. J. M. Hothersall. 2,319,235; May 18.
Refrigerating apparatus. F. W. Gerard. 2,319,498; May 18.
Refrigerating apparatus. E. F. Schweller. 2,319,522; May 18.
Refrigerating apparatus. C. S Trigg. 2,319,523; May 18.
Refrigerating apparatus and method. R. E. Gould. 2,319,502; May 18.
Refrigeration. W. T. Hedlund. 2,319,601; May 18.
Refrigeration apparatus. T. S. Safford. 2,319,349; May 18.

Refrigeration system. H. D. Euwer. 2,319,310; May 18.
Refrigerator shelf. W. H. Nobles. 2,319,470; May 18.
Refrigerator structure. D. E. Heath. 2,319,600; May 18.
Register, Cash. M. Janhunen, E. A. Oivukka and I. P. A. Vienola. 2,319,325; May 18.
Register operating mechanism. W. Leathers. 2,319,411; May 18.
Regulating mechanism for valves. G. W. McCullough. 2,319,336; May 18.
Resin-bearing article, Individual multi-layer fibrous. E. E. Sawyer. 2,319,267; May 18.
Resinous composition. M. C. Agens. 2,319,575; May 18.
Resins, Making phenolated. W. H. Carmody and H. E. Kelly. 2,319,386; May 18.
Resins, Manufacture of cation-exchanging artificial. H. Wassenegger. 2,319,359; May 18.
Resolution of racemic α-hydroxy-β,β-dimethyl-γ-butro lactone, and new compounds obtained by such resolution. S. A. Harris and K. Folkers. 2,319,545; May 18.
Retractable formation sealing tool. W. W. Drinkard. 2,319,493; May 18.
Retractable undercarriage for aircraft. G. H. Dowty. 2,319,446; May 18.
Ring: *See*—
  Multiple slip ring. Piston ring.
Rivet. F. C. Wallace. 2,319,376; May 18.
Riveting machine. A. D. Rhodes. 2,319,748; May 18.
Road joint support. F. O. Parker. 2,319,513; May 18.
Rod: *See*—
  Welding rod.
Roller for printing presses, Inking. H. J. Luehrs. 2,319,615–6; May 18.
Roofing surface. J. H. Hardy. 2,319,227; May 18.
Rotary drier. H. C. French and H. L. Schmidt. 2,319,674; May 18.
Rotary valve. C. W. Hall. 2,319,733; May 18.
Rotating assembly. P. Martinotti. 2,319,335; May 18.
Rubber, Softener for synthetic. D. E. Sauser. 2,319,634; May 18.
Safety control for gaseous fuel burners. W. F. Jackson and T. H. Jeffers. 2,319,685; May 18.
Safety device, Car truck. G. McCormick. 2,319,466; May 18.
Safety shutoff system. S. S. Guelson. 2,319,676; May 18.
Salt solution, Inhibited hygroscopic. A. M. Edmunds. 2,319,667; May 18.
Saw grinding machine. J. B. Biasotti. 2,319,437; May 18.
Scaffold clamp. W. G. Mann. 2,319,618; May 18.
Scale recording, weighing. L. Poillevey. 2,319,343; May 18.
Screed support. S. J. Wearn. 2,319,526; May 18.
Screen: *See*—
  Sun screen.
Seal construction. B. Dick. 2,319,392; May 18.
Seal mechanism, Reclining. H. Miller and J. Schlenther. 2,319,700; May 18.
Seal, Strap. C. M. MacChesney. 2,319,334; May 18.
Sealing apparatus. L. E. Davies. 2,319,214; May 18.
Seat: *See*—
  Reclining seat.
Seat and support therefor, School desk. W. J. Bargen. 2,319,202; May 18.
Self-locking plastic injection mold. C. D. Ryder. 2,319,479; May 18.
Separator: *See*—
  Centrifugal separator.
Service observing system. M. A. Logan and L. G. Schimpf. 2,319,333; May 18.
Shaft, Flexible. G. T. Latimer. 2,319,409; May 18.
Shaper tool holder. S. Strobl. 2,319,644; May 18.
Sheet arrangement for the stretching of surfaces. H. T. H. Andresen. 2,319,286; May 18.
Shielding for communication circuits. W. E. Mougey. 2,319,744; May 18.
Shoe and making the same. C. W. Baker. 2,319,288; May 18.
Shoe counter. M. F. Sullivan. 2,319,356; May 18.
Showcase, Store window. R. L. Phillips. 2,319,433; May 18.
Sign: *See*—
  Gaseous tube sign.
Signal controlled amplifier. Le R. C. Paslay. 2,319,626; May 18.
Signaling system. A. C. Dickieson. 2,319,306; May 18.
Signaling system. K. H. Müller and R. E. Ressler. 2,319,339; May 18.
Soap dispenser. C. W. Hoppe. 2,319,233; May 18.
Socket. E. R. Kulka. 2,319,693; May 18.
Socket and tube holder, Fluorescent electric tube. J. W. Kelchner, Jr. 2,319,461; May 18.
Socket, Thermionic tube. H. H. Eby. 2,319,728; May 18.
Sodium ferricyanide with $2H_2O$. U. Liddel. 2,319,695; May 18.
Sole-rounding machine. C. G. Brostrom. 2,319,296; May 18.
Splint, Traction. R. Hartmann and G. R. Tifal. 2,319,400; May 18.
Splitting machine. C. E. Hood. 2,319,324; May 18.
Spotlight, Combination mercury mazda. C. W. Clarkson. 2,319,207; May 18.
Spring construction. F. J. Horton. 2,319,684; May 18.
Sprocket for feeding film. W. L. Woolf. 2,319,282; May 18.
Stabilizer system. L. L. Weisglass. 2,319,378; May 18.
Stable crystalline anhydrous alpha lactose product and process. P. F. Sharp. 2,319,562; May 18.
Stage indicator. E. E. Rosaire. 2,319,519; May 18.
Starch product and making. H. H. Schopmeyer and G. E. Felton. 2,319,637; May 18.
Starter, Engine. J. E. Buxton. 2,319,441; May 18.
Starting system and mechanism for gaseous discharge lamps. E. J. Leuthold. 2,319,241; May 18.
Steam control system for locomotive cylinders and steam chests. C. Stern. 2,319,642; May 18.
Steamer device, Dress. C. Pungor. 2,319,434; May 18.
Steel, Treating. W. A. Saylor. 2,319,635; May 18.
Stenographic machine. J. G. Sterling. 2,319,273; May 18.
Stiffening the uppers of shoes. L. A. Loakes and G. Pell, Sr. 2,319,332; May 18.
Stocking, Single unit full-fashioned. J. L. Beers. 2,319,771; May 18.
Stoker control. A. T. Rankin. 2,319,774; May 18.
Strain-relief structure, Making. J. Delmonte. 2,319,537; May 18.
Strap, Wrist watch. A. Schwalberg. 2,319,269; May 18.
Strip, Sealing. L. Spraragen. 2,319,709; May 18.
Suction cup structure. J. E. Duggan. 2,319,726–7; May 18.
Sun screen. J. J. Grebe and W. B. Ewing. 2,319,225; May 18.
Supervision system, Through. H. W. Ulrich. 2,319,358; May 18.
Support: *See*—
  Article support. Screed support.
  Foot arch support. Vacuum cleaner support.
  Road joint support.
Support for adjustable and releasable shelving. Shelf bracket. F. Kautz. 2,319,237; May 18.
Suspension system. M. Olley and G. F. Gibson. 2,319,430; May 18.
Sweeper, Carpet. F. W. Pullen. 2,319,631; May 18.
Switch: *See*—
  Multiposition switch.
Switch. L. E. Fisher. 2,319,593; May 18.
Synchronizer. O. E. Fishburn. 2,319,496; May 18.
Synchronizing control. G. F. Drake. 2,319,218; May 18.
Syrup, Making purified. J. F. Walsh. 2,319,649; May 18.
System and apparatus for sound reception. S. Perlman. 2,319,627; May 18.
Table: *See*—
  Convertible table. Ironing table.
Table. I. and A. Lichtstern. 2,319,613; May 18.
Table top, Ironing. H. B. Fay. 2,319,396; May 18.
Tank and making same. J. D. Baldwin, Jr. 2,319,487; May 18.
Tanks, Filling. A. Vegell. 2,319,567; May 18.
Tape, Flexible. J. Dinhofer. 2,319,724; May 18.
Telephone system. M. E. Maloney. 2,319,424; May 18.
Temperature control instrument. H. S. Jones. 2,319,406; May 18.
Temperature regulation, Method and apparatus for. M. Frisch. 2,319,223; May 18.
Temperature sensitive device. W. H. Gille. 2,319,317; May 18.
Tester, Hardness. C. W. Clark. 2,319,208; May 18.
Testing equipment. H. Z. Gora. 2,319,501; May 18.
Textile and like product. D. Finlayson. 2,319,312; May 18.
Therapeutic machine. F. E. Hall. 2,319,542; May 18.
Thermostat. B. E. Shaw. 2,319,563; May 18.
Thread cutting tool. S. J. Harley and J. E. Wainwright. 2,319,544; May 18.
Timing control system. G. E. Undy. 2,319,524; May 18.
Timing device for electric current. L. R. Calvert. 2,319,385; May 18.
Timing mechanism for the purpose of tripping circuit breakers or switches, Current differentiated. B. O. Watkins. 2,319,279; May 18.
Tire mold. J. E. Drennan. 2,319,447; May 18.
Token control mechanism. H. A. Gersbach. 2,319,541; May 18.
Tool: *See*—
  Body and fender pickup tool. Punch press tool.
  Clamping tool. Retractable formation sealing tool.
  Cleaning tool. Thread cutting tool.
  Dead-end tool. Wire cutting tool.
  Deflecting tool.
Tool. E. C. Neal. 2,319,253; May 18.
Tool carrier control mechanism. J. E. Lovely and N. R. Longe. 2,319,741; May 18.
Tooth for excavating apparatus. L. Massa. 2,319,464; May 18.
Toothpick dispenser. L. H. Whorton and R. L. Minshall. 2,319,570; May 18.
Topping machine. J. L. Beers. 2,319,770; May 18.
Torque transmitting device. L. A. Graham. 2,319,319; May 18.
Torpedo trap. E. Flood. 2,319,672; May 18.
Traction splint. A. H. La Crosse. 2,319,609; May 18.
Tractor drawn implement. M. M. Hornish. 2,319,458; May 18.
Train order device. E. T. Ford. 2,319,540; May 18.
Transformer load indicator. E. D. Treanor. 2,319,646; May 18.

Transmission. F. L. Lawrence. 2,319,549; May 18.
Transmission. P. Orr. 2,319,746; May 18.
Transmission control in two-way signal wave transmission systems. B. G. Bjornson. 2,319,717; May 18.
Transmission gearing, Hydromechanical. F. W. Cotterman. 2,319,388; May 18.
Transmitting and receiving system with electronic change-over device, Simultaneous. W. Hasenberg. 2,319,680; May 18.
Trap: *See*—
  Torpedo trap.
Tree mover. B. C. Deibel. 2,319,536; May 18.
Truck structure, Railway. W. C. Krautheim. 2,319,606; May 18.
Truss construction for overswinging doors or the like. H. J. Crawford. 2,319,303; May 18.
Tube. C. A. Tome. 2,319,275; May 18.
Tube expander. E. A. Dewald. 2,319,216; May 18.
Tubing, Coating. W. Brown. 2,319,657; May 18.
Umbrella and article carrying attachment. G. C. Ford. 2,319,729; May 18.
Utensil, Coffee brewing. O. E. Neshaim. 2,319,511; May 18.
Vacuum cleaner support. J. W. Sheker. 2,319,638; May 18.
Vacuum pressure pump. L. B. Harrington. 2,319,228; May 18.
Valve: *See*—
  Pressure regulating and relief valve. Rotary valve.
Valve. H. L. Beekley, R. H. Gilbert, and R. H. Lacart. 2,319,578; May 18.
Valve. E. A. Hoeh. 2,319,404; May 18.
Valve control. W. B. Reed. 2,319,347; May 18.
Valve for pumps, Discharge. A. P. Adney. 2,319,574; May 18.
Valve sleeves, Making. R. Insley and A. W. Green. 2,319,546; May 18.
Vaporizing machine. J. C. Smernis. 2,319,352; May 18.
Variable air-gap crystal holder. G. M. Thurston. 2,319,357; May 18.
Vehicle: *See*—
  Motor vehicle.
Vibrator, Sheet warp. R. R. Cone. 2,319,491; May 18.
Vulcanizing machine. R. G. Tilton. 2,319,372; May 18.
Wall structure. C. A. Hill. 2,319,403; May 18.
Wall unit for oil tank installation. J. E. Leary. 2,319,410; May 18.
Warmer, Food. H. J. Maihack. 2,319,422–3; May 18.
Welding circuit. S. M. Humphrey. 2,319,763; May 18.
Welding rod. L. C. Dodd. 2,319,539; May 18.
Welding system, Condenser. J. W. Dawson. 2,319,215; May 18.
Well packer. D. Brookshire. 2,319,295; May 18.
Wheel balancing apparatus. C. C. Bennett. 2,319,655; May 18.
Windmill. W. J. Fiedler. 2,319,592; May 18.
Window. E. H. Lunken and G. A. Just. 2,319,245; May 18.
Wiper parking device, Windshield. A. C. Korte and K. Lannert. 2,319,408; May 18.
Wire cutting tool. H. W. Romanoff. 2,319,558; May 18.
Wrench: *See*—
  Quick action pipe wrench.
Wringer, Washing machine. F. Breckenridge. 2,319,294; May 18.
X-ray tube and apparatus. E. Schiebold. 2,319,350; May 18.

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MAY 18, 1943

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CLASS 170

A.P.C. 209,675. Synchronizing propellers. Eduard Seppeler, Berlin-Neukolln, Germany. Published May 18, 1943.

A.P.C. 211,843. Power regulation for aircraft engines. Albert Stieglitz, Berlin-Spandau, Germany. Published May 18, 1943.

A.P.C. 233,270. Screw-propeller. Albert Rupp, Berlin-Sudende, Germany. Published May 18, 1943.

A.P.C. 281,826. Arrangement for controlling the power of internal combustion engines. Albert Stieglitz et al., Berlin-Spandau, Germany. Published May 18, 1943.

A. P. C. 297,931. Control devices for variable pitch propellers. Marcel Louis Mennesson, Neuilly-sur-Seine, France. Published May 18, 1943.

A.P.C. 299,879. Aircraft propellers. Pietro Martinotti, Paris, France. Published May 18, 1943.

A.P.C. 300,334. Arrangement for adjusting the blades of opposite rotating air propellers. Reinhold Freitag, Stuttgart-Untertuerkheim, Germany. Published May 18. 1943.

A.P.C. 301,295. Process for increasing the effective output of propellers, of aeromotors, etc. Max Rendelstein, Brussels, Belgium. Published May 18, 1943.

A.P.C. 302,870. Multiple motor driving mechanism for aircraft with adjustable propeller. Fritz Nallinger et al., Stuttgart, Germany. Published May 18, 1943.

A.P.C. 303,551. Driving mechanism for aircraft operating in high altitudes. Fritz Gosslau, Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 307,581. Multi-motor driving mechanism, particularly for air propellers. Fritz Nallinger, Stuttgart, Germany. Published May 18, 1943.

A.P.C. 313,982. Paddle-wheel with movable paddles. Franz August Suberkrub, Hamburg, Germany. Published May 18, 1943.

A.P.C. 316,437. Adjusting pitch of screws. Eduard Seppeler, Berlin-Buckow-Ost, Germany. Published May 18, 1943.

A.P.C. 330,322. Two, in opposite direction rotating, commonly driven air propellers. Fritz Nallinger, Stuttgart, Germany. Published May 18, 1943.

A.P.C. 337,743. Device for fastening the shank of a propeller blade. Edouard E. Lehwess, Paris, France. Published May 18, 1943.

A.P.C. 339,000. Aircraft engine controls. Fritz Gosslau et al., Berlin-Charlottenburg, Germany, Published May 18, 1943.

A.P.C. 345,132. Variable pitch air propeller. Ernst Florian et al., Berlin-Reinickendorf-Ost, Germany. Published May 18, 1943.

A.P.C. 355,401. Method for aerodynamically braking aircraft in flight. Gerhard Cordes, Dessau, Germany. Published May 18, 1943.

A.P.C. 362,279. Device for adjusting the pitch of air propellers. Robert Prause, Augsburg, Germany. Published May 18, 1943.

A.P.C. 362,280. Air propeller driving system. Robert Prause et al., Augsburg, Germany. Published May 18, 1943.

A.P.C. 363,192. Aircraft propulsion. Max Lorenzen, Dessau, Germany. Published May 18, 1943.

A.P.C. 367,128. Propellers with variable pitch. Nicola Bellomo, Bari, Italy. Published May 18, 1943.

A.P.C. 374,672. Driving arrangement, especially for air propellers rotating in opposite directions. Albert Friedrich, Stuttgart-Bad Cannstatt, Germany. Published May 18, 1943.

A.P.C. 385,563. Screw propeller pitch adjusting devices. Charles Raymond Waseige, Rueil Seine-et-Oise, France. Published May 18, 1943.

A.P.C. 388,128. Apparatus for controlling, with pitch indicator, the pitch variations of propellers, Rene Jean Ratie, Montrouge, France. Published May 18, 1943.

A.P.C. 394,324. Device for regulating internal combustion engines. Fritz Gosslau et al., Berlin-Charlottenburg, Germany. Published May 18, 1943.

CLASS 171

A.P.C. 206,693. Synchronism indicating apparatus. Aldo Righi, Bologna, Italy. Published May 18, 1943.

A.P.C. 239,432. Switching reactor. Floris Koppelmann et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 246,302. Voltage-regulating transformers. Helmut Bohm, Nurnberg, Germany. Published May 18, 1943.

A.P.C. 246,825. Voltage control. Gunter Wolf, Berlin, Germany. Published May 18, 1943.

A.P.C. 287,174. Electronic automatic regulator for low-voltage electric generators. Augusto Basili, Milano, Italy. Published May 18, 1943.

A.P.C. 299,393. Means for guiding magnetic fields. Fritz Bergtold, Munchen, Germany. Published May 18, 1943.

A.P.C. 309,226. Apparatus for measuring direct currents or voltages. Wilhelm Geyger, Berlin-Schmargendorf, Germany. Published May 18, 1943.

A.P.C. 315,543. Method of reducing hysteresis inaccuracy. Heinrich Toeller, Frankfurt-am-Main, Germany. Published May 18, 1943.

A.P.C. 319,355. Collectors for electric machines. Hans Zollner, Lauf-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 319,356. Commutator bars. Hans Zollner et al., Lauf-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 321,103. Remote reading electric indicator gauge. Lucien Alfred Maurice Corset, Paris, France. Published May 18, 1943.

A.P.C. 322,299. Piezo-electric device. Hans von Beckerath, Berlin, Germany. Published May 18, 1943.

A.P.C. 327,777. Electric circuit for motor vehicles. Rudolf Linder, Stuttgart-Degerloch, Germany. Published May 18, 1943.

A.P.C. 333,208. Method to determine the electrical axes of quartz crystals. Rudolf Bechmann et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 333,242. Resistance electric welding machines. Jacques Emile Jules Languepin, Paris, France. Published May 18, 1943.

A.P.C. 334,084. Electrical machine. Ottmar Conradty et al., Rothenbach-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 334,086. Carbon collectors. Hans Zollner et al., Lauf-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 337,106. Method and arrangement for the generation of ultra sound waves. Rudolf Jahn et al., Baden, near Vienna, Germany. Published May 18, 1943.

A.P.C. 341,722. Arrangement of winding for high-frequency purposes. Adolf Weis et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 342,613. Dust-core arrangement. Helmut Feussner, Berlin, Germany. Published May 18, 1943.

A.P.C. 343,285. Multi-armature ignition magneto. Jean Bernard, Paris, France. Published May 18, 1943.

A.P.C. 347,313. Magnetic flux distributors. Alessandro Alessandri, Milan, Italy. Published May 18, 1943.

A.P.C. 355,391. Connection for carbon segments of collectors. Ottmar Conradty, Rothenbach-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 364,006. Method of eliminating multiple waves of piezo-electric crystals. Rudolf Bechmann, Berlin, Germany. Published May 18, 1943.

A.P.C. 374,600. Carbon collector. Eberhard Holleber et al., Lauf-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 377,407. Welding control system. Gerhard Hagedorn et al., Berlin-Lichterfelde-West, Germany. Published May 18, 1943.

A.P.C. 380,744. Device for oscillographing electrical or mechanical processes. Cornelis Dorsman et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 380,869. High frequency variable inductance. Alfred Nowak, Berlin, Germany. Published May 18, 1943.

A.P.C. 383,526. Means adapted to vary the coupling of inductances especially for RF apparatus. Adolf Weis, Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 387,768. Device suitable for charging batteries. Hendrik Abraham Wijnand Klinkhamer et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 403,096. Piezo-electric crystal mounting. Rudolf Bechmann et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 404,631. Electric controlling systems. Albert Patin, Berlin, Germany. Published May 18, 1943.

A.P.C. 427,649. Mercury amperehourmeters. Andre Francois Henry Poncet, Paris, France. Published May 18, 1943.

A.P.C. 434,042. Combined electromagnetic regulator and switch. Friedrich Menzel, Stuttgart, Germany. Published May 18, 1943.

A.P.C. 439,904. Method and appliance for curve distortion of alternating currents. Pierre Bricout, Senlis (Dise), France. Published May 18, 1943.

A.P.C. 445,426. Means for driving an electric generator on board a ship. Thorleif Eek, Oslo, Norway. Published May 18, 1943.

CLASS 172

A.P.C. 281,313. Systems for generating electricity. Leon Ladislas de Kramolin, Berlin-Kladow, Germany. Published May 18, 1943.

A.P.C. 294,402. Motor for sound recording apparatus. Palle-Finn Beer et al., Copenhagen, Denmark. Published May 18, 1943.

A.P.C. 299,951. Production of high impulses of energy. Heinrich List, Berlin-Kladow, Germany. Published May 18, 1943.

A.P.C. 304,170. Control condensers for alternating current circuits. Walter Kalbskopf, Nurnberg, Germany. Published May 18, 1943.

A.P.C. 347,517. Electric motor control. Heinz Steinbach, Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 360,486. Electrically driven toy vehicle. Oswald Fischer, Nuremberg, Germany. Published May 18, 1943.

A.P.C. 362,655. Electrically operating regulating device. Adolf Krussmann, Berlin-Wilmersdorf, Germany. Published May 18, 1943.

A.P.C. 364,730. Electrically operated control device. Eugen Binder, Berlin, Germany. Published May 18, 1943.

A.P.C. 383,524. Remote motor control. Johannes Antonius Van Lammeren et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 398,549. Regulating arrangement. Ladislaus de Kramolin, Gross-Gleinicke Bei Berlin, Germany. Published May 18, 1943.

A.P.C. 401,787. Commutator devices. Floris Koppelmann et al., Berlin-Siemenstadt, Germany. Published May 18, 1943.

A.P.C. 415,827. Electric control circuits. Friedrich Holters, Berlin-Lankwitz, Germany. Published May 18, 1943.

A.P.C. 420,572. Single-phase machines of the commutator type and in the circuit arrangement of them. Gyorgy Lorschy, Budapest, Hungary. Published May 18, 1943.

A.P.C. 439,320. Device for insuring a proper distribution of the loads among direct current electric machines. Georges Gabriel Mozzanini et al., Le Havre, France. Published May 18, 1943.

A.P.C. 446,374. Method of transition between couplings of direct current motors. Paul Marie Jacques Severin De Giacomoni, Paris, France. Published May 18, 1943.

CLASS 173

A.P.C. 340,686. Storage battery connection. Giacomo Azzaroli, Lugo, Italy. Published May 18, 1943.

CLASS 174

A.P.C. 193,918. Aluminum sheathed cables. Hans Schmitt et al., Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 222,943. Electric wires and method of making the same. Jean Lepetit, Clichy, France. Published May 18, 1943.

A.P.C. 258,571. Electric conductors. Jean Lepetit, Clichy, France. Published May 18, 1943.

A.P.C. 260,226. Electric conductors. Philippe Eugene Henri Eichinger, Clichy, France. Published May 18, 1943.

A.P.C. 269,478. Cable joint. Hans Jacobs, Cologne-Nippes, Germany. Published May 18, 1943.

A.P.C. 275,250. Electric cable. Johannes Deppe, Berlin-Niederschönhausen, Germany. Published May 18, 1943.

A.P.C. 283,990. Electrical lead-in arrangement for refrigerating apparatus. Peter Pfaff et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 288,518. Arrangement for closing up tubular condensers. Heinrich Ike, Berlin, Germany. Published May 18, 1943.

A.P.C. 298,490. Insulated conductor and method of making same. Johannes Hoekstra, Eindhoven, Holland. Published May 18, 1943.

A.P.C. 312,306. Insulated electrical conductor. Oswaldus Anthonius Jacobus Van Lin et al., Venlo, Holland. Published May 18, 1943.

A.P.C. 321,131. Insulated electric conductor and method of making the same. Johannes Hoekstra, Eindhoven, Holland. Published May 18, 1943.

A.P.C. 324,429. Crossed strip insulating complex for concentric cables. Renato Finzi Contini, Milano, Italy. Published May 18, 1943.

A.P.C. 330,523. Boxes for electric apparatus. Willy Niedermeyer, Berlin, Germany. Published May 18, 1943.

A.P.C. 340,675. Bushing insulators. Vitezslav Havlicek, Pilsen, Bohemia. Published May 18, 1943.

A.P.C. 352,040. Electric leading-in arrangements. Hermann Gonningen, Berlin, Germany. Published May 18, 1943.

A.P.C. 369,971. Arrangement to raise the breakdown strength of insulators. Wilhelm Peters, Berlin, Germany. Published May 18, 1943.

A.P.C. 373,583. Insulated wires and cables. Adolf Benischek, Ludwigshafen-on-Rhine, Germany. Published May 18, 1943.

A.P.C. 374,560. Electrical apparatus. Gilles Holst et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 387,508. Insulated electric conductors. Oswaldus Anthonius Jacobus Van Lin et al., Venlo, Holland. Published May 18, 1943.

A.P.C. 388,980. Automatic aircraft steering device. Adam Kronenberger et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 397,704. Radio cables. Robert Herzog et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 398,968. Joints for oil-insulated high tension cables. Cornelis Frederik Proos, The Hague, Netherlands. Published May 18, 1943.

A.P.C. 400,858. Electric insulator. Hendricus Johannes Lemmens et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 408,742. Manufacture of cables without lead sheath. Wilhelm Ohnesorge et al., Berlin, Germany. Published May 18, 1943.

CLASS 175

A.P.C. 114,965. Apparatus for interrupting alternating currents. Floris Koppelmann, Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 171,214. An alloy for permanent magnets. Walter Dannohl et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 198,970. Methods of interrupting alternating electric current. Vitezslav Havlicek et al., Pizen, Czechoslovakia. Published May 18, 1943.

A.P.C. 222,758. Method for manufacturing permanent magnet bodies. Hans Neumann et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 237,956. Alloy for permanent magnets. Walter Dannohl et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 237,957. Alloy for permanent magnets. Walter Dannohl et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 268,641. Magnetic device. Albert Patin, Berlin, Germany. Published May 18, 1943.

A.P.C. 290,306. Electromagnetic oscillating device with freely oscillating armature. Carl Ernst Eichhorn, Steinach in Thuringen, Germany. Published May 18, 1943.

A.P.C. 305,982. Ozonizers. Shozo Tsuno, Kopeshi, Japan. Published May 18, 1943.

A.P.C. 312,864. Use of iron-chromium alloys. Hermann Fahlenbrach et al., Essen-Steele, Germany. Published May 18, 1943.

A.P.C. 321,318. Method of producing rigid electric windings. Johannes Hoekstra, Eindhoven, Holland. Published May 18, 1943.

A.P.C. 323,130. Testing devices. Martin Bockler, Klotzsche, near Dresden, Germany. Published May 18, 1943.

A.P.C. 324,939. Electro-magnetic coils for telephones and loud-speakers. Radu Stolojian, Bucarest, Roumania. Published May 18, 1943.

A.P.C. 333,469. Method and means for determining and tracing insulating, in particular oil-carrying strata. Oscar Martienssen, Kiel, Germany. Published May 18, 1943.

A.P.C. 335,224. High frequency iron core. Fritz Bergtold, Munchen, Germany. Published May 18, 1943.

A.P.C. 341,170. Transformer. Herbert Bahring, Klein Machnow, near Berlin, Germany. Published May 18, 1943.

A.P.C. 342,668. Rotary condenser of reduced size and high capacity. Gunter Karpa, Berlin, Germany. Published May 18, 1943.

A.P.C. 343,083. Electric field shielding means. Fritz Bergtold, Munchen, Germany. Published May 18, 1943.

A.P.C. 344,438. Method and apparatus for the demagnetizing of small steel bodies. Otto Engler, Lubeck, Germany. Published May 18, 1943.

A.P.C. 355,599. Arrangements for measuring frequency characteristics. Peter Deserno, Berlin, Germany. Published May 18, 1943.

A.P.C. 360,689. Device for indicating contaminations in the oil circulation system. Walter Schrader, Doberitz, near Berlin, Germany. Published May 18, 1943.

A.P.C. 362,402. Device for compensating the temperature of systems for distant measurement of the number of revolutions. Arnold Keller, Berlin-Wilmersdorf, Germany. Published May 18, 1943.

A.P.C. 362,462. Dry rectifiers. Heinrich Herrmann, Nurnberg, Germany. Published May 18, 1943.

A.P.C. 362,878. Electrolytic condensers. Akira Miyata, Tokyo, Japan. Published May 18, 1943.

A.P.C. 362,879. Method of making electrolytic condensers. Akira Miyata, Tokyo, Japan. Published May 18, 1943.

A.P.C. 366,919. Inductance device. Theodor Willers, Berlin, Germany. Published May 18, 1943.

A.P.C. 367,391. Manufacturing selenium cells. Heinrich Herrmann, Nurnberg, Germany. Published May 18, 1943.

A.P.C. 367,866. Device for measuring voltages or intensities in very low power circuits. Armand Glorie, Paris, France. Published May 18, 1943.

A.P.C. 369,334. Magnetic testing method. Otto Engler, Lubeck, Germany. Published May 18, 1943.

A.P.C. 374,627. Coil windings. Pascal Carpentier, Paris, France. Published May 18, 1943.

A.P.C. 374,819. Electric condenser. Walter Voigtmann, Berlin, Germany. Published May 18, 1943.

A.P.C. 377,719. Polarized relays. Otto Romer, Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 377,720. Polarized single-coil relays. Otto Romer, Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 386,274. Goniometer coils. Friedrich Brinkmann et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 387,673. Self-interrupters. Gerhard Schmidt, Berlin, Germany. Published May 18, 1943.

A.P.C. 388,250. Electromagnetic device. Kornelis Swier Knol et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 389,310. Electrolytic condensers. Werner Herrmann, Kleinmachnow, Germany. Published May 18, 1943.

A.P.C. 389,474. Electrometric measuring instrument. Fritz Lieneweg, Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 391,620. Magnetic system. Jacob Louis Snoek et al., Eindhoven, Netherlands. Published May 18, 1943.

A.P.C. 395,872. Method of connecting an electric connecting line, by means of a conductive adhesive, to an electrode of a blocking-layer rectifier which consists of low-melting material. Nicolaas Willem Hendrik Addink et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 395,874. Blocking-layer rectifier comprising a cooling plate. Cornelis De Lange et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 395,875. Blocking layer cell. Cornelis De Lange et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 395,893. Portable stereoscopic device for checking electric meters. Gustave Ernest Maillat, Vôisins-Le-Bretonneux Par Trappes, France. Published May 18, 1943.

A.P.C. 397,677. Condensers. Heinrich Zodtner, Birkenwerder, Germany. Published May 18, 1943.

A.P.C. 398,524. Electric condenser. Erwin Willwacher et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 401,131. Dry rectifier devices. Heinrich Herrmann, Nurnberg, Germany. Published May 18, 1943.

A.P.C. 401,518. Blocking layer cell unit. Cornelis De Lange et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 401,786. Arrangement and a method for protecting circuit breakers. Marcel Zuhlke, Berlin, Germany. Published May 18, 1943.

A.P.C. 402,530. Means for measuring magnetic fields. Gustav Barth, Berlin, Germany. Published May 18, 1943.

A.P.C. 404,984. Electric condenser. Wilhelm Schneider, Berlin, Germany. Published May 18, 1943.

A.P.C. 410,612. Electromagnetic devices for researching sunken ships, iron containing sands and other metal containing bodies on the sea ground. Arnaldo Zabelli, Rome, Italy. Published May 18, 1943.

A.P.C. 414,410. Condensers. Werner Schmidt, Berlin, Germany. Published May 18, 1943.

A.P.C. 417,210. Permanent magnets. Walter Dannohl et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 428,442. Iron powder core. Kurt Kaschke, Berlin-Neukolln, Germany. Published May 18, 1943.

CLASS 176

A.P.C. 242,540. Electric discharge tubes and lamps and their manufacture. Roger Francois Desire Navarre Dit Malherbe, Paris, France. Published May 18, 1943.

A.P.C. 278,742. High pressure mercury vapor lamps. Josef Hofmann et al., Berlin-Reinickendorf-Ost, Germany. Published May 18, 1943.

A.P.C. 285,112. Device for starting and feeding electric discharge tubes. Jean Lecorguillier, Suresnes, France. Published May 18, 1943.

A.P.C. 299,434. Value transmitting means. Johann Anders, Vienna, Germany. Published May 18, 1943.

A.P.C. 305,883. Electric lamps. Anton Kratky, Vienna, Germany. Published May 18, 1943.

A.P.C. 308,738. Method and device for increasing, on alternating current supply systems, the efficiency of electric lighting installations and for supplying electrical apparatus operating at very low tension. Charles Franchini, Paris, France. Published May 18, 1943.

A.P.C. 315,017. Luminescent lamp with turbulent discharge. Jean Baptiste Joseph Marcel Abadie, Puteaux, France. Published May 18, 1943.

A.P.C. 401,371. Hot electrodes for electric discharge tubes. Valdislav Bubenik, Zlin, Bohemia and Moravia. Published May 18, 1943.

CLASS 177

A.P.C. 177,836. Airplane landing wheel and flap position indicator. Walter List, Berlin-Spandau, Germany. Published May 18, 1943.

A.P.C. 254,743. Method and apparatus for seismic underground prospecting. Raymond Maillet, Paris, France. Published May 18, 1943.

A.P.C. 278,776. Echo sounding apparatus. Robert Wellenstein, Bremen, Germany. Published May 18, 1943.

A.P.C. 282,916. Apparatus for measuring distances. Robert Wellenstein, Bremen, Germany. Published May 18, 1943.

A.P.C. 285,310. Echo-sounding device with arrested indicator. Peter Orlich et al., Kiel, Germany. Published May 18, 1943.

A.P.C. 287,416. Warning system and apparatus for use with automobiles, motor cycles and similar motor vehicles. Bote Schreuder, Arkel, Holland. Published May 18, 1943.

A.P.C. 308,425. Measuring instrument. Albert Patin, Berlin, Germany. Published May 18, 1943.

A.P.C. 311,694. Device for measuring distances by the echo sounding method. Robert Wellenstein et al., Bremen, Germany. Published May 18, 1943.

A.P.C. 316,695. Micro-chronometer, especially for measuring distances by the echo sounding method. Robert Wellenstein, Bremen, Germany. Published May 18, 1943.

A.P.C. 318,190. Device for driving and remote control of magnetic compasses. Carlo Bresciani, Ponte S. Pietro, Bergamo, Italy. Published May 18, 1943.

A.P.C. 326,650. Fire-alarm systems and in detectors of radio active materials. Alexandre Dauvillier et al., Paris, France. Published May 18, 1943.

A.P.C. 329,575. Electrical distribution system for vehicles. Karl Schmitt, Stuttgart-Degerloch, Germany. Published May 18, 1943.

A.P.C. 331,281. Signalling or advertising devices. Armand Zuckermann, Paris, France. Published May 18, 1943.

A.P.C. 342,318. Microphone phase compensators. Raymond Villem, Paris, France. Published May 18, 1943.

A.P.C. 344,647. Microphonic transmitter devices in particular for submarine transmission by ultra sounds. Raymond Villem, Paris, France. Published May 18, 1943.

A.P.C. 344,790. Device for directed reception of wave motions. Hans Kletz et al., Bremen, Germany. Published May 18, 1943.

A.P.C. 365,647. Echo sounding device. Peter Orlich et al., Kiel, Germany. Published May 18, 1943.

A.P.C. 366,911. Electromagnetic signal horn. Gustav Zeininger, Oberesslingen, Germany. Published May 18, 1943.

A.P.C. 366,912. Electromagnetic signal hooter. Gustav Zeininger, Oberesslingen, Germany. Published May 18, 1943.

A.P.C. 368,707. Electric bells. Johann Gottschlich, Vienna, Germany. Published May 18, 1943.

A.P.C. 380,745. Pressure observer. Maximillien Felix Reynst et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 382,084. Device for directed transmission or reception wave energy. Karl Menges, Bremen, Germany. Published May 18, 1943.

A.P.C. 387,780. Device for converting variations of a mechanical quantity into variations of an electric voltage. Pieter Heertje Dijksterhuis, Eindhoven, Holland. Published May 18, 1943.

A.P.C. 419,794. Automatic signalling apparatus for street crossings, etc. Daniel Naerbo, Stavanger, Norway. Published May 18, 1943.

CLASS 178

A.P.C. 108,062. Picture transmission systems. Pierre Marie Gabriel Toulon, Puteaux, France. Published May 18, 1943.

A.P.C. 109,507. Synchronising apparatus for cathode ray oscillographs. Rene Barthelemy. Fontenay Aux Roses, France. Published May 18, 1943.

A.P.C. 139,213. Production of rollers. Lorand De Tavy, Budapest, Hungary. Published May 18, 1943.

A.P.C. 151,347. Control circuit. Rudolf Urtel, Berlin, Germany. Published May 18, 1943.

A.P.C. 223,270. Television method and arrangement for carrying out the same. Hanns-Heinz Wolff, Berlin, Germany. Published May 18, 1943.

A.P.C. 280,094. Film scanning device. Johannes Kuffer, Berlin, Germany. Published May 18, 1943.

A.P.C. 297,656. Short wave oscillatory circuit. Andreas Jaumann, Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 298,906. Combined television and radio broadcast receivers. Peter Deserno, Berlin, Germany. Published May 18, 1943.

A.P.C. 326,565. Television receivers. Peter Deserno, Berlin, Germany. Published May 18, 1943.

A.P.C. 326,567. Amplitude limiting circuits. Gyorgy Istvan Dallos, Budapest, Hungary. Published May 18, 1943.

A.P.C. 326,605. Television dissectors. Walter Heimann, Berlin, Germany. Published May 18, 1943.

A.P.C. 337,460. Method of telegraphically transmitting communication for statistical purposes. Bernhard Galster et al., Berlin-Haselhorst, Germany. Published May 18, 1943.

A.P.C. 345,002. Filters. Kenzo Nagai et al., Sendai-shi, Japan. Published May 18, 1943.

A.P.C. 348,656. Television apparatus. Giuseppe Zanarini, Turin, Italy. Published May 18, 1943.

A.P.C. 354,771. Light modulating screen. Hans Werner Paehr, Berlin-Zehlendorf, Germany. Published May 18, 1943.

A.P.C. 357,533. Connection for teleprinters. Ehrhard Rossberg, Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 361,564. Arrangement adapted to suppress radio frequency currents on conductors. Hans Otto Roosenstein, Berlin, Germany. Published May 18, 1943.

A.P.C. 362,388. Telautograph. Karl Kupfmuller et al., Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 365,744. Telegraph transmitter. Fritz Hennig, Berlin, Germany. Published May 18, 1943.

A.P.C. 366,932. Method of transmitting characters by means of revolving drums. Rudolf Hell, Berlin-Dahlem, Germany. Published May 18, 1943.

A.P.C. 367,195. Ultra high frequency cables. Karl Kohl, Berlin, Germany. Published May 18, 1943.

A.P.C. 367,936. Transmission line. Hans Jakob Ritter Von Baeyer et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 375,971. Teleprinters. Gustav Ehrenberg, Berlin-Adlershof, Germany. Published May 18, 1943.

A.P.C. 376,569. Telegraphic transmission of intelligence over submarine cables. Heinrich Fulling, Berlin-Pankow, Germany. Published May 18, 1943.

A.P.C. 381,226. System of television. George Valensi, Paris, France. Published May 18, 1943.

A.P.C. 382,856. Telegraphic receiving perforators. Herbert Wusteney et al., Berlin-Wilmersdorf, Germany. Published May 18, 1943.

A.P.C. 384,019. Resonance device for ultra-short waves. Walter Dallenbach, Berlin, Germany. Published May 18, 1943.

A.P.C. 405,985. Telegraph transmitter. Otto Steiner, Berlin-Spandau, Germany. Published May 18, 1943.

A.P.C. 405,986. Keyboard facsimile transmitter. Kurt Winkelmann, Berlin-Zehlendorf, Germany. Published May 18, 1943.

A.P.C. 431,280. Apparatus for the reversal of color photographic negatives. Friedrich Biedermann, Munchen-Unterhaching, Germany. Published May 18, 1943.

CLASS 179

A.P.C. 290,868. Call-dials utilised, in particular, in automatic telephony. Alfred Wormser, Paris, France. Published May 18, 1943.

A.P.C. 291,620. Sound reproducer. Eduard Schuller, Berlin-Johannisthal, Germany. Published May 18, 1943.

A.P.C. 298,171. Sound recording and reproducing devices. Rudolf Milde, Berlin, Germany. Published May 18, 1943.

A.P.C. 312,644. Carrier frequency system. Wolfgang Hagen, Berlin, Germany. Published May 18, 1943.

A.P.C. 340,599. Carrier current systems. Leon Ladislas de Kramolin Gross-Glienicke, Berlin-Kladow, Germany. Published May 18, 1943.

A.P.C. 353,974. Leveling the characteristic of photographic emulsions. Carlheinz Becker, Berlin-Wilmersdorf, Germany. Published May 18, 1943.

A.P.C. 354,459. Producing sound records in half-wave records. Carlheinz Becker, Berlin-Wilmersdorf, Germany. Published May 18, 1943.

A.P.C. 369,684. Shielding means for diaphragms. Giovanni Geloso, Milan, Italy. Published May 18, 1943.

A.P.C. 374,956. Modulator and demodulator systems. Frans Louis Henri Marie Stumpers et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 378,663. Telephone receivers. Curt Peters, Hamburg, Germany. Published May 18, 1943.

A.P.C. 378,894. Microphone. Max Pohls, Berlin, Germany. Published May 18, 1943.

A.P.C. 379,081. Methods of producing sound records on films. Rolf Gorisch, Dresden, Germany. Published May 18, 1943.

A.P.C. 392,634. Push-pull amplifying systems for ultra-high frequencies. Aldert Van Der Ziel et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 393,526. Automatic volume control device. Wilhelm Moser, Berlin, Germany. Published May 18, 1943.

A.P.C. 395,892. Method of recording and reproducing stereophonic sound vibrations. Marius Johannes Culnirus Van Der Meulen, Eindhoven, Holland. Published May 18, 1943.

A.P.C. 396,379. Amplifier circuit for ultra-short waves. Werner Kleen, Berlin, Germany. Published May 18, 1943.

A.P.C. 401,528. Device for the stereophonic registration, transmission and reproduction of sounds. Kornelis De Boer et al., Eindhoven, Holland. Published May 18, 1943.

A.P.C. 409,598. Loudspeaker. Alexander Schaaf, Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 412,893. Microphone. Otto Soldan, Falkensee, Osthaveland, Germany. Published May 18, 1943.

A.P.C. 413,380. Method for magnetic sound recording. Hans Joachim Edler von Braunmuhl et al., Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 417,521. Method and arrangement for determining undesired modulation in transmitters. Friedrich Woerner, Berlin, Germany. Published May 18, 1943.

A.P.C. 440,102. Sound reproducing unit for soundfilms. Jacques Louis Joseph Marette et al., Saint Germain En Laye, France. Published May 18, 1943.

A.P.C. 454,870. Mechanical-electrical sound reproducer. Georges Courcy et al., Le Pecq, France. Published May 18, 1943.

A.P.C. 454,871. Mechanical-electrical sound reproducer. Georges Courcy et al., Le Pecq, France. Published May 18, 1943.

CLASS 180

A.P.C. 244,159. Driving mechanism for power driven vehicles with auxiliary speed gearing. Max Wagner, Stuttgart, Germany. Published May 18, 1943.

A.P.C. 260,252. Tractor control. Ferdinand Porsche, Stuttgart, Germany. Published May 18, 1943.

A.P.C. 368,290. Shock absorption for motor cars with wheels suspended to track altering swinging half-axles. Bela Barenyi, Boblingen, Germany. Published May 18, 1943.

A.P.C. 397,009. Resilient connection of a wheel suspension or an axle aggregate to the frame or the body of a vehicle. Bela Barenyi et al., Vaihingen-Rohr, Germany. Published May 18, 1943.

A.P.C. 397,812. Auxiliary motor devices for driving light vehicles. Marcel Mennesson, Neuilly-sur-Seine, France. Published May 18, 1943.

A.P.C. 413,658. Device to be used in connection with motor vehicles and adapted to prevent damages of mud guards, headlights and other members of the carriage body of motor vehicles. Erwin Hitzelberger, Rohr, Germany. Published May 18, 1943.

CLASS 181

A.P.C. 333,231. Interference silencer more particularly for internal combustion engines. Herbert Martin, Esslingen-am-Neckar, Germany. Published May 18, 1943.

A.P.C. 402,549. Sound arrester in the ventilator of sound-arresting room. Masaichi Tominaga, Kamata-ku, Tokyo, Japan. Published May 18, 1943.

A.P.C. 409,712. Electro-acoustic devices. Rudolf Gorike, Wien, Germany. Published May 18, 1943.

CLASS 183

A.P.C. 183,581. Air conditioning. Edmund Altenkirch, Neuenhagen, near Berlin, Germany. Published May 18, 1943.

A.P.C. 286,002. Gas mask filters and the like. Vilem Eckhardt et al., Chotebor, Bohemia. Published May 18, 1943.

A.P.C. 289,710. Process for separating the components of a mixing, having very near boiling points. Giulio Natta, Milano, Italy. Published May 18, 1943.

A.P.C. 295,140. Centrifugal dust separators. Adam Johannes Ter Linden, Delft, Holland. Published May 18, 1943.

A.P.C. 333,698. Drying plant for gas. Georges Francois Jaubert, Paris, France. Published May 18, 1943.

A.P.C. 358,267. Method of controlling the moisture content of gases to be analyzed. Heinz Gruss, Berlin-Wannsee, Germany. Published May 18, 1943.

A.P.C. 360,291. Process of adsorbing gases and vapors. Seigfried Kiesskalt, Frankfurt-am-Main, Germany. Published May 18, 1943.

A.P.C. 367,293. Cyclones. Hermannus Van Tongeren, Heemstede, Netherlands. Published May 18, 1943.

A.P.C. 388,877. Purifier and oil separating apparatus. Charles Raymond Waseige, Rueil, France. Published May 18, 1943.

A.P.C. 398,268. Air filter. Ludwig Seitz, Augsburg, Germany. Published May 18, 1943.

A.P.C. 409,905 Centrifugal dust separators. Hermannus Van Tongeren, Heemstede, Netherlands. Published May 18, 1943.

A.P.C. 416,913. Recovery of hydrocarbons from chlorination waste gases of hydrocarbons. Kurt Rath et al., Berlin-Charlottenburg, Germany. Published May 18, 1943.

CLASS 184

A.P.C. 172,755. Pumping system. Fritz Nallinger, Stuttgart, Germany. Published May 18, 1943.

A.P.C. 373,101. Pressure lubricating system. Gustav Nemetz, Vienna, Germany. Published May 18, 1943.

A.P.C. 398,267. Internal combustion engine. Ludwig Seitz, Augsburg, Germany. Published May 18, 1943.

A.P.C. 443,965. Multi-drive gear box. Charles Raymond Waseige, Rueil, France. Published May 18, 1943.

CLASS 185

A.P.C. 390,857. Starting device for internal combustion engines. Jean Roger Golot, Nantes, France. Published May 18, 1943.

CLASS 188

A.P.C. 303,885. Oscillation absorbers. Oscar Cupper, Diessen/Ammersee, Germany. Published May 18, 1943.

A.P.C. 336,290. Brakes. Emil Zipper, Paris, France. Published May 18, 1943.

A.P.C. 340,223. Combined carbon and metal holder body. Hans Zollner, Lauf-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 350,452. Hydraulic brake for power driven vehicles. Josef Hartmann, Munich, Germany. Published May 18, 1943.

A.P.C. 362,677. One way clutch arrangement. Giuseppe Pagliano, Santa Maria Capua Vetere, Naples, Italy. Published May 18, 1943.

A.P.C. 381,164. Hydraulic shock absorbers. Wilhelm Zenz, Wuppertal-Elberfeld, Germany. Published May 18, 1943.

A.P.C. 384,985. Binding clamp to hold a line wound on to a roll. Christian Sorensen, Understed, near Saeby, Denmark. Published May 18, 1943.

A.P.C. 443,791. Brakes. Henri Perrot, Paris, France. Published May 18, 1943.

CLASS 189

A.P.C. 335,199. Process and means for the construction of houses with standard panelling. Raymond Behin, Gennevilliers, France. Published May 18, 1943.

A.P.C. 369,500. Demountable hangar for aeroplanes and seaplanes. Georges Servan Cantacuzene, Paris, France. Published May 18, 1943.

A.P.C. 411,588. System for joining parts of metallic structures to each other. Gerolamo Merlini et al., Milano, Italy. Published May 18, 1943.

A.P.C. 412,904. Compression resistant chains. Karl Bender, Wurzburg, Germany. Published May 18, 1943.

A.P.C. 412,905. Compression resistant group of flat link chains. Karl Bender, Wurzburg, Germany. Published May 18, 1943.

A.P.C. 414,002. Semi-tubular section with lateral flanges for use in mine gallery framing. Karl Maria Groetschel, Bochum, Germany. Published May 18, 1943.

CLASS 190

A.P.C. 342,563. Folding trunks and the like. Jean Hamon, Neuilly-sur-Seine, France. Published May 18, 1943.

CLASS 191

A.P.C. 309,108. Overhead contact hoop. Ottmar Conradty, Rothenbach-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 407,804. Current collectors for electric vehicles. Ferenc Szalay, Budapest, Hungary. Published May 18, 1943.

CLASS 192

A.P.C. 196,718. Liquid clutch transmission. Fritz Nallinger et al., Stuttgart, Germany. Published May 18, 1943.

A.P.C. 276,464. Power operated clutch mechanism for motor vehicles. Karl Maybach, Friedrichshafen, Bodensee, Germany. Published May 18, 1943.

A.P.C. 305,991. Electromagnetic multiple-disc clutch. Anton Ryba, Bolzano, Italy. Published May 18, 1943.

A.P.C. 308,479. Electromagnetic multiple-disc clutch. Anton Ryba, Bolzano, Italy. Published May 18, 1943.

A.P.C. 314,170. Electromagnetic multiple-disc clutch. Anton Ryba, Bolzano, Italy. Published May 18, 1943.

A.P.C. 322,595. Electro-magnetic clutches. Albert Maier et al., Friedrichshafen, Bodensee, Germany. Published May 18, 1943.

A.P.C. 352,808. Claw couplings with synchronizing device. August Guter et al., Friedrichshafen, Bodensee, Germany. Published May 18, 1943.

A.P.C. 362,883. Centrifugal couplings. Elmar Wittkop, Sprockhovel, Germany. Published May 18, 1943.

A.P.C. 368,679. Drive of loading blowers, particularly loading blowers, for aircraft motors. Fritz Nallinger, Stuttgart, Germany. Published May 18, 1943.

A.P.C. 374,724. Electrical drive for wheel type presses or the like. August Walther, Francfort-on-Main-Oberrad, Germany. Published May 18, 1943.

A.P.C. 377,862. Automotive centrifugal clutch. Fritz Fiedler, Munich, Germany. Published May 18, 1943.

A.P.C. 400,817. Transmissions and means for operating the same. Karl Maybach, Friedrichshafen, Germany. Published May 18, 1943.

A.P.C. 402,024. Clutch, especially for motor cars with control change mechanism. Hans Kattwinkel, Radebeul, Germany. Published May 18, 1943.

A.P.C. 431,207. Balanced control for cycle brakes. Marcel Paul Durand, St.-Germain En Laye, France. Published May 18, 1943.

CLASS 194

A.P.C. 309,215. Ticket delivering machine. Biagio Beria, Turin, Italy. Published May 18, 1943.

A.P.C. 309,917. Coin-actuated devices. Johannes Petersen, Aalborg, Denmark. Published May 18, 1943.

A.P.C. 332,117. Automatic distributors of goods. Antonino Alfano, Rome, Italy. Published May 18, 1943.

CLASS 195

A.P.C. 267,167. Yeasty remedy and method of preparing the same. Kinya Nagao, Tokyo, Japan. Published May 18, 1943.

A.P.C. 308,290. Preparation of nourishing solutions for the production of citric acid by the fermentation method. Frantisek Kanhauser et al., Kaznejov, near Plzen, Bohemia. Published May 18, 1943.

A.P.C. 331,454. Process for the production of alcohol by fermentation of sulfite waste liquor or wood-sugar mash. Kurt Heyns, Hamburg, Germany. Published May 18, 1943.

A.P.C. 336,304. Process for the manufacture of alkaline earth metal salts of adenosine polyphosphoric acids. Herbert Schwaneberg, Berlin-Tempelhof, Germany. Published May 18, 1943.

A.P.C. 367,299. Process of producing bios- and albumen-preparations. Felix Grandel, Emmerich/Rhein, Germany. Published May 18, 1943.

A.P.C. 367,301. Process of preparing pentone acids and their salts. Felix Grandel, Emmerich/Rhein, Germany. Published May 18, 1943.

A.P.C. 413,551. Processes for treating bagasse. Manuel L. Roxas, Manila, P. I. Published May 18, 1943.

CLASS 196

A.P.C. 46,912. Extraction process. Willem J. D. Van Dijck, The Hague, Netherlands. Published May 18, 1943.

A.P.C. 254,505. Refining of mineral oils and tars. Friedrich Schick, Berlin-Schoeneberg, Germany. Published May 18, 1943.

A.P.C. 266,187. Process of manufacturing petroleum-like oil by dry distillation of a carbonaceous material. Hajime Isobe, Yodobashi-ku, Tokyo, Japan. Published May 18, 1943.

A.P.C. 330,613. Treatment of hydrocarbons. Paul Woog, Paris, France. Published May 18, 1943.

A.P.C. 338,288. Solvent treatment of naphthas and the like. Ernst Terres et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 345,366. Process for the thermal treatment of carbonaceous material. Wilhelm Michael et al., Ludwigshafen-on-Rhine, Germany. Published May 18, 1943.

A.P.C. 369,332. Process for the removal of gases from mineral oil refining plants which operate with liquefied, at normal temperature gaseous solvents. Alfred Hoppe, Berlin-Wilmersdorf, Germany. Published May 18, 1943.

A.P.C. 380,914. Process for controlling fractionation. Alfred Samuel Wolfner, Paris, France. Published May 18, 1943.

A.P.C. 384,740. Process for the production of hydrocarbons from carbonaceous materials, especially by cracking hydrocarbon oils. Gerhard Free et al., Ludwigshafen-on-Rhine, Germany. Published May 18, 1943.

A.P.C. 389,038. Catalytic reactions with carbonaceous materials. Fritz Stoewener, deceased, by Elisabeth Stoewener, Ludwigshafen-on-the-Rhine, Germany, administratrix. Published May 18, 1943.

A.P.C. 390,534. Conversion of combustible carbonaceous materials. Mathias Pier et al., Heidelberg, Germany. Published May 18, 1943.

A.P.C. 392,114. Catalytic cracking of hydrocarbons. Mathias Pier et al., Heidelberg, Germany. Published May 18, 1943.

A.P.C. 399,555. Refining mineral oil. Carl Zerbe, Hamburg, Germany. Published May 18, 1943.

CLASS 197

A.P.C. 306,390. Drive mechanism for office machines. Erich Dronigke et al., Sommerda, Germany. Published May 18, 1943.

A.P.C. 328,090. Type for typewriting machines, perforation or printing as well as interpretation system for characters. Rolf Hofgaard, Sondre Hellerud Gaard, Nordstrandshogda, Pr. Oslo, Norway. Published May 18, 1943.

A.P.C. 363,851. Type writing machines. Leopold Ferdinand Pascher, Schweizertal, Germany. Published May 18, 1943.

A.P.C. 374,907. Devices for producing storing tapes for telegraph transmitters. Herbert Wusteney, Berlin-Wilmersdorf, Germany. Published May 18, 1943.

A.P.C. 376,398. Typewriting machine with covering hood adapted to be folded up. Friedrich Wunderlich, Nurnberg, Germany. Published May 18, 1943.

A.P.C. 403,628. Tabulating machines or the like. Bernard Leger et al., Paris, France. Published May 18, 1943.

A.P.C. 411,428. Ink ribbon for typing-calculating machines and the like. Alfred Frohlich, Vienna-Modling, Germany. Published May 18, 1943.

CLASS 198

A.P.C. 330,212. Conveyers. Heinrich Aumund, Berlin-Zehlendorf, Germany. Published May 18, 1943.

A.P.C. 352,164. Conveyor mechanism for use in connection with machines for casting chocolate and the like. Kai Christian Sophus Aasted, Gentofte, near Copenhagen, Denmark. Published May 18, 1943.

A.P.C. 359,123. Oblate fruit peeling machine. Giovanni Messinese, Naples, Italy. Published May 18, 1943.

A.P.C. 368,952. Apparatus for delivering bars from a cooling bed to live roll conveyers. Hans Cramer, Dinslaken/Niederrhein, Germany. Published May 18, 1943.

A.P.C. 378,719¼. Apparatus for the mechanical loading of beetroots on the field into the dray. Georg Kittler, Opperau, near Breslau, Germany. Published May 18, 1943.

CLASS 200

A.P.C. 219,932. Circuit breakers. Fritz Kesselring et al., Berlin-Frohnau, Germany. Published May 18, 1943.

A.P.C. 291,401. Control device for electrical lighting installations on vehicles. Friedrich Menzel, Stuttgart, Germany. Published May 18, 1943.

A.P.C. 293,586. Permutation and alarm clocks. Einer Eiby Andersen Hinnerfeldt, Kirkehoerup, Als, Denmark. Published May 18, 1943.

A.P.C. 297,366. Vibrator. Hans Bartels, Berlin, Germany. Published May 18, 1943.

A.P.C. 297,979 Contact for vibrators. Werner Braunschweig, Berlin-Frohnau, Germany. Published May 18, 1943.

A.P.C. 303,854. Electric multiple-way switch. Hans Peterreins, Nuremberg, Germany. Published May 18, 1943.

A.P.C. 311,314. Vibrating converter. Alfred Leifer et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 322,436. Vibratory system. Alfred Leifer, Berlin, Germany. Published May 18, 1943.

A.P.C. 333,867 Mercury switch. Jacques Emile Jules Languepin, Paris, France. Published May 18, 1943.

A.P.C. 373,780. Setting device on mechanical and electric measuring instruments. Paul Hildebrand et al., Mannheim, Germany. Published May 18, 1943.

A.P.C. 374,599. Switching device. Ottmar Conradty et al., Rothenbach-on-the-Pegnitz, Germany. Published May 18, 1943.

A.P.C. 380,962. Circuit interrupter. Alfredo D'Arbela, Firenze, Italy. Published May 18, 1943.

A.P.C. 388,078. Chopper. Alfred Leifer et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 415,288. Circuit breaker fluid pressure operated system. Hans Stegelitz et al., Berlin-Johannisthal, Germany. Published May 18, 1943.

CLASS 201

A.P.C. 328,680. Method and apparatus for the production of boiling-proof mouth and operation mirrors with employment of a re-shapable support for heating wires. Hermann Menz et al., Berlin, Germany. Published May 18, 1943.

A.P.C. 330,201. Resistance system. Ernst Doetsch, Nurnberg, Germany. Published May 18, 1943.

A.P.C. 339,725. Variable resistors. Rudolf Schade, Finkenkrug, Osthavelland, Germany. Published May 18, 1943.

A.P.C. 346,060. Method of manufacturing finely graded helical electric resistors. Gerald Klein, Berlin-Dahlem, Germany. Published May 18, 1943.

A.P.C. 351,556. Manufacture of non-metallic electrical resistance materials. Karl Biefeld, Bad-Freienwalde (Oder), Germany. Published May 18, 1943.

A.P.C. 353,321. Variable resistors. Friedrich Gieffers, Berlin-Spandau, Germany. Published May 18, 1943.

A.P.C. 355,299. Variable resistors. Friedrich Gieffers, Berlin-Spandau, Germany. Published May 18, 1943.

A.P.C. 371,844. Device for controlling power circuits. Fritz Kesselring et al., Berlin-Frohnau, Germany. Published May 18, 1943.

A.P.C. 373,689. Dehydration of acetic acid by azeotropic distillation. Henri Martin Guinot, Niort, France. Published May 18, 1943.

A.P.C. 377,578. Nonmetallic electric resistance material and process for producing same. Karl Biefeld, Bad Freienwalde-on-Oder, Germany. Published May 18, 1943.

A.P.C. 378,542. Electric current regulator with pressure loaded carbon-pile column. Wolfgang Kehse, Berlin-Karlshorst, Germany. Published May 18, 1943.

A.P.C. 392,280. Devices for controlling power circuits. Friedrich Gieffers, Berlin-Spandau, Germany. Published May 18, 1943.

CLASS 202

A.P.C. 281,718. Process and apparatus for obtaining glycerine from distillery slops or spent wash. Ernest Konigstein, Malacky, Slovakia. Published May 18, 1943.

A.P.C. 320,951. Coke ovens. Josef Schafer, Dortmund, Germany. Published May 18, 1943.

A.P.C. 360,502. Method of increasing the inclination of vinyl acetate to polymerize. Willy O. Herrmann et al., Deisenhofen, Germany. Published May 18, 1943.

A.P.C. 365,336. Method of making and applying a filtering material. Otto Kuhne, Frankfort-on-Main, Germany. Published May 18, 1943.

A.P.C. 382,694. Recovery of extraction agents. Alfred Dierichs, Leverkusen-Wiesdorf, Germany. Published May 18, 1943.

A.P.C. 400,988. Regenerative coke ovens. Nikolaus M. Philipsen, Tokyo, Japan. Published May 18, 1943.

A.P.C. 403,046. Process of continuously purifying and separating a mixture of higher alcohols by distillation. Otto Von Keussler, Darmstadt, Germany. Published May 18, 1943.

CLASS 204

A.P.C. 139,606. Electrolytic method of obtaining albumin from whey. Karl Kremers et al., Aachen, Germany. Published May 18, 1943.

A.P.C. 201,844. Process of and apparatus for the electrical separation of emulsions. Walther Deutsch, Francfort-on-Main, Germany. Published May 18, 1943.

A.P.C. 210,426. Process for reducing the rapidity of the reaction of zinc dust. Gunther Hansel et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 214,954. Process for the manufacture of zinc. Hermann Wolf et al., Duisburg, Germany. Published May 18, 1943.

A.P.C. 216,289. Method for electrolytically refining copper and its alloys. Gunther Hansel, Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 227,770. Electric separation of emulsions. Carl Hahn et al., Berlin-Siemensstadt, Germany. Published May 18, 1943.

A.P.C. 228,143. Method of producing coatings on magnesium or its alloys. Walter Mannchen, Dessau, Germany. Published May 18, 1943.

A.P.C. 230,090. Method and device for the electrolytic oxidation of thin wires. Friedrich Durr, Berlin-Friedenau, Germany. Published May 18, 1943.

A.P.C. 231,799. Electrolytic apparatus for producing a hydroxide of metal. Eiji Munekata, Nobeoka, Japan. Published May 18, 1943.

A.P.C. 233,139. Method of metallising articles by means of cathode disintegration. Bernhard Berghaus et al., Berlin-Lankwitz, Germany. Published May 18, 1943.

A.P.C. 233,325. Process for the improvement of the electrical properties of solutions. Richard Beck, Mainz-on-Rhine, Germany. Published May 18, 1943.

A.P.C. 234,571. Glass electrodes. Walter Geffcken, Jena, Germany. Published May 18, 1943.

A.P.C. 235,888. Development of photographic layers. Johannes Rzymkowski, Jena, Thuringia, Germany. Published May 18, 1943.

A.P.C. 237,710. Treatment of oil-sand and like mixtures. Karl Grosse et al., Wietze Kreis Celle, Germany. Published May 18, 1943.

A.P.C. 245,310. Process for preparing arsenates by anodic oxidation of salts of arsenious acid. Leo Lowenstein, Berlin-Wilmersdorf, Germany. Published May 18, 1943.

A.P.C. 246,063. Process of preparing zinc and chlorine. Ernst Kuss et al., Duisburg, Germany. Published May 18, 1943.

A.P.C. 253,939. Apparatus for obtaining persalts, e. g., persulphates, by electrolysis. Werner Trinius, Bruhl, near Cologne, Germany. Published May 18, 1943.

A.P.C. 254,376. Process for the electrolytic production of neutral hypochlorinated solutions, means and apparatus used and new products obtained. Pierre Max Raoul Salles, Cauderan, France. Published May 18, 1943.

A.P.C. 262,800. Apparatus for producing water-taking layers on both surfaces of light-metal foils. Hermann Wolff, Berlin, Germany. Published May 18, 1943.

A.P.C. 263,378. Process for the production of oxidic protective coatings on magnesium or magnesium alloys. Gerhard Elssner et al., Leipzig, Germany. Published May 18, 1943.

A.P.C. 267,206. Process for the making compact, impregnating and/or dyeing of oxidic protective layers on magnesium and its alloys. Gerhard Elssner et al., Leipzig, Germany. Published May 18, 1943.

A.P.C. 267,207. Process for the production of oxidic protective layers on magnesium or its alloys. Gerhard Elssner et al., Leipzig, Germany. Published May 18, 1943.

A.P.C. 276,706. Process for the production of high value alcohols from sugars and sugary substances. Felix Grandel, Emmerich-am-Rhein, Germany. Published May 18, 1943.

A.P.C. 283,312. Purification of gases. Bernhard Berghaus et al., Berlin-Lankwitz, Germany. Published May 18, 1943.

A.P.C. 288,035. Process for carrying out electrolyses. Hans Rudolph, Frankfurt-am-Main, Germany. Published May 18, 1943.

A.P.C. 291,590. Method of coating articles by cathode disintegration. Bernhard Berghaus et al., Berlin-Lankwitz, Germany. Published May 18, 1943.

A.P.C. 297,191. Process for the protection of magnesium and its alloys. Jean Frasch, Clichy, France. Published May 18, 1943.

A.P.C. 302,054. Method of producing protective layers on magnesium and magnesium alloys. Hugo Huber et al., Mohringen/Filder, Germany. Published May 18, 1943.

A.P.C. 303,336. Polymerizing apparatus. Theodor Rummel, Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 313,281. Processes and apparatuses for the regeneration of a liquid of other applications. Albert Gaston Saheurs, Barentin, France. Published May 18, 1943.

A.P.C. 318,328. Process for manufacturing viscous products suitable for lubrication. Egon Eichwald, Amsterdam, Netherlands. Published May 18, 1943.

A.P.C. 321,349. Porous partitions for storage batteries and electric cells. Gustave Lequerler, Paris, France. Published May 18, 1943.

A.P.C. 323,139. Process for the production of unsaturated ketonalcohols of the cyclopentano-polyhidro-phenantrene series. Andreas Kramli et al., Budapest, Hungary. Published May 18, 1943.

A.P.C. 323,695. Plated articles and method of producing same. Jules Dupuis, Huyssinghen, Belgium. Published May 18, 1943.

A.P.C. 326,494. Process for the treatment of metals by means of galvanic current in which the metal to be protected serves as cathode. Jean Frasch, Clichy, France. Published May 18, 1943.

A.P.C. 326,495. Processes for the protection of metals and alloys. Jean Frasch, Clichy, France. Published May 18, 1943.

A.P.C. 326,756. Process for the improvement of electrical contact conductivity in apparatus for electrolysis of fused salts. Friedrich Ott, Koln-Braunsfeld, Germany. Published May 18, 1943.

A.P.C. 334,067. Method of manufacturing succinic acid. Yoshitaro Takayama, 143, 1-Chome, Onden, Shibuya-ku, Tokyo, Japan. Published May 18, 1943.

A.P.C. 335,549. Method of and apparatus for sterilising liquid foodstuffs. Alexandru Bojinescu et al., Bucharest, Roumania. Published May 18, 1943.

A.P.C. 340,362. Electrodeposition of metallic coatings. Robert Weiner, Frankfurt-A/Main, Germany. Published May 18, 1943.

A.P.C. 340,402. Method of electrolytically obtaining magnesium. Hans Grothe, Clausthal-Zellerfeld, Germany. Published May 18, 1943.

A.P.C. 340,856. Apparatus for the electronic treatment of liquids. Andre Jean Barbier, Paris, France. Published May 18, 1943.

A.P.C. 346,872. Cloths for electrochemical diaphragms. Karl Weber et al., Gersthofen, near Augsburg, Germany. Published May 18, 1943.

A.P.C. 349,437. Production of hydrogen by electrolysis. Franz Sledzianowski, Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 351,241. Electroplating bath. Robert Weiner, Francfort-on-Main, Germany. Published May 18, 1943.

A.P.C. 352,416. Process for the electrolytic production of opaque layers, similar to enamel, on aluminium and its alloys. Carlo Sonnino et al., Milan, Italy. Published May 18, 1943.

A.P.C. 354,622. Method of manufacturing hollow propeller blade for aircraft. Yutaka Sakamoto, Shizuoka-ken, Japan. Published May 18, 1943.

A.P.C. 355,522. Process for electrolytically producing bright deposits of zinc on other metals, for example on iron. Wolfgang Howaldt et al., Andernach-on-Rhine, Germany. Published May 18, 1943.

A.P.C. 356,108. Method for decreasing or preventing the actions of pickling acid on metals, especially iron-and metal-alloys. Willibald Machu et al., Vienna, Germany. Published May 18, 1943.

A.P.C. 362,843. Electrolytic cells. Bela Feledi, Budapest, Hungary. Published May 18, 1943.

A.P.C. 363,564. Method of plating tubes. Ulrich Raydt, et al., Osnabruck, Germany. Published May 18, 1943.

A.P.C. 368,084. Electronic water purifier for avoiding incrustations. Guglielmo Ciccotti, Rome, Italy. Published May 18, 1943.

A.P.C. 369,610. Refining aluminium. Werner Helling et al., Braunau, Germany. Published May 18, 1943.

A.P.C. 369,618. Bath for the anodic oxydation of aluminium and its alloys for obtaining very hard and tough films. Antonio Sassetti et al., Milan, Italy. Published May 18, 1943.

A.P.C. 383,003. Metallic corrosion protection. Alfred Hilpert, Dusseldorf, Germany. Published May 18, 1943.

A.P.C. 387,252. Process for attacking aluminum for increasing its working surface and apparatus therefor. Gedal Guterman, Paris, France. Published May 18, 1943.

A.P.C. 390,374. Process for driving out occlusions of gases like hydrogen from the surface layers of work-pieces. Richard Beck, Wiesbaden, Germany. Published May 18, 1943.

A.P.C. 395,317. Method of and device for producing sound band matrices. Arno Woitscheck, Porz, near Koln, Germany. Published May 18, 1943.

A.P.C. 395,318. Method of and device for producing matrices from mechanically recorded sound bands. Arno Woitscheck, Porz, near Koln, Germany. Published May 18, 1943.

A.P.C. 411,429. Methods for purifying manganese in metal state. Pietro Guareschi, Genoa, Italy. Published May 18, 1943.

A.P.C. 411,430. Methods for producing manganese in metal state and pure manganese dioxide if desired, from manganese ores. Pietro Guareschi, Genoa, Italy. Published May 18, 1943.

A.P.C. 414,022. Electrolytic system. Pietro Achille, Milan, Italy. Published May 18, 1943.

A.P.C. 425,186. Processes for machining light metals and alloys. Jean Bary, Clichy, France. Published May 18, 1943.

A.P.C. 439,590. Process for the manufacture of improved oils, particularly such as are stable during storage and at increased temperature. Friedrich Schick, Berlin-Schoeneberg, Germany. Published May 18, 1943.

CLASS 205

A.P.C. 296,471. Torque indicating wrenches. Karl Schottle, Bad Cannstatt, Germany. Published May 18, 1943.

CLASS 206

A.P.C. 206,498. Plastic material wrappers. Charles Nicolle, Montrouge, France. Published May 18, 1943.

A.P.C. 279,576. Film magazines and containers. Rudolf Taesler, Dresden, Germany. Published May 18, 1943.

A.P.C. 413,022. Pill boxes. Berend Jan Van Den Dool, Deventer, Holland. Published May 18, 1943.

CLASS 207

A.P.C. 362,833. Press for manufacturing tubes, rods or the like. Ferdinand Hanff, Berlin-Charlottenburg, Germany. Published May 18, 1943.

A.P.C. 384,913. Extrusion devices for the manufacture of cable sheaths. Walter Hyprath, Berlin-Wilmersdorf, Germany. Published May 18, 1943.

CLASS 209

A.P.C. 246,483. Process for dressing coals or similar substances. Hirosaburo Osawa, Kaji-Mura-Iruma-Gun, Saitama-Ken, Japan. Published May 18, 1943.

A.P.C. 263,546. Processes for the treatment of siliceous iron-containing materials. Willy Stelkens, Koln-Marienburg, Germany. Published May 18, 1943.

A.P.C. 304,154. Magnetic separator. Karl Sigwart, Leverkusen-I.G.-Werk, Germany. Published May 18, 1943.

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A.P.C. 315,426. Processes and apparatus for separating loose masses. Cornelis Schouten, Delft, Netherlands. Published May 18, 1943.

A.P.C. 335,078. Apparatus for separating solid materials having different specific gravities by means of a suspension. Klaas F. Tromp, Kerkrade, Limburg, Netherlands. Published May 18, 1943.

A.P.C. 336,307. Sorting machines. Jakob Dichter, Berlin-Schoneberg, Germany. Published May 18, 1943.

A.P.C. 345,246. Magnetic separators. Felice Enrico Veglio, Turin, Italy. Published May 18, 1943.

A.P.C. 373,832. Process for obtaining coal particularly poor in ash content. Friedrich Ludwig Kuhlwein, Essen, Germany. Published May 18, 1943.

A.P.C. 381,904. Apparatus for separating maize husks from maize seeds. Felix Grandel et al., Emmerich/Rhein, Germany. Published May 18, 1943.

A.P.C. 394,227. Separating the cocoa seed from the cocoa bean. Josef Drenker, Cologne, Germany. Published May 18, 1943.

A.P.C. 414,979. Froth flotation. August Gotte, Frankfurt-Main, Germany. Published May 18, 1943.

CLASSIFICATION OF PATENTS

ISSUED MAY 18, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Notice

See page xxxi for list of applications published by the Alien Property Custodian.

Classification Bulletin No. 83

Classification Bulletin No. 83 is now available and may be purchased from the Commissioner of Patents.

Suggestion for the Use of Coupons

The execution of orders for printed copies of U. S. patents, trade-marks, etc., will be considerably expedited if coupons are used. Such coupons may be purchased at the Patent Office in lots of 20 at $2.00 and 100 at $10.00.

Coupon orders do not have to be accompanied by letters of transmittal. They require nothing but the filling in of the patent number, the name of the inventor, the date of issue, and the name and address of the party desiring the service.

Notices of Cancellation

U. S. Patent Office, *Richmond, Va., Apr. 22, 1943.*

James Hatsuto Yamada, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by James L. Younghusband, 30 West Hubbard Street, Chicago, Ill., to effect the cancellation of trade-mark registration of James Hatsuto Yamada, 1736 Divisadero Street, San Francisco, Calif., No. 277,432, dated Nov. 11, 1930, and communications addressed to said James Hatsuto Yamada at the above address and 1690 Post Street, San Francisco, Calif., having been returned by the post office as undeliverable, notice is hereby given that unless said James Hatsuto Yamada, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Richmond, Va., May 4, 1943.*

The Van Orden Shop Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Style Form Brassiere Co. Inc., 76 Madison Ave., New York, N. Y., to effect the cancellation of trade-mark registration of The Van Orden Shop Inc., 379 Fifth Ave., New York, N. Y., No. 274,501, dated August 26, 1930, and the notice of such proceeding sent by registered mail to the said The Van Orden Shop Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Van Orden Shop Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Applicant's Address

The requirement of Rule 33, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,282,621, E. B. Thompson, Vehicle dumping apparatus, decided April 24, 1943, claim 9.

Pat. 2,261,900, J. F. Cavanagh, Tubular lamp socket, decided April 23, 1943, claims 1, 2, and 3.

Pat. 2,279,724, G. W. Von Hofe, Art of applying labels and machine for applying labels, decided April 28, 1943, claim 6.

Conditions of Applications Under Examination at Close of Business May 8, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,755; Trade-Mark Division, 1,009. Oldest new case, June 19, 1942; oldest amended, June 29, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Nov. 30	Dec. 30	318
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textiles Wringers; Butchering.	Feb. 26	†Jan. 13	231
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	July 17	July 10	961
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Nov. 25	Nov. 16	400
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	Sept. 4	Aug. 25	520
6. GENIESSE, E. W., Carbon Chemistry (part)	Sept. 3	Sept. 18	1011
7. JARBOE, C. G., Optics, Photography	Oct. 13	Oct. 12	883
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Oct. 22	Oct. 19	609
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Sept. 16	Sept. 5	737
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Nov. 20	Nov. 30	388
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Dec. 31	Nov. 28	322
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Nov. 2	Oct. 30	647
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 12	†Jan. 13	433
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Oct. 30	Nov. 2	690
16. SPENCER, C. J., Telegraphy; Telephony	Oct. 1	Sept. 23	605
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 20	July 25	714
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 13	Sept. 14	551
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Aug. 20	Aug. 19	636
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Nov. 16	Nov. 27	428
21. THOMPSON, T. J., Textiles	Dec. 16	Dec. 7	295
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Aug. 1	Aug. 4	1712
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 26	Dec. 9	133
24. LUSBY CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Dec. 18	Dec. 18	538
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Oct. 12	Oct. 19	609
26. YOUNG, R. R., Electricity—Generation and Motive Power	Oct. 1	Oct. 12	652
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 8	Oct. 10	567
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 24	July 25	615
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 15	Dec. 30	329
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 11	†Jan. 11	313
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Nov. 20	Nov. 20	1359
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 2	Oct. 2	635
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Dec. 8	Dec. 8	625
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Oct. 22	Nov. 13	395
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Dec. 24	Nov. 25	578
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Nov. 19	Sept. 30	384
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 23	†Jan. 11	403
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Oct. 12	Oct. 18	627
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	†Jan. 20	†Jan. 11	380
40. DRUMMOND, E. J., Receptacles	†Jan. 27	†Jan. 27	322
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 22	Oct. 21	407
42. MARANS, H., Electric Signaling	†Jan. 5	Dec. 21	318
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	July 3	July 3	878
44. HARVEY, L. P., Refrigeration	Sept. 23	Sept. 16	329
45 HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Nov. 14	Dec. 1	702
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Oct. 6	Oct. 10	478
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Oct. 14	Oct. 26	1005
48. ROEPKE, O. B., Electricity, General Applications; Igniters	June 19	June 29	706
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Oct. 5	Nov. 6	579
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Oct. 9	Oct. 10	1219
51. BACKUS, C. D., Radiant Energy	Oct. 12	Oct. 14	994
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Nov. 20	Nov. 5	665
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Feb. 18	†Feb. 9	201
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Oct. 9	Oct. 20	446
55. BOWEN, S. T., Artificial Body Members; Denistry; Surgery	Aug. 20	Aug. 20	769
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Oct. 22	Nov. 5	758
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	July 7	Aug. 12	454
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 26	Nov. 12	541
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	July 9	July 10	1272
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Aug. 24	Aug. 24	443
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Sept. 29	Oct. 22	561
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 2	†Jan. 1	460
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Oct. 2	Oct. 7	944
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Nov. 24	Nov. 24	1117
65. McDERMOTT, F. E., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Sept. 18	Sept. 24	661
Trade Marks: RICHMOND, F. A	†Apr. 7	†Apr. 21	1009
Designs: KALUPY, H. E	†Apr. 1	†Apr. 16	293

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE MARTIN ET AL.

No. 4,655. Decided December 26, 1942

[——F.(2d)——]

1. APPEAL—REMAND.

Where the Primary Examiner ruled that claim 8 of appellants' application is drawn to a non-elected species and that, in the absence of the allowance of a generic claim, appellants were not entitled thereln to prosecute said claim; but neither the Examiner nor the Board of Appeals indicated whether claim 18, 19, or 20 of the application, which they found unpatentable over the prior art, is generic; and the Court of Customs and Patent Appeals found claims 18, 19, and 20 to be patentable *Held* that, so far as claim 8 was concerned, the cause would be remanded to the tribunals of the Patent Office for further consideration.

2. PATENTABILITY—AIRCRAFT ENGINE.

Claims 18, 19, and 20 of appellants' application relating to mechanism for synchronizing the speeds of a plurality of aircraft engines *Held* patentable over the prior art, but claim 17 thereof *Held* unpatentable.

APPEAL from the Patent Office. Modified and remanded.

Mr. Harris G. Luther (*Mr. James W. Colvin, Mr. H. Frank Weigand,* and *Mr. Edwin R. Hutchinson* of counsel) for Martin et al.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

HATFIELD, *J.:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims, Nos. 8 and 17 to 20, inclusive, in appellants' application for a patent for an alleged invention relating to a mechanism for synchronizing the speeds of a plurality of engines; e. g., a plurality of engines for airplanes.

Claims 17 and 18 are sufficiently illustrative of the appealed claims. They read:

17. Means for synchronizing the speeds of a plurality of aircraft engines driving controllable pitch propellers comprising, a pitch changing motor for each propeller, a power source for each motor, a power unit operable at a controlled speed, a number of elements equal to the number of engines to be synchronized driven by said power unit, a connection driven by each engine, a respective speed difference responsive control element operatively connected to each power unit driven element and to each engine driven connection, and means connecting each control element to said power source and directly to the respective pitch changing motor to render said control elements effective to control the pitch of the respective propellers in accordance with the magnitude and direction of speed differences between said power unit and the respective engines.

18. Means for synchronizing the speeds of a plurality of aircraft engines driving controllable pitch propellers comprising, a pitch changing motor for each propeller, a power source for each motor, a power unit operable at a controlled speed, a generator driven by said power unit, a synchronous motor for each engine to be synchronized driven by said generator, a driving connection on each of said engines, a respective speed difference responsive control element operatively connected to each synchronous motor and each respective engine driven connection, and means connecting each control element with a power source and directly with a respective pitch changing motor to render said control elements effective to control the pitch of the respective propellers in accordance with the magnitude and direction of the speed difference between said power unit and the respective engines.

The references are: O'Bryan, 801,394, Oct. 10, 1905; Salmon et al (British), 134,258, Oct. 30, 1919; Salvetti (Italian), 308,713, June 13, 1933; Ferris, 1,939,113, Dec. 12, 1933; Lauret (French), 762,114, Jan. 18, 1934; Caldwell et al., 2,026,814, Jan. 7, 1936; Berry, 2,066,819, Jan. 5, 1937; Moross, 2,087,291, July 20, 1937; Carlson, 2,104,582, Jan. 4, 1938; Martin, 2,105,089, Jan. 11, 1938; Martin, 2,135,190, Nov. 1, 1938; Martin, 2,144,429, Jan. 17, 1939; Caldwell et al., 2,174,717, Oct. 3, 1939.

Claim 8 was rejected by the Primary Examiner on the ground that it was readable only upon the form of the invention disclosed in Fig. 1 of appellants' application, the Examiner stating that as appellants had elected to prosecute claims to the specific form of the invention disclosed in Fig. 3 of their application and as no generic claim was allowed, appellants were not entitled to prosecute claim 8 in this application. That claim was not rejected on the prior art cited.

Although counsel for appellants contend that the other appealed claims, Nos. 17 to 20, inclusive, "include generic claims," and that should the court hold that they are patentable over the prior art cited the ground of rejection as to claim 8 would disappear, it is conceded by counsel that the question of the patentability of that claim is not before us. Accordingly, claim 8 will be given no further consideration.

Appellants' application, filed June 5, 1937, discloses a master engine and two so-called "slave" or "controlled" engines. The speeds of the controlled engines are synchronized with the speed of the master engine. The master engine is provided with a manual control by means of which the pilot increases or decreases the speed of the master engine, and the synchronizing system automatically synchronizes the speed of the controlled engines with that of the master engine. The propellers in appellants' apparatus have rotatable blades and means for controlling the pitch angle of such blades. The speed of each of the engines is increased or decreased by adjusting the pitch of the blades of its propeller, which is accomplished by admitting or releasing oil under pressure to the pitch changing motor in the propeller. The pitch of the propeller blades of the master engine is adjusted by an indirect manual control; that is, the master engine is provided with a speed regulating governor, and the governor is provided with a speed control mechanism which is associated with a manual control device. The master engine drives a generator which supplies electric current to two synchronous electric motors. One of the motors is adjacent one of the controlled engines and the other motor is adjacent the other controlled engine. The generator electrically drives the shafts of the two electric motors at the same speed as that at which it is driven by the master engine. Each of the controlled engines mechani-

cally drives a shaft, and each, as stated in the brief of counsel for appellants' is provided with a differential mechanism

"for comparing the speed of the shaft of the synchronous motor with that of the mechanically driven shaft * * * and to cause the pitch of the corresponding engine-driven propeller to change in one direction or the other when there is a difference in speed between the two shafts."

The control of the pitch changing motors in the propellers by the differential mechanism is direct, as distinguished from an indirect control by means of a speed regulating governor.

It is unnecessary that we here describe the differential mechanism or the benefits derived therefrom, that is, the prevention of "chattering" or "hunting," as it is pointed out in appellants' application, and it is conceded here by counsel for appellants, that such mechanism and the advantages thereof are fully disclosed in the reference patent to Caldwell et al., No. 2,026,814, issued to appellants January 7, 1936, on an application filed June 6, 1934, which patent is owned by the United Aircraft Corporation, the assignee of appellants' involved application. Counsel for appellants point out, however, that the Caldwell et al. patent discloses mechanism for controlling the speed of but a single engine; that although it discloses means for effecting direct control of the pitch changing motor of the propeller, it does not disclose the synchronizing of a slave or controlled engine or engines with a master engine; and that the motor disclosed in that patent is not a synchronous motor.

The basic references relied upon by the tribunals of the Patent Office are the patent to Caldwell et al., No. 2,026,814, hereinbefore referred to, and the patent to Martin (one of the appellants here) No. 2,105,089. The latter patent, which is owned by the assignee of appellants' involved application, issued January 11, 1938, on an application filed May 7, 1936, and relates to mechanism for synchronizing the speed of a plurality of slave or controlled engines with that of a master engine. The differential mechanisms disclosed in that patent are mechanically driven, rather than electrically driven as are those in the structure defined by appealed claims 18, 19, and 20. In appellants' apparatus, defined by claims 18 to 20, inclusive, an alternating current generator, driven by the master engine, electrically drives the shafts of the synchronous motors adjacent the controlled engines at the same speed as that at which it is driven by the master engine. The speed control of the master engine in the Martin reference patent is substantially the same as that disclosed in appellants' application; that is, it is manual and indirect, being controlled by a speed regulating governor. However, in the Martin patent the control of the pitch changing motors in the propellers of the controlled engines is also indirect; that is, the control is by means of speed regulating governors, whereas the control by the differential of the pitch changing motors in appellants' structure is direct.

It is stated in the Martin patent (No. 2,105,089) that by means of the patentee's arrangement, the governor of the controlled engine

"is manually adjusted until its speed is approximately the same as the speed of the [master] engine * * *. After this manual adjustment, *minor adjustments* to maintain the [controlled] engine * * * exactly in synchronism with the [master] engine * * * are effected automatically by the synchronizing unit [differential] * * * *." [Italics not quoted.]

It is clear from that patent that it was necessary in the patentee's arrangement to manually adjust the speed of the speed regulating governors of the controlled engines to approximately the same speed as that of the master engine; that only minor differences in speed between the controlled engines and the master engine could be automatically adjusted by the patentee's synchronizing differential unit; and that in order to prevent breakage of his apparatus, when the speed of the master engine and that of the controlled engines varied more than a predetermined amount, it was necessary, as stated by counsel for appellants, that the patentee provide his differential mechanism with a so-called "throw-out arrangement." The patentee's throw-out mechanism, which is somewhat complicated, need not be described here. It is sufficient to say that it is fully described in the patent, and is covered broadly by some of the patentee's claims.

Claim 17 was rejected by the Primary Examiner on the Martin patent, No. 2,105,089, hereinbefore explained. The Examiner pointed out in his statement to the Board that the pitch angle of the blades of the propellers in that patent are indirectly controlled by means of speed regulating governors, and that such a method of control is old in the art as disclosed in the reference patents to Salmon et al., Salvetti, and Lauret, and two other patents which need not be identified as they are not otherwise cited as references. The Examiner cited the patents to Martin, No. 2,135,190, and Caldwell et al., No. 2,174,717, as disclosing the "fluid actuated blade moving mechanism"; that is, the mechanism per se by means of which the pitch of the blades of a propeller are adjusted. No issue is raised here as to such disclosure, and the mechanism referred to need not be described.

With reference to claim 17, the Board of Appeals stated that if the indirect control of the pitch changing motors in the propellers by means of speed regulating governors, disclosed in the Martin patent (No. 2,105,089) and in the other patents referred to by the Primary Examiner, was unsatisfactory, it would be obvious to one skilled in the art to substitute therefor the direct control mechanism disclosed in the patent to Caldwell et al., No. 2,026,814. The Board did not discuss the reasons assigned by the Primary Examiner in his rejection of appealed claims 18, 19, and 20, but contented itself with the statement that if claim 17 was not allowable for the reasons assigned by the Board, there was nothing in the brief of counsel for appellants which convinced it that the details set forth in those claims involved more than an obvious expedient in view of the art relied upon by the Examiner. We return, therefore, to the Examiner's statement for the reasons assigned by him for the rejection of claims 18, 19, and 20.

Claims 18 and 19 were rejected by the Primary Examiner on the patent to Martin (No. 2,105,089) in view of either the patent to Moross or the patent to Carlson, the Examiner stating that it would not involve invention to substitute the electrical synchronizing unit, disclosed in each of the latter patents, for the mechanical synchronizing unit disclosed in the patent to Martin.

The patent to Moross relates to automatic synchronizing apparatus in which a synchronous electric motor is used for synchronizing the speed of a plurality of controlled engines with that of a master engine. The synchronous motor disclosed in that patent is not of the type defined by appealed claims 18, 19, and 20. There is no disclosure of a differential which could be utilized for synchronizing the speed of the shafts of synchronous motors with the speed of the shafts driven by the controlled engines to control the pitch of their propeller blades.

The Primary Examiner stated, however, that the synchronous motor disclosed in the Moross patent was the equivalent of appellants' synchronous motors which are operated by current from a generator driven by the master engine. The Examiner also pointed out that appellants' type of synchronous motor is old in the art, as disclosed in the reference patents to Martin (No. 2,144,149), O'Bryan, Ferris, Berry, and Carlson.

Claim 20 was rejected by the Primary Examiner on the patent to Caldwell et al. (No. 2,026,814) in view of the patent to O'Bryan, the Examiner stating that the only difference between the structure disclosed in the Caldwell et al. patent and that defined by claim 20 is that the motor of Caldwell et al. is not a synchronous motor and that it would not involve invention to provide the Caldwell et al. apparatus with synchronous motors of the type disclosed in the patent to O'Bryan.

Counsel for appellants point out in their brief that although the patents to O'Bryan, Berry, Moross, and Carlson disclose synchronizing motors, they do not disclose synchronous motors to operate differentials.

It may be stated here, however, that the patent to Ferris discloses a synchronizing motor to drive one arm of a differential to control the speed of paper machines, and that the patent to Martin (No. 2,144,429) discloses synchronous motors operatively connected with differential mechanisms.

According to the disclosure in their application, appellants have substituted the indirect control of the pitch of the propeller blades of the master engine, disclosed in the Martin patent (No. 2,105,089), for the direct control of the pitch of the propeller blades of the single engine, disclosed in the patent to Caldwell et al. (No. 2,026,814), and the direct control of the pitch of the propeller blades of the single engine in the Caldwell et al. structure for the indirect control of the pitch of the propeller blades of the controlled engines, disclosed in the Martin patent, and have employed an electrical drive, rather than the mechanical drive disclosed in the patent to Martin. By so doing, they achieved new and useful results; that is, automatic synchronization of the speeds of the controlled engines with the speed of the master engine, regardless of excessive variations in the speed of the master engine, without the use of the complicated throw-out system to prevent danger of breakage of parts, disclosed in the patent to Martin (No. 2,105,089), which controlled, automatically, only minor variations in speed between the master engine and the controlled engines. That such new and useful results were thus obtained by appellants, has not been questioned by the tribunals of the Patent Office, and that they are of vital importance, is so obvious as to require no discussion.

Although counsel for appellants have not distinguished in their brief the structure defined in claim 17 from that defined in claims 18, 19, and 20, it will be observed that claim 17 does not define a structure in which an electrical drive (called for by claims 18, 19, and 20) is employed instead of a mechanical drive. The difference between the structure defined in claim 17 and the apparatus disclosed in the Martin patent (No. 2,105,089) is that claim 17 calls for direct control of the pitch changing motors in the propellers of the controlled engines (hereinbefore explained), rather than indirect control by means of speed regulating governors, disclosed in the Martin patent. Accordingly, claim 17 does not accurately define appellants' contribution to the art, nor are we able to hold that the structure defined in that claim, the electrical drive not being included therein, would function in such manner as to overcome the disadvantages hereinbefore stated as being inherent in the structure disclosed in the Martin patent (No. 2,105,089). We are of opinion, therefore, that claim 17 was properly rejected by the tribunals of the Patent Office.

We are not unmindful of the fact that the various elements in appellants' combination defined in claims 18, 19, and 20 are old, and that the tribunals of the Patent Office were of opinion that it would be obvious to one skilled in the art to combine those elements, as appellants have done, and secure the new and useful results obtained by such a combination. However, as stated by counsel for appellants, the patentee Martin, one of appellants, was fully aware on May 6, 1936, when he filed his application which matured into Patent No. 2,105,089, of the direct control of the pitch changing motor in the single engine disclosed in the Caldwell et al. patent, No. 2,026,814 (Martin being one of the patentees), the application for which was filed June 6, 1934. Nevertheless, at that time it did not occur to the patentee Martin, who, we think it is fair to say, is one skilled in the art, to provide his structure with an electrical drive and the direct control of the pitch changing motors in the propellers of the controlled engines, and thus eliminate his elaborate throw-out system for preventing breakage of parts and obtain what he failed to obtain—automatic synchronization of the

speeds of the controlled engines with the speed of the master engine, regardless of excessive variations in the speed of the master engine. Furthermore, we find nothing in the prior art cited which suggests either appellants' combination, or the new and useful results obtained by such a combination. We are of opinion, therefore, that the combination defined by claims 18, 19, and 20 involves invention.

It should be understood that, in concluding that claim 17 is not patentable because it does not include the electrical drive called for by claims 18, 19, and 20, we are not holding that the mere substitution in the Martin patented device of an electrical drive for his mechanical drive involves invention. There is nothing of record to indicate that such a substitution would produce the beneficial results obtained by the combination defined in claims 18, 19, and 20. What we do hold is that the combination defined in claims 18, 19, and 20, which includes the electrical drive and the direct control of the pitch changing motors in the propellers of the controlled engines, produces new and useful results and is patentable over the prior art cited.

As hereinbefore stated, counsel for appellants state in their brief that claims 17 to 20, inclusive, include "generic claims"; that is, a claim or claims generic to the alleged invention defined in claim 8.

[1] We find nothing in the decisions of the tribunals of the Patent Office to indicate whether any of the claims hereinbefore held to be patentable over the references of record—18, 19, and 20—are generic. As stated in the brief of the Solicitor for the Patent Office, "The Examiner merely pointed out that no generic claim had been allowed." If any of those claims are generic, then, of course, appellants are entitled to prosecute appealed claim 8 in the application here involved. However, we do not pass upon that issue, preferring that it be disposed of, at least in the first instance, by the tribunals of the Patent Office in view of our decision holding claims 18, 19, and 20 to be patentable over the prior art.

[2] For the reasons stated, the decision of the Board of Appeals is modified, being reversed as to claims 18, 19, and 20 and affirmed as to claim 17, and, so far as claim 8 is concerned, the cause is remanded to the tribunals of the Patent Office for further consideration.

Modified and remanded.

U. S. Court of Customs and Patent Appeals

BARTSCH *v.* BAKER (No. 4638)

BAKER *v.* BARTSCH (No. 4639)

Nos. 4,638 and 4,639. Decided December 26, 1942. Petition for rehearing by Bartsch in Appeal No. 4,638 denied April 2, 1943

[— F.(2d) —]

1. INTERFERENCE—COUNTS—INTRODUCTORY PHRASE.

"We are not concerned here with the matter of appearance but solely with structure, and we are unable to discern any sound reason for holding that the introductory phrase of the counts, 'A dish for maintaining food at a desired temperature,' should be regarded as a limitation affecting the actual structure which the counts describe."

2. SAME—PRIORITY.

Evidence reviewed and *Held* that Bartsch, the senior party, reduced to practice the invention expressed in broad count 2 prior to the earliest activity alleged by Baker, the junior party, and that as to count 2, priority properly was awarded to Bartsch; but *Held* that the feature distinguishing narrow count 1 from said broad count 2 was derived by Bartsch from Baker through disclosure from Baker, the originator, and that as to count 1, priority properly was awarded to Baker.

APPEALS from the Patent Office. Affirmed.

Mr. Joshua R. H. Potts, Mr. Eugene V. Clarke and *Mr. Basel H. Brune* for Bartsch.

Mr. S. Warwick Keegin, (*Messrs. Semmes, Keegin, Beale & Semmes* of counsel) for Baker.

GARRETT, *P. J.*:

These cases (consolidated below and disposed of in single decisions by the respective tribunals of the Patent Office) present appeals from the decision of the Board of Appeals affirming that of the Examiner of Interferences in an interference declared by the Primary Examiner which, in its final form, involved two counts reading as follows:

1. A dish for maintaining food at a desired temperature comprising a body of pottery or like material having an annular upper surface, a side wall and a base, a metallic fluid container attached to the pottery body to form a fluid retaining cavity, an annular ridge on the outside of the pottery body below the upper surface, the upper edge of said metallic fluid container being crimped over the annular ridge so that it lies below the upper surface and forms a tight fit with the pottery body out of normal contact with food during use and serving to maintain the container and pottery body in assembled position, said annular upper surface of the body having a filling opening therethrough adapted to be closed in use.

2. A dish for maintaining food at a desired temperature comprising a body of pottery or like material having an annular upper surface, a side wall and a base, a metallic fluid container attached to the pottery body to form a fluid retaining cavity, an annular ridge on the outside of the pottery body below the upper surface, the upper edge of said metallic fluid container being crimped over the annular ridge so that it lies below the upper surface and forms a tight fit with the pottery body out of normal contact with food during use and serving to maintain the container and pottery body in assembled position, said fluid retaining cavity having a filling opening adapted to be closed in use.

The decision appealed from awarded priority as to count 1 to the party Baker, and the party Bartsch appealed as to that award. Priority as to count 2 was awarded to the party Bartsch, and the party Baker appealed as to that award.

The interference was declared between applications. The application of Bartsch (Serial No. 237,569) was filed October 28, 1938. The application of Baker (Serial No. 242,409) was filed November 25, 1938. So, the burden rested upon Baker as the junior party to establish priority by a preponderance of the evidence.

It may be said that count 1 was suggested to the parties by the Examiner under Patent Office rule No. 96, while count 2 was suggested by the party Bartsch.

The following descriptive matter is quoted from the decision of the Examiner of Interferences:

This interference relates to a dish for maintaining food at a desired temperature. The type of dish disclosed in the applications of the parties consists of a food containing part set into and sealed to a metal jacket in such manner that a cavity is provided between the food containing part and the jacket. A suitable opening leading into the cavity and a closure member therefor permit filling the cavity with hot water for supplying heat to food placed in the food containing part, and closing the opening when the dish is in use.

The devices disclosed in the involved applications of the parties are "baby dishes" or dishes designed to be used in feeding babies or small children, but the counts are not limited to dishes of that type. The party Bartsch, therefore, has taken considerable testimony with respect to the making, testing, and selling of a number of different types of utensils which have certain features in common with the devices disclosed in the applications, but which are not designed for use as baby dishes. None of the testimony introduced for this purpose has been attacked by the party Baker in respect to its probative force, and certain facts are deemed to be so clearly established thereby as to require no extended discussion.

It will be observed that count 1 contains a limitation reading "said annular upper surface of the body having a filling opening therethrough adapted to be closed in use," and count 2 contains the limitation "said fluid retaining cavity having a filling opening adapted to be closed in use." Since the location of the filling opening, as stated in count 2, is not confined to the annular upper surface of the food containing part that count obviously is broader that count 1.

Both parties took testimony and the evidence introduced includes numerous documentary and physical exhibits so that the record in the case is quite voluminous. It was reviewed at length by both the Examiner of Interferences and the Board. Notwithstanding the extensive record, the issues, in the final analysis, are comparatively simple and, under the view which we take of the case, it is not necessary for us to set forth an extensive review of the evidence.

It will be conducive to clearness, however, to state, at this point, something of the background of the respective parties. During the period here pertinent the party Baker was sales promotion manager for Gerber Products Company (to which his application is assigned), a company engaged in the manufacture and sale of foods, particularly foods for infants and small children. It appears that it was the practice of the company to offer premiums to purchasers as an incentive to promoting sales, and the party Baker in 1937, or at least by 1938, became interested in the development of a dish for premium purposes in which such foods might be maintained at a desired temperature. His activities in this regard will be later discussed in more detail.

The party Bartsch was engaged in the manufacture of articles of aluminum ware, such as a specially designed pie plate, a whistling teakettle, an aluminum milk warmer, etc., and in 1937 he manufactured certain beverage warmers for a concern known as the KrimKo Company. Exhibits illustrative of such articles were placed in evidence. The first meeting between Baker and Bartsch seems to have taken place in August 1938 when the latter visited the former at his place of business seeking to interest him in a device or devices for premium use. Such details relating to this occurrence as are necessary will be set forth hereinafter.

At the hearing the question of originality was raised by both parties as to count 1 and the tribunals below agreed in holding that the feature of that count expressed in the limitation relative to the opening through which the fluid is introduced into the cavity between the pottery body and the metal part being located in the annular upper surface of the pottery body, was the conception of the party Baker and that the party Bartsch derived the same from him.

This holding upon the question of originality was limited to count 1, and it was held by both tribunals that, as expressed by the Board:

• • • if it should be decided that Baker did not disclose to Bartsch the real essence of count 1, then priority should be awarded to Bartsch on the ground that although Baker might be held the first to conceive this count, he would be the last to reduce to practice and there is no satisfactory showing of diligence.

As to the broader count (No. 2) both tribunals, under the construction which they placed upon it, held that the party Bartsch had reduced the invention therein described to practice prior to the earliest activity claimed by the party Baker. The holding was based upon the production by Bartsch of devices illustrated by Bartsch's Exhibits 1, 3, 7, and 14 (frequently referred to in the record as "KrimKo cookers"), during the year 1937. The Examiner of Interferences stated:

The various structural limitations of count 2 are fully supported by Bartsch Exhibits 1, 3, 7, and 14, and it must be concluded, therefore, that Bartsch reduced the invention of count 2 to practice at least by the end of 1937. This date is prior to the earliest date alleged in Baker's preliminary statements, and Bartsch is, therefore, entitled to prevail as to count 2.

The contention made on behalf of the party Baker with respect to count 2, which most logically may be first considered, is that the introductory phrase "A dish," etc., is a material limitation, and that the devices manufactured and marketed by the party Bartsch in 1937 do not support count 2. Specifically it is urged (we quote from the Baker brief)

"that none of these exhibits constitutes 'a dish' or a 'dish for maintaining food at a desired temperature' within the meaning of that language as set forth in count 2."

It is claimed, first, that the devices fail to meet the dictionary definition of the word "dish" and, second, that (we again quote from the Baker brief), "The testimony taken on behalf of Bartsch definitely establishes that the KrimKo cooker is not a dish." Hence, it is contended that the manufacture of those articles did not constitute a reduction to practice by Bartsch of the invention described in count 2.

Neither of the tribunals below gave detailed description of any of the physical exhibits introduced. As we understand it, an article introduced as Bartsch's Exhibit 59 is agreed to conform to the provisions of count 1. This seems to have been completed by Bartsch the latter part of September 1938. It consists of a cylindrical pottery part about 7½ inches in diameter having sloping sides and a depth of approximately an inch and a half. It is sealed in a cylindrical metal container, a cavity being left between the pottery and metal parts, and has an opening in the upper portion of the surface of the pottery element which is closed by a cork attached to a metal cap or top.

Bartsch's Exhibit 14 is apparently typical of the other three exhibits (1, 3, and 7) and may be

taken for purposes of comparison. It consists of a cylindrical enameled metal vessel about 4 inches in diameter and 5½ inches in depth sealed in a metal jacket, the jacket having an opening about an inch below its top through which fluid may be introduced to fill the cavity left between the bottom of the enameled part and the bottom of the jacket part. The opening is made in the top of a short spout and a metal cap is provided for closing the opening.

From the foregoing descriptions it is obvious that in shape and appearance Exhibits 1, 3, 7, and 14 differ greatly from Exhibit 59, and it may be conceded that the former exhibits would not be thought of as "baby dishes," while the latter from its appearance and conformation would be regarded as a "baby dish," but, as has been said, neither of the counts is limited to a baby dish, and neither of them is limited as to dimensions. The Examiner of Interferences said:

> The counts call for "a dish for maintaining food at a desired temperature." The term "dish," as used in the counts, is believed to be broad enough to include such devices as Bartsch Exhibits 1, 3, 7, and 14, for such devices are adapted to be used for the very purpose recited in the claims, and would be made with varying structural proportions depending upon the particular type of food to be warmed or maintained warm therein. From the functional point of view, such devices and the baby plates disclosed in the applications of the parties, may both be considered as utensils for the same general purpose. Considering all factors, it is not believed justifiable to construe the introductory phrase of these counts so narrowly as to exclude devices like Bartsch Exhibits 1, 3, 7, and 14.

This holding was approved by the Board, and we are not convinced that it was erroneous.

[1] The dictionary definitions and the testimony cited by counsel for the party Baker, to which we alluded above, have been fully considered by us. As of course, we are not concerned here with the matter of appearance but solely with structure, and we are unable to discern any sound reason for holding that the introductory phrase of the counts, "A dish for maintaining food at a desired temperature," should be regarded as a limitation affecting the actual structure which the counts describe.

The decisions below, awarding priority as to count 1 to the party Baker, as already has been indicated, were predicated solely upon the question of originality, it being held that locating the opening for the introduction of fluid into the cavity on the annular upper surface of the food containing part of the device was conceived by the party Baker and by him disclosed to the party Bartsch in August 1938. This holding is attacked by counsel for Bartsch, it being claimed that the feature was, in fact, conceived by Bartsch and by him disclosed to Baker.

Obviously, the first inquiry to be made is whether the evidence supports the holding as to Baker's conception of the feature under discussion. If he did not conceive it he could not have disclosed it.

In the decision of the Examiner of Interferences the evidence upon which he based his holding (approved by the Board) that Baker is shown to have established conception of that feature and disclosure thereof to certain of his business associates at least as early as June 15, 1938, is carefully reviewed. It is unnecessary to repeat that review here. We have examined the evidence in detail and are of opinion that it fully sustains the conclusion which the tribunals reached. In other words, we think it was established by the evidence (although it consisted wholly of oral testimony) that Baker, at least as early as June 15, 1938, had conceived the feature embraced in the limitation under discussion, and disclosed it to certain of his business associates.

The second query to be answered is whether the party Baker having conceived this feature made disclosure of his conception to the party Bartsch as was found by the tribunals below.

The evidence upon this point is meagre with respect to both parties. It consists almost wholly of their own oral testimony as to what was said during two interviews between them (no other persons being present) on August 5, 1938 and August 15, 1938, respectively, and, as stated by the tribunals below, this testimony is conflicting.

We quote the following from the decision of the Examiner of Interferences (omitting page references):

> The parties Baker and Bartsch met in the office of the former on August 5, 1938, at which time no other persons were present, and Bartsch attempted to interest Baker in some kind of premium for use in promoting the sales of the Gerber Products Company. At that time Bartsch had with him a warming pan like Bartsch Exhibit 67, which meets all the limitations of count 1 except that relating to the location of the filling opening for the warming fluid. There is no evidence that Bartsch, prior to this meeting, ever had a conception of a warming dish of the style of the baby dishes shown in the applications of the parties, or that he had a conception of locating the filling opening in the upper surface of the insert of any of his earlier devices.
>
> It appears from the testimony of both Baker and Bartsch that Baker was not interested in a device like Bartsch Exhibit 67, but that he displayed considerable interest in a similar device designed for use as a baby dish. Baker claims that he explained to Bartsch his ideas as to how such a dish should be constructed, with particular emphasis on the features set forth in the interference counts * * *. Bartsch, on the other hand, contends that he explained how he could redesign his Exhibit 67, by merely changing its proportions, so as to make a dish suitable for Baker's purposes, and he denied that Baker described any kind of a dish to him and mentioned only that the Gerber Products Company was considering an all pottery dish * * *. However, Bartsch admitted that Baker was the first to mention putting the filling opening in the top surface of the insert before he had a chance to explain in detail how he would handle that feature * * *.

The statement in the last sentence of the above quotation was based upon testimony given by the party Bartsch (during his direct examination) with respect to what was said during the interview on August 5, 1938. We here quote the questions and answers:

> Q. 943. During the conversation on your first talk with Mr. Baker, did Mr. Baker ask you anything about a hole?
>
> A. Yes, he did. Before I had a chance to mention in detail how I would handle that part of the device he asked whether the hole couldn't be put on the top?
>
> Q. 944. And what did you tell him? A. I told him nothing would be simpler than that if made in metal.

Counsel for the party Bartsch argue with great earnestness that the tribunals of the Patent Office gave undue weight to the foregoing testimony. In so doing they seem to have believed that the testimony was relied upon by those tribunals to establish conception on Baker'st part. We do not so understand the decisions. We understand that the testimony was cited not with reference to conception, but with reference to disclosure of the feature which already had been conceived. Upon that phase of the inquiry we think it was properly given weight.

It is certainly true that there is no evidence of record that the party Bartsch ever had a conception of locating the filling opening in the manner required by count 1 prior to his first interview with the partly Baker on August 5, 1938. It is equally true, in our opinion, that Baker did have a conception of so locating it prior to that time, and it seems a most natural conclusion that, having such conception in mind, Baker disclosed it to Bartsch.

We quote again from the decision of the Examiner of Interferences:

> In view of the fact that Baker had previously disclosed to others all the features of count 1 (including the location of the filling opening) as they should be employed in making a device of suitable baby dish proportions, it is not at all unlikely that he disclosed these same features to Bartsch. Bartsch, on the other hand, does not appear ever before to have contemplated making a baby dish. The devices in evidence which he had previously made were so constructed that the filling opening could not have been placed as required by count 1, and Bartsch admitted that Baker was the first to suggest placing the opening in the top surface of the insert. Considering this admission along with the other circumstances, it is held that Baker has clearly established disclosure to Bartsch of the only feature of count 1 which differentiates it from count 2 prior to any proved date of conception of that feature by Bartsch. It also seems clear that Baker had an understanding of all the other features of count 1 at the time he suggested the location for the filling opening, and that his suggestion was sufficient to enable one skilled in the art to embody the invention in operative physical form. Baker, therefore, must be held to be the originator of the invention of count 1 and entitled to prevail as to this count without proving reduction to practice prior to his filing date or diligence at any time.

The company with which Baker was associated was engaged solely in the manufacture and sale of foods of a particular kind. It was not engaged in, nor, so far as the record discloses, did it have any intention of engaging in, the manufacture of utensils to be used in connection with the serving of such foods. The party Bartsch was not engaged in the manufacture of foods, but in the manufacture of utensils which might contain foods. There was no industrial rivalry between the parties.

The record discloses that one of the reasons the officials of the Gerber Products Company desired a dish having an opening located as is provided in count 1 was for convenience in packing for transportation. Utensils having spout openings located in their sides, such as Exhibit 14 above described, could not be packaged as easily and neatly as those having an opening in the top, and we think it a reasonable surmise that this was one reason why the party Baker was not interested in the device illustrated by Bartsch's Exhibit 67 shown him at the interview of August 5, 1938. Another reason probably was that the general conformation of the article did not adapt it to use as a baby dish.

Another circumstance, or fact, to which, we think properly, some weight was attached in the decisions below was that upon the occasion of Bartsch's second visit to Baker on August 15, 1938, he carried with him only a baby dish of conventional design, not having the opening feature located as Baker desired, nor did he then display any drawing or sketch showing the manner in which he proposed to make up a dish which would meet the requirement of count 1. So far as we can determine from the record, no such drawing was made by, or for, Bartsch until early in September 1938.

Upon consideration of the evidence of record in the light of all the relevant circumstances, we are of opinion that the holding below upon the question of originality was proper, and that the decision should not be reversed as being against the weight of the evidence—the only ground upon which we could justify a reversal.

[2] The decision of the Board awarding priority to the party Baker as to count 1 and awarding priority to the party Bartsch as to count 2 is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

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1,687,510, M. Pipkin, Electric lamp bulb, D. C. N. J., Doc. E 5482, *General Electric Co.* v. *Jewel Incandescent Lamp Co. et al.* Judgment for defendants Jan. 8, 1943.

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1,911,249, F. E. Stover, Method and apparatus for incubation of eggs; 1,911,250, same, Incubator, C. C. A., 6th Cir., Doc. 9345, *The Petersime Incubator Co.* v. *The Bundy Incubator Co.* Decree affirmed Apr. 6, 1943.

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1,975,721, J. Hoza, Radio tube, D. C. N. J., Doc. 1124, *Driver-Harris Co.* v. *Baker & Co.* Dismissed Mar. 6, 1943.

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2,059,490, A. Reisig, Building unit, D. C. N. J., Doc. 431, *W. Reisig et al.* v. *Briktex, Inc.* Dismissed Mar. 31, 1943.

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2,117,300, J. Corser, Rock crushing machine, D. C., N. D. Iowa (Cedar Rapids), Doc. 63, *Diamond Iron Works, Inc.*, v. *Iowa Mfg. Co.* Dismissed on plaintiff's motion with prejudice Apr. 13, 1943.

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Disclaimers

1,848,822.—*Richard W. Burnett*, Chicago, Ill. HANDWHEEL. Patent dated March 8, 1932. Disclaimer filed April 12, 1943, by *Marie C. Burnett*, executrix of the estate of *Richard W. Burnett.*

Hereby enters this disclaimer to claims 1, 3, 4, and 5 in said specification.

1,871,825.—*Nelson K. Smith*, Los Angeles, Calif. ELEVATOR LATCH. Patent dated August 16, 1932. Disclaimer filed April 27, 1943, by the assignee, *Byron Jackson Co.*

Hereby enters this disclaimer to claims 1, 4, and 11 in said specification.

1,879,974.—*Richard W. Burnett*, Chicago, Ill. RAILWAY HAND BRAKE. Patent dated September 27, 1932. Disclaimer filed April 12, 1943, by *Marie C. Burnett*, executrix of the estate of *Richard W. Burnett.*

Hereby enters this disclaimer to claims 1, 2, 3, 11, 12, and 13 in said specification.

1,911,057.—*Richard W. Burnett*, Chicago, Ill. WINDING DRUM FOR RAILWAY CAR HAND BRAKES. Patent dated May 23, 1933. Disclaimer filed April 12, 1943, by *Marie C. Burnett*, executrix of the estate of *Richard W. Burnett.*

Hereby enters this disclaimer to claims 3, 4, and 5 in said specification.

1,963,115.—*Richard W. Burnett*, Chicago, Ill. RELEASING AND HOLDING MEANS FOR CAR HAND BRAKES. Patent dated June 19, 1934. Disclaimer filed April 12, 1943, by *Marie C. Burnett*, executrix of the estate of *Richard W. Burnett.*

Hereby enters this disclaimer to claim 12 in said specification.

2,054,651.—*Richard W. Burnett*, Chicago, Ill. HAND BRAKE MECHANISM. Patent dated September 15, 1936. Disclaimer filed April 12, 1943, by *Marie C. Burnett*, executrix of the estate of *Richard W. Burnett.*

Hereby enters this disclaimer to claims 1, 3, 4, 5, 7, 8, 9, 10, 11, 14, 15, 18, 19, 21, 23, 24, 25, 26, 27, 28, and 29 in said specification.

Changes in Classification

Order No. 3,720, April 23, 1943, directs:

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In *class 40, Card, Picture, and Sign Exhibiting* (Division 35), establish the following subclass and definition:

Signs
Illuminated
134.1 Combined lamp and sign structure

134.1 Electric lamps formed into the shape of indicia, or having the indicia formed on or within the envelope or bulb of the lamp, and the electric systems for such lamps.

(1) Note.—The filament or electrodes of the lamp may be formed into the shape of indicia.

Search Classes—
176—ELECTRIC LAMPS, for electric lamps, per se.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, for miscellaneous electric lamp systems.

The patents placed in this subclass have been taken for the most part from class 40, Card, Picture, and Sign Exhibiting, subclass 130, and from class 176, Electric Lamps, subclass 14, abolished in this order.

In *class 175, Electricity—General Applications* (Divisions 48 and 54), abolish the following subclasses:

312 **Lamp-dimmer systems**
354 **Vapor electric devices.**

In *class 176, Electric Lamps* (Division 54), abolish the following subclasses:

8 **Systems**
9 Combined,
10 Incandescent
11 Pyroelectric,
12 Arc
13 Liquid electrode.
14 **Display.**
Incandescent
Pyroelectric
18 Lamp circuits,
19 Circuit controlling structure
20 Automatic,
23 Transformer lamps,
24 Automatic switches and cut-outs
25 Electromagnetic,
Multiple-filament lamps
27 Switch,
Bases, terminals and bulb holders
33 Switch,
Arc
53 Alternating current,
Gas and vapor
124 Special current supply,

The patents contained in these subclasses in classes 175, Electricity—General Applications, and 176, Electric Lamps, have been placed for the most part in class 315, Electric Lamp and Discharge Devices, Systems, established in this order, excepting the patents in subclass 14 of class 176 which have been placed for the most part in class 40, Card, Picture, and Sign Exhibiting, subclass 134.1, established in this order.

In *class 13, Electric Furnaces* (Division 60), subclass 9, in note (3), under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for systems for supplying electric current to arc discharge devices and other discharge devices of the gas or vapor ionization type. Class 315 provides for such systems even though the discharge device is stated to be an electric arc furnace, provided that the claims are not otherwise limited by claimed subject matter to the electric furnace art.;

in subclass 11, add:

Search Classes—
176—ELECTRIC LAMPS, subclass 118, for electric arc lamps provided with electromagnets or other means for deflecting the arc.
314—ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES, subclass 20, for consumable electrodes electric discharge devices provided with discharge deflecting means, and the electric systems therefor.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclasses 111 and 344, for systems for supplying electric current to electric space discharge devices of the gas or vapor ionization type which are provided with discharge deflecting means.;

in subclass 12, cancel the existing note and substitute:

Search Classes—
171—ELECTRICITY—GENERATION, the subclasses indented under the title "Regulators" and subclass 312, for miscellaneous automatic regulating systems.
219—ELECTRIC HEATING, subclasses 7 and indented subclasses, 14 and indented subclasses, for arc welding and heating systems provided with regulating means.
314—ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES, appropriate subclasses, especially subclass 135, for systems for supplying electric energy to consumable electrode space discharge devices, (carbon arcs, etc.), which include a current regulating means.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 307 and indented subclasses, for systems for supplying electric energy to electric space discharge devices of the gas or vapor ionization type (arc devices, etc.), the system including automatic current regulating means.;

in subclass 13, add:

Search Class—
314—ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES, appropriate subclasses for consumable electrode discharge devices (carbon arcs, etc.) and the electric systems therefor, the discharge device being provided with automatically operating means to control the spacing between the discharge electrodes.

In *class 21, Preserving, Disinfecting, and Sterilizing* (Division 44), subclass 102, add:

Search Classes—
250—RADIANT ENERGY, subclass 27, for miscellaneous systems for supplying electrical energy to electric space discharge devices of the vacuum type.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses for miscellaneous systems for supplying electric energy to electric space discharge devices of the gas or vapor ionization type.

In *class 34, Drying and Gas or Vapor Contact with Solids* (Division 49), subclass 1, add:

Search Classes—
250—RADIANT ENERGY, subclass 27, for miscellaneous systems for supplying electrical energy to electric space discharge devices of the vacuum type.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for miscellaneous systems for supplying electric energy to electric space discharge devices of the gas or vapor ionization type.

In *class 40, Card, Picture, and Sign Exhibiting* (Division 35), subclass 130, under "Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses for electric systems for supplying electric energy to electric lamps.

In *class 84, Music* (Division 5), subclass 464, add:

Search Class—
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for electric systems for supplying electric energy to electric lamps.

In *class 99, Foods and Beverages* (Divisions 1 and 68), subclass 221, and subclass 253, add:

Search Classes—
250—RADIANT ENERGY, subclass 27, for miscellaneous systems for supplying electrical energy to electric space discharge devices of the vacuum type.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for miscellaneous systems for supplying electrical energy to electric space discharge devices of the gas or vapor ionization type.

In *class 123, Internal Combustion Engines* (Division 48), subclass 146.5, add:

Search Class—
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for electrical systems for supplying electric energy to electric space discharge devices of the arc or spark type. Merely claiming the spark or arc system as an ignition system will not exclude the system from class 315, provided that the claims are not otherwise limited by claimed subject matter to use with an internal combustion engine. Such systems which include a periodic switch driven by the engine for timing the spark with reference to the engine cycle are in this subclass (146.5) or the indented subclasses of this class (123). Merely calling the discharge device a "spark plug" will not exclude the patent from class 315. Note especially subclass 209 and indented subclasses of class 315, which provide for systems having a periodic switch in the supply circuit of the discharge device, and subclass 211 where the system includes a plurality of discharge devices and a distributor switch for distributing the energy to the discharge devices in sequence.;

and in subclass 169, add the following note:

(3) Note.—Class 315, ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 32 and indented subclasses, for electric space discharge devices of the spark plug type and other electric space discharge devices which have combined therewith an electric circuit element, such as a resistance, inductance, or condenser, the discharge device and the circuit element being structurally united so as to form a unitary device.

In *class 161, Time Controlling Mechanism* (Division 61), main class definition, under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 360, for electric systems for supplying electric energy to electric lamps and/or electric space

discharge devices of the gas or vapor ionization type, the system including time controlled means for controlling the supply current to the lamp or discharge device.;

in subclass 11, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, provides for electric lamp systems which include a time controlled mechanism for controlling the operation of the electric lamp, such as, illuminating the lamp at a certain time.

In *class 174, Electricity—Conductors and Insulators* (Division 65), in note (6) to the main class definition, cancel the reference to class 176, Electric Lamps, and add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS.;

and in subclass 35, in note (4), under "Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 85, electric current and/or voltage supply systems for electric lamps and/or electric space discharge devices of the gas or vapor ionization type, which are provided with radiation shielding means for system.

In *class 176, Electric Lamps* (Division 54), cancel the main class definition and the definition of subclasses 1 and 2, and the notes thereto, and substitute:

CLASS 176.—ELECTRIC LAMPS

DEFINITIONS

Class

This class includes (1) devices for illuminating by electricity, including generators of visible and invisible radiations, such as ultra-violet ray generators; (2) apparatus and methods exclusively adapted for making and repairing lamps and parts thereof.

NOTES

Search Classes—

9—BOATS AND BUOYS, subclass 8.3 for illuminated buoys.

21—PRESERVING, DISINFECTING, AND STERILIZING, subclass 120, for apparatus for generating or preparation of disinfecting agents or materials which include an electric light bulb to heat the receptacles for the material.

34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, subclass 88, for drying apparatus and apparatus for contacting gases or vapors with solids which are provided with electric lamp illuminating means.

40—CARD, PICTURE, AND SIGN EXHIBITING, subclasses 40, 77, and subclass 130 and indented subclasses, for illuminated signs and sign exhibiting apparatus.

43—FISHING, TRAPPING, AND VERMIN DESTROYING, subclasses 16, and 17, for fishing apparatus provided with illuminated signal means, subclass 44, for luminous artificial bait, and subclass 113, for illuminated traps.

46—AMUSEMENT DEVICES, TOYS, subclass 203, for illuminated wheeled toys.

58—HOROLOGY, subclass 50, for illuminated clocks.

73—MEASURING AND TESTING, subclass 293, for illuminated liquid level and depth gages, subclass 339, and indented subclasses, for illuminated thermometers.

84—MUSIC, subclass 464, for music instruments combined with means to produce color or light effects.

88—OPTICS, subclass 14, and indented subclasses, for illuminated optical testing instruments, subclass 16 and indented subclasses, for motion picture apparatus, subclass 24 and indented subclasses, for illuminated projecting apparatus (photographic enlargers, magic lanterns), subclass 71, for periscopes combined with illuminating means.

116—SIGNALS AND INDICATORS, subclasses 48, 49, and 54, for illuminated mechanical signals to indicate the motion or any change in the motion of a vehicle, subclass 124.4, for illuminated radio tuning dials.

128—SURGERY, for illuminated diagnostic apparatus, **search subclass** 6 and indented subclasses, for endoscopes, subclass 11, for pharyngoscopes, subclass 13, for non-pivoted gags, subclass 16, for tongue depressors, subclass 18, for pivoted specula, subclass 21, for reflectors with lamps, subclass 23, for other illuminated diagnostic apparatus not otherwise classified; for other surgical apparatus provided with a lamp for illumination or a lamp or discharge device for generating ray energy, such as ultra-violet light, **search subclass** 24.1 and indented subclasses, for kinesitherapy devices, subclass 68.1, for orthopedic devices, subclass 82.1, for bandaging apparatus, subclass 172.1, for medicating apparatus, subclass 275.1, for receptors, subclass 303.10, for surgical instruments, subclass 362, and indented subclasses, for other surgical apparatus, especially subclass 365, for bathing apparatus, subclass 371, for cabinets and subclass 395 and indented subclasses.

173—ELECTRICITY—CONNECTORS, appropriate subclasses, for lamp sockets.

177—ELECTRIC SIGNALING, appropriate subclasses, for electric signal devices provided with electric lamps, and subclass 346 and indented subclasses, for display signs and devices provided with electric lamps.

179—TELEPHONY, subclass 100.3, for apparatus and systems including electric lamps for electrically recording or reproducing photographic sound records.

200—ELECTRICITY—CIRCUIT MAKERS AND BREAKERS, subclass 167, for electric switches having combined therewith an electric lamp to be used as a switch indicator.

201—RESISTANCES AND RHEOSTATS for such structures.

209—CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS, subclass 111, for classifying, separating, and assorting apparatus which are provided with illuminating means and means for assorting articles according to color.

219—ELECTRIC HEATING, subclass 45, for electric heaters provided with an incandescent lamp for the heating means.

230—GAS PUMPS AND FANS, subclass 249.5, for fans combined with illuminating devices.

232—DEPOSIT AND COLLECTION RECEPTACLES, subclass 13, for illuminated fare boxes.

240—ILLUMINATION, for the structure provided for in this class (176) combined with means for modifying or distributing the light, such as reflectors or refractors (except incandescent lamps with reflectors or refractors within or as an integral part of a lamp bulb), or when combined with means for support or protection of the light generator. Class 240 is also the generic class for combination of illuminators with other structures. Class 240 also takes systems of supply when the lamp as claimed is limited as above.

246—RAILWAY SWITCHES AND SIGNALS, subclass 473 and indented subclasses, particularly subclass 483 for illuminated railway signals.

250—RADIANT ENERGY, for miscellaneous systems and structures for this purpose, see particularly subclass:

27.5 and indented subclasses for electric discharge device structures, not lamps;

43 and indented subclasses for fluent material treating apparatus using radiant energy (ultra-violet, et cetera), generating lamps for subjecting fluent material to radiant energy rays;

50 and indented subclasses, for apparatus using radiant energy rays (ultra-violet, et cetera), generating lamps for subjecting articles and objects to radiant energy rays;

84 for radiant energy ray generating apparatus not otherwise classified, including X-ray and other generators in combination with ray distributing means, generator protecting means, or supporting means.

273—AMUSEMENT DEVICES, GAMES, subclass 101.1, for amusement devices of the target-aerial projectile type wherein a light ray is used as the projectile.

299—FLUID SPRINKLING, SPRAYING, AND DIFFUSING, subclass 4, for ornamented illuminated fountains.

314—ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES, for arc and other electric discharge lamps which are provided with at least one electrode formed of and/or containing a solid material which is consumed during the operation of the discharge device, and the circuits for supplying electric current thereto.

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, for systems for supplying electric energy to electric lamps. It is specially noted that subclass 32 and indented subclasses have lamps, structurally combined with an electric circuit element, such as an impedance or switch.

Subclasses

1. Inventions within the class definition not otherwise classifiable.

2. Inventions for the removal of gases or vapors from lamp bulbs or tubes and for charging the same with gases or vapors. Includes also the driving off of occluded gases in filaments and leading-in wires. Includes arrangement of lamps for facility in exhausting.

Search this class, subclasses—

4—for apparatus for flashing filaments.

16—for incandescent lamps containing a particular gas or gas-absorbing or emitting material; 36, and 37, for incandescent lamps provided with means for exhausting through the seal, and where through other parts of the globe, subclass 16. For gas and vapor electric lamps provided with means for admitting gas thereto or withdrawing gas therefrom, **search subclass** 125.

Search Classes—

175—ELECTRICITY, GENERAL APPLICATIONS, subclass 314, for similar inventions in the production of X-ray tubes.

220—METALLIC RECEPTACLES, for inventions in the general production of vacua in vessels, even though a particular degree of vacuum is desired.

250—RADIANT ENERGY, subclass 27.5 for methods and apparatus for evacuating or charging with gas or vapor miscellaneous electric discharge devices.;

in subclass 16, under "Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for systems for supplying electric energy to incandescent lamps and subclass 32 and indented subclasses, for the incandescent lamps which have structurally combined therewith an electric circuit device, such as an electric switch, or transformer, so as to form a unitary device.;

in subclass 26, under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 64 and indented subclasses, for multiple filament lamps having structurally combined therewith an electric circuit element, such as an electric switch, and the appropriate subclasses of that class, for electric systems for supplying electric energy to multiple filament lamps.;

in subclass 32, under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 32 and indented subclasses, for electric lamps having an electric circuit element, such as an electric switch combined with the lamp. The switch is often mounted in the lamp base.;

in subclass 41, under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for systems for supplying electric energy to arc lamps.;

in subclass 42, under "(3) Search Classes", in the reference to class 175, cancel "subclasses 354, for vapor electric devices not suitable for use as lamps, and" and substitute *subclass*; in subclass 45, cancel the existing definition and the note, and substitute:

45. Liquid electrode lamps under subclass 42, which are provided with auxiliary means for starting the arc between the discharge electrodes.

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for systems for supplying electrical energy to liquid electrode lamps during the starting and operating periods, especially subclass 289 and indented subclasses, where the system includes means for generating a surge of potential during the starting period, subclass 327 and indented subclasses, where the electrodes are in contact with each other during the starting, and subclass 330 and indented subclasses, 335 and indented subclasses, where the lamp is provided with an auxiliary starting electrode.;

in subclass 47, add the following note:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 327 and indented subclasses, for the systems for supplying electric current to lamps of this type during the starting period.;

in subclass 48, add the following note:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 328 for the systems for supplying electrical energy to lamps of this type during the starting period.;

in subclass 49, add the following note:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclasses 261 and indented subclasses, 330 and indented subclasses, 335 and indented subclasses, for the systems for supplying electric energy to lamps of this type during the starting period.;

in subclass 118, add the following note:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, for electrical systems for supplying electrical energy to arc lamps, subclass 111, where the arc is subjected to a fluent material for deflecting the arc and subclasses 236, 267, and 344 and indented subclasses, where the arc is subjected to the influence of a magnetic field.;

in subclass 122, add the following note:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, especially subclass 326 and indented subclasses, for the systems for supplying electric energy to lamps of this type.;

in subclass 125, in note (2), under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 108, for miscellaneous electrical systems, for regulating the gas or vapor pressure in electric space discharge devices (including lamps), and for systems for supplying electrical energy to electric space discharge devices, the discharge device being provided with gas or vapor pressure regulating means.

In *class 178, Telegraphy* (Divisions 16 and 65), subclass 6, under "(3) Search Classes", in the reference to class 176, Electric Lamps, cancel the words "and electric supply systems" and add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for systems for supplying electric current and/or potential to electric lamps and/or discharge devices of the gas or vapor ionization type.;

in subclass 6.8, add:

(6) Note.—See class 315, ELECTRIC LAMP, AND DISCHARGE DEVICES, SYSTEMS, subclass 1 and indented subclasses for electric systems for supplying current and/or potential to cathode ray tubes.;

in subclass 7.2, add the following note:

Note.—See the notes under subclass 6.8 of this class.;

in subclass 7.7, under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 1 and indented subclasses, for electric systems for supplying current and/or potential to cathode ray tubes, note especially subclasses 7, 18 and indented subclasses, for such systems where the cathode ray tube is provided with means for deflecting or sweeping the ray. For the line between subclass 1 and indented subclasses of class 315 and this class, see the notes to subclass 1 of class 315. See subclasses 249, 345 of class 315, for systems for supplying electric current to discharge devices which have rod-like or wire electrodes, the discharge between the electrodes being designed to traverse the electrodes along their length so as to form a scanning source of light. See subclass 249, where the scanning is caused by means of antinodes of alternating potential, and subclass 345, where the scanning is caused by a magnetic field. For the line between subclasses 249 and 345 of class 315 and this class, see the notes to the class definition of class 315.;

in subclass 44, under "(2) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 4, and indented subclasses, for cathode ray tubes combined with an inductive impedance or a resonator all of which are structurally combined to form a unitary device, and subclass 39, for electric discharge devices which are structurally combined with a wave guide, coaxial cable or resonant parallel wire transmission line so as to form a unitary device.;

in subclass 69.5, under "Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclasses 7, 18 and indented subclasses, for cathode ray tubes provided with ray deflecting means in combination with means for supplying current and/or potential to the ray deflecting means, note especially subclass 23 and indented subclasses, where the system is designed to deflect the cathode ray in a plurality of different planes of deflection. For the line between subclass 1 and indented subclasses of class 315, which include subclasses 7, 18 and indented subclasses and this subclass, see the notes to subclass 1.

In *class 183, Gas Separation* (Division 32), subclass 7, cancel the existing note (1) and add:

Search Classes—

204—CHEMISTRY, ELECTRICAL AND WAVE ENERGY, subclasses 186 and 302 and their indented subclasses, for similar processes and apparatus for the electrical separation or purification of liquids.

250—RADIANT ENERGY, subclass 27, for miscellaneous systems for supplying electrical energy to electric space discharge devices of the vacuum type.

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for miscellaneous systems for supplying electrical energy to electric space discharge devices of the gas or vapor ionization type.

In *class 191, Electricity—Transmission to Vehicles* (Division 34), in subclass 2, in the note, cancel the reference to class 176, Electric Lamps; and in subclass 11, in the note, cancel the reference to class 176, Electric Lamps.

In *class 200, Electricity—Circuit Makers and Breakers* (Division 37), subclass 51, cancel note (3) and add:

Search Classes—

173—ELECTRICITY—CONNECTORS, particularly subclass 328 and indented subclasses for connector coupling structures, per se.

315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 459, and indented subclasses, for electric lamps and electric space discharge devices which have structurally combined therewith an electric switch, note especially subclasses 32, 47, 63, 64 and indented subclasses, subclasses 72, 73, and subclass 74 and its indented subclass.;

in subclass 51.06, cancel existing note (2), and substitute:

Search Class—

315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 64 and indented subclasses, for such devices claimed in combination with a multiple filament lamp.;

in subclass 52, under "Search Class", add:

Search Class—
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 76 and indented subclasses, for systems for supplying electric energy to lamps and/or electric space discharge devices of the gaseous ionization type, the system including an electric switch which is associated with a particular device (as a brake pedal), the switch being operated by the movement of some part of the device.;

in subclass 54, under "Search Class", add:

315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 84, for systems for supplying electric energy to lamps and/or electric space discharge devices of the gas or vapor ionization type, the system having a switch which is operated by the movement of a door or window sash.;

in subclass 59, add the following:

Search Class—
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 80 and indented subclass, for systems for supplying electric energy to lamp and/or electric space discharge devices of the gas or vapor ionization type the system including a switch which is operated by the movement of a vehicle controller (steering wheel, hand or foot lever).;

and in subclass 118, add the following:

Search Class—
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 74 and indented subclass, and subclass 119 and indented subclasses, for electric lamp and electric space discharge device systems, provided with automatic shunt circuit closing means.

In *class 204, Chemistry, Electrical and Wave Energy* (Division 56), subclass 298, add:

Search Class—
250—RADIANT ENERGY, subclass 27.5 and indented subclasses, for electric discharge devices, per se.;

in subclass 312, add:

Search Class—
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for systems for supplying electric energy to electric space discharge devices of the gas or vapor ionization type, note especially subclass 111, where the discharge device includes means to supply a fluent material to the discharge space;

and in subclass 323, cancel note (2) and substitute:

Search Classes—
13—ELECTRIC FURNACES, subclass 9 and indented subclasses for arc furnaces in general.
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses for systems for supplying electric energy to electric space discharge devices of the gas or vapor ionization type, note especially subclass 111, where the discharge device includes means to supply a fluent material to the discharge space.

In *class 209, Classifying, Separating, and Assorting Solids* (Division 25), subclass 81, cancel note (2) and substitute:

Search Classes—
175—ELECTRICITY, GENERAL APPLICATION, subclass 183, for miscellaneous electric testing.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 364 and indented subclasses, for systems, apparatus, and methods of testing electric lamps or electric space discharge devices which do not involve any means for automatically assorting the lamps or discharge devices.

In *class 219, Electric Heating* (Division 60), subclass 7, under "Search Class", add:

315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for systems for supplying electric current to electric space discharge devices of the gas or vapor ionization type, including arc discharge devices. Class 315 provides for such systems even though the discharge device is defined as an arc welder or heater, provided that the claims are not otherwise limited by claimed subject matter to the welding and/or heating art. Merely naming one of the electrodes as the material to be heated and/or welded will not exclude the patent from class 315, provided that the claims are directed only to the supply circuit for the discharge device and are not otherwise limited to the welding and/or heating art.;

and in subclass 14, under "(2) Search Class", add:

315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, and see the notes to subclass 7 of this class (219).

In *class 234, Recorders* (Division 41), subclass 61, cancel the existing note and substitute:

Search Classes—
171—ELECTRICITY—GENERATION, subclass 95, for galvanometer structure for oscillographs where no structure for making a permanent record is included.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 1 and indented subclasses for miscellaneous systems for supplying electric current and/or potential to cathode ray tubes.

In *class 240, Illumination* (Division 30), cancel the main class definition and notes and substitute:

CLASS 240.—ILLUMINATION

DEFINITIONS

Class

This class is limited to illumination by artificial light. It includes lighting systems, the protection and support of light sources or generators, and the distribution of light therefrom for illumination. Patents disclosing the light source as a generator of ultra-violet rays, where no means special to the generation, reflection or transmission of wave energy outside the visible spectrum are claimed are included. The mere naming of the ray generator as an ultra-violet ray generator in the claims is insufficient to exclude the patent from this class. It does not include the light source or generator per se, but does include the combination of a light source with a protector, support or distributor; such as lanterns, globes, chimneys and guards, artificial light distributors and modifiers, such as reflectors, refractors, and shades, and the supports and holders specially adapted thereto.

NOTES

(1) Note.—Light Sources, Generators and Systems: for the structure of the light source or generator, and the system of supply of fuel and/or electric energy thereto, where the features for this class (240) are not claimed, see the following classes, the definitions and notes thereto, setting forth further particulars as to the lines:
67, ILLUMINATING BURNERS, for those that burn fuel (liquid, gaseous or solid).
176, ELECTRIC LAMPS.
314, ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES.
315, ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS.

(2) Note.—Filters and Materials for filters for radiant energy rays: see class:
88, OPTICS, subclass 106 and indented subclasses, which constitute the generic place.
106, COMPOSITIONS, COATING OR PLASTIC, subclass 47 for glass compositions which are also filter compositions.
154, LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, subclass 2.70, for laminated glass structures which are also filters.
(3) Note.—Distribution of daylight for illumination: see class:
88, OPTICS, subclass 57.5, and indented subclasses, for building lights.
94, ROADS AND PAVEMENTS, subclass 34 and indented subclasses, for vault covers having daylight distributing means.

Search Classes—
40—CARD, PICTURE, AND SIGN EXHIBITING, particularly subclasses 40, 77, 130 through 133, for illuminating means associated with the subject matter of such class.
67—ILLUMINATING BURNERS—see note (1) above.
88—OPTICS, subclasses 16 and 24 and their indented subclasses, for motion picture and other projecting apparatus, and see also notes (2) and (3) above.
94—ROADS AND PAVEMENTS, see note (3) above.
106—COMPOSITIONS, COATING OR PLASTIC, see (2) note above.
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, see note (2) above.
272—AMUSEMENT AND EXERCISING DEVICES, subclass 8 and indented subclasses, particularly subclass 10, for illusion apparatus with illuminating means.
314—ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES, see note (1) above.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, see note (1) above.;

in subclass 2, note (2), under "Search Classes", add:

315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 76 and indented subclasses, for electric lamps, per se, in combination with the system for supplying electric current to the lamp, the system being limited to use with particular articles, devices or apparatus. In most of these systems in class 315, a circuit element in the system is combined with some part of a particular article, such as having an electric switch operated by a brake pedal or a door. Class 240 provides for such systems when the support protector, or light distributor for the lamp is claimed.;

in subclass 3, add the following:

Search Class—
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, especially subclasses 292, 293, and subclass 294 and indented subclasses and subclass 313 and indented subclasses, for the electric systems for controlling the illumination of the electric lamps used in stage and arena lighting.;

in subclass 5, note (2), under "Search Classes", add:

200—ELECTRICITY, CIRCUIT MAKERS AND BREAKERS, subclass 54, for door operated electric switches.
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 84, for electric lamp systems provided with a door operated circuit controller, such as a switch.;

in subclass 6.4, note (2), under "Search Classes", add:

315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 33, for miscellaneous portable self-contained devices which include an electric space discharge device or electric lamp and the circuit elements including the source of current supply which are necessary to operate the discharge device or lamp, and which are not otherwise provided for in other classes. Class 240 provides for all portable self-contained illuminating devices.;

in subclass 7.1, add the following:

Search Class—
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 77 and indented subclasses, for electric lamps, per se, in combination with the electric system for supplying current to the lamp, the system being limited to use with a vehicle. In most of the systems in class 315, a circuit element in the system is combined with some part of the vehicle, such as, for example, the brake pedal. Class 240 provides for such systems when the protector, support, or light distributor for the lamp is claimed.;

in subclass 7.6, add the following:

Search Class—
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 78, for electric lamps in combination with the system for supplying electric current to the lamp, the supply source being a generator which is driven by the rotation of a vehicle wheel. Class 240 provides for such subject matter when the support, protector, or light distributor for the lamp is claimed.;

in subclass 8.24, add the following:

Search Class—
315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 81, for electric lamps in combination with the electric supply system therefor, the system including a circuit controlling means which is operated by the steering mechanism of a vehicle. Class 240 provides for such subject matter when the support, protector, or light distributor is claimed.;

in subclass 8.41, add the following:

Search Class—
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 129 and indented subclasses, for electric lamp systems which include a signal, indicator, or alarm for indicating the condition of the lamp.;

in subclass 9, add the following:

Search Class—
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for electrical systems for supplying electric energy to a plurality of lamps, note especially subclass 335 and indented subclass. Class 240 provides for such systems when the physical arrangement of the lamps for illuminating effects is claimed.;

in subclass 10.5, under "(2) Search Classes", add:

315—ELECTRIC LAMPS AND DISCHARGE DEVICES, SYSTEMS, subclass 33, for miscellaneous portable self-contained devices which include an electric lamp or electric discharge device and the circuit elements including the source of current supply which are necessary to operate the lamp or discharge device, and which are not otherwise classified in other classes. Class 240 provides for all portable self-contained illuminating devices.;

in subclass 11.3, cancel note (2) and substitute:

Search Class—
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 119 and indented subclasses, for electric lamp systems provided with means for opening the circuit of the lamp or completing a shunt circuit about the lamp when the lamp fails to operate properly.;

in subclass 11.4, add:

Search Classes—
176—ELECTRIC LAMPS, subclasses 1, 41 and their indented subclasses, and subclass 122, for vapor and gas filled electric space discharge lamps, per se.
314—ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES, appropriate subclasses, for consumable electrode space discharge lamps (carbon arc lamp, et cetera) and the electric systems therefor.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for gas and vapor filled electric discharge lamps in combination with the electric circuits therefor.;

in subclass 37.1, add the following:

Search Class—
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 87, and subclass 88 and indented subclasses, for electric lamp and electric space discharge device systems provided with means to substitute another lamp or electric space discharge device for the operating lamp or discharge device if the operating lamp or discharge device fails to operate properly. Class 240 provides for such subject matter when the protector, support, or light distributor is claimed.;

in subclass 103, note (1), change "subclass 1" to *subclass 73 and indented subclass.*;

and in subclass 122, add the following:

Search Classes—
200—ELECTRICITY, CIRCUIT MAKERS AND BREAKERS, appropriate subclasses, for electric switches, especially subclass 51 and indented subclasses, for electric switches combined with a lamp socket or connector.
315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 32 and indented subclasses, for electric lamps having structurally combined therewith an electric switch, especially subclasses 32, 64 and their indented subclasses, subclasses 72, 73, and subclass 74 and its indented subclass, and subclass 362, for electric lamp systems which include a switch.

In *class 250, Radiant Energy* (Divisions 51 and 54), cancel the existing main class definition and notes and substitute:

CLASS 250.—RADIANT ENERGY

DEFINITIONS

Class

This class includes inventions, not otherwise provided for, involving the development of radiant energy, or the conversion of other forms of energy into a form particularly adapted for transmission through natural media, air, earth, or water; the transmission of such energy through such media, the reception of such energy, and the conversion of it into some other form.

This class is divided into the main subdivisions as follows:

(1) Miscellaneous instruments and methods dealing with radiant energy.

(2) Inventions relating to the operation and control of instrumentalities at a distance by energy, e. g., electromagnetic waves, transmitted through the natural media, including (*a*) means for the transmission of energy through the earth without the aid or guidance of wires; (*b*) radio-telegraphy, or wireless transmission of code signals, and (*c*) radio-telephony, or wireless transmission of spoken or other sounds.

(3) Inventions in the development, transmission and general utilization of radiant energy rays of any type, including Röntgen or X-rays, whether or not such rays are within the visible or invisible portions of the spectrum, or are electric oscillations, pulsations, projected electrons, or emanations, if utilized for the production of results, other than illumination, at a distance through the natural media, and if not otherwise provided for.

(4) Inventions limited to the development of electric oscillations such as are or may be employed in wireless transmission, radiant energy ray work, electro-medicine, or electro-surgery.

(5) This class is the generic class for systems for supplying electric current and/or potential to electric space discharge devices. This class also is the generic class for systems in which an electric space discharge device is provided to modify and/or control the current and/or potential in a circuit. Subclass 27, of this class is the miscellaneous subclass for such systems which are not otherwise classified.

(6) Electric space discharge devices, per se.

(7) Instruments and accessories peculiarly adapted to use in connection with the conversion and transmission of radiant energy generally and not otherwise classifiable.

(1) Note.—See class 204, CHEMISTRY, ELECTRICAL AND WAVE ENERGY, appropriate subclasses, for electrical or wave energy methods, including radiant energy methods, directed to the preparation of elements or compounds,

other than those involving chemical reactions which result merely from the thermal effects of the electrical or wave energy, and for apparatus specialized for carrying out such processes, other than radiant energy apparatus provided for in class 250.;

in subclass 1, under "Search Classes", in the reference to class 176, Electric Lamps, cancel the words "subclass 124; also" and under "Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for electric lamp systems, and systems for supplying electric current and/or potential to discharge devices of the gas or vapor ionization type, and subclass 32 and indented subclasses, for all electric space discharge devices which have electric circuit elements structurally combined therewith to form a unitary device.;

in subclass 2, cancel the existing definition (but not the notes) and substitute:

2. (1) Means for the transmission of energy for the control of apparatus mechanism at a distance; more particularly means for wireless transmission of electric energy for such purpose, wherein the structure of such controlled devices is not so specifically claimed as to involve a search in the class containing such devices, and (2) systems which are not otherwise classified in which an electric space discharge device is provided to modify and/or control the current and/or potential in a circuit and (3) systems which are not otherwise classified for supplying electric current and/or potential to electric space discharge devices.;

and add (0.5) Note:

(0.5) Note.—This and the indented subclasses include wireless-transmission systems with motors, steering mechanisms, igniting or exploding means, typewriter or printing mechanism, switches, signals, brakes, et cetera.;

also add (1.4) Note:

(1.4) Note.—Indented subclass 27 is the miscellaneous subclass for systems in which an electric space discharge device is provided to modify and/or control the current and/or potential in a circuit, and for systems for supplying electric current and/or potential to electric space discharge devices.;

under "(2) Search Classes" add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 34, for devices which include an electric space discharge device and an antenna structurally combined in a unitary device. Where the circuit elements are claimed which are not structurally combined in the unitary device, the patent is classified in this class (250) subclass 2 or the indented subclasses or with the particular art to which the claimed system belongs, but merely reciting the sources of potential for the discharge device will not exclude the patent from class 315, subclass 149 and indented subclasses for electric lamp and gas or vapor discharge device systems which are controlled by radiant energy transmitted from a distance.;

in subclass 16, in the definition, insert *Systems* before "Instruments"; in subclass 20, cancel the existing definition (but not the notes) and substitute:

20. (1) Receiving station apparatus by which the transmitted energy is detected or translated, (2) systems which are not otherwise classified in which an electric space discharge device is provided to modify and/or control the current and/or potential in a circuit, and (3) systems which are not otherwise classified for supplying electric current and/or potential to electric space discharge devices.;

and add the following notes:

(0.5) Note.—The receiving station apparatus usually comprises conventionally an aerial and a ground directly or loosely coupled to a circuit, including a suitable detector of energy associated with an impulse or wave translator of some type. Receivers are also included which omit aerials or grounds.

(1.5) Note.—Indented subclass 27 is the miscellaneous subclass for systems in which an electric space discharge device is provided for modifying and/or controlling the current and/or potential in a circuit and for systems for supplying electric current and/or potential to electric space discharge devices.;

in subclass 21, cancel the existing definition and substitute:

21. (1) Receivers having a particular type of wave responsive device or detector, (2) systems not otherwise classified in which an electric space discharge device is provided to modify and/or control the current and/or potential in a circuit, (3) systems which are not otherwise classified for supplying electric current and/or potential to electric space discharge devices, and (4) detectors, per se, which are not otherwise classified.

(1) Note.—Indented subclass 27 is the miscellaneous subclass for systems in which an electric space discharge device is provided for modifying and/or controlling the current and/or potential in a circuit and for systems for supplying electric current and/or potential to electric space discharge devices.

(2) Note.—Subclass 27.5 and indented subclasses of this class are the generic subclasses for electric space discharge devices.;

in subclass 27, cancel the existing definition and the note thereto and substitute:

27. (1) Receivers having detectors in which a gas, free or confined, is used operable upon the reception of electromagnetic waves to produce a signal, (2) miscellaneous systems not otherwise classified in which an electric space discharge device is provided to modify and/or control the current and/or potential in a circuit, and (3) miscellaneous systems which are not otherwise classified for supplying electric current and/or potential to electric space discharge devices.

(1) Note.—This subclass does not take electrical systems, other than receiver systems, which are provided with an electric space discharge device for controlling and/or modifying the current and/or potential supplied to a particular load device other than electric discharge devices. Such systems, where the load device is recited merely as a load device, are included in this subclass, but where the load device is specified as being a particular load device, the patent is classified with the art to which the system relates. For some of the classes which provide for such systems with a particular load device, see the notes below.

(2) Note.—**Search this class,** subclass 27.5 and indented subclasses, for electric space discharge devices, per se, and class 176, ELECTRIC LAMPS, appropriate subclasses, especially subclasses 1, 41 and their indented subclasses, 122 and indented subclasses, for electric space discharge lamps.

Search this class, subclasses—

2 to 15—for teledynamic systems and apparatus which are limited to use for particular purposes, such as the combination of wireless transmission with motors, steering mechanism, igniting or exploding means, typewriter or printing mechanism, et cetera, and which include electric space discharge device circuits as a part thereof, note especially subclass 3 and indented subclasses, for earth transmission, subclass 6 and indented subclass, for radio telephony, subclass 8 and indented subclasses for radio telegraphy.

17—and indented subclasses, for electric space discharge device circuits for modifying electric current from any source and producing periodic changes in its electric and/or magnetic components, thereby adapting it as an electric oscillation in electro-magnetic wave form for radiation, transmission through the natural media, or for reception, detection, or conversion at a receiving station.

20—and indented subclasses, for electric discharge circuits, for receiving transmitted radiant electromagnetic waves and such circuits as are analogous thereto.

27.5—(See note (2) above).

36—for miscellaneous electric discharge circuits for the production of electrical oscillations of general application.

41.5—for miscellaneous electric discharge device circuits whose operation is controlled by a photosensitive device in the circuit.

42—and indented subclasses, and the classes and subclasses in the notes to the definition of those subclasses, note especially the notes to subclasses 42, 43, 49.5, 50, 51, and 84; for methods and apparatus for treating materials, or objects, with electric space discharge, and for methods and apparatus for treating materials or objects with ray energy, such as ultra-violet rays or X-rays, which may be generated by an electric space discharge device.

93—and indented subclasses for systems for supplying electric current and potentials to X-ray tubes.

Search Classes—

84—MUSIC, subclass 1.01, for systems which include an electric space discharge device for generating and/or modifying electric currents and/or potentials in combination with, or intended for use with, means for converting the varying electric currents or potentials into sound vibrations for the productions of musical tones.

88—OPTICS, subclass 16.2, for sound producing apparatus which includes an electric space discharge device circuit in combination with motion picture apparatus.

128—SURGERY, subclass 422, for oscillation circuits which include an electric space discharge device for supplying electrical oscillations to therapeutic body electrodes.

171—ELECTRICITY—GENERATION, subclass 95, for electric space discharge device voltmeter circuits and cathode-ray oscilloscope circuits; subclass 97, for miscellaneous electric systems not otherwise classified and electric distribution systems which an electric space discharge device is a part thereof; the subclasses indented under the title "Regulators" and subclasses 312, 313, and 314, for miscellaneous systems of regulation which include electric space device means for controlling the regulating means, and miscellaneous regulating systems wherein an electric space discharge device is used as the regulator, the discharge device being controlled by some condition in the circuit to be regulated, note especially subclass 119, for miscellaneous alternating current regulators, indented subclass 241, for miscellaneous compound wound alternating current dynamo-electric devices with electric discharge device controlled regulating means, indented subclass 242, for saturable reactors having the saturation controlled by electric space discharge means; subclass 224, for systems having a plurality of dynamo-electric machines and provided with electric space discharge means to effect load division between the machines, subclass 225, for regulating systems having electric space discharge means for supplying a counter E. M. F., subclass 312, for miscellaneous automatic regulation, subclass 314, for systems provided with regulating means and having an electric space discharge device for supplying rectified current for battery charging; subclass 123, for rotary transformers controlled by electric space discharge means; subclass 320, for dynamo-electric machines provided with electric space discharge device commutating means.

172—ELECTRICITY—MOTIVE POWER, subclass 8 and indented subclasses, for electric space discharge device systems for controlling steering and propulsion apparatus; subclass 120 and indented subclasses, for miscellaneous alternating current motor systems which include an electric space discharge device, note especially indented subclass 274; subclass 152, for electric space discharge device controlled elevator systems, subclass 179, for hand operated systems for controlling motors, the system including an electric space discharge device, subclasses 237, and 239 for systems of the type provided for in these subclasses, which include an electric space discharge device; subclass 238, for electric space discharge systems used to control phase modification apparatus and such systems used for phase modification; subclass 240, for electric space discharge control circuits for reciprocating motors; subclass 245, for electric space discharge device systems used with phase indication apparatus; subclass 246, for electric space discharge device systems used to control phase regulation apparatus and such systems used for phase regulation; subclass 281, for electric space discharge device systems for controlling frequency changing apparatus and such systems used for frequency changers; subclass 288, for starting systems for dynamo-electric provided with electric space discharge means; subclass 292, for electric space discharge device systems for controlling synchronization.

175—ELECTRICITY—GENERAL APPLICATIONS, subclasses 30 and 294, for electric space discharge device lightning arrestor systems; subclass 182, for ore detector and geophysical exploration apparatus which includes an electric space discharge device system; subclass 183, for miscellaneous electrical testing systems which use electric space discharge devices, note especially indented subclass 368, for frequency testing; subclasses 320 and 375, for relays and electromagnetic switches which are controlled by electric space discharge device systems; subclass 363 and indented subclasses, for miscellaneous rectifying systems using an electric space discharge device as a rectifier or controlled by an electric discharge device; subclass 294, for miscellaneous systems of safety controlled by an electric space discharge device.

177—ELECTRIC SIGNALING, appropriate subclasses, for miscellaneous signal systems controlled by electric space discharge device circuits, note especially subclass 311, for alarm systems, 351, for telemetric systems, 352, for miscellaneous systems, 353, for selective systems, subclass 386, for submarine compressional wave systems.

178—TELEGRAPHY, appropriate subclasses, for telegraph systems and apparatus which include an electric space discharge means and for systems which include an electric space discharge device and which are useful telegraphy, telephony, or similar systems, note especially subclass 5 and indented subclasses for facsimile (television) systems, subclass 43, for space induction systems, subclass 44, for miscellaneous systems which include means for reducing and/or controlling alternation or distortion in conductors of considerable length such as are used in telegraph, telephone, and similar systems, the system including electric space discharge means, subclass 44, also includes electric discharge devices used with wave guides and hollow resonators, with filters and with other miscellaneous circuits useful in the communication art, subclass 66, for electric space discharge device systems used to generate alternating currents for the transmission of telegraphic messages, subclass 69.5, for synchronizer systems using electric space discharge means.

179—TELEPHONY, appropriate subclasses, for telephone systems using electric space discharge devices, especially, subclass 1.5, for secret systems, 2.5 for superaudible systems, subclass 82, for space induction systems, subclass 100.1 and indented subclasses, for electrical sound recording and reproducing systems and apparatus, subclass 170, for systems for repeating in a second circuit the currents flowing in another circuit and in either direction, 171, for systems for repeating in a single direction only the current flowing in another circuit including (amplifiers), indented subclass 171.5, for such systems used as modulators.

234—RECORDERS, subclass 1.5, for miscellaneous recorder systems, subclass 61, for oscillograph recorders, and subclass 64, for disruptive electric spark perforating recorders.

235—REGISTERS, subclass 92, for electrically operated registers.

246—RAILWAY SWITCHES AND SIGNALS, appropriate subclasses, for railway signalling systems, especially subclass 8, for inductive train telegraphy or telephony systems, subclass 30, for automatic block-signal systems, subclass 63, for inductive cab signal or train control block signalling systems.

314—ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES, appropriate subclasses, for consumable electrode discharge devices and such devices in combination with the systems for supplying electric current and/or potential to the device.

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 1 and indented subclasses for systems for supplying electric current and/or potential to cathode ray tubes, and appropriate subclasses, for systems for supplying electric current and/or potential to electric space discharge devices of the gas or vapor ionization type, subclass 32 and indented subclasses, for electric discharge devices of any type which have structurally combined therewith and in either or both the supply and/or output circuits an electric circuit element, subclass 50, for electric discharge devices of any type combined with means for heating and/or cooling the discharge device, the heating and/or cooling means being structurally combined with an electric circuit element or constituting an electric circuit element, subclass 86, for systems for supplying current and/or potential to electric discharge device having means for substituting another source of current or potential when the operating source fails to operate properly, subclass 88 and indented subclasses, for systems for supplying current and/or potential to a discharge device, the system including means to substitute another discharge device or lamp for the operating discharge device when the operating discharge fails to operate properly, subclass 94 for systems for supplying heating current to the cathode or cathode heater circuit of a discharge device, subclasses 117 and 118, for systems for supplying current and/or potential to a discharge device, the discharge device being provided with temperature modifying means, the system including either means to automatically control the temperature modifying means, or means controlled by the temperature modifying means to control the circuit of the discharge device. For the line between this class (250) and class 315, see the notes to the main class definition of class 315.;

in subclass 27.5, cancel note (3), and substitute:

(3) Note.—For systems in which an electric space discharge device is provided to modify and/or control the current and/or potential in a circuit, **search class** 250, RADIANT ENERGY, subclass 27 and the various classes referred to in the notes to the definition of that subclass, and for systems for supplying electric current and/or potential to electric space discharge devices, **search classes** 250, RADIANT ENERGY, subclass 27, and 315, ELECTRIC LAMP AND DISCHARGE DEVICES. SYSTEMS, appropriate subclasses.;

in subclass 36, under "Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, for systems for supplying currents and/or potentials to an electric space discharge device of the gas or vapor ionization type, or a lamp, in which the circuit is so arranged with respect to the dis-

charge devices or lamp that electric oscillations are produced in the circuit. Class 315 provides for all such circuits whether they are claimed as oscillation generators or merely supply circuits for a discharge device or lamp unless the claims include some subject matter, such as an output circuit, which limits the claimed system to use for producing electric oscillations. For the particular types of systems provided for in class 315, see the notes to the class definition of class 315. Note especially subclass 242 and the indented subclass and subclass 244 of class 315, which provide for systems which include an electric space discharge device such as a spark gap, gas or vapor filled tube, or arc device, and which have a condensor and an inductance in the supply circuit so as to form a tuned oscillating circuit. Class 315 also includes in subclass 3 and indented subclasses all cathode ray tubes which have structurally combined therewith an electric circuit element including resonators, and in subclass 32 and indented subclasses all electric space discharge devices which have structurally combined therewith an electric circuit element. Some of these devices constitute oscillatory circuit generating devices including ultra-short wave devices. Note especially subclasses 5, 34, 38, 39, 40, and subclass 41 and its indented subclasses.;

in subclass 41.5, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 10 and indented subclasses, for miscellaneous cathode ray tube systems whose operation is controlled by light sensitive means and subclass 149 for systems for supplying electric current and/or potentials to electric lamp or electric space discharge devices of the gas or vapor ionization type where the circuit includes a light sensitive element for controlling the circuit, or the lamp or discharge devices, is itself light sensitive. For the line between this class (250) and class 315, see the definition and notes to class 315.;

in subclass 45, note 1, cancel the reference to class 176, Electric Lamps, and substitute:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for systems for supplying electrical energy to electric lamps and electric space discharge devices of the gas or vapor ionization type.;

in subclass 49.5, in note (6) under "Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 1 and indented subclasses, for systems for supplying electric current and/or potential to the cathode ray tubes, and appropriate subclasses, for systems for supplying electric current and/or potentials to electric space discharge devices of the gas or vapor ionization type, especially subclass 108, where the discharge device is provided with means, such as an enclosing bulb, for keeping the gas or vapor confined, and means are provided for regulating the pressure of the confined gas or vapor, and subclass 111, wherein means are provided to supply a fluent material to the discharge space for deflecting the discharge from its normal path, or to supply fluent material to the discharge to alter the characteristics of the discharge, or for any other purpose.;

in subclass 84, in note (3) "Search Classes", cancel the reference to class 176, Electric Lamps, and substitute:

176—ELECTRIC LAMPS, appropriate subclasses, for incandescent, arc, gas or vapor, and other electric lamps, including such lamps as generate ultra-violet or other invisible ray energy other than X-rays.;

and add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, for systems for supplying electrical energy to electric lamps including electric space discharge lamp devices and such lamps as are used to generate ultra-violet or other radiant energy rays other than X-rays.;

in subclass 85, under "Search Classes", cancel the reference to class 176, Electric Lamps, and add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 46 and indented subclasses and subclass 49, for electric space discharge lamp devices which generate ultra-violet or other special rays (excluding X-rays) which have included within the lamps, bulb, or structure a filament or electric resistance heater.;

in subclass 93, in note "(2) Search Classes", cancel the reference to class 176, Electric Lamps, and add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 1, for systems for supplying electrical energy to cathode ray tubes, excepting such cathode ray tubes as are used to generate X-rays, and appropriate subclasses, for systems for supplying electrical energy to electric lamps and electric space discharge devices of the gas or vapor ionization type.;

in subclass 94, under "Search Classes", cancel the reference to class 176, Electric Lamps, and add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 9, for systems for supplying electrical energy to a plurality of cathode ray tubes where neither of the cathode ray tubes is an X-ray generator, and subclass 312 and indented subclasses, and the subclasses specified in the notes to the definition of those subclasses, for miscellaneous systems for supplying electrical energy to a plurality of electric lamps and/or electric space discharge devices of the gas or vapor ionization type, note especially subclass 324 and indented subclass, and the subclasses specified in the notes to the definition of those subclasses where there are a plurality of discharge devices in the system.;

in subclass 95, note "(2) Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 360, for time controlled systems for supplying electrical energy to electric lamps and/or electric space discharge devices of the gas or vapor ionization type.;

in subclass 96, note "(2) Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 108 and indented subclasses, for systems for supplying electrical energy to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the lamp or discharge devices being provided with gas or vapor pressure regulating means.;

in subclass 98, under note "(2) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 227 and indented subclasses, for systems for supplying electrical energy to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the supply circuit including a condensor.;

in subclass 99, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 30, for systems for supplying current and/or potential to cathode ray tubes other than X-ray tubes which are provided with a discharge intensity control means and subclass 349 and indented subclasses and the subclasses specified in the notes to the definition of these subclasses, for electric systems for supplying electric current and/or potentials to electric space discharge devices of the gas or vapor ionization type which are provided with discharge controlling means.;

in subclass 100, under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 200 and indented subclasses and the subclasses specified in the notes to the definitions of those subclasses, for systems for supplying electrical energy to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the supply circuit including a rectifier.;

in subclass 102, in note "(2) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 246 and indented subclasses and the subclasses specified in the notes to the definitions of those subclasses, for systems for supplying pulsating and/or alternating electric current to electric lamps and/or electric space discharge devices of the gas or vapor ionization type.;

in subclass 103, in note "(2) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 291 and indented subclasses and the subclass specified in the notes to the definitions of those subclasses, for systems for supplying electric energy to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the system including current and/or voltage regulating means.;

in subclass 141, cancel note (1) and substitute:

Search this class, subclass—

27—for miscellaneous systems which include a cathode ray tube for controlling and/or modifying the current flow in a circuit, and see the notes to such subclass.;

and under "(2) Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 1 and indented subclasses, for miscellaneous systems for supplying electric current and/or potential to cathode ray tubes.;

in subclass 150, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclasses 11, 12, for systems for supplying electric current and/or potential to cathode ray tubes which include a secondary emissive electrode and subclass 13, for systems for supplying electric current and/or potential to cathode ray tubes which are provided with means for forming a plurality of separate cathode ray beams.;

in subclass 151, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 21, for electric systems for supplying electric current and/or potential to cathode ray tubes which are provided with means for sweeping the cathode ray over a plurality of ray receiving anodes.;

in subclass 153, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 10 and indented subclass for systems for supplying electric current and/or potential to cathode ray tubes, the system including light sensitive means to control the operation of the cathode ray tube. The cathode ray tube in the system may have a light sensitive electrode.;

in subclass 155, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 14, for systems for supplying electric current and/or potential to cathode ray tubes which are provided with a plurality of concentrating, accelerating and/or de-accelerating means (electrodes).;

in subclass 156, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 18 and indented subclasses for electric systems for supplying electric current and/or potentials to cathode ray tubes which are provided with ray deflecting means.;

in subclass 157, add;

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 23, for cathode ray tube systems which are provided with means for supplying pulsating and/or alternating current and/or potential to cathode ray tubes so as to periodically deflect or sweep the cathode ray in two different planes and subclass 25, for cathode ray tube systems wherein the cathode ray is swept in two different directions in one plane, or is periodically deflected or swept in a single direction and is otherwise deflected by suitable current and/or potential means.;

in subclass 160, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 31, for systems for supplying electric current and/or potential to cathode ray tubes which are provided with means for focusing and/or concentrating the ray.;

and in subclass 163, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclasses 22, 30, for systems for supplying electric current and/or potential to cathode ray tubes which are provided with ray modulating means.

In *class 294, Handling—Hand and Hoist-Line Implements* (Division 4), subclass 92, cancel the note and substitute:

Search Classes—

74—MACHINE ELEMENTS AND MECHANISMS, subclass 144, and indented subclasses, for similar devices used with intermittent grip mechanical movement devices.

314—ELECTRIC LAMP AND DISCHARGE DEVICES, CONSUMABLE ELECTRODES, subclass 101 and indented subclasses, for consumable electrode discharge devices (carbon arc lamps, et cetera), which are provided with a grip device which is designed to grip and release the electrode (carbon) through changes in the angular position of the grip device.

In *class 314, Electric Lamp and Discharge Devices, Consumable Electrodes* (Division 60), main class definition, cancel note (7) and substitute:

(7) Note.—For electric systems for supplying electric current and/or potential to electric lamps and discharge devices other than consumable electrode discharge devices, **search classes:**

250—RADIANT ENERGY, subclass 27, for miscellaneous electric space discharge device systems not otherwise classified.

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, appropriate subclasses, for all such supply systems for electric lamp and for such supply systems for electric space discharge devices of the gas or vapor ionization type, including arc and spark devices.;

in subclass 1, under "(5) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 87 and subclass 88, for miscellaneous current supply systems for electric lamps and/or electric space discharge devices other than consumable electrode discharge devices, the system being provided with automatically operated means for substituting another lamp, discharge device, or electrode when the first operated lamp, discharge device, or electrode fails to operate properly.;

in subclass 2, under "(2) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 93, for miscellaneous electric lamp and/or electric space discharge device systems which are provided with an automatically operating electric switch for substituting another lamp, discharge device, or electrode when the first operated lamp, discharge device or electrode fails to operate properly.;

in subclass 7, cancel note (3) and substitute:

(3) Note.—For electrical systems for supplying electric current to two or more lamps or discharge devices other than consumable electrode devices, **search classes:**

250—RADIANT ENERGY, subclass 27, for miscellaneous systems which are not otherwise classified for supplying electric current and/or potential to a plurality of electric space discharge devices. Also, **search the classes** referred to in the notes to the definition of subclass 27 of class 250.

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 312 and the subclasses specified in the notes to the definition of those subclasses, for all such supply systems for a plurality of electric lamps and for such supply systems for a plurality of electric space discharge devices of the gas or vapor ionization type, note especially indented subclass 324, where there are a plurality of discharge devices.;

in subclass 8, add:

Search Classes—

250—RADIANT ENERGY, and appropriate subclasses, for miscellaneous systems not otherwise classified, which include a plurality of series connected discharge devices.

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 179 and indented subclasses, subclass 185 and indented subclasses, and the subclasses specified in the notes to the definitions of those subclasses, for miscellaneous systems for supplying electric current to series connected electric lamps and/or electric space discharge devices of the gas or vapor ionization type.;

in subclass 9, under "(4) Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 120, and subclass 129 and its indented subclasses, for miscellaneous systems for supplying electric current to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the system including signal means, indicator means, or alarm means for indicating some condition affecting the operation of the system.;

in subclass 10, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclasses 65 and 119, and its indented subclasses for miscellaneous systems for supplying electric current to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the system being provided with automatically operated shunt-circuit closing or cut-out means for the lamp or discharge device.;

in subclass 11, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 75, and subclass 125 and indented subclass, for miscellaneous systems for supplying electric current to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the system being provided with automatically operated shunt-circuit closing means for the lamp or discharge device.;

in subclass 17, under "(3) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 74 and indented subclass and subclass 127 and indented subclass, for miscellaneous systems for supplying electric current to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the system being provided with an automatically operated electric switch for completing a shunt circuit about or opening the circuit of the lamp or discharge device.;

in subclass 20, under "(4) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, for miscellaneous systems for supplying electric current and/or potential to electric space discharge devices including electric space discharge lamps, the discharge device being provided with means for deflecting the discharge from the path it would normally occupy, subclass 111, where the deflecting means is a jet of gas or other fluent material, and subclass 267 and subclass 344 and indented subclasses, where the deflecting means is an electromagnet.;

in subclass 22, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 111, for miscellaneous systems for supplying electric current and/or potential to electric space discharge devices of the gas or vapor ionization type, including space discharge lamps, the discharge device being provided with means to supply a fluent material to the discharge space.;

in subclass 26, under "(2) Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 112, for miscellaneous systems for supplying current and/or potential to electric lamps and electric space discharge devices of the gas or vapor ionization type, the lamp or discharge device being provided with heating and/or cooling means for the lamp or discharge device structure.;

in subclass 31, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 137 and indented subclasses, for miscellaneous systems for supplying electric lamps and/or electric space discharge devices of the gas or vapor ionization type with polyphase alternating current. Note especially subclass 138, for such systems where single phase current is converted to polyphase.;

in subclass 32, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclasses 57, 70 and subclass 276 and indented subclasses and subclass 354, and the subclasses specified in the notes to the definition of those subclasses for miscellaneous systems which include a transformer for supplying electric current and/or potentials to electric lamps and electric space discharge devices of the gas or vapor ionization type. See subclasses 57 and 70 and subclass 276 and indented subclasses, where the transformer is in the supply circuit, and subclass 354 where the transformer is in the control circuit of a discharge control type space discharge device.;

in subclass 34, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 335 and indented subclass, and the subclasses specified in the notes to the definitions of those subclasses, for miscellaneous systems for supplying electric current and/or potentials to electric space discharge devices of the gas or vapor ionization type, the discharge device being provided with an auxiliary starting electrode.;

in subclass 36, add:

Search Class—

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 334 and indented subclasses and the subclasses specified in the notes to the definitions of those subclasses, for miscellaneous systems for supplying electric current and/or potential to a plural cathode and/or anode discharge device of the gas or vapor ionization type.;

in subclass 63, under "(3) Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 149 and indented subclasses for miscellaneous systems for supplying electric current and/or potential to electric lamps and/or electric space discharge devices of the gas or vapor ionization type, the system including a device sensitive to radiant energy (photo-cell, et cetera).;

in subclass 64, under "Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 200 and indented subclasses and subclass 352 and indented subclass, for miscellaneous systems for supplying an electric current and/or potential to an electric lamp and/or electric space discharge device of the gas or vapor ionization type, the system including an electric space discharge device. See subclass 200 and indented subclasses where the discharge device is in the supply circuit of the lamp or discharge device, and subclass 352 and indented subclass, where the discharge device is in the control circuit of the discharge control means of a discharge control type discharge device.;

in subclass 131, cancel the reference to class 176 under "Search Classes", and add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 32 and indented subclasses, especially subclasses 32, 47, 56, 63, and subclass 64 and indented subclasses, subclasses 72, 73, and subclass 74 and indented subclass, for all electric lamps and electric space discharge devices, other than consumable electrode discharge devices which have structurally combined therewith an electric switch.;

in subclass 132, under "(3) Search Classes", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 32 and indented subclasses, especially subclasses 38, 40, 41, and indented subclasses, 46 and indented subclasses, 49, 52, and indented subclasses, 58, and indented subclasses, and subclass 71 for all electric lamps and discharge devices which have structurally combined therewith an electrical impedance.;

and in subclass 135, under "(3) Search Class", add:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 291 and indented subclasses, and the subclasses referred to in the notes to the definitions of those subclasses for miscellaneous systems which include regulating means for supplying electric current and/or potential to electric lamps and/or electric space discharge devices of the gas or vapor ionization type.

In Division 54, establish class 315, Electric Lamp and Discharge Devices, Systems, with the following subclasses and definitions, the patents contained therein having been taken for the most part from classes 13, Electric Furnaces, subclass 9 and indented subclasses; 123, Internal Combustion Engines, subclass 146.5 and indented subclasses, especially subclass 148; 175, Electricity—General Applications, subclasses 312 and 354, abolished in this order; 176, Electric Lamps, various subclasses, especially subclasses 8 to 13, 18 to 20, 23 to 25, 27, 33, 53, and 124, abolished in this order; 219, Electric Heating, subclass 7 and indented subclasses and subclass 14 and indented subclasses; class 250, Radiant Energy, subclasses 27, 27.5, 36, and 41.5.

Note.—Copies of the list of subclass titles, and of the definitions, may be seen in the Search Room and in the Classification Division pending publication.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING APRIL, 1943

EX PARTE CAMPUS SWEATER COMPANY, Serial No. 426,878.

In a decision rendered April 2, 1943 (166 Ms. Dec. 144, 57 U. S. P. Q. 127), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration under the act of March 19, 1920, to Campus Sweater Company, of Cleveland, Ohio, of the mark "The House of Sportswear" for various named articles of wearing apparel including sweaters, dresses, shirts, etc. The Examiner refused registration on the ground that the mark is inherently incapable of indicating origin of the goods to which the mark is applied.

In agreeing with the Examiner, the Assistant Commissioner stated:

"It seems to me the expression 'The House of Sportswear' as such would be understood as denoting a business dealing in sportswear or a store in which sportswear is sold and would not denote the business of any particular individual or concern. The question, however, is whether the expression carries trade-mark significance when applied directly to the goods by applicant exclusively. In my opinion it does not and for it to do so would require the presence of something else which would indicate applicant as the particular source of origin of the goods."

MINNESOTA VALLEY CANNING COMPANY *v.* OCONOMOWOC CANNING CO., Cancellation No. 3696.

In a decision rendered April 3, 1943 (166 Ms. Dec. 145, 57 U. S. P. Q. 127), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences granting the petition filed by Minnesota Valley Canning Company, of LeSueur, Minn., for cancellation of a registration obtained by Oconomowoc Canning Co., of Oconomowoc, Wis., under the act of March 19, 1920, of a mark consisting of the words "Big Green" above a picture of a cluster of open pea pods for canned peas.

The Examiner granted the petition for cancellation in view of three prior registrations issued and owned by petitioner. One of these registrations is of the words "Green Giant" alone and the other two registrations are of marks which feature the words "Green Giant" in association with a fanciful picture. Each of these three registrations names canned peas as the goods.

The Assistant Commissioner stated that the sole question on appeal was whether respondent's mark is or is not confusingly similar to the marks of petitioner's registrations. He concluded that the marks of the parties are confusingly similar and in support of that conclusion said:

"As pointed out by the Examiner the goods are relatively inexpensive and are apt to be purchased with no more than casual discrimination and care and accordingly with only casual attention to the trade-marks applied thereto. The words 'Big Green' describe the peas as being large and green and the words 'Green Giant' have the same suggestive meaning. The differences between the marks are noted but when the marks are considered in their entireties they are, in my opinion, so dominated by the respective expressions 'Big Green' and 'Green Giant' and these expressions are so similar in appearance and sound and so alike in denotation that their concurrent use on the goods to which they are applied would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers."

EX PARTE SAWYER ELECTRICAL MFG. CO., Serial No. 452,407.

In a decision rendered April 5, 1943 (166 Ms. Dec. 146, 57 U. S. P. Q. 148), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration under the act of February 20, 1905, to Sawyer Electrical Mfg. Co., of Los Angeles, Calif., of the word "Sawyer" as a trade-mark for electric motors. The Examiner refused registration of said word on the ground that "it is merely the name of an individual not distinctively displayed."

The issue to be determined by him, the First Assistant Commissioner said, was correctly stated in the following quotation from the applicant's brief:

"The question on this appeal is whether the trade-mark 'Sawyer' is registrable under the act in view of the fact that it is a surname for individuals and is not distinctively displayed. The word 'Sawyer' has many other meanings than as a surname and it is appellant's contention that it is therefore not 'merely the name of an individual,' as specified by the statutory prohibition against registration."

The First Assistant Commissioner also quoted section 5 of the act of February 20, 1905, and stated:

"It will be observed that the word 'merely' refers indiscriminately to marks consisting in names, descriptive words and geographical terms, so that its construction with respect to any one of these three types of mark is equally applicable to all. Aside from several old Patent Office decisions, which are in hopeless conflict, there are very few reported cases in which the precise question here presented has been discussed, and only one that I have been able to find in which it has been squarely adjudicated.

"In *Schlesinger* v. *Oppenheim Cigar Co.*, 11 Fed. (2d) 773, the Circuit Court of Appeals for the Fifth Circuit held invalid a registration of the word 'Charlies,' and in the course of its opinion said:

"'The statute distinguishes between the use of a name, without regard to the manner of disclosing it, and the use of the same name when written, printed, impressed or woven in some particular or distinctive manner or in association with a portrait of an individual. The words "no mark which consists merely in the name of an individual" cannot properly be given the same meaning as would have been conveyed if, instead thereof, there had been used some such words as "no mark which consists of a word which is only the name of an individual," or "no mark consisting of a word which is used exclusively as the name of an individual." The language of the statute negatives the existence of an intention to permit the registration as a trade-mark of the name of an individual when not disclosed in some particular or distinctive manner, or in association with a portrait of an individual, if that name is also a word having another or other meanings, being used to designate a thing or things, as well as a person or persons.

"'It follows that it is not material that dictionaries show that the word "Charlie," in addition to being a

nickname or substitute for Charles, has customarily been used otherwise than as the given name or surname of a person.'

"That case, while entitled to respectful consideration, is not controlling here; and I am not in entire agreement with its reasoning, nor with the conclusion reached. It is common practice to register Christian names, and I doubt that the word 'Charles,' or even the word 'Charlie,' has any significance as a surname. Be that as it may, it seems to me that in determining the registrability of words used as surnames, but having other meanings, great weight must be given to their predominant significance. As pointed out by the Examiner in his statement on appeal:

"'Many of the commonest surnames, such as "Baker," "Carter," "Parker," "Smith," "Wheeler," have dictionary meanings; but standing without qualification, call to mind merely names of people.'

"Another such name, though much less common, is the word 'Tinker,' which was held to be nonregistrable by the Court of Appeals of the District of Columbia because 'not sufficiently distinguished * * * to meet the statutory limitation against the registration of the name of an individual or corporation as a trade-mark.' *Tinker* v. *Patterson Dental Supply Co.*, 52 App. D. C. 37, 287 Fed. 1014.

"In the case of *The American Tobacco Co.* v. *Wix*, 20 C. C. P. A. 835, 62 Fed. (2d) 835, the Court of Customs and Patent Appeals refused registration of the name 'Wix,' but concluded its opinion with the following observation:

"'We do not wish to be understood in this opinion as holding that under no circumstances is a surname registrable. Many names have a significance other than as names, and are not regarded by the public as merely names. It is unnecessary for us here to determine whether in such cases a name is subject to the proviso hereinbefore quoted upon the record before us, the name "Wix" has no other significance than as the name of an individual connected with the tobacco business.'

"That case was decided ten years ago, but so far as I am advised the court has not yet had occasion to pass upon the question thus reserved. In other decisions, however, dealing with descriptive and geographical marks, it has construed the word 'merely' as used in the statute, and appears to have repudiated the theory here contended for by applicant that it should be restricted in meaning to its exact dictionary definition.

"In the case of *In re Plymouth Motor Corporation*, 18 C. C. P. A. 838, 46 Fed. (2d) 211, decided in 1931, the court reversed a ruling of the Patent Office that the word 'Plymouth' was nonregistrable because merely a geographical name or term, and in the course of its opinion said:

"'We think the decision may properly rest upon the fact that by using the adverb "merely," Congress intended to, and did follow the common law principle that there are circumstances under which a geographic name, or term, may come to have a meaning other than one merely geographic, and that, where such is true the word, so recognized or recognizable at common law, should not be excluded from registration.'

"Some six years later, in the case of *In re Canada Dry Ginger Ale, Inc.*, 24 C. C. P. A. 804, 86 Fed. (2d) 830, the Plymouth case was expressly overruled, and the court refused to hold that 'if a mark otherwise not registrable has acquired by long exclusive use a secondary meaning, it becomes by virtue thereof a valid trade-mark.' Also in that case the court reaffirmed its decision in *Barber-Colman Co.* v. *Overhead Door Corporation*, 20 C. C. P. A. 1118, 65 Fed. (2d) 147, where it had refused registration of a descriptive expression that had acquired a secondary significance.

"Another case in point is *In re American Cyanamid & Chemical Corporation*, 26 C. C. P. A. 712, 99 Fed. (2d) 964, where the same court, relying on *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538, 1920 C. D. 471, ruled that a composite mark which included a descriptive word, though the mark as a whole did not consist merely of descriptive words or devices, was nevertheless nonregistrable without a disclaimer of the descriptive word.

"I am aware of no decision of the Court of Appeals of the District of Columbia in which the meaning of the word 'merely' in the statute has been discussed. But it is of interest to note that in *H. Becker & Co.* v. *C. A. Gambrill Manufacturing Co.*, 38 App. D. C. 535, 1912 C. D. 503, that court reversed a decision of the Commissioner of Patents in which he had held the words 'Orange Grove' to be registrable as a technical trade-mark. The court there said:

"'The word "Orange" and the words "Orange Grove" are geographical, and not subject to registration as technical trade-marks.'"

In conclusion, the First Assistant Commissioner stated that his review of the cited cases strengthened his own conviction that:

"No word should be registered, except under the conditions prescribed by the statute, if it is likely to be regarded by the public as merely the name of an individual, even though it may have one or more other meanings."

He added:

"That the word 'Sawyer' is likely to be so regarded I think there can be no doubt."

MCKESSON & ROBBINS, INC., *v.* PROFESSIONAL SPECIALTIES, INC., Opposition No. 21,396.

In a decision rendered April 6, 1943 (166 Ms. Dec. 149, 57 U. S. P. Q. 150), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition of McKesson & Robbins, Inc., of New York, N. Y., to the application of Professional Specialties, Inc., of St. Louis, Mo., for registration of the mark "Profex" for various named items of surgical glassware, gowns for surgical wear, and certain named items of furniture and appliances for surgical use. These goods, the Assistant Commissioner stated, are known as surgical and laboratory specialties.

The opposition was based on prior use by opposer of the identical mark "Profex" for a prophylactic for prevention of venereal diseases. This product, the Assistant Commissioner said, is a medicinal preparation in the form of an ointment.

The Assistant Commissioner agreed with the Examiner that the respective goods of the parties are not merchandise of the same descriptive properties. He said:

"Opposer asserts that its 'Profex' ointment might be administered to a patient in a hospital room which contained some of applicant's 'Profex' glassware, furniture and appliances, and by a doctor wearing a 'Profex' apron or gown, and this would lead the patient to believe that the ointment and the so-called specialties had the same source of origin. Further, attention is called to the statement of one of opposer's witnesses that there are certain types of prophylactics in either liquid or powder form which may be applied by an air spray by means of an atomizer. This statement, however, is entirely unsupported and opposer's ointment is not suitable for application by means of an atomizer; and atomizers are not specifically named in applicant's application.

"In my opinion opposer's ointment and the goods named in the opposed application are goods of a different class and would not normally be expected to have the same source of origin, but rather would normally be thought to be products of different manufacturers, as is the case here."

LEADWAY STORES CORPORATION, NATIONAL BRANDS SALES CORP. JOINED *v.* PAUL HAWKINS COMPANY, Cancellation No. 3904.

In a decision rendered April 12, 1943 (166 Ms. Dec. 151, 57 U. S. P. Q. 171), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the petitions filed by Leadway Stores Corporation, of Chicago, Ill., and National Brands Sales Corp., also of Chicago, Ill., for cancellation of a registration of the mark "Freshway" for marmalade made from citrus fruits, issued August 2, 1938 to Paul Hawkins Company, of Los Angeles, Calif., under the act of February 20, 1905.

The Assistant Commissioner stated that respondent is also the owner of a prior registration of the mark "Freshway" for nonalcoholic, maltless fruit beverages sold as soft drinks and concentrates for making the same, issued to respondent November 5, 1935 on an application filed April 27, 1935.

The Assistant Commissioner further stated that the petitions for cancellation allege, and the record establishes, use by and on behalf of petitioners of the mark "Freshway" on coffee from June 1935, which date, he observed, is prior to respondent's first use of the mark "Freshway" on citrus fruit marmalade, but is later than the filing date of the application for respondent's registration of the mark "Freshway" for fruit beverages and concentrates therefor. The question, he said, was whether this showing entitled petitioners to have respondent's later registration canceled on petition.

That question the Assistant Commissioner discussed as follows:

"Registration of a trade-mark creates no substantive rights in the mark registered but gives certain remedial and procedural advantages. To secure a valid registration the registrant must be the owner and user of the trade-mark as applied to the goods named in the registration; and under act of February 20, 1905, such ownership means the exclusive right to use the mark on those goods but does not necessarily require the registrant to be actually the sole user of the mark on those goods. The right to exclusive use of a mark extends also to such other goods as are goods of the same descriptive properties in the statutory sense as the goods to which the mark is actually applied. Accordingly under the act of February 20, 1905, a registration under that act is prima facie evidence of ownership by the registrant of the exclusive right to the use of the registered mark not only for the goods named in the registration but also for such other goods as are goods of the same descriptive properties in the statutory sense as the goods named in the registration. All this is so well established that citation of authorities is deemed unnecessary.

"Now it seems clear, and it is not disputed here, that soft fruit beverages and concentrates for making them and marmalade made from citrus fruits are goods of the same descriptive properties. Therefore respondent's registration of the mark 'Freshway' for the fruit beverages is prima facie evidence of respondent's ownership of the exclusive right to use the mark 'Freshway' for all those goods, including citrus fruit marmalade, since April 27, 1935; this being the date the application for the registration of the mark 'Freshway' for the fruit beverages and concentrates therefor was filed. Accordingly respondent prior to the first use by petitioners of the mark 'Freshway' on coffee already had acquired the right to the exclusive right to the use of the mark of its registration now sought to be canceled as applied to the goods named therein.

"Further, both respondent's fruit beverages and concentrates therefor and respondent's fruit marmalade are made from fruit. Also the earlier registration identifies respondent as a manufacturer of fruit concentrates, and fruit beverages and fruit marmalade are more closely related to each other as likely products of a manufacturer of fruit concentrates than coffee is so related to either of those goods or to the concentrates. Thus it appears to me that the goods of respondent's later registration are more closely related to the goods named in respondent's earlier registration than to coffee in their respective descriptive properties considered in the statutory sense.

"Accordingly I consider the Examiner to have been correct in dismissing the petitions to cancel respondent's later registration."

THE JUVENILE SHOE CORPORATION OF AMERICA *v.* A. SANDLER CO., Opposition No. 21,254.

In a decision rendered April 14, 1943 (166 Ms. Dec. 153, 57 U. S. P. Q. 173), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition by The Juvenile Shoe Corporation of America, of Aurora, Mo., to the application of A. Sandler Co., of Boston, Mass., for registration for women's shoes of the mark "Lady in White by Sandler," the words "by Sandler" being disclaimed.

The Assistant Commissioner stated that the notice of opposition alleges prior use by opposer in connection with the sale of its shoes for women of the slogans or phrases "For Young Women in White" and "Young Women in White"; confusing similarity between applicant's mark and these phrases or slogans; and consequent damage resulting from confusion of origin of the goods. The notice also alleges, the Assistant Commissioner said, that registration of applicant's mark would threaten and interfere with the free use by opposer of the said phrases and slogans.

The Assistant Commissioner concluded that the Examiner correctly dismissed the notice of opposition on the ground that the record does not establish that opposer will be damaged by the registration for which applicant has applied. In reaching this conclusion, the Assistant Commissioner said:

"From the exhibits showing opposer's use of the phrases or slogans 'For Young Women in White' and 'Young Women in White' it seems clear that the expressions designate and describe the class of purchasers for whom opposer's shoes are designed and specially suited, and are so intended by opposer. For instance certain of opposer's advertisements of record contain the following expressions: 'this shoe specially designed for you who "work in white"'; 'So that "Young Women in White" may serve more efficiently, more comfortably, The Clinic Shoe has been created'; 'They are made especially for young women in white * * * with their special needs in mind'; 'It is a Specialty Shoe, built exclusively for nurses, and other young women in white'; 'Clinic Shoes are made to meet the needs of Young Women in White * * *'.

"Since no testimony was taken there is none bearing on the question of whether anyone ever attached any trade-mark significance to the expressions 'For Young Women in White' or 'Young Women in White' as used by opposer. Thus it is largely a matter of speculation as to what impression the phrases as used by opposer are likely to make on purchasers and the public; whether merely descriptively denoting a certain class of purchasers or denoting the source of origin of the shoes as well.

"In nearly every instance the phrase 'For Young Women in White' or 'Young Women in White' is accompanied by opposer's registered trade-mark which comprises the word 'Clinic' associated with a picture of the head of a nurse in nurse's cap, prominently displayed. In these displays opposer's registered trade-mark predominates as the feature having trade-mark significance and has no descriptive meaning. On the other hand the phrases 'For Young Women in White' and 'Young Women in White' as displayed have predominantly descriptive meanings. In fact, in my opinion, as the phrases are displayed they have no trade-mark significance, and would not be recognized by purchasers and the public as associating the shoes with opposer as their source of origin, and therefore even if applicant's mark 'Lady in White by Sandler' might be suggestive of a nurse or other woman of the class described by the phrases 'For Young Women in White' or 'Young Women in White' it would not indicate opposer as the source of origin of the shoes. For it to do so would require that opposer's phrases give such indication, and in my opinion the record does not establish that they do so. Further, applicant's allegation that registration of applicant's mark would not prevent the continued use by opposer of the descriptive phrases or slogans appears to be correct."

EX PARTE THE AMERICAN FORK & HOE COMPANY, Serial No. 433,205.

In a decision rendered April 21, 1943 (166 Ms. Dec. 155, 57 U. S. P. Q. 192), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration to The American Fork & Hoe Company, of Cleveland, Ohio, of the notation "Collie King" as a trade-mark for various hand tools. The Examiner refused registration in view of the prior registration to another, for substantially the same goods, of three marks consisting in or comprising the handwritten name "R. King." One of these marks, the First Assistant Commissioner said, is dominated by the additional notation, printed in conventional capital letters not unlike those of applicant's mark, "King's

Superior Tools." All three registrations, he further said, were issued under the ten-year proviso of section 5 of the act of February 20, 1905.

The First Assistant Commissioner found the applicant's mark and the registered marks to be confusingly similar. He said:

"'King' and 'King's' as employed in these registrations are, of course, surnames, while applicant's mark as a whole has no such significance. However, 'significance of marks is not the only factor to be considered, for appearance and sound are equally important.' *Kroger Grocery & Baking Co.* v. *Blue Earth Canning Co.*, 24 C. C. P. A. 1098, 88 Fed. (2d) 725. The word 'King' is a prominent feature of applicant's mark, and in view of the identity of the merchandise involved renders the mark as a whole too nearly similar to each of the registered marks to be used in trade without likelihood of confusion. Applicant claims to have used this mark for many years, and asserts that no confusion has occurred. But the statute prohibits the registration of marks that are 'likely to cause confusion or mistake in the mind of the public or to deceive purchasers,' and the absence of actual confusion is not controlling."

The First Assistant Commissioner discovered two additional reasons for rejecting the application for trade-mark registration. These reasons he discussed in the following manner:

"While I think the Examiner correctly decided the case, there are two other reasons, to which he has made no reference, why the application as presented must be rejected. One is that the labels filed to 'show the trade-mark as actually used upon the goods' indicate that the mark is used by The American Axe & Tool Co., Inc., rather than by applicant. The other is that the mark borne by these labels differs in several respects from the mark shown on the drawing."

WHITE HORSE DISTILLERS, LIMITED, *v.* CHARLES GOLDFUS, Cancellation No. 3970.

In a decision rendered April 22, 1943 (166 Ms. Dec. 156, 57 U. S. P. Q. 194), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the petition filed by White Horse Distillers, Limited, of Glasgow, Scotland, to cancel registration No. 378,060, issued on May 21, 1940, to Charles Goldfus, of Minneapolis, Minn., under the act of March 19, 1920. The registered trade-mark consists of the words "Kings Favourite Liqueur Glenside Distillery Co. Ltd." and is applied to blended Scotch whiskey. The application for the registration was filed August 14, 1939.

In his decision the Assistant Commissioner set out the grounds of the petition for cancellation and referred to the evidence and expressed his conclusions as follows:

"Petitioner has asserted its use since prior to the filing date of the application for said registration of the name 'King's Special' in connection with the sale of blended Scotch whiskey; the name appearing prominently in ornate front labels and as part of the designation 'Laird O'Logan Brand King's Special' appearing in back labels applied to petitioner's bottles of whiskey, and also appearing in advertising of the goods. I agree with the Examiner that the record establishes such use of the notation 'King's Special' by petitioner and that such use is a use at least analogous to trade-mark use.

* * * * * * *

"In my opinion the notation 'Kings Favourite' is the dominant feature of the mark of the registration sought to be canceled and is so similar in appearance, sound and significance to the notation 'King's Special' as to be confusingly similar thereto and consequently the registration appears to put to question the right of petitioner to continue its use of the notation 'King's Special' in connection with the distribution and sale of its whiskey and therefore petitioner is justified in deeming itself injured by the registration.

"The fact that petitioner's notation 'King's Special' is displayed in the ornate front bottle label and is included in the notation 'Laird O'Logan Brand King's Special' in the back bottle label is not fatal to petitioner's case. *Warner-Patterson Co.* v. *Malcomb*, 22 C. C. P. A. 1381, 77 Fed. (2d) 950, 461 O. G. 731. The notation has considerable prominence in the labels and in my opinion the concurrent use on whiskey of the mark of respondent's registration and the use by petitioner of the notation 'King's Special' might quite likely lead to confusion as to the source of origin of the goods. Accordingly I consider respondent at the time of filing his application for the registration was not entitled to the exclusive use of the mark of the registration on whiskey and therefore the Examiner was correct in sustaining the petition for cancellation.

"Further it seems to me that in a case of this character the petitioner's right to use the notation 'King's Special' is entitled to greater weight and consideration than the particular manner in which the notation is displayed. *United Shoe Machinery Corp.* v. *Compo Shoe Machinery Corp.*, 19 C. C. P. A. 1009, 56 Fed. (2d) 292, 421 O. G. 4."

HANSEN MANUFACTURING COMPANY, INC., *v.* NATIONAL TIME & SIGNAL CORPORATION, Opposition No. 21,122.

In a decision rendered April 23, 1943 (166 Ms. Dec. 158, 57 U. S. P. Q. 193), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Hansen Manufacturing Company, Inc., of Princeton, Ind., to the application of National Time & Signal Corporation, of Detroit, Mich., for registration of the word "Syncrotime" for timing mechanisms, specifically clocks, clock timekeepers and clocks for automatic dismissal signalling.

Opposer relied upon a registration granted to it on April 1, 1930, of the mark "Synchron" for electric clocks. The Assistant Commissioner stated that opposer also presented testimony and proofs of the use of this mark on various sorts of timepieces.

In affirming the decision of the Examiner of Interferences, the Assistant Commissioner said:

"Both the marks are applied to timepieces; so the goods are identical. Both marks when so applied to timepieces to my mind have a strong suggestive meaning that the timepieces are synchronic. The part 'Syncro' of the mark 'Syncrotime' is very prominent therein and is so similar in sound and in appearance to the mark 'Synchron' as to give the marks as a whole considerable similarity in appearance and in sound.

"It is noted that the goods to which the marks are applied are apt to be purchased with more discrimination and care than would be accorded less expensive or lasting goods. However, considering the marks in their entireties in my opinion they are so similar in appearance, sound and in suggestive meaning that their concurrent use on the goods to which they are applied would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers."

EX PARTE DIFFERENTIAL STEEL CAR COMPANY, Serial No. 418,140.

In a decision rendered April 26, 1943 (166 Ms. Dec. 159, 57 U. S. P. Q. 195), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration, under the act of February 20, 1905, to Differential Steel Car Company, of Findlay, Ohio, of the word "Differential," as a trade-mark for electric locomotives and certain related mechanical equipment.

The Examiner refused registration on the ground that the mark is either descriptive or misdescriptive of the goods, and that it "has no trade-mark

significance." In his statement on appeal, the Examiner said:

"Compensating gearing for permitting the driving wheels of all self-propelled vehicles to turn relatively to each other is in general use. Such gearing is called a 'differential.'"

In referring to the quoted portion of the Examiner's statement, the First Assistant Commissioner stated:

"That meaning of the word is so commonly understood that its association with a mechanical device of the character here involved necessarily would connote descriptiveness to the average individual. It is a part of applicant's name, and for that reason it may serve also to indicate the origin of applicant's merchandise, particularly in view of its long use in that connection. But any trade-mark significance it may have acquired is of course secondary, and secondary significance does not render a descriptive expression registrable under the act of 1905. *In re Canada Dry Ginger Ale, Inc.*, 24 C. C. P. A. 804, 86 Fed. (2d) 830."

MCKESSON & ROBBINS, INC., *v.* THE SHERBROOK DISTRIBUTING CO., Opposition No. 21,454.

In a decision rendered April 27, 1943 (166 Ms. Dec. 161, 57 U. S. P. Q. 195), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of McKesson & Robbins, Inc., of New York, N. Y., to the application of The Sherbrook Distributing Co., of Cincinnati, Ohio, for registration of the mark "Mill Hill" for whiskey, gin, rum, brandy and alcoholic cordials.

The opposition was based on opposer's prior registration of the mark "Millside Inn" for whiskey.

The Assistant Commissioner concluded that the respective marks of the parties are confusingly similar. In reaching that conclusion, he said:

"Applicant has placed in the record twelve registrations issued to others of marks which include the word 'Mill' for goods of the same descriptive properties as those to which the marks here involved are applied and urges that these registrations establish at least that the word 'Mill' as applied to such goods would be recognized by purchasers and the public as having no significance as to the origin of the goods, if not in fact establishing the word 'Mill' as applied to whiskey to be publici juris. However, it seems to me that there are many purchasers and prospective purchasers of whiskey who have never seen or heard of any of those twelve registered marks and that the word 'Mill' as applied to whiskey would not be considered by this class of purchasers as having no significance as to the origin of the goods; nor do I consider the mere fact that there are twelve such registrations establishes that the word is publici juris with regard to whiskey.

"Apparently the words 'Mill Hill' suggest a mill and a hill and the words 'Millside Inn' suggest a mill and an inn, possibly by the side of the mill, and thus the suggestive meanings of both marks include the suggestion of a mill. Further, 'Mill' is prominent in each of the marks.

"It is well known that whiskey is purchased by the drink and by the bottle and also by the case, and that there is a great variation in the discrimination and care exercised by different purchasers of whiskey, varying from great discrimination and care to very little. The latter class of purchasers must be considered as well as the former. *Pepsodent Co.* v. *Comfort Manufacturing Company*, 23 C. C. P. A. 1224, 83 Fed. (2d) 906, 472 O. G. 258.

"It is recognized that in a case of this kind opinions may differ as to confusing similarity between the marks, and the mere fact that both marks begin with 'Mill' is not necessarily controlling. *In re Southern Metal Products Corporation*, 26 C. C. P. A. 725, 99 Fed. (2d) 761, 499 O. G. 261.

"Considering the marks in their entireties and the nature of the goods to which they are applied it is my opinion that the similarities in appearance, sound and suggestive meanings of the marks are such that their concurrent use on the goods involved would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers."

GOODERHAM & WORTS LIMITED *v.* THE SHERBROOK DISTRIBUTING CO., Opposition No. 21,455.

In a decision rendered April 27, 1943 (166 Ms. Dec. 160, 57 U. S. P. Q. 197) *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by Gooderham & Worts Limited, of Detroit, Mich., to the application of The Sherbrook Distributing Co., of Cincinnati, Ohio, for registration of the mark "Mill Hill" for whiskey, gin, rum, brandy and alcoholic cordials.

The opposition was predicated on opposer's prior registration of the mark "Mill Farm" for whiskey.

Applicant asserted that opposer had not proved ownership of said registration or use of the registered mark at the time of filing the notice of opposition. In regard to this contention, the Assistant Commissioner said:

"These points are not raised in the assignment of error on appeal. Furthermore, the registration having issued to opposer under the act of 1905 is itself sufficient evidence of ownership and use of the mark by opposer in the absence of any showing to the contrary—and there is no such contrary showing here. *Ely & Walker Dry Goods Company* v. *Sears, Roebuck & Company*, 24 C. C. P. A. 1244, 90 Fed. (2d) 257, 485 O. G. 268."

Upon the issue of confusing similarity of the marks, the Assistant Commissioner had the following to say:

"Recognizing that whiskey is frequently purchased by the drink and frequently may be apt to be purchased without great discrimination and care as to the precise trade-mark applied thereto, and considering the marks as a whole, it is my opinion that notwithstanding the differences between the last words 'Hill' and 'Farm' of the marks, the marks as a whole are so similar in appearance, sound and in their suggestive meanings, both including the suggestion of a mill, that their concurrent use on whiskey would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers."

EX PARTE ZOTOS CORPORATION, Serial No. 408,176.

In a decision rendered April 29, 1943 (166 Ms. Dec. 162, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration of a mark applied for by Zotos Corporation, of New York, N. Y.

The Examiner refused registration on the ground that the mark which applicant sought to register is merely a mutilation of the mark actually used by applicant upon hair waving pads and devices subject to hair waving heat.

The Assistant Commissioner in his decision made the following comparison:

"The specimens which the application states show 'the trade-mark as actually used by applicant upon the goods' show a composite mark printed on blue paper, the mark consisting of the word 'ZOTOS' associated with a series of vertical wavy lines, a diagonal arrangement of stars and the word 'Vapet'. On the specimens filed the centers of the 'O's' of the word 'ZOTOS' are light tan in color, contrasting with the blue color of the paper on which the composite mark is printed and with the circles of the O's, which are white. It appears that applicant has separate registrations of the word 'ZOTOS', of the word 'Vapet' and of the vertical wavy line design.

"The mark which has been refused registration is shown on the drawing to consist solely of two dots or small discs spaced apart a considerable distance horizontally. Applicant states 'the two spaced discs of the mark at issue are symmetrically superposed on the mark "ZOTOS" and lie respectively within the corresponding O's of said mark,' preferably in color contrasting with the color of the background. It so appears on the specimens filed but only the two discs appear on the application drawing."

In upholding the Examiner in his refusal of registration, the Assistant Commissioner stated:

"It seems to me that in the specimens filed the two spaced discs are not superimposed on the word 'ZOTOS' but instead actually form and constitute the centers of the O's of that word and are incorporated in the word 'ZOTOS' as an integral part thereof, and would be so viewed by persons viewing the mark applicant actually uses, as shown by the specimens, and the colored centers of the O's would not be considered to be a trade-mark by itself, separate and distinct from the word 'ZOTOS' or separable therefrom.

"In my opinion by reason of the manner and the association in which the mark consisting of only the two spaced discs has been actually used this mark is so lacking in individuality and in indication of constituting a separate trade-mark by itself that it cannot be deemed to have been used as an individual or separable trade-mark and therefore is not registrable as such. See *Ex parte Kingan & Co., Incorporated*, 28 U. S. P. Q. 32, 462 O. G. 681, 159 Ms. D. 522, and cases cited therein."

GLAYDAS HERZBERG *v.* REVLON PRODUCTS CORPORATION, Opposition No. 21,408.

In a decision rendered April 29, 1943 (166 Ms. Dec. 164, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Glaydas Herzberg, of West Los Angeles, Calif., to the application of Revlon Products Corporation, of New York, N. Y., for registration of the mark "Seal-Fast" for a preparation for the nails.

The opposition was based on prior use by opposer of the mark "Seal-Cote" for a preparation similar to applicant's.

In his decision the Assistant Commissioner said:

"The sole question is whether the marks as applied to * * * identical goods are or are not confusingly similar.

"Both marks are highly suggestive that the preparations to which the marks are applied protect the manicure on the nails, 'Seal-Fast' suggesting that the protection is enduring, and 'Seal-Cote' suggesting that the protection is in the form of a coating. Accordingly the marks are quite similar in significance and meaning.

"Even if, as applicant contends, the word 'Seal' should be considered merely descriptive of the goods to which the marks are applied the marks must nevertheless be compared in their entireties and the comparison should not be limited to a comparison of only the words 'Fast' and 'Cote'. *Marshall Field & Company* v. *R. H. Macy & Co., Inc.*, 28 C. C. P. A. 807, 115 Fed. (2d) 921, 525 O. G. 8.

"It is not necessary to pass on the question raised by applicant that opposer's mark 'Seal-Cote' is merely descriptive of the goods. An opposer need not show exclusive right to the use of the similar mark. *California Cyanide Co.* v. *American Cyanamid Co.*, 17 C. C. P. A. 1198, 40 Fed. (2d) 1003, 399 O. G. 212.

"In my opinion the marks are so similar in appearance, sound and meaning that their concurrent use on the goods to which they are applied would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers."

TRADE-MARKS

OFFICIAL GAZETTE, MAY 25, 1943

[VOL. 550. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 447,146. PFISTER HYBRID CORN COMPANY, El Paso, Ill. Filed Sept. 18, 1941.

58

FOR SEED CORN.
Claims use since May 1, 1929.

Ser. No. 447,147. PFISTER HYBRID CORN COMPANY, El Paso, Ill. Filed Sept. 18, 1941.

5 x 8

FOR SEED CORN.
Claims use since May 1, 1929.

Ser. No. 447,148. PFISTER HYBRID CORN COMPANY, El Paso, Ill. Filed Sept. 18, 1941.

159 x 187

FOR SEED CORN.
Claims use since May 1, 1929.

Ser. No. 447,152. PFISTER HYBRID CORN COMPANY, El Paso, Ill. Filed Sept. 18, 1941.

199 x 177

FOR SEED CORN.
Claims use since May 10, 1938.

Ser. No. 447,154. LESTER PFISTER, El Paso, Ill. Filed Sept. 18, 1941.

187

FOR SEED CORN.
Claims use since July 21, 1925.

Ser. No. 447,155. LESTER PFISTER, El Paso, Ill. Filed Sept. 18, 1941.

187-1

FOR SEED CORN.
Claims use since July 21, 1925.

Ser. No. 447,156. LESTER PFISTER, El Paso, Ill. Filed Sept. 18, 1941.

187-2

FOR SEED CORN.
Claims use since July 21, 1925.

Ser. No. 447,159. LESTER PFISTER, El Paso, Ill. Filed Sept. 18, 1941.

159

FOR SEED CORN.
Claims use since July 21, 1925.

Ser. No. 447,161. LESTER PFISTER, El Paso, Ill. Filed Sept. 18, 1941.

199

FOR SEED CORN.
Claims use since July 15, 1934.

Ser. No. 447,162. LESTER PFISTER, El Paso, Ill. Filed Sept. 18, 1941.

177

FOR SEED CORN.
Claims use since May 6, 1937.

Ser. No. 459,217. EDGEWOOD FARMS, INC., Ridgefield, N. J. Filed Mar. 19, 1943.

Highlander



FOR GRASS SEEDS.
Claims use since January, 1942.

CLASS 2

RECEPTACLES

Ser. No. 457,439. GEORGE KOCH SONS, INC., Evansville, Ind. Filed Dec. 16, 1942.

Floratainer

FOR FLOWER POTS OF CONCRETE AND FLOWER BASKETS OF WOOD AND FIBROUS MATERIAL.
Claims use since August, 1942.

Ser. No. 458,068. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 21, 1943.

Firestone

FOR LATEX CUPS, PICNIC JUGS, VACUUM BOTTLES AND METALLIC BARRELS.
Claims use since on or about November, 1931, January, 1939, January, 1939, and August, 1933, respectively.

Ser. No. 459,145. L. BAMBERGER & Co., Newark, N. J. Filed Mar. 16, 1943.

BAMHALL

FOR LUNCH KITS, PICNIC BASKETS, MOTHPROOF BAGS, COAL HODS, AND FIREPLACE BASKETS.
Claims use since Dec. 14, 1942.

Ser. No. 459,284. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Mar. 23, 1943.

VUTILITY

FOR TRANSPARENT PLASTIC BOXES.
Claims use since Mar. 17, 1943.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 458,527. COLONY BAGS, INC., New York, N. Y. Filed Feb. 15, 1943.

RING LEADER

FOR LADIES' HANDBAGS.
Claims use since Sept. 3, 1942.

Ser. No. 459,184. CHAS T. WILT COMPANY, Chicago, Ill. Filed Mar. 17, 1943.

GLOBAL BAG

Applicant makes no claim to the word "Bag" apart from the mark.
FOR TRAVELING BAGS.
Claims use since Feb. 27, 1943.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 458,534. GEM PRODUCTS, INC., Milwaukee, Wis. Filed Feb. 15, 1943.

SPRUSUP

FOR SHOE POLISHES AND CLEANERS FOR WHITE SHOES.
Claims use since Dec. 31, 1942.

Ser. No. 458,811. S. C. JOHNSON & SON, INC., Racine, Wis. Filed Feb. 27, 1943.

DRAX

FOR AQUEOUS AND NONAQUEOUS WAX EMULSIONS WHICH MAKE ABSORBATIVE FIBROUS AND NONFIBROUS MATERIALS WATER PROOF AND WATER REPELLENT—NAMELY, LEATHER AND THE LIKE.
Claims use since Sept. 16, 1942.

CLASS 5

ADHESIVES

Ser. No. 458,983. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 9, 1943.

RAYO-SEAL

The word "Seal" is disclaimed apart from the mark.
FOR VULCANIZING CEMENT.
Claims use since May, 1939.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 455,485. STANDARD CHEMICAL PRODUCTS, INC., Hoboken, N. J. Filed Sept. 11, 1942.

LANAFIN

FOR CHEMICAL PREPARATION IN PASTE AND LIQUID FORM USED FOR FINISHING TEXTILES AS AN ADDITION TO SIZES, FINISHES, BOILOFFS, DELUSTRING, FELTING, AND DYEING PROCESSES.
Claims use since March, 1926.

Ser. No. 456,303. BURROUGHS WELLCOME & Co. (U. S. A.) INC., New York, N. Y. Filed Oct. 21, 1942. Under 10-year proviso.

BURROUGHS WELLCOME&CO. (U.S.A.) INC.

FOR ACETOPHENETIDIN; ACETYLCHOLINE BROMIDE; ACETYLSALICYLIC ACID; METHANOL, PURE METHYL, ALCOHOL; ALOIN; AMINOPHYLLINE; AMMONIA, AROMATIC; AMMONIATED QUININE; AMMONIUM BROMIDE; AMMONIUM CHLORIDE; AMMONIUM MANDELATE; AMYL NITRITE; ANTIMONY AND SODIUM TARTRATE WITH SODIUM CHLORIDE; ARSENIC TRIOXIDE; ARSENICAL COMPOUND WITH IRON AND CALCIUM; ASCARIDOLE; ASCORBIC ACID (CEVITAMIC ACID); ATROPINE SULFATE; BELLADONNA; BENEDICT TEST; BENZOIC ACID; BETANAPHTHOL; OX BILE EXTRACT (EXTRACTUM FELLIS BOVIS); PIG BILE EXTRACT (EXTRACTUM FELLIS PORCI); BISMUTH; BISMUTH SALICYLATE; BISMUTH SUBCARBONATE; BISMUTH SUBNITRATE; BLUE PILL, SQUILL AND DIGITALIS; BORAX METHYLENE BLUE; BORIC ACID; PHENOBARBITAL AND BROMIDES, EFF.; SODIUM BROMIDE; THREE BROMIDES, EFF.; BULBOCAPNINE PHOSPHATE; BUTYLCHLORAL HYDRATE; CAFFEINE WITH SODIUM BENZOATE; CAFFEINE, CITRATED; CALCIUM, BISMUTH AND MAGNESIUM CARBONATES; CALCIUM GLUCONATE; CALCIUM LACTATE; CALCIUM LEVULINATE; CALCIUM MANDELATE; CALOMEL; CALOMEL, RHUBARB AND COLOCYNTH COMPOUND; CAMPHOR; CARBARSONE; CAROTENE; CASCARA SAGRADA; CASCARA COMPOUND WITH NUX VOMICA AND HYOSCYAMUS, SUGAR-COATED; CASCARA AND GENTIAN COMPOUND WITH BELLADONA AND NUX VOMICA, SUGAR-COATED; CATHARTIC COMPOUND; CHAULMOOGRA OIL; CHINIOFON; CHLOROFORM; COCAINE HYDROCHLORIDE; CODEINE AND ITS SALTS; CODEINE AND BENZOIC ACID COMPOUND; COD LIVER OIL; COLCHICINE SALICYLATE; COLOCYNTH; CORROSIVE SUBLIMATE; DIGITALIS; DIGOXIN; DOVER POWDER; EASTON SYRUP; EHRLICH TRIPLE STAIN; EMETINE HYDROCHLORIDE; EMETINE AND BISMUTH IODIDE; EPHEDRINE AND SALTS; (HISTAMINE) ACID PHOSPHATE; ERGOMETRINE (ERGONOVINE); ERGOTOXINE ETHANESULFONATE; ERYTHRITYL TETRANITRATE; ETHYL IODO-RICINOLEATE; ETHYLMORPHINE HYDROCHLORIDE; EUCATROPINE HYDROCHLORIDE; FEHLING SUGAR TEST; FERROUS SULFATE; FLUORESCEIN; FUCHSINE; GENTIAN VIOLET; GLYCEROPHOSPHATES; GRAM IODINE; GREGORY POWDER; GUAIAC AND SULFUR; GUAIACOL CARBONATE; HEMALUM, HEMATOXYLIN; HEMOGLOBIN; HIRUDIN; HISTIDINE HYDROCHLORIDE; HOMATROPINE AND SALTS; HYDNOCARPUS OIL; HYOSCINE HYDROBROMIDE; ICHTHAMMOL; INDIGO-CARMINE; SOLUTION OF POSTERIOR PITUITARY; CALCIUM IODO-RICINOLEATE; IODINE; SODIUM TETRAIODOPHENOLPHTHALEIN; IPECAC; IRON AND AMMONIUM CITRATE, B. P.; IRON AND ARSENIC; IRON AND ARSENIC WITH QUININE AND STRYCHNINE; IRON CARBONATE SACCHARATED; IRON, QUININE AND STRYCHNINE PHOSPHATES; MENADIONE; TOILET LANOLINE; LAXATIVE VEGETABLE; MAGNESIUM SULFATE; MAGNESIUM TRISILICATE; MERCURIC POTASSIUM IODIDE; MERCUROUS IODIDE, YELLOW; MERCURY BICHLORIDE; MERCURY SUCCINIMIDE; METHANOL; METHENAMINE; METHYL VIOLET; METHYLENE BLUE; LAXAMEL WHITE MINERAL OIL COMBINED WITH MALT EXTRACT, LIQUID PETROLATUM; MINERAL OIL; MORPHINE AND SALTS; MUCIN; NASO-PHARYNGEAL COMPOUND; STIBAMINE GLUCOSIDE; NEUTRAL RED; NICOTINIC ACID; NICOTINIC ACID AMIDE; NUCLEO-LECITHIN; NUX VOMICA; OUABAIN; OVARIAN SUBSTANCE; PANCREATIN; PANTOTHENIC ACID; PARATHYROID GLAND; PEPSIN; PHENACETIN; PHENOBARBITAL; PHENOBARBITAL AND BROMIDES; PHYSOSTIGMINE AND SALTS; PILOCARPINE AND SALTS; PITUITARY GLAND; POTASSIUM IODIDE; POTASSIUM PERMANGANATE; PSEUDO-EPHEDRINE; PYRIDOXINE HYDROCHLORIDE; QUINIDINE SULFATE; QUININE, BELLADONNA AND CAMPHOR; QUININE BISULFATE; QUININE AND SALTS; QUININE AND URETHANE; REDUCED IRON; RHUBARB; RIBOFLAVIN; ROMANOWSKY STAIN; SACCHARIN; SALICIN; SALINE SOLUTION; SALOL; SCOPOLAMINE AND SALTS; SILVER NITRATE; SMELLING SALTS; RUSSELL VIPER VENOM; SODIUM P-AMINOPHENYLARSONATE; SODA-MINT; SODIUM BICARBONATE; SODIUM BIPHOSPHATE; SODIUM BROMIDE; SODIUM CACODYLATE; SODIUM CHLORIDE; SODIUM CITRATE; SODIUM MORRHUATE; SODIUM NITRITE; SODIUM PHOSPHATE (ACID); SODIUM SALICYLATE; SODIUM SALICYLATE (NATURAL); SODIUM TETRAIODOPHENOLPHTHALEIN; STILBESTROL; STROPHANTHIN; STROPHANTHUS; STRYCHNINE AND SALTS; SULFANILAMIDE; SULFUR; SUMBUL; RECTAL SUPPOSITORIES; THIAMINE HYDROCHLORIDE; THREE BROMIDES; THYROID; TINCTURE BELLADONNA; TINCTURE DIGITALIS; TINCTURE STROPHANTHUS; TOISIN BLOOD FLUID; TOLUIDINE BLUE; VASODILATOR COMPOUND; VEGETABLE, LAXATIVE; VICHY MINERAL WATER SALT; VITAMIN A; VITAMIN B; VITAMIN C; VITAMIN D; VITAMIN G; VITAMIN K; WASSERMANN ANTIGEN; HEMOLYTIC SERUM; ATROPINE SULFATE, U. S. P.; CASCARA, AROMATIC; CASCARA SAGRADA, FLUIDEXTRACT, OF U. S. P.; CHLOROFORM; DIGITALIS TINCTURE, U. S. P.; EMETINE AND BISMUTH IODIDE, B. P.; EMETINE HYDROCHLORIDE, U. S. P.; EPHEDRINE ALKALOID, U. S. P.; EPHEDRINE HYDROCHLORIDE, U. S. P.; EPHEDRINE SULFATE; (HISTAMINE) ACID PHOSPHATE; ERGOTOXINE ETHANESULFONATE, U. S. P.; ESERINE SALICYLATE; ESERINE SULFATE; HEMOGLOBIN B. P. C.; HIRUDIN; HOMATROPINE ALKALOID; HOMATROPINE HYDROBROMIDE, U. S. P.; IRON AND AMMONIUM CITRATE; B. P.; MERCURIC POTASSIUM IODIDE; MERCUROUS CHLORIDE; OUABAIN, U. S. P.; PHYSOSTIGMINE SALICYLATE, U. S. P.; PHYSOSTIGMINE SULFATE, B. P. C.; PILOCARPINE HYDROCHLORIDE, N. F. VI; PILOCARPINE NITRATE, U. S. P.; SODIUM SALICYLATE (PHYSIOLOGICALLY PURE), U. S. P.; STROPHANTHIN, U. S. P.; TINCTURE DIGITALIS, U. S. P.; WRIGHT STAIN (ROMANOWSKY); YEAST CONCENTRATE; ZINC SULFATE; ZINC SULFANILIC ACID.
Claims use since 1884.

Ser. No. 457,864. V. H. ROWLETT, doing business as Battery Life-O-Matic Products, Kansas City, Mo. Filed Jan. 11, 1943.

LIFE-O-MATIC

FOR COMPOSITION OF CHEMICALS FOR TREATING BATTERIES.
Claims use since Oct. 15, 1942.

Ser. No. 457,913. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo. Filed Jan. 14, 1943.

DEFENDER

FOR VITAMIN CAPSULES.
Claims use since Dec. 29, 1942.

Ser. No. 458,989. S. W. MILLS, doing business as S. W. Mills Liniment Co., Omaha, Nebr. Filed Mar. 9, 1943.

S.W.M.

FOR LINIMENT USED FOR THE RELIEF OF SWELLING AND STIFFNESS OF THE JOINTS, BURNS, AND SCALDS.
Claims use since October, 1941.

Ser. No. 459,130. PHYSICIANS PHARMACAL COMPANY, Oklahoma City, Okla. Filed Mar. 15, 1943.

LIBULES

FOR MEDICINAL AND PHARMACEUTICAL PREPARATIONS AS A COMPOUND AND COMBINATION OF LIVER EXTRACT, IRON, AND VITAMIN B_1, AS A GENERAL TONIC AND FOR THE TREATMENT OF SECONDARY ANEMIA, IN CAPSULES.
Claims use since Feb. 25, 1943.

Ser. No. 459,131. PHYSICIANS PHARMACAL COMPANY, Oklahoma City, Okla. Filed Mar. 15, 1943.

SEDADYNE

FOR MEDICINAL AND PHARMACEUTICAL PREPARATIONS AS AN ANALGESIC AND SEDATIVE FOR THE RELIEF OF PAIN AND TO ASSIST IN RELAXATION, AND TO INDUCE REST OR SLUMBER, IN COMPRESSED TABLET FORM.
Claims use since Nov. 10, 1940.

Ser. No. 459,253. VIRGIL E. BEASLEY, doing business as The V. E. Beasley Mfg. Co., San Antonio, Tex. Filed Mar. 22, 1943.



The portrait is that of Delores Wood.
FOR PREPARATION FOR THE TREATMENT FOR LOOSE DANDRUFF.
Claims use since Mar. 17, 1942.

Ser. No. 459,730. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Apr. 9, 1943.

KLEENORITE

FOR COUNTER ETCH USED IN REMOVING OXIDES AND FOREIGN MATTER FROM THE GRAINED SURFACES OF LITHOGRAPHIC PLATES.
Claims use since Nov. 20, 1940.

Ser. No. 459,731. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Apr. 9, 1943.

KOTEORITE

FOR SOLUTION USED FOR MAKING A LITHOGRAPHIC PLATE PHOTO-SENSITIVE.
Claims use since Nov. 20, 1940.

Ser. No. 459,732. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Apr. 9, 1943.

WASHORITE

FOR SOLUTION USED TO CLEAN BLANKETS AND ROLLERS USED IN PRINTING MACHINES.
Claims use since Nov. 20, 1940.

Ser. No. 459,733. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Apr. 9, 1943.

PROTECTORITE

FOR PREPARATION USED TO PRESERVE LITHOGRAPHIC PLATES WHEN THEY ARE TO BE STORED FOR LONG PERIODS OF TIME.
Claims use since Nov. 20, 1940.

Ser. No. 459,734. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Apr. 9, 1943.

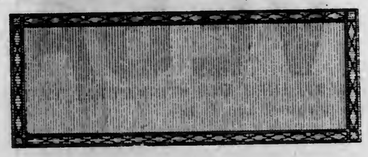
DAMPORITE

FOR FOUNTAIN ETCHES EMPLOYED IN THE LITHOGRAPHIC PROCESS.
Claims use since Nov. 20, 1940.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 456,866. ALFRED DUNHILL LIMITED, London, England. Filed Nov. 17, 1942.





The trade-mark consists of a series of two labels, one having a maroon centre with a border of blue diamonds on a yellow ground, and the other having a blue centre with a border of maroon diamonds on a yellow ground, the representation of the labels being disclaimed apart from the mark shown.
FOR TOBACCO PIPES, CIGAR HOLDERS, AND CIGARETTE HOLDERS.
Claims use since June 30, 1921.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 449,639. THE CELOTEX CORPORATION, Chicago, Ill. Filed Dec. 20, 1941.

CELOCRETE

FOR BUILDING BLOCKS COMPRISING AGGREGATE AND CEMENTITIOUS BINDER.
Claims use since Dec. 10, 1941.

Ser. No. 457,090. M. H. DETRICK COMPANY, Chicago, Ill. Filed Nov. 28, 1942.

THINSULITE

FOR REFRACTORY BLOCKS OR TILE EMPLOYED FOR THE CONSTRUCTION OF WALLS AND ARCHES, METAL MASONRY HOLDING AND SUPPORTING LUGS, AND FRAMES THEREFOR.
Claims use since Nov. 24, 1942.

Ser. No. 459,048. HYMAN KATZ, doing business as Katz Screen & Weatherstrip Co., Baltimore, Md. Filed Mar. 12, 1943.

WINSULITE

FOR STORM WINDOW.
Claims use since Jan. 16, 1941.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 458,136. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed Jan. 25, 1943.

DIRILYTE

FOR TABLE HOLLOW WARE MADE OF NON-PRECIOUS METAL.
Claims use since June 24, 1938.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,219. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed Mar. 19, 1943.

CROMOCO

FOR TOOL AND DIE STEELS.
Claims use since March, 1942.

Ser. No. 459,220. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed Mar. 19, 1943.

R T

FOR TOOL AND DIE STEELS.
Claims use since March, 1915.

CLASS 15

OILS AND GREASES

Ser. No. 458,972. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Mar. 8, 1943.

CYCLO VERSION

Hydrocarbon Products

No claim is made to the words "Hydrocarbon Products."
FOR GASOLINE.
Claims use since Feb. 19, 1943.

Ser. No. 459,404. FILMITE OIL CORPORATION, Milwaukee, Wis. Filed Mar. 20, 1943.

HYDROMITE

FOR CUTTING LUBRICANTS.
Claims use since Jan. 22, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 458,071. INERTOL COMPANY, INC., Newark, N. J. Filed Jan. 21, 1943.

RIGORTEX

FOR WATERPROOFING AND PROTECTIVE PAINT OR ENAMEL COATING FOR CONCRETE, STEEL, WOOD, PLASTER, MASONRY AND METAL SURFACES IN GENERAL.
Claims use since Jan. 7, 1943.

Ser. No. 459,227. THE MOTHTONE COMPANY, Needham, Mass. Filed Mar. 19, 1943.

Mothtone

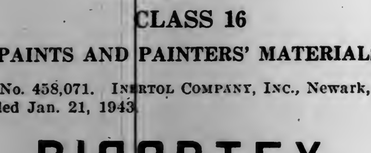
FOR MOTH-PROOFING PAINTS.
Claims use since Mar. 13, 1943.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 456,867. ALFRED DUNHILL LIMITED, London, England. Filed Nov. 17, 1942.





The trade-mark consists of a series of two labels, one having a maroon centre with a border of blue diamonds on a yellow ground, and the other having a blue center with a border of maroon diamonds on a yellow ground, the representation of the labels being disclaimed apart from the mark.

FOR TOBACCO, MANUFACTURED OR UNMANUFACTURED, CIGARS AND CIGARETTES.
Claims use since Sept. 23, 1920.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 455,808. VEGA AIRCRAFT CORPORATION, Burbank, Calif. Filed Sept. 26, 1942.

VEGA

FOR AIRPLANES AND STRUCTURAL PARTS.
Claims use since Feb. 10, 1940.

Ser. No. 455,809. VEGA AIRCRAFT CORPORATION, Burbank, Calif. Filed Sept. 26, 1942.

VEGA

FOR AIRPLANES AND STRUCTURAL PARTS.
Claims use since Aug. 8, 1941.

Ser. No. 457,964. THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y. Filed Jan. 18, 1943.

SAMSON

FOR REINFORCING BACKS FOR BRAKE SHOES.
Claims use since Mar. 31, 1933.

Ser. No. 457,965. THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y. Filed Jan. 18, 1943.

DUPLANE

FOR REINFORCING BACKS FOR BRAKE SHOES.
Claims use since Nov. 29, 1929.

Ser. No. 458,465. PENN YAN BOATS, INCORPORATED, Penn Yan, N. Y. Filed Feb. 10, 1943.

CARTOP

The representation of the boat is disclaimed apart from the mark.

FOR BOATS FOR ROWING, PADDLING AND OUTBOARD MOTOR USE.
Claims use since May 5, 1942.

Ser. No. 459,133. PLY-MOLD CORPORATION, Glendale, Calif. Filed Mar. 15, 1943.



FOR TRAILERS AND AIRPLANE WINGS AND CONTROL SURFACES.
Claims use since Feb. 15, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 437,014. THE RICHARDSON COMPANY, Lockland, Ohio. Filed Oct. 16, 1940.



FOR ARTICLES AND MOLDED PLASTIC PARTS FOR USE IN ELECTRICAL APPARATUS.
Claims use since October, 1931.

Ser. No. 455,204. EVANS-WINTER-HEBB, INC., Detroit, Mich. Filed Aug. 31, 1942.

INSTASET

FOR ELECTRICAL EQUIPMENT—NAMELY, ELECTRICALLY INSULATING PANELS, ELECTRICALLY INSULATING WASHERS AND BUSHINGS, BUS-BAR SUPPORTS, ELECTRICAL DISTRIBUTOR HEADS, IGNITION INSULATION, IGNITION TIMERS, DIALS FOR RADIO AND THE LIKE, KNOBS FOR RHEOSTATS, CONDENSERS, AND THE LIKE, SWITCH BASES, SWITCH HANDLES, CONDENSER END PLATES, JUNCTION BLOCKS, GENERATORS (INSULATED PARTS), ELECTRICALLY INSULATING MATERIAL FOR PARTS OF POTENTIOMETERS, ELECTRICALLY-INSULATED THUMB NUTS AND KNOBS, ELECTRICALLY INSULATING SOCKETS, JUNCTION BOXES, INSULATORS, ROTORS, CONNECTERS, TELEPHONE AND RADIO JACKS, COMMUTATORS, TELEPHONE-RECEIVER SHELLS, TELEPHONE EAR CAPS, INSULATORS FOR ELECTROMAGNETS OF ANNUNCIATORS, INSULATORS FOR SIGNAL DEVICES, ELECTRIC METER COVERS AND BASES, TUBE SOCKETS, SPOOLS FOR RECEIVING ELECTRICAL WINDINGS, BOBBIN HEADS FOR ELECTROMAGNETIC COILS, MOTOR AND DYNAMO BRUSH HOLDERS, TELEPHONE SWITCH MEMBERS, TELEPHONE MOUTHPIECES, ELECTRICALLY INSULATING PARTS FOR WATER HEATERS, ELECTRICAL PUSH BUTTONS, FUSE BLOCKS, RHEOSTAT BASES; PARTS FOR ELECTRIC CURLING, SOLDERING, AND FLAT IRONS—NAMELY, HANDLES, HANDLE-PLUGS, AND ELECTRICALLY INSULATING PARTS; VACUUM-TUBE BASES, LAMP SOCKETS, SPARK INTENSIFIERS; INSULATORS FOR MOTOR AND FLEXIBLE-SHAFT DRILLS, HIGH TENSION TERMINAL POSTS FOR X-RAY TUBES, AND HANDLES AND TOGGLES FOR ELECTRICAL EXPLORING LIGHTS; ELECTRICAL CONDENSER CASES; SPARK PLUG COVERS, WIRING CHANNELS, RADIO EAR PHONES, TRANSFORMER PARTS AND CASES, ELECTRIC PIANO CONTROLS, REFILLABLE FUSE CASES; ELECTRIC ELEVATOR PARTS—NAMELY, DASH-POTS FORMING PART OF THE ELECTRICAL CONTROL OF THE ELEVATOR, ELECTRIC CONTROL AND SWITCHBOARD INSULATORS; HEAT REGULATOR INSULATION, PLUGS AND RECEPTACLES FOR MULTI-PLEX TELEGRAPHY APPARATUS, ELECTRICAL CABLE TERMINALS, ELECTRIC-VACUUM CLEANER INSULATION, PANEL SWITCHES, ATTACHMENT PLUGS, TELEPHONE GRID LEAKS PLUGS, JACK PLUG BOXES, UNITARY HAND OPERATED ELECTRIC DRILLS, VERNIER DIALS FOR RADIOS, SWITCH AND OUTLET PLATES, ELECTRICAL BRUSHES, ELECTRICAL CIGAR LIGHTERS, ADAPTERS MADE OF EECTRICALLY INSULATING MATERIAL FOR RADIO-TUBE SOCKETS, HOUSE WIRING AND POWER WIRING INSULATORS, ELECTRIC FAN BLADES, INSULATING SHELLS AND BLOCKS FOR TRAFFIC CONTROL SIGNALS.
Claims use since Aug. 5, 1942.

Ser. No. 457,198. COMBUSTION CONTROL CORPORATION, Cambridge, Mass. Filed Dec. 4, 1942.

fireye

FOR ELECTRIC APPARATUS FOR VARYING THE CURRENT INTENSITY IN A CONTROLLED CIRCUIT, DEPENDENT UPON VARIATIONS OF RADIANT ENERGY AFFECTING A CONTROLLED CIRCUIT, SAID APPARATUS ADAPTED FOR USE WITH INDUSTRIAL EQUIPMENT INCLUDING SIGNALS, SAFETY APPLIANCES, COUNTERS, COMBUSTION SUPERVISORS.
Claims use since March, 1942.

Ser. No. 458,049. SAMUEL SQUILLER, McKees Rocks, Pa. Filed Jan. 20, 1943.

MOTOAIR

FOR ELECTRIC MOTOR DRIVEN AIR COMPRESSOR PUMPS.
Claims use since July, 1936.

Ser. No. 458,120. ROGERS DIESEL AND AIRCRAFT CORPORATION, New York, N. Y. Filed Jan. 23, 1943.



FOR ELECTRIC GENERATORS AND SWITCHBOARDS.
Claims use since June 15, 1942.

Ser. No. 459,209. SPRAGUE SPECIALTIES COMPANY, North Adams, Mass. Filed Mar. 18, 1943.

VITAMIN Q

FOR ELECTRICAL CONDENSERS.
Claims use since June 13, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 459,506. GEO. BORGFELDT CORPORATION, New York, N. Y. Filed Mar. 30, 1943.

LITTLE DUCHESS PARTY SET

The term "Party Set" is not claimed apart from the mark.

FOR TOY DISHES.
Claims use since Mar. 20, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 444,812. ULRICH MANUFACTURING CORPORATION, Shelbyville, Ill. Filed June 24, 1941.

OVALIZE

FOR TOOLS—NAMELY, A RECESSING CUTTER FOR CUTTING A RECESS ADJACENT THE PIN BOSSES IN A PISTON.
Claims use since Oct. 22, 1940.

Ser. No. 459,548. MEIK BROS. PROPRIETARY LIMITED, Collingwood, near Melbourne, Australia. Filed Mar. 31, 1943.

JASON

FOR RAZOR STROPS AND MACHINES OR APPARATUS FOR STROPPING AND SHARPENING RAZOR BLADES, AND PARTS OF SUCH MACHINES OR APPARATUS.
Claims use since November, 1933.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 458,869. AUGUST C. PURPURA, doing business as The Automatic Electric Appliance Co., Chicago, Ill. Filed Mar. 2, 1943.

DRYMASTER

FOR ELECTRIC LAUNDRY DRIER FOR HOUSEHOLD USE.
Claims use since May 22, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 451,490. LEE ANDREW DUROCHER, doing business as Norco Refrigerator & Radio Sales, Norco, La. Filed Mar. 9, 1942.

RING MASTER

FOR ELECTRICALLY OPERATED TIME CONTROLLED INDICATOR FOR CORRECTLY WARNING FIGHT PERIODS, REST PERIODS AND THE LIKE.
Claims use since Oct. 28, 1936.

Ser. No. 458,752. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio. Filed Feb. 25, 1943.

DI-NOC • CRAMER

No claim is made for the name "Cramer" apart from the mark.
FOR METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON.
Claims use since Nov. 24, 1942.

Ser. No. 458,753. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio. Filed Feb. 25, 1943.

DI-NOC • CRAMER Photo-Loft

No claim is made for the name "Cramer" and the word "Photo" apart from the mark.
FOR METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON.
Claims use since Nov. 24, 1942.

Ser. No. 458,754. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio. Filed Feb. 25, 1943.

Photo-Loft

No claim is made to the word "Photo" apart from the mark.
FOR METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON.
Claims use since Nov. 24, 1942.

Ser. No. 458,878. THE HARLEQUIN CORPORATION, New York, N. Y. Filed Mar. 3, 1943.

TACTIC

FOR OPHTHALMIC MOUNTINGS AND LENSES AND PARTS THEREOF.
Claims use since Feb. 20, 1943.

Ser. No. 459,262. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y. Filed Mar. 22, 1943. Under 10-year proviso.

DURKEE

FOR CALIPERS, COMPASSES, DIVIDERS, BEVELS, GAUGES, AND PLUMB BOBS.
Claims use since 1870.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 457,258. STETSON CHINA COMPANY, Chicago, Ill. Filed Dec. 7, 1942.

Heritage

FOR DISHES, CUPS, SAUCERS, PLATES, PLATTERS, SERVING BOWLS MADE OF PORCELAIN.
Claims use since Nov. 1, 1941.

Ser. No. 458,797. IGNAZ STRAUSS CO., INC., New York, N. Y. Filed Feb. 26, 1943.

ISCO

FOR POTTERY CANDY BOXES, POTTERY FERN DISHES, POTTERY FLOWER BOWLS, POTTERY FLOWER HOLDERS, AND POTTERY FLOWER POTS, POTTERY COOKIE JARS, POTTERY VASES, POTTERY GINGER JARS, AND POTTERY BOWLS.
Claims use since Jan. 4, 1943.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 453,888. CHRYSLER CORPORATION, Highland Park, Mich., and Dayton, Ohio. Filed June 26, 1942.

FORMDUX

FOR VENTILATING PREFABRICATED DUCT SECTIONS, STRUCTURE PANELS FOR VENTILATING DUCTS, CONNECTORS FOR JOINING VENTILATING DUCT SECTIONS TO EACH OTHER, VENTILATING DUCT FITTINGS, AND VENILATING DUCT REGISTERS.
Claims use since May 22, 1942.

Ser. No. 458,929. BEATTIE PRODUCTS, INC., New York, N. Y. Filed Mar. 6, 1943.

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FOR PYROPHORIC, CATALYTIC, AND PILOT CIGARETTE LIGHTERS.
Claims use since January, 1940.

Ser. No. 459,263. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y. Filed Mar. 22, 1943. Under 10-year proviso.

DURKEE

FOR COMBINATION VENTILATORS AND DECK PLATES, HOOD VENTILATORS, MUSHROOM, ADJUSTABLE CAP AND SHUTTER VENTILATORS, PORTHOLE AIR SCOOPS, LIVERPOOL HEADS, WIND SCOOPS, PILOT HEADS, AND OIL, WAX, VAPOR AND GAS MARINE LAMPS.
Claims use since 1870.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 458,838. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 1, 1943.

KRAFTRED

No claim is made to the word "Tred" alone.
FOR RETREADS FOR PNEUMATIC TIRES.
Claims use since July 10, 1940.

Ser. No. 459,370. IRVINGTON VARNISH & INSULATOR CO., Irvington, N. J. Filed Mar. 26, 1943.

IRV-O-FLEX

FOR FLEXIBLE EXTRUDED PLASTIC TUBING.
Claims use since Dec. 17, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 451,230. FASTENER CORPORATION, Chicago, Ill. Filed Feb. 26, 1942.

DUO-FAST

Applicant disclaims the word "Fast" apart from the mark.

FOR HAND OPERATED TOOLS FOR STAPLING PAPER AND SIMILAR MATERIALS.

Claims use since Apr. 5, 1940.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 458,102. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Jan. 22, 1943.

THE YANKEE RANGERS

FOR NEWSPAPER SECTION OR DEPARTMENT.

Claims use since Dec. 8, 1942.

Ser. No. 459,041. AMERICAN MOLASSES COMPANY, New York, N. Y. Filed Mar. 12, 1943.

Meal-Craft

FOR PERIODICALS THE SUBJECT MATTER OF WHICH RELATES TO FOOD PRODUCTS.

Claims use since October 1942.

CLASS 39

CLOTHING

Ser. No. 446,613. BRYAN FULL FASHIONED MILLS, INC., Chattanooga, Tenn. Filed Aug. 28, 1941.

Threads of Romance

The word "Threads" is disclaimed apart from the mark.

FOR HOSIERY.

Claims use since June 5, 1941.

Ser. No. 458,100. JULIUS KAYSER & CO., New York, N. Y. Filed Jan. 22, 1943.

Sockins

FOR HOSIERY, ANKLETS, AND PROTECTIVE SOCKS.

Claims use since June 1, 1942.

Ser. No. 458,111. COOPER'S, INCORPORATED, Kenosha, Wis. Filed Jan. 23, 1943.

Coopers

The trade-mark is the facsimile signature of Henry S. Cooper, secretary of applicant's predecessor, Cooper Underwear Company.

FOR SPORT SHIRTS AND SWEATERS FOR MEN AND BOYS.

Claims use since June 19, 1929, on sportswear; and since Aug. 10, 1932, on sweaters.

Ser. No. 458,847. PARK KNITWEAR CO. INC., New York, N. Y. Filed Mar. 1, 1943.

PARKNIT

FOR WOMEN'S SWEATERS, BATHING SUITS, AND JACKETS.

Claims use since Feb. 1, 1942.

Ser. No. 458,950. PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y. Filed Mar. 6, 1943.

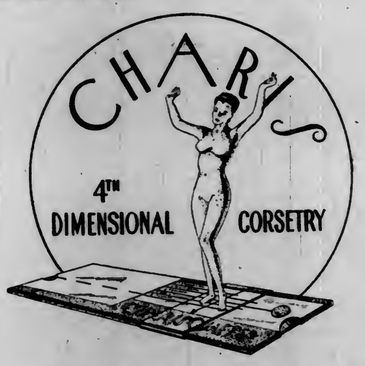
SPORT LODGE

No claim is made to the word "Sport" apart from the mark.

FOR MEN'S OUTER SHIRTS, HATS, BATH AND LOUNGING ROBES, PAJAMAS, BELTS IN THE NATURE OF GARMENT SUPPORTERS, SUSPENDERS, AND GLOVES MADE OF LEATHER, FABRIC, RUBBER, AND/OR ANY COMBINATIONS THEREOF.

Claims use since Feb. 25, 1942.

Ser. No. 459,163. CHARIS CORPORATION, Allentown, Pa. Filed Mar. 17, 1943.



Applicant disclaims the words "Dimensional Corsetry" except as shown.

FOR CORSETS AND FOUNDATION GARMENTS.

Claims use since Jan. 21, 1943.

Ser. No. 459,310. MARILYN SHOE COMPANY, Milwaukee, Wis. Filed Mar. 24, 1943.

Kickerinos

FOR SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF FOR GROWING GIRLS, MISSES, AND WOMEN.

Claims use since Feb. 15, 1943.

Ser. No. 459,415. HART, SCHAFFNER & MARX, Chicago, Ill. Filed Mar. 27, 1943.

SUBURBIA

FOR MEN'S AND BOYS' SUITS, COATS, OVERCOATS, TOPCOATS, VESTS, TROUSERS, KNICKERBOCKERS, AND BREECHES.

Claims use since Mar. 15, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 456,670. SEYMOUR GOTTESMAN, New York, N. Y. Filed Nov. 6, 1942.

FINEST
Delwyn Tweeds

Applicant disclaims the expressions "Finest" and "Tweeds."

FOR WOOLENS, SILKS, COTTONS, RAYONS, AND COMBINATIONS THEREOF IN THE PIECE.

Claims use since July 5, 1942.

Ser. No. 458,606. I. A. WYNER & CO. INC., New York, N. Y. Filed Feb. 17, 1943.

WYNCORD

FOR PIECE GOODS MADE OF COTTON, RAYON, WOOL, MOHAIR, ALPACA, AND COMBINATIONS THEREOF, AND PILE FABRICS.

Claims use since Mar. 10, 1942.

Ser. No. 458,866. PACIFIC MILLS, Boston, Mass. Filed Mar. 2, 1943.

PACIFIC

FOR RAYON PIECE GOODS.

Claims use since 1928.

Ser. No. 459,167. COHN-HALL-MARX CO., New York, N. Y. Filed Mar. 17, 1943.

COHAMelton

FOR COTTON, RAYON, AND/OR SILK PIECE GOODS OR COMBINATIONS THEREOF.

Claims use since Feb. 17, 1943.

Ser. No. 459,178. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y. Filed Mar. 17, 1943.

CONSTELLATION

FOR PIECE GOODS OF SILK, RAYON, MIXTURES OF SILK AND RAYON, SILK AND WOOL, SILK AND COTTON, AND RAYON AND COTTON.

Claims use since Mar. 4, 1943.

Ser. No. 459,245. MAX MANDEL, New York, N. Y. Filed Mar. 20, 1943.

Spick and Span

FOR SHIRTINGS AND FABRICS OF COTTON, SILK AND RAYON IN THE PIECE, AND WOOLEN FABRICS IN THE PIECE.

Claims use since May 1, 1919.

Ser. No. 459,285. THE FORSTMANN WOOLEN CO., Passaic, N. J. Filed Mar. 23, 1943.

Velchilla

FOR WOOLEN PIECE GOODS.

Claims use since Mar. 1, 1943.

Ser. No. 459,329. COLONIAL MILLS, INC., New York, N. Y. Filed Mar. 25, 1943.

Twinkle Star

FOR RAYON PIECE GOODS.
Claims use since January 1936.

Ser. No. 459,375. PACIFIC MILLS, Lawrence and Boston, Mass. Filed Mar. 26, 1943.

TRUTH

FOR SHEETS AND PILLOWCASES.
Claims use since 1924.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 458,952. RICKERFOR & SALADINO, doing business as Rickey-Sal All-in-One, New Orleans, La. Filed Mar. 6, 1943.

Rickey-Sal All-in-One

No claim is made to the word "Rickey."
FOR NONALCOHOLIC CONCENTRATED LIQUID PRODUCT FOR USE IN MAKING MIXED DRINKS.
Claims use since Mar. 3, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 441,708. MID-WEST MUSHROOM COMPANY, Kansas City, Mo. Filed Mar. 19, 1941.



The word "Special" is disclaimed apart from the mark.
FOR CANNED MUSHROOMS.
Claims use since Oct. 8, 1938.

Ser. No. 451,105. ESKIMO PIE CORPORATION, Bloomfield, N. J. Filed Feb. 20, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

ARMY

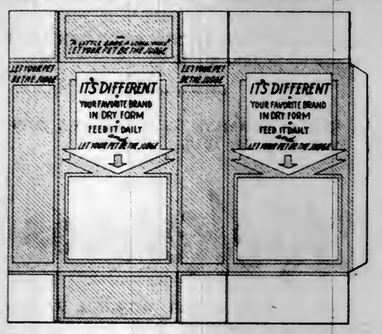
FOR ICE CREAM.
Claims use since July 31, 1941.

Ser. No. 451,900. MARKETS, INC., Oakland, Calif. Filed Mar. 25, 1942.



The picture is fanciful.
FOR CANNED FRUITS.
Claims use since Nov. 6, 1941.

Ser. No. 454,776. N. C. COAN, doing business as Animal Foods Company, Alert Products Co., Bar-None Sales Co., Delight Dog Food Co., and Hi-Test Products Co., San Jose, Calif., and Houston, Tex. Filed Aug. 7, 1942.



Applicant is the owner of trade-mark registration No. 300,714. The representation of the carton per se, and the wording "A Little Goes a Long Way," "It's Different," "Your Favorite Brand in Dry Form," "Feed It Daily and" are disclaimed apart from the mark. The drawing is lined for the color green which color is disclaimed apart from the mark.
FOR FOODS IN CONCENTRATED AND DEHYDRATED, PACKAGED FORM FOR PET ANIMALS SUCH AS DOGS AND CATS.
Claims use since June 11, 1942.

Ser. No. 458,664. SOCIEDAD AUXILIAR FABRIL, AGRICOLA & COMERCIAL S. A., Buenos Aires, Argentina. Filed Feb. 20, 1943.



Applicant is the owner of trade-mark registration No.

340,975, dated Nov. 24, 1936. The representation of the container is disclaimed apart from the mark. The drawing is lined for brown, blue, and red.
FOR YERBA MATE.
Claims use since January, 1940.

Ser. No. 458,965. EDGAR F. HURFF COMPANY, Swedesboro, N. J. Filed Mar. 8, 1943.



No claim is made to the representation of the fruit and its juice apart from the mark.
FOR CANNED TOMATO JUICE.
Claims use since Aug. 19, 1940.

Ser. No. 459,250. ALLEN & SANDILANDS, Porterville, Calif. Filed Mar. 22, 1943.

TECUMSEH CHIEF

FOR FRESH CITRUS FRUITS.
Claims use since Dec. 5, 1942.

Ser. No. 459,267. HOUSEHOLD PRODUCTS CO., Chicago, Ill. Filed Mar. 22, 1943.

RAPIER

FOR COFFEE SUBSTITUTE.
Claims use since December, 1942.

Ser. No. 459,273. SERV-AGEN CORP., Philadelphia, Pa. Filed Mar. 22, 1943.



Applicant disclaims the word "Gravy" apart from the mark.
FOR PREPARATION OF FLOUR (WHEAT AND/OR TAPIOCA), SALT, BURNT SUGAR, WHEAT PROTEIN DERIVATIVE (ARTIFICIAL SEASONING), DEHYDRATED VEGETABLES, AND SPICES FOR THE MAKING OF GRAVY.
Claims use since October, 1940.

Ser. No. 459,524. MCKEON CANNING CO., INC., Burbank, Calif. Filed Mar. 30, 1943.

CHERISH

FOR CANNED VEGETABLES—NAMELY, HOMINY AND LIMA BEANS.
Claims use since Jan. 1, 1922.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 458,757. FRANKFORT DISTILLERIES, INCORPORATED, Louisville, Ky. Filed Feb. 25, 1943.

"Antique"

Applicant is the owner of Reg. No. 339,320, registered Oct. 6, 1936.
FOR WHISKEY.
Claims use since January, 1936, for present display; and since July 1, 1922, for word "Antique."

Ser. No. 459,292. BARDINET, LTD., New York, N. Y. Filed Mar. 24, 1943.

Kiprisky

FOR ALCOHOLIC CORDIALS.
Claims use since Sept. 16, 1942.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 458,933. CONLEY & STONE, Atlanta, Ga. Filed Mar. 6, 1943.

"Yard-Bird egg"

No claim is made to the words "Bird" and "Egg" apart from the mark.
FOR PAPER WEIGHT SOUVENIR IN THE NATURE OF A BIRD EGG.
Claims use since Dec. 2, 1942.

Ser. No. 459,087. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa. Filed Mar. 13, 1943.

CONVOY

FOR PACKAGE CONSISTING OF V-MAIL STATIONERY, WRITING FLUID, AND LEADS FOR A MECHANICAL PENCIL.
Claims use since Mar. 9, 1943.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 25, 1943

401,497. GLASS BOTTLES. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed December 18, 1940. Serial No. 438,998. PUBLISHED MARCH 2, 1943. Class 33.

401,498. BRANDY, ANISETTE, DISTILLED ALCOHOLIC LIQUEURS, CORDIALS AND ALCOHOLIC APERATIVES, ALCOHOLIC BITTERS. SOCIEDAD ANONIMA VINEDOS Y BODEGAS ARIZU, Buenos Aires, Argentina.
Filed May 9, 1941. Serial No. 443,436. PUBLISHED MARCH 2, 1943. Class 49.

401,499. FERTILIZER. CLYDE VAUGHN, doing business as Pestless Products Company, Pasadena, Calif.
Filed June 28, 1941. Serial No. 444,949. PUBLISHED MARCH 16, 1943. Class 10.

401,500. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed July 16, 1941. Serial No. 445,387. PUBLISHED MARCH 16, 1943. Class 6.

401,501. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed July 16, 1941. Serial No. 445,388. PUBLISHED MARCH 16, 1943. Class 6.

401,502. MEN'S AND WOMEN'S SPORTSWEAR—NAMELY, SPORT SHIRTS, POLO SHIRTS, CARDIGANS, SLIPONS, SPORT JACKETS, SHORTS, SKIRTS, BLOUSES, AND CHILDREN'S JERSEY SUITS. AUGUSTA KNITTING CORPORATION, Utica, N. Y.
Filed October 3, 1941. Serial No. 447,502. PUBLISHED DECEMBER 16, 1941. Class 39.

401,503. CANDY. M. & M. LIMITED, Newark, N. J.
Filed October 16, 1941. Serial No. 447,846. PUBLISHED MARCH 16, 1943. Class 46.

401,504. FLUID MILK. THE BORDEN COMPANY, New York, N. Y.
Filed November 26, 1941. Serial No. 448,934. PUBLISHED MARCH 3, 1942. Class 46.

401,505. ACID CLEANER COMPOSITION. PAUL W. BONEWITZ, doing business as P. W. Bonewitz Company, Burlington, Iowa, assignor to The Rex Company, Burlington, Iowa, a corporation of Iowa.
Filed December 31, 1941. Serial No. 449,882. PUBLISHED MARCH 16, 1943. Class 4.

401,506. ACID CLEANER COMPOSITION. PAUL W. BONEWITZ, doing business as P. W. Bonewitz Company, Burlington, Iowa, assignor to The Rex Company, Burlington, Iowa, a corporation of Iowa.
Filed December 31, 1941. Serial No. 449,883. PUBLISHED MARCH 16, 1943. Class 4.

401,507. LADIES' AND MISSES' SUITS, BLOUSES AND DRESSES. FAMOUS BLOUSES, INC., New York, N. Y.
Filed January 3, 1942. Serial No. 449,977. PUBLISHED MARCH 10, 1942. Class 39.

401,508. MOTOR DRIVEN OIL BURNERS FOR FIRING DOMESTIC OR HOUSEHOLD FURNACES OF THE WARM AIR, STEAM, OR HOT WATER TYPE. HALL-NEAL FURNACE CO., Indianapolis, Ind.
Filed January 12, 1942. Serial No. 450,161. PUBLISHED MARCH 16, 1943. Class 34.

401,509. SLIPPERS OF FABRICS SUCH AS ABSORBENT COTTON CHENILLE. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed January 15, 1942. Serial No. 450,231. PUBLISHED MARCH 2, 1943. Class 39.

401,510. PREPARATIONS CONTAINING ACTIVE HORMONAL COMPOUNDS IN THE FORM OF TABLETS, PILLS, LOZENGES, CACHETS, CAPSULES, ETC. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed January 17, 1942. Serial No. 450,289. PUBLISHED MARCH 16, 1943. Class 6.

401,511. LOCK-NUTS. NATIONAL MACHINE PRODUCTS COMPANY, Detroit, Mich.
Filed January 20, 1942. Serial No. 450,338. PUBLISHED MARCH 16, 1943. Class 13.

401,512. LADIES' AND MISSES' COATS AND SUITS. TOBIAS KLIPSTEIN INC., New York, N. Y.
Filed January 28, 1942. Serial No. 450,542. PUBLISHED MARCH 31, 1942. Class 39.

401,513. STOP LEAK COMPOUNDS. RUST MASTER CHEMICAL CORPORATION, Boston, Mass.
Filed January 28, 1942. Serial No. 450,551. PUBLISHED MARCH 16, 1943. Class 6.

401,514. MEN'S, WOMEN'S, BOYS', GIRLS', AND INFANTS' WEARING APPAREL MADE WHOLLY OF WOOL—NAMELY, OVERCOATS, CAPES, CLOAKS ETC. WOOL INDUSTRIES RESEARCH ASSOCIATION, Leeds, England.
Filed March 2, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 451,354. PUBLISHED MARCH 16, 1943. Class 39.

401,515. STENCIL CLOTH. SILK SCREEN SUPPLIES, INC., Brooklyn, N. Y.
Filed March 3, 1942. Serial No. 451,368. PUBLISHED MARCH 2, 1943. Class 42.

401,516. SHOES MADE OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. CANNON SHOE COMPANY, Baltimore, Md.
Filed March 11, 1942. Serial No. 451,546. PUBLISHED MAY 19, 1942. Class 39.

401,517. PREPARATION FOR REMOVING SPOTS AND LIQUOR, HEAT, WATER, AND PAINT MARKS, AND FOR CLEANING FINISHED SURFACES. IDA JACKSON, doing business as Jackson of London Products, New York, N. Y.
Filed March 18, 1942. Serial No. 451,717. PUBLISHED MARCH 16, 1943. Class 4.

401,518. MEN'S SWEATERS. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill.
Filed March 27, 1942. Serial No. 451,926. PUBLISHED MAY 19, 1942. Class 39.

401,519. VESTS AND JACKETS FOR MEN, WOMEN, AND CHILDREN. CURRICK & LEIKEN CO. INC., New York, N. Y.
Filed April 9, 1942. Serial No. 452,240. PUBLISHED MARCH 16, 1943. Class 39.

401,520. PHOTOGRAPHIC COLOR ENLARGEMENTS. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed May 1, 1942. Serial No. 452,718. PUBLISHED DECEMBER 8, 1942. Class 38.

401,521. UNIFORM CAPS. WORCESTER CAP COMPANY, Boston, Mass.
Filed May 9, 1942. Serial No. 452,916. PUBLISHED JULY 14, 1942. Class 39.

401,522. SHOES MADE FROM LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF THESE MATERIALS. THE SELBY SHOE COMPANY, Portsmouth, Ohio.
Filed May 15, 1942. Serial No. 453,041. PUBLISHED FEBRUARY 16, 1943. Class 39.

401,523. SHOES MADE FROM LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF THESE MATERIALS. THE SELBY SHOE COMPANY, Portsmouth, Ohio.
Filed May 15, 1942. Serial No. 453,043. PUBLISHED FEBRUARY 16, 1943. Class 39.

401,524. MEASURING, RECORDING, AND INDICATING DEVICES—NAMELY, SPEEDOMETERS, ODOMETERS, TACHOMETERS, AND COUNTERS, AND PARTS THEREOF. WALTHAM WATCH COMPANY, Waltham, Mass.
Filed May 26, 1942. Serial No. 453,285. PUBLISHED MARCH 16, 1943. Class 26.

401,525. WINES. THE ARDRICH COMPANY, London, England.
Filed July 4, 1942. Serial No. 454,048. PUBLISHED MARCH 9, 1943. Class 47.

401,526. FLUID BURNING FURNACES. PETRO-CHEM DEVELOPMENT COMPANY, New York, N. Y.
Filed July 8, 1942. Serial No. 454,103. PUBLISHED MARCH 16, 1943. Class 34.

401,527. SHOES MADE OF LEATHER, FABRIC, OR RUBBER, OR COMBINATIONS OF SUCH MATERIALS. STEPHEN J. BROUWER, Milwaukee, Wis.
Filed July 10, 1942. Serial No. 454,131. PUBLISHED SEPTEMBER 8, 1942. Class 39.

401,528. OX TONGUES PRESERVED IN TINS. McCALL & COMPANY, LIMITED, Gerrards Cross, England.
Filed July 10, 1942. Serial No. 454,145. PUBLISHED MARCH 16, 1943. Class 46.

401,529. CAUSTIC SODA, SODA ASH, LIQUID CHLORINE, BICARBONATE OF SODA, MODIFIED SODAS, AND CAUSTIC ASH. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed July 15, 1942. Serial No. 454,237. PUBLISHED MARCH 16, 1943. Class 6.

401,530. CORRESPONDENCE AND MAILING ENVELOPES. CURTIS 1000 INCORPORATED, St. Paul, Minn.
Filed July 16, 1942. Serial No. 454,247. PUBLISHED MARCH 16, 1943. Class 37.

401,531. COTTON PIECE GOODS. FISBA FABRICS, INC., New York, N. Y.
Filed July 31, 1942. Serial No. 454,632. PUBLISHED MARCH 16, 1943. Class 42.

401,532. APPARATUS IN TELEPHONE SYSTEMS—NAMELY, SUB-STATION PROTECTORS, CENTRAL-OFFICE DISTRIBUTING FRAMES, PROTECTED AND UNPROTECTED TERMINAL UNITS, AND UTILITY PROTECTORS. COOK ELECTRIC COMPANY, Chicago, Ill.
Filed August 21, 1942. Serial No. 455,016. PUBLISHED MARCH 16, 1943. Class 21.

401,533. MEN'S OUTER SHIRTS; WOMEN'S DRESSES; MEN'S HALF HOSE; MEN'S SWEATERS, PULLOVERS, AND CARDIGANS; WOMEN'S CARDIGANS AND JUMPERS; CHILDREN'S SWEATERS; MEN'S LEATHER SHOES; AND MEN'S AND WOMEN'S HOUSE SLIPPERS. MARKS AND SPENCER SALES CORPORATION, New York, N. Y.
Filed September 5, 1942. Serial No. 455,376. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,534. MOPS AND MOP HEADS. W. A. BALLINGER & Co., San Francisco, Calif.
Filed September 7, 1942. Serial No. 455,388. PUBLISHED MARCH 16, 1943. Class 29.

401,535. MOPS AND MOP HEADS. W. A. BALLINGER & Co., San Francisco, Calif.
Filed September 7, 1942. Serial No. 455,389. PUBLISHED MARCH 16, 1943. Class 29.

401,536. MOPS AND MOP HEADS. W. A. BALLINGER & Co., San Francisco, Calif.
Filed September 7, 1942. Serial No. 455,390. PUBLISHED MARCH 16, 1943. Class 29.

401,537. PREPARATION FOR THE TREATMENT OF ASTHMA, HAYFEVER, COUGHS, COLDS, WHOOPING COUGH, BRONCHITIS, CATARRH, AND CROUP. CADY-PARKER MEDICINE CO., Valdosta and Waycross, Ga.
Filed September 8, 1942. Serial No. 455,413. PUBLISHED MARCH 16, 1943. Class 6.

401,538. PLANT BULBS. TERREBONNE BULB CORPORATION, New Orleans, La.
Filed September 23, 1942. Serial No. 455,714. PUBLISHED MARCH 16, 1943. Class 1.

401,539. HANDKERCHIEFS. WECO PRODUCTS COMPANY, Chicago, Ill.
Filed September 25, 1942. Serial No. 455,776. PUBLISHED FEBRUARY 16, 1943. Class 39.

401,540. EXOTHERMIC METALLURGICAL COPPER ALLOYING MATERIALS. CHROMIUM MINING & SMELTING CORPORATION, LIMITED, Sault Ste. Marie, Ontario, Canada.
Filed September 26, 1942. Serial No. 455,787. PUBLISHED MARCH 16, 1943. Class 1.

401,541. EXOTHERMIC METALLURGICAL IRON ALLOYING MATERIALS. CHROMIUM MINING & SMELTING CORPORATION, LIMITED, Sault Ste. Marie, Ontario, Canada.
Filed September 26, 1942. Serial No. 455,788. PUBLISHED MARCH 16, 1943. Class 1.

401,542. EXOTHERMIC METALLURGICAL NICKEL ALLOYING MATERIALS. CHROMIUM MINING & SMELTING CORPORATION, LIMITED, Sault Ste. Marie, Ontario, Canada.
Filed September 26, 1942. Serial No. 455,789. PUBLISHED MARCH 16, 1943. Class 1.

401,543. EXOTHERMIC METALLURGICAL SILICON ALLOYING MATERIALS. CHROMIUM MINING & SMELTING CORPORATION, LIMITED, Sault Ste. Marie, Ontario, Canada.
Filed September 26, 1942. Serial No. 455,790. PUBLISHED MARCH 16, 1943. Class 1.

401,544. MEN'S WEARING APPAREL—NAMELY, HATS, CAPS, OVERALLS, WORK JACKETS, WORK TROUSERS, SPORT COATS, SPORT JACKETS, AND SPORT TROUSERS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed September 28, 1942. Serial No. 455,819. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,545. SHOWER BATH EQUIPMENT—NAMELY, SHOWER HEADS. HUGH H. LOGAN, doing business as Logan Manufacturing Company, Glendale, Calif.
Filed October 14, 1942. Serial No. 456,191. PUBLISHED MARCH 16, 1943. Class 13.

401,546. SHOELACES. JOHN FRIER, doing business as The Alox Manufacturing Company, St. Louis, Mo.
Filed October 24, 1942. Serial No. 456,385. PUBLISHED MARCH 16, 1943. Class 40.

401,547. GLOVE LEATHER. WOOD & HYDE COMPANY, Gloversville, N. Y.
Filed October 28, 1942. Serial No. 456,501. PUBLISHED MARCH 16, 1943. Class 1.

401,548. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. PENALJO, INC., St. Louis, Mo.
Filed November 9, 1942. Serial No. 456,722. PUBLISHED JANUARY 12, 1943. Class 39.

401,549. LADIES' AND MISSES' COVERALLS, SLACK SUITS, CAPS, PLAYSUITS, OVERALLS, SKI-SUITS, SLACKS, BLOUSES, JACKETS, CULOTTES, BEACH ROBES, SUN SUITS, AND SHORTS. ART-MOR TOGS INC., New York, N. Y.
Filed November 12, 1942. Serial No. 456,763. PUBLISHED FEBRUARY 16, 1943. Class 39.

401,550. ARTIFICIAL LEATHER. OXTEX CORPORATION, Newark, N. J.
Filed November 13, 1942. Serial No. 456,804. PUBLISHED MARCH 16, 1943. Class 50.

401,551. WATCHES. ELREX WATCH COMPANY, INC., New York, N. Y.
Filed November 17, 1942. Serial No. 456,868. PUBLISHED MARCH 16, 1943. Class 27.

401,552. TRIPOD HEADS EMPLOYED AS AN ADJUSTABLE MOUNTING FOR CAMERAS, TELESCOPES, SURVEYING INSTRUMENTS, AND OTHER FORMS OF SCIENTIFIC APPARATUS. PARK J. RIES, doing business as Ries Camera Co., Hollywood, Calif.
Filed November 18, 1942. Serial No. 456,902. PUBLISHED MARCH 16, 1943. Class 26.

401,553. WOOLEN PIECE GOODS. FORSTMANN WOOLEN Co., Passaic, N. J.
Filed November 20, 1942. Serial No. 456,940. PUBLISHED MARCH 16, 1943. Class 42.

401,554. AN AMMONIA SUBSTITUTE. PARSONS AMMONIA COMPANY, INC., New York, N. Y.
Filed November 21, 1942. Serial No. 456,960. PUBLISHED MARCH 16, 1943. Class 6.

401,555. SYNTHETIC RESINOUS MATERIALS IN THE FORM OF SHEETS, RODS, TUBES, OR MOLDING COMPOUNDS. ROHM & HAAS COMPANY, Philadelphia, Pa.
Filed November 24, 1942. Serial No. 457,011. PUBLISHED MARCH 16, 1943. Class 1.

401,556. HUMOR OR FEATURE COLUMN PUBLISHED WEEKLY OR FROM TIME TO TIME, SCRIPTS FOR MONOLOGUES, DIALOGUES, DRAMATIC SKETCHES, AND RADIO BROADCASTS, SUCH SCRIPTS SOLD AS A PUBLICATION IN TRADE. RALPH COOK, Cedar Lake, Ind.
Filed November 25, 1942. Serial No. 457,029. PUBLISHED MARCH 2, 1943. Class 38.

401,557. NECKTIES. THE MANHATTAN SHIRT COMPANY, New York, N. Y.
Filed November 26, 1942. Serial No. 457,065. PUBLISHED MARCH 2, 1943. Class 39.

401,558. LADIES' WEARING APPAREL—NAMELY, DRESSES, COATS, SWEATERS, HATS, SLACKS, GLOVES MADE OF LEATHER AND FABRICS AND COMBINATIONS OF LEATHER AND FABRICS, ETC. FRED A. PICARD, doing business as F. A. Picard, New York, N. Y.
Filed November 28, 1942. Serial No. 457,104. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,559. LADIES' AND MISSES' COATS AND SUITS. DAN MILLSTEIN, INC., New York, N. Y.
Filed November 30, 1942. Serial No. 457,138. PUBLISHED MARCH 16, 1943. Class 39.

401,560. SYNTHETIC RUBBER. REICHHOLD CHEMICALS, INC., Detroit, Mich.
Filed November 30, 1942. Serial No. 457,144. PUBLISHED MARCH 16, 1943. Class 1.

401,561. PAPER PRODUCTS—NAMELY, BOND PAPER. L. HYMAN & SONS, New York, N. Y.
Filed December 1, 1942. Serial No. 457,153. PUBLISHED MARCH 16, 1943. Class 37.

401,562. GLOVES OF LEATHER, FABRIC, OR A COMBINATION THEREOF. PICARDY MILLS, INC., Brooklyn, N. Y.
Filed December 2, 1942. Serial No. 457,172. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,563. LIQUEURS. CONRAD, INCORPORATED, St. Louis, Mo.
Filed December 3, 1942. Serial No. 457,184. PUBLISHED MARCH 2, 1943. Class 49.

401,564. SHOES MADE FROM LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF THESE MATERIALS. THE SELBY SHOE COMPANY, Portsmouth, Ohio.
Filed December 3, 1942. Serial No. 457,191. PUBLISHED MARCH 2, 1943. Class 39.

401,565. MUFFLERS. BLUE MOUNTAIN TEXTILE CORPORATION, New York, N. Y.
Filed December 8, 1942. Serial No. 457,269. PUBLISHED FEBRUARY 16, 1943. Class 39.

401,566. ABRASIVE PADS. DOWNY PRODUCTS COMPANY, Orange, N. J.
Filed December 8, 1942. Serial No. 457,274. PUBLISHED MARCH 16, 1943. Class 4.

401,567. GUIDES FOR CARD AND CORRESPONDENCE INDEXES. REMINGTON RAND INC., Buffalo, N. Y.
Filed December 8, 1942. Serial No. 457,285. PUBLISHED MARCH 16, 1943. Class 37.

401,568. MEN'S LEATHER AND FABRIC SHOES. GIVEN BROS. SHOE CO., El Paso, Tex.
Filed December 10, 1942. Serial No. 457,313. PUBLISHED FEBRUARY 16, 1943. Class 39.

401,569. SERIES OF CARTOONS. FIELD PUBLICATIONS, Brooklyn, N. Y.
Filed December 11, 1942. Serial No. 457,333. PUBLISHED MARCH 9, 1943. Class 38.

401,570. ELECTRIC SWITCHES OPERABLE TO CUT OFF FUEL SUPPLY TO BOILERS AND THE LIKE UNDER LOW WATER CONDITIONS OF THE LATTER, ELECTRIC FLOW SWITCHES RESPONSIVE TO FLOW OF FLUID, LIQUID LEVEL RESPONSIVE PUMP CONTROL ELECTRIC SWITCHES, AND ELECTRICAL PARTS THEREOF. EVERETT N. MCDONNELL, doing business as McDonnell & Miller, Chicago, Ill.
Filed December 11, 1942. Serial No. 457,340. PUBLISHED MARCH 16, 1943. Class 21.

401,571. CLEANSING COMPOUND HAVING WATER SOFTENING PROPERTIES, A CLEANING COMPOUND FOR WALL WASHING, PAINT CLEANING, ETC. ECONOMICS LABORATORY, INCORPORATED, St. Paul, Minn.
Filed December 14, 1942. Serial No. 457,388. PUBLISHED MARCH 16, 1943. Class 4.

401,572. LIQUID ADAPTED FOR NEUTRALIZATION OF ACIDS EXUDING FROM DENTAL CEMENT. JOSEPH H. SCHLESINGER, D. D. S., doing business as Eagle Chemical Co., New York, N. Y.
Filed December 16, 1942. Serial No. 457,434. PUBLISHED MARCH 16, 1943. Class 6.

401,573. SPRING STEEL BEARING RACES FOR INTERNAL COMBUSTION ENGINE DISTRIBUTORS. LELAND H. HOVE, doing business as Hove Engineering Co., Minneapolis, Minn.
Filed December 17, 1942. Serial No. 457,472. PUBLISHED MARCH 16, 1943. Class 21.

401,574. MEDICINAL SALVES FOR THE RELIEF OF NASAL, THROAT, AND CHEST IRRITATIONS. LEROY G. JENNINGS, New York, N. Y.
Filed December 17, 1942. Serial No. 457,473. PUBLISHED MARCH 16, 1943. Class 6.

401,575. HATS FOR WOMEN AND MISSES. BERTLYN CORPORATION, New York, N. Y.
Filed December 18, 1942. Serial No. 457,490. PUBLISHED FEBRUARY 23, 1943. Class 39.

401,576. GROUNDING CLAMPS, GROUNDING RODS, GROUNDING CLUSTER SUPPORTS, TERMINAL LUGS, GROUND ROD CLAMPS, GROUNDING CABLES, SPLICES AND FERRULES, BUS BAR CLAMPS, JUMPER CLAMPS, AND TAPPER HANGERS. A. B. CHANCE COMPANY, Centralia, Mo.
Filed December 18, 1942. Serial No. 457,493. PUBLISHED MARCH 16, 1943. Class 13.

401,577. LABORATORY EQUIPMENT—NAMELY, FOR OVENS, INCUBATORS, WATER BATHS, STERILIZERS, WATER STILLS, ETC. PRECISION SCIENTIFIC CO., Chicago, Ill.
Filed December 18, 1942. Serial No. 457,509. PUBLISHED MARCH 16, 1943. Class 26.

401,578. MAGNETIC INSPECTION APPARATUS FOR DETECTING SUBSURFACE DEFECTS IN ARTICLES BY FLOWING A LIQUID MIXTURE CONTAINING FINELY DIVIDED PARAMAGNETIC MATERIAL THEREOVER. WESTERN INDUSTRIAL ENGINEERING CO., Los Angeles, Calif.
Filed December 18, 1942. Serial No. 457,520. PUBLISHED MARCH 16, 1943. Class 26.

401,579. CHEMICAL PRODUCT IN LIQUID FORM USED AS A CLEANSER FOR GENERAL CLEANING AND HOUSEHOLD USE. COLE LABORATORIES, INC., Long Island City, N. Y.
Filed December 19, 1942. Serial No. 457,521. PUBLISHED MARCH 16, 1943. Class 4.

401,580. ELECTRIC CONTACTS. P. R. MALLORY & CO., INC., Indianapolis, Ind.
Filed December 19, 1942. Serial No. 457,525. PUBLISHED MARCH 16, 1943. Class 21.

401,581. ELECTRO-CHEMICAL APPARATUS FOR THE DEHYDRATION OF AIR AND FOR SUPPLYING AIR UNDER PRESSURE, FOR USE, AS AN EXAMPLE, IN THE GAS CONDITIONING OF CONCENTRIC (CO-AXIAL) ELECTRIC LINES EMPLOYED IN THE TRANSMISSION OF WIDE-BAND INTELLIGENCE, IN THE ARTS OF TELEVISION, MULTIPLE TELEGRAPH, TELEPHONY, AND FACSIMILE. JAMES L. BEBNARD, JR., doing business as Communication Products Co., Jersey City, N. J.
Filed December 21, 1942. Serial No. 457,536. PUBLISHED MARCH 16, 1943. Class 21.

401,582. SPOTTING COMPOUNDS HAVING BLEACHING PROPERTIES. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa.
Filed December 22, 1942. Serial No. 457,565. PUBLISHED MARCH 16, 1943. Class 6.

401,583. LEATHER AND FABRIC GLOVES. WIMELBACHER & RICE, New York, N. Y.
Filed December 22, 1942. Serial No. 457,568. PUBLISHED MARCH 16, 1943. Class 39.

401,584. SMOKING TOBACCO. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed September 17, 1942. Serial No. 455,597. PUBLISHED MARCH 16, 1943. Class 17.

401,585. BRASSIÈRE. JOSEPH L. BERLÉ, New York, N. Y.
Filed December 30, 1942. Serial No. 457,649. PUBLISHED MARCH 2, 1943. Class 39.

401,586. TOOTHBRUSHES. WALGREEN Co., Chicago, Ill.
Filed December 29, 1942. Serial No. 457,646. PUBLISHED MARCH 16, 1943. Class 29.

401,587. SERIES OF THEMATIC INDEX CARDS EMPLOYING THE USE OF MUSIC ON ONE SIDE OF THE CARD AND INFORMATION ON THE OTHER SIDE. TUNE-DEX, INC., New York, N. Y.
Filed December 31, 1942. Serial No. 457,692. PUBLISHED MARCH 16, 1943. Class 38.

401,588. CORROSION AND RUST PREVENTIVE FOR COOLING SYSTEMS OF INTERNAL COMBUSTION ENGINES. W. H. BARBER COMPANY, Minneapolis, Minn.
Filed January 1, 1943. Serial No. 457,696. PUBLISHED MARCH 16, 1943. Class 6.

401,589. CABINET MECHANICAL CLOTHES DRYERS. HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis, and Rahway, N. J.
Filed January 1, 1943. Serial No. 457,704. PUBLISHED MARCH 16, 1943. Class 24.

401,590. DOG FOOD SOLD IN MEAL, PELLET, AND CUBE FORM. MILLER CEREAL MILLS, INCORPORATED, Omaha, Nebr.
Filed January 5, 1943. Serial No. 457,766. PUBLISHED MARCH 16, 1943. Class 46.

401,591. MEN'S DRESS, SPORT, AND MILITARY SHIRTS MADE OF TEXTILE FABRICS CONSISTING OF COTTON, RAYON, OR MIXTURES THEREOF AND FOR MEN'S UNDERSHIRTS AND SWEATERS. APOLLO SHIRT COMPANY, New York, N. Y.
Filed January 8, 1943. Serial No. 457,803. PUBLISHED MARCH 9, 1943. Class 39.

401,592. PICTORIAL MAGAZINE PUBLISHED PERIODICALLY. ROBERT HARRISON, New York, N. Y.
Filed January 8, 1943. Serial No. 457,810. PUBLISHED MARCH 9, 1943. Class 38.

401,593. CONNECTING DEVICES OR SLEEVES FOR ELECTRIC WIRES AND CABLES USED IN COMMUNICATION, LIGHT AND POWER FIELDS. THE NATIONAL TELEPHONE SUPPLY COMPANY, Cleveland, Ohio.
Filed January 8, 1943. Serial No. 457,813. PUBLISHED MARCH 16, 1943. Class 21.

401,594. PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT, EXZEMA, BOILS, ITCH, BARBER'S ITCH, POISON OAK, DEW POISON, SKIN DISEASES, AND SORES. WILLIAM C. VAUGHAN, Minor Hill, Tenn.
Filed January 9, 1943. Serial No. 457,843. PUBLISHED MARCH 16, 1943. Class 6.

401,595. HONEY. F. E. BOYDEN-HANSEN CO., LTD., Alameda, Calif.
Filed January 11, 1943. Serial No. 457,847. PUBLISHED MARCH 16, 1943. Class 46.

401,596. TEXTILE FABRICS, IN THE PIECE, IN THE BOLT, AND AS REMOVABLE AND NON-REMOVABLE SLIPCOVERS, MADE OF COTTON, RAYON, AND MIXTURES THEREOF. OLIVER & KAUFMAN, New York, N. Y.
Filed January 11, 1943. Serial No. 457,861. PUBLISHED MARCH 9, 1943. Class 42.

401,597. DYES FOR TEXTILE PURPOSES. GEIGY COMPANY, INC., New York, N. Y.
Filed January 12, 1943. Serial No. 457,875. PUBLISHED MARCH 16, 1943. Class 6.

401,598. WOMEN'S AND GIRLS' SWEATERS. RENART SPORTSWEAR CORP., New York, N. Y.
Filed January 12, 1943. Serial No. 457,882. PUBLISHED MARCH 9, 1943. Class 39.

401,599. MOTH EXTERMINATING PREPARATION. JEAN VIVAUDOU & CO. INC., New York, N. Y.
Filed January 13, 1943. Serial No. 457,904. PUBLISHED MARCH 16, 1943. Class 6.

401,600. BOOTS AND SHOES OF LEATHER, FABRIC AND/OR COMBINATIONS THEREOF. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed January 14, 1943. Serial No. 457,915. PUBLISHED MARCH 16, 1943. Class 39.

401,601. ELECTROSENSITIVE RECORDING AND COPYING PAPER FOR USE WITH ELECTRICAL RECORDING APPARATUS (INCLUDING ELECTRICAL FACSIMILE RECORDERS, COPYING OR DUPLICATING MACHINES EMPLOYING A CURRENT-CONDUCTING STYLUS, ET CETERA). TIMES TELEPHOTO EQUIPMENT INC., New York, N. Y.
Filed January 14, 1943. Serial No. 457,923. PUBLISHED MARCH 16, 1943. Class 21.

401,602. CHILDREN'S SHOES CONSTRUCTED OF LEATHER, RUBBER, OR FABRIC OR A COMBINATION OF THESE MATERIALS. GILBERT SHOE CO., Thiensville, Wis.
Filed January 15, 1943. Serial No. 457,933. PUBLISHED MARCH 16, 1943. Class 39.

401,603. ELECTRICAL MEASURING INSTRUMENTS, SPECIFICALLY APPARATUS FOR DETERMINING THE VOLTAGE AT WHICH ELECTRICAL INSULATION BREAKS DOWN. ASSOCIATED RESEARCH INCORPORATED, Chicago, Ill.
Filed January 16, 1943. Serial No. 457,941. PUBLISHED MARCH 16, 1943. Class 26.

401,604. ELECTRICAL MEASURING INSTRUMENTS, SPECIFICALLY INSTRUMENTS FOR MEASURING THE RESISTANCE OF ELECTRICAL GROUNDING CONNECTION TO THE EARTH. ASSOCIATED RESEARCH INCORPORATED, Chicago, Ill. Filed January 16, 1943. Serial No. 457,942. PUBLISHED MARCH 16, 1943. Class 26.

401,605. ELECTRICAL MEASURING INSTRUMENTS, SPECIFICALLY INSTRUMENTS FOR MEASURING THE ELECTRICAL RESISTANCE OF ELECTRICAL INSULATION. ASSOCIATED RESEARCH INCORPORATED, Chicago, Ill. Filed January 16, 1943. Serial No. 457,943. PUBLISHED MARCH 16, 1943. Class 26.

401,606. IMITATION FOOD FLAVORING EXTRACTS. McCORMICK & Co. INCORPORATED, Baltimore, Md. Filed January 16, 1943. Serial No. 457,960. PUBLISHED MARCH 16, 1943. Class 46.

401,607. FRESH VEGETABLES. E. E. DAVIS, doing business as E. E. Davis Packing Co., Phoenix, Ariz. Filed January 18, 1943. Serial No. 457,970. PUBLISHED MARCH 16, 1943. Class 46.

401,608. METAL POLISH. OIL SPECIALTIES & REFINING CO., INC., Brooklyn, N. Y. Filed January 18, 1943. Serial No. 457,989. PUBLISHED MARCH 16, 1943. Class 4.

401,609. PALLIATIVE FOR THE TREATMENT OF ASTHMA, CATARRH OF THE LIVER AND LUNGS, AND HEMORRHOIDS. JOHN HORVATH, Passaic, N. J. Filed January 20, 1943. Serial No. 458,038. PUBLISHED MARCH 16, 1943. Class 6.

401,610. TOILET SOAP. BILLY B. VAN, doing business as Billy B. Van Sales Company, Newport, N. H. Filed January 20, 1943. Serial No. 458,054. PUBLISHED MARCH 16, 1943. Class 4.

401,611. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y. Filed January 22, 1943. Serial No. 458,092. PUBLISHED MARCH 16, 1943. Class 6.

401,612. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y. Filed January 22, 1943. Serial No. 458,093. PUBLISHED MARCH 16, 1943. Class 6.

401,613. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y. Filed January 22, 1943. Serial No. 458,094. PUBLISHED MARCH 16, 1943. Class 6.

401,614. BASKETBALL GOAL NETS. THE ATHLETIC SUPPLY COMPANY, Toledo, Ohio. Filed January 23, 1943. Serial No. 458,110. PUBLISHED MARCH 16, 1943. Class 22.

401,615. PRESSURE SENSITIVE ADHESIVE TAPES. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J. Filed January 23, 1943. Serial No. 458,116. PUBLISHED MARCH 16, 1943. Class 5.

401,616. KNIVES, FORKS, AND OTHER TABLE FLATWARE, MADE OF NONPRECIOUS METAL. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed January 25, 1943. Serial No. 458,135. PUBLISHED MARCH 9, 1943. Class 23.

401,617. KNIVES, FORKS, AND OTHER TABLE FLATWARE, MADE OF NONPRECIOUS METAL. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed January 25, 1943. Serial No. 458,139. PUBLISHED MARCH 9, 1943. Class 23.

401,618. KNIVES, FORKS, AND OTHER TABLE FLATWARE, MADE OF NONPRECIOUS METAL. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed January 25, 1943. Serial No. 458,140. PUBLISHED MARCH 9, 1943. Class 23.

401,619. PRESSURE SENSITIVE ADHESIVE TAPES. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J. Filed January 25, 1943. Serial No. 458,154. PUBLISHED MARCH 16, 1943. Class 5.

401,620. MEDICATED PREPARATIONS FOR THE PREVENTION OR TREATMENT OF DERMATITIS. STERNS, LIMITED, London, England. Filed January 27, 1943. Serial No. 458,202. PUBLISHED MARCH 16, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,621. (CLASS 39. CLOTHING.) DAVISON-PAXON COMPANY, Atlanta, Ga. Filed Sept. 21, 1939. Serial No. 423,803.

THE KENNESAW

FOR SHOES MADE OF LEATHER, RUBBER, OR FABRIC, OR COMBINATIONS OF SAID MATERIALS, AND MEN'S SUITS AND OVERCOATS.
Claims use since Aug. 15, 1939.

401,622. (CLASS 39. CLOTHING.) WEYENBERG SHOE MANUFACTURING COMPANY, doing business as Portage Shoe Manufacturing Co., Milwaukee, Wis. Filed Jan. 22, 1941. Serial No. 439,884.

Stanford

FOR MEN'S LEATHER SHOES.
Claims use since July 9, 1940.

401,623. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL AUDUBON SOCIETY, New York, N. Y. Filed Mar. 10, 1941. Serial No. 441,407.

AUDUBON MAGAZINE

FOR A MAGAZINE PUBLISHED BI-MONTHLY AND A SUPPLEMENT THERETO PUBLISHED AT IRREGULAR PERIODS.
Claims use since Feb. 15, 1941.

401,624. (CLASS 39. CLOTHING.) MORRIS B. SACHS, Chicago, Ill. Filed Apr. 12, 1941. Serial No. 442,539.

Crandon

FOR MEN'S AND BOYS' SUITS AND OVERCOATS AND LADIES' COATS, SUITS, DRESSES, FUR COATS, FUR SCARVES, FUR JACKETS, FUR MUFFS, AND FUR GLOVES.
Claims use since Jan. 12, 1941.

401,625. (CLASS 39. CLOTHING.) MORRIS B. SACHS, Chicago, Ill. Filed Apr. 12, 1941. Serial No. 442,540.

Downing

FOR MEN'S AND BOYS' SUITS AND OVERCOATS AND LADIES' COATS, SUITS, DRESSES, FUR COATS, FUR SCARVES, FUR JACKETS, FUR MUFFS, AND FUR GLOVES.
Claims use since Jan. 12, 1941.

401,626. (CLASS 39. CLOTHING.) EDDIE BAUER, Seattle, Wash. Filed May 26, 1941. Serial No. 443,911.

BlizzardProof

FOR MEN'S AND WOMEN'S SPECTATOR AND ACTIVE SPORTSWEAR, AND FOR MEN'S AND WOMEN'S HUNTING, SHOOTING, AND FISHING WEAR, COMPRISING: COATS, OUTER AND UNDER SHIRTS, TROUSERS, SOCKS, PARKAS AND SHAWLS; FOR QUILTED AVIATION AND QUILTED COLD WEATHER CLOTHING FOR USE BY MEN OR WOMEN AND COMPRISING: HOODS, HOODED COATS, TROUSERS, AND PADDED BOOTS; AND FOR SLEEPING BAGS AND ROBES.
Claims use since May 1, 1940.

401,627. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) COLUMBIA RECORDING CORPORATION, New York, N. Y. Filed July 18, 1941. Serial No. 445,458.

STETHOSCOPIC

FOR PHONOGRAPH RECORDS AND RECORD BLANKS.
Claims use since July 9, 1941.

401,628. (CLASS 39. CLOTHING.) MORRIS B. SACHS, Chicago, Ill. Filed July 24, 1941. Serial No. 445,616.

LONGWOOD

FOR MEN'S AND BOYS' SUITS AND OVERCOATS AND LADIES' COATS, SUITS, DRESSES, FUR COATS, FUR SCARVES, FUR JACKETS, FUR MUFFS, AND FUR GLOVES.
Claims use since Jan. 12, 1941.

401,629. (CLASS 39. CLOTHING.) ARTHUR HEYMAN, doing business as Bab'nart, Oakland, Calif., assignor to Joe Koret, San Francisco, Calif. Filed Nov. 5, 1941. Serial No. 448,414.

TRIKSKIRT

FOR WOMEN'S SKIRTS PLEATED ACROSS THE WAISTBAND PORTION.
Claims use since Sept. 25, 1941.

401,630. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) S & M TIRE & AUTO SUPPLY CO., Minneapolis, Minn. Filed Dec. 1, 1941. Serial No. 449,083.

REMINGTON

FOR PNEUMATIC RUBBER TIRES.
Claims use since May 1, 1940.

401,631. (CLASS 38. PRINTS AND PUBLICATIONS.) FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed Dec. 13, 1941. Serial No. 449,452.

XMAS COMICS

FOR AN ANNUAL PUBLICATION.
Claims use since Nov. 26, 1941.

401,632. (CLASS 39. CLOTHING.) DENNISON KLOTHES INCORPORATED, New York, N. Y. Filed Dec. 20, 1941. Serial No. 449,641.

Dennison Tweed

FOR WOMEN'S SUITS, WOMEN'S COATS, WOMEN'S SKIRTS, WOMEN'S SHIRTS, WOMEN'S SLACKS, WOMEN'S DRESSES, AND WOMEN'S SHORTS.
Claims use since Dec. 10, 1941.

401,633. (CLASS 39. CLOTHING.) OGUS, RABINOVICH & OGUS, INC., New York, N. Y. Filed Dec. 30, 1941. Serial No. 449,867.

DONNYBROOK

FOR LADIES' HATS.
Claims use since Apr. 4, 1935.

401,634. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Jan. 3, 1942. Serial No. 449,981.

"The Clean Feeling Lasts"

FOR DENTIFRICES AND FOR MOUTH WASH AND GARGLE.
Claims use since Jan. 1, 1937.

401,635. (CLASS 39. CLOTHING.) MATTHEWS RISEMAN, INC., Boston, Mass. Filed Jan. 9, 1942. Serial No. 450,108.

Hazel Greer

FOR LADIES' DRESSES.
Claims use since Dec. 17, 1941.

401,636. (CLASS 39. CLOTHING.) STYLE FORM BRASSIERE CO., INC., New York, N. Y. Filed Jan. 9, 1942. Serial No. 450,118.

HULA-BRA by Styleform "FOR GOOD FORM"

FOR BANDEAUX, BRASSIÈRES, AND GIRDLES.
Claims use since Dec. 22, 1941.

401,637. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE NATIONAL TELEPHONE SUPPLY COMPANY, Cleveland, Ohio. Filed Feb. 18, 1942. Serial No. 451,056.

ADJUST-A-STRAPS

FOR METAL CABLE HANGERS USED FOR SUSPENDING ELECTRIC OR COMMUNICATION CABLES FROM AN AERIAL SUPPORTING STRAND.
Claims use since March, 1941.

401,638. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) LEONARD PALLISER, New York, N. Y. Filed Feb. 21, 1942. Serial No. 451,145.

Locketag

FOR IDENTIFICATION BRACELET.
Claims use since Feb. 8, 1942.

401,639. (CLASS 39. CLOTHING.) SARA BRESSLER, New York, N. Y. Filed Feb. 27, 1942. Serial No. 451,257.

Bess Davis JUNIORS

FOR LADIES' DRESSES.
Claims use since Feb. 15, 1942.

401,640. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) MINERAL MINING CORPORATION, Lancaster, S. C. Filed Mar. 4, 1942. Serial No. 451,388.

MINERALKOTE

FOR MOLD AND CORE WASHES AND FOUNDRY FACINGS.
Claims use since Feb. 11, 1942.

401,641. (CLASS 39. CLOTHING.) MURRAY KAY, New York, N. Y. Filed Mar. 10, 1942. Serial No. 451,535.

SLACK-ALL

FOR MEN'S, WOMEN'S, AND CHILDREN'S COVERALLS, OVERALLS, AND PLAY SUITS.
Claims use since Dec. 8, 1941.

401,642. (CLASS 39. CLOTHING.) THE CASHMERE CORPORATION OF AMERICA, Cleveland, Ohio. Filed Mar. 17, 1942. Serial No. 451,666.

Hadley

FOR MEN'S, WOMEN'S, AND CHILDREN'S KNITTED WOOLEN SWEATERS, CARDIGANS, AND PULLOVERS.
Claims use since July, 1941.

401,643. (CLASS 38. PRINTS AND PUBLICATIONS.) RUDOLF LESCH FINE ARTS, INCORPORATED, New York, N. Y. Filed Mar. 26, 1942. Serial No. 451,911.

Finart

FOR PRINTS, ETCHINGS, WOOD BLOCKS, LITHOGRAPHS, ENGRAVINGS, AND LIKE REPRODUCTIONS OF PAINTINGS AND WORKS OF ART.
Claims use since Mar. 9, 1942.

401,644. (CLASS 39. CLOTHING.) JANTZEN KNITTING MILLS, Portland, Oreg. Filed Mar. 28, 1942. Serial No. 451,976.



FOR FOUNDATION GARMENTS.
Claims use since July 1, 1940.

401,645. (CLASS 39. CLOTHING.) MANNE H. MANDEL, doing business as Mandel Mfg. Co., St. Louis, Mo. Filed Apr. 2, 1942. Serial No. 452,104.

JO COLLINS

FOR JUNIORS' AND MISSES' DRESSES, BLOUSES, SLACKS, SLACK SUITS, AND SKIRTS.
Claims use since Mar. 1, 1942.

401,646. (CLASS 39. CLOTHING.) MURRAY WHITE COMPANY, Boston, Mass. Filed Apr. 2, 1942. Serial No. 452,116.

Sue Gibson

FOR DRESSES FOR MISSES AND WOMEN.
Claims use since Jan. 15, 1942.

401,647. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE DEXTER COMPANY, Fairfield, Iowa. Filed Apr. 3, 1942. Serial No. 452,124.

HAAG WASHERS

FOR LAUNDRY WASHING MACHINES.
Claims use since Jan. 15, 1942.

401,648. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN SHERMAN BAGG, doing business as The American Reader's Library, Chicago, Ill. Filed Apr. 13, 1942. Serial No. 452,302.

THE AMERICAN Reader's Library

FOR BOOKS.
Claims use since Feb. 2, 1942.

401,649. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Apr. 22, 1942. Serial No. 452,492.

AIR WEAR AIR-WEAR

FOR STEEL IN BARS, BILLETS, AND SHAPES.
Claims use since Mar. 24, 1942.

401,650. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Apr. 22, 1942. Serial No. 452,494.

AIR TOUGH AIR-TOUGH

FOR STEEL IN BARS, BILLETS, AND SHAPES.
Claims use since Mar. 24, 1942.

401,651. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AVON PRODUCTS, INC., New York, N. Y. Filed Apr. 29, 1942. Serial No. 452,664.

KERCHIEF

FOR SETS SOLD AS A UNIT COMPRISING HANDKERCHIEFS AND PERFUME.
Claims use since Apr. 1, 1942.

401,652. (CLASS 11. INKS AND INKING MATERIALS.) FAUROT PROTECTIVE IDENTIFICATION SYSTEM, INC., New York, N. Y. Filed May 11, 1942. Serial No. 452,923.



FOR SOLID AND FLUID FINGER PRINTING INKS, INK-PADS, INK-SLABS, AND INKED WEBS, INKING ROLLERS, AND PRINTING MATERIALS USED IN CONNECTION THEREWITH—NAMELY, PRINTING PAPER, FORMS, AND MOUNTINGS ADAPTED FOR TAKING FINGER, PALM, FOOTPRINTS, AND THE LIKE.
Claims use since Jan. 15, 1933.

401,653. (CLASS 39. CLOTHING.) DAVID D. DONIGER & Co., New York, N. Y. Filed June 2, 1942. Serial No. 453,413.



FOR MEN'S AND BOYS' SPORT COATS.
Claims use since Mar. 1, 1942.

401,654. (CLASS 39. CLOTHING.) DYERSBURG COTTON PRODUCTS, INC., Dyersburg, Tenn. Filed Aug. 1, 1942. Under the act of February 19, 1920, as amended June 10, 1938. Serial No. 454,651.

No-Chill

FOR OUTER GARMENTS FOR INFANTS AND CHILDREN—NAMELY, HATS, COATS, AND LEGGING SETS.
Claims use since Jan. 1, 1940.

401,655. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DON B. R. G. BEACH-COMBER, Beverly Hills, Calif. Filed Sept. 30, 1942. Serial No. 455,856.



FOR SHRIMP BATTER AND SHRIMP SAUCE.
Claims use since June 1941.

401,656. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WILLIAM VAN ERP, doing business as Dirk van Erp, San Francisco, Calif. Filed Oct. 9, 1942. Serial No. 456,110.

DIRKVANERP

FOR ART METAL WORK—NAMELY, FLAT TABLEWARE CONSISTING OF KNIVES, FORKS, SPOONS, AND OTHER CUSTOMARY PIECES FOR SETS AND INDIVIDUAL ITEMS AS WELL AS HOLLOW WARE.
Claims use since February 1910.

401,657. (CLASS 5. ADHESIVES.) FILM-O-SEAL COMPANY, Kansas City, Mo. Filed Oct. 13, 1942. Serial No. 456,164.

Film-O-Seal

FOR COMPOUND FOR FORMING AN AIR-SEALING COATING OVER THE INSIDE OF PNEUMATIC TIRES AND TUBES.
Claims use since July 3, 1941.

401,658. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. A. SCHONBRUNN & Co., INC., New York, N. Y. Filed Oct. 27, 1942. Serial No. 456,474.

COLOMBO

FOR COFFEE.
Claims use since Feb. 16, 1942.

401,659. (CLASS 39. CLOTHING.) STEPHEN PUTNEY SHOE COMPANY, Richmond, Va. Filed Dec. 7, 1942. Serial No. 457,253.



FOR SHOES OF LEATHER OR LEATHER AND COMPOSITION.
Claims use since Oct. 9, 1935.

401,660. (CLASS 39. CLOTHING.) MAX E. BROWN, doing business as Budget Merchandise Brokers, New York, N. Y. Filed Dec. 24, 1942. Serial No. 457,596.



FOR LADIES' AND MISSES' UNDERWEAR, HOUSECOATS, SWEATERS, BLOUSES, NEGLIGEES, HATS. GLOVES OF LEATHER AND FABRIC, RAINCOATS, PAJAMAS, NIGHTGOWNS, BRASSIÈRES, PANTIES. OUTER SKIRTS, DICKEYS, COLLARS, AND JABOTS.
Claims use since Aug. 8, 1941.

401,661. (CLASS 39. CLOTHING.) WELFIT BRASSIERE CORPORATION, New York, N. Y. Filed Dec. 31, 1942. Serial No. 457,693.

Welfit Proper Posture

FOR LADIES' FOUNDATIONS, BRASSIÈRES, AND GIRDLES.
Claims use since February 1939.

401,662. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BLUE SUDS COMPANY, Detroit, Mich. Filed Jan. 2, 1943. Serial No. 457,715.

BLUE SUDS

FOR WASHING COMPOUND.
Claims use since Aug. 12, 1935.

401,663. (CLASS 33. GLASSWARE.) SAFETEE GLASS COMPANY, Philadelphia, Pa. Filed Jan. 8, 1943. Serial No. 457,816.

KOLD KUT

FOR LAMINATED GLASS.
Claims use since Nov. 1, 1939.

401,664. (CLASS 39. CLOTHING.) JOSEPH A. SACKS, doing business as Daisy Whitehead Knitting Co., New York, N. Y. Filed Jan. 18, 1943. Serial No. 457,996.

HozGuard

FOR WOMEN'S, MISSES', AND CHILDREN'S HOSIERY OF WOVEN OR KNITTED FABRICS.
Claims use since January 1942.

401,665. (CLASS 39. CLOTHING.) CARL GUTMANN & Co., New York, N. Y. Filed Jan. 19, 1943. Serial No. 458,012.

KNIT SKIN

FOR WOMEN'S AND MISSES' PANTIES, CHEMISES, STEP-INS, BLOOMERS, SLIPS, NIGHTGOWNS, AND BLOUSES.
Claims use since July 1, 1941.

401,666. (CLASS 39. CLOTHING.) SOUTHLAND MANUFACTURING CO., INC., Wilmington, N. C. Filed Jan. 30, 1943. Serial No. 458,251.

SOUTHPORT

FOR MEN'S AND BOYS' OUTER SHIRTS, PAJAMAS, UNDERWEAR, AND SHORTS.
Claims use since 1931.

401,667. (CLASS 39. CLOTHING.) ZUCKERMAN & KRAUS, INC., New York, N. Y. Filed Jan. 30, 1943. Serial No. 458,259.

Kraus

FOR LADIES' AND MISSES' SUITS, COATS, AND DRESSES.
Claims use since 1939.

401,668. (CLASS 39. CLOTHING.) ROSEN & STUTMAN DRESS CO., Boston, Mass. Filed Feb. 4, 1943. Serial No. 458,341.

Lady Ashton

FOR WOMEN'S DRESSES, COATS, DRESS AND JACKET ENSEMBLES; SUITS, COAT AND SUIT ENSEMBLES; COVERALLS, JUMPERS AND BLOUSES.
Claims use since Jan. 19, 1942.

401,669. (CLASS 39. CLOTHING.) BERNARD BREGSTEIN, Brooklyn, N. Y. Filed Feb. 8, 1943. Serial No. 458,385.

Bradley SLIPS

FOR LADIES' AND MISSES' SLIPS.
Claims use since February 1940.

401,670. (CLASS 38. PRINTS AND PUBLICATIONS.) WILEY PADAN, Douglaston, N. Y. Filed Feb. 11, 1943. Serial No. 458,478.

IT'S TRUE! By Wiley Padan

FOR CARTOON FEATURE IN NEWSPAPERS AND OTHER PUBLICATIONS.
Claims use since Aug. 9, 1933.

401,671. (CLASS 39. CLOTHING.) HOWARDS FIFTH AVE., INC., New York, N. Y. Filed Feb. 16, 1943. Serial No. 458,568.

THE Dorothy Howard Dickey

FOR WOMEN'S COLLARS, VESTEES, DICKEYS, AND SCARVES.
Claims use since June 1941.

401,672. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOAP-'N-TOWL, INC., Brocton, N. Y. Filed Feb. 16, 1943. Serial No. 458,578.

SOAP-N-TOWL



FOR TOILET KITS CONSISTING OF SOAP-TREATED CLOTH AND TOWELS.
Claims use since Oct. 15, 1941.

401,673. (CLASS 39. CLOTHING.) SUPER TOGS CO., New York, N. Y. Filed Feb. 17, 1943. Serial No. 458,602.

-FORFEET-

FOR SHOE SOCKS.
Claims use since Oct. 14, 1941.

401,674. (CLASS 39. CLOTHING.) GEISHA ROBE CO., New York, N. Y. Filed Feb. 19, 1943. Serial No. 458,629.

GAY ROBE

FOR MISSES' AND JUNIOR MISSES' BATH AND LOUNGING ROBES.
Claims use since Jan. 6, 1942.

401,675. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) EDWARD W. LITTLE, Indianapolis, Ind. Filed Feb. 27, 1943. Serial No. 458,812.

DOG-E-BED

FOR ANIMAL BEDS.
Claims use since Aug. 1, 1940.

401,676. (CLASS 39. CLOTHING.) MAYFLOWER DRESS CO., INC., New York, N. Y. Filed Mar. 8, 1943. Serial No. 458,967.

BOWL'N'PLAY

FOR LADIES', MISSES', GIRLS', AND JUNIORS' DRESSES.
Claims use since Dec. 2, 1941.

401,677. (CLASS 39. CLOTHING.) ROSENBLUMS, Los Angeles, Calif. Filed Mar. 9, 1943. Serial No. 458,990.

TAILORED BY Rosenblum IN CALIFORNIA

FOR MEN'S AND LADIES' SUITS, SPORT COATS, AND TOPCOATS, MEN'S SLACKS AND TROUSERS, AND LADIES' SPORT JACKETS.
Claims use since July 1, 1940.

401,678. (CLASS 39. CLOTHING.) UNITED MILLS, INC., Mount Gilead, N. C. Filed Mar. 9, 1943. Serial No. 458,992.

No Hike

FOR LADIES' UNDERWEAR, SLIPS, BED JACKETS, AND NIGHT GOWNS.
Claims use since Mar. 20, 1940.

401,679. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH DI SANTO, doing business as Di Santo & Company, Duluth, Minn. Filed Mar. 22, 1943. Serial No. 459,257.

DI SANTO

FOR BUTTER.
Claims use since Oct. 25, 1941.

TRADE-MARK REGISTRATIONS RENEWED

23,516. **"THE 'LION' BRAND" AND DRAWING.** PAPER. Registered August 22, 1893. JOHN DICKINSON & CO., LIMITED, London, England. Re-renewed August 22, 1943, to John Dickinson & Co. Limited, Hemel Hempstead, England, a corporation of the United Kingdom of Great Britain and Northern Ireland.

164,132. **TROJAN.** IRONING MACHINES. Registered February 13, 1923. TROY LAUNDRY MACHINERY CO. LTD., Chicago, Ill. Renewed February 13, 1943, to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware, successor.

164,634. **"D & S" AND DRAWING.** LIGHTNING RODS. Registered February 27, 1923. DODD & STRUTHERS, Des Moines, Iowa. Renewed February 27, 1943, to West Dodd Lightning Conductor Corporation, Goshen, Ind., a corporation of Indiana, assignee.

166,374. **DECORATA.** GOLD, BRONZE, AND ALUMINUM PAINTS AND FINISHING COMPOUNDS. Registered April 3, 1923. PETER L. O'NEILL, doing business as Decorata Mfg. Co. Renewed April 3, 1943, to John I. O'Neill, Jersey City, N. J., assignee.

166,618. **CHARLES RIVER.** SWEATERS. Registered April 10, 1923. BENJAMIN MOSELEY COMPANY, INCORPORATED, Needham, Mass., a corporation of Massachusetts. Renewed April 10, 1943.

167,124. **"SHOSHONE" AND DRAWING.** WHEAT FLOUR. Registered April 24, 1923. GLOBE GRAIN & MILLING CO., Los Angeles, Calif. Renewed April 24, 1943, to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware, assignee.

167,125. **"UTANAH" AND DRAWING.** WHEAT FLOUR. Registered April 24, 1923. GLOBE GRAIN & MILLING CO., Los Angeles, Calif. Renewed April 24, 1943, to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware, assignee.

167,620. **SILVERTONE.** PHONOGRAPHS, PHONOGRAPH NEEDLES, AND DISK-RECORD ALBUMS. Registered May 1, 1923. SEARS, ROEBUCK AND CO., Chicago, Ill., a corporation of New York. Renewed May 1, 1943.

167,731. **REPRESENTATION OF A SILVER-COLORED SURFACE.** HIGH PRESSURE SHEET PACKING CONSISTING ESSENTIALLY OF ASBESTOS, RUBBER, VULCANIZING AGENTS, AND FILLER. Registered May 8, 1923. THE RAYBESTOS COMPANY, Bridgeport, Conn. Renewed May 8, 1943, to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey, assignee.

168,176. **"G-S" AND DRAWING.** MACHINE FOR APPLYING WATCH CRYSTALS. Registered May 15, 1923. GERMANOW-SIMON MACHINE CO., Rochester, N. Y., a firm. Renewed May 15, 1943.

168,204. **"A" IN REPRESENTATION OF A CIRCLE.** GASKETS, WASHERS, PACKING, AND FRICTION SURFACES, ALL OF CORK OR CORK COMPOSITION, AND CORK OR CORK COMPOSITION IN SHEET OR BLOCK FORM FOR PACKING. Registered May 15, 1923. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Renewed May 15, 1943, to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania.

168,445. **"SLUMBER" AND DRAWING.** PREPARATION FOR ECZEMA, SALT RHEUM, IMPETIGO, BARBERS' ITCH, AND OTHER SKIN DISEASES, AND FOR HEALING PURPOSES. Registered May 22, 1923. THE NOLAN CO., Greenville, Pa., a firm. Renewed May 22, 1943.

168,701. **RAINY DAY.** ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. Registered May 29, 1923. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Renewed May 29, 1943, to American Manufacturing Company, Brooklyn, N. Y., a corporation of Massachusetts.

168,740. **A-M-F.** CIGAR AND CIGARETTE MACHINERY AND PARTS THEREOF, SICKLE BARS, AND SICKLE-BAR BLADES FOR AGRICULTURAL MACHINES, AND HOISTING MACHINERY AND PARTS THEREOF. Registered May 29, 1923. AMERICAN MACHINE AND FOUNDRY CO., Brooklyn, N. Y. Renewed May 29, 1943, to American Machine & Foundry Co., New York, N. Y., a corporation of New Jersey.

169,154. **ACCO.** CERTAIN NAMED CLOSURES AND SEALS FOR BOTTLES, AND CORK OR CORK COMPOSITION IN SHEET OR BLOCK FORM. Registered June 12, 1923. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Renewed June 12, 1943, to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania.

169,235. **INVINCIBLE.** GAS WATER HEATERS. Registered June 12, 1923. BASTIAN-MORLEY CO. Renewed June 12, 1943, to Bastian-Morley Co., Inc., La Porte, Ind., a corporation of Indiana, by change of name.

170,300. **RED TYE.** CLOTH MAILING BAGS. Registered July 10, 1923. MILWAUKEE BAG CO., Milwaukee, Wis. Renewed July 10, 1943, to The Chase Bag Company, New York, N. Y., a corporation of Delaware, successor.

170,516. **DESERT SWEET.** FRESH CITROUS FRUITS. Registered July 17, 1923. ARIZONA CITRUS GROWERS' CO. Renewed July 17, 1943, to Arizona Citrus Growers, Phoenix, Ariz., a corporation of Arizona, by change of name.

170,525. **SUPER PLATE.** BLOTTING PAPER. Registered July 17, 1923. STANDARD PAPER MANUFACTURING COMPANY, Richmond, Va., a corporation of Virginia. Renewed July 17, 1943.

171,199. **"TOEWEAR" AND DRAWING.** HOSIERY. Registered July 31, 1923. TOEWEAR HOSIERY, INC., Norristown, Pa., a corporation of Pennsylvania. Renewed July 31, 1943.

171,300. **RAINBOW GEMS.** REPRODUCTIONS OF PRECIOUS AND SEMIPRECIOUS GEMS AND STONES. Registered August 7, 1923. JOSEPH H. MEYER BROS., Brooklyn, N. Y., a corporation of New York. Renewed August 7, 1943.

171,605. **"PREMIER" AND DRAWING.** GAS WATER HEATERS. Registered August 7, 1923. BASTIAN-MORLEY CO. Renewed August 7, 1943, to Bastian-Morley Co., Inc., La Porte, Ind., a corporation of Indiana, by change of name.

171,832. **SABECO.** BEARING METAL, PACKING METAL, BRASS CASTINGS, AND BRONZE CASTINGS. Registered August 14, 1923. FREDERICKSEN COMPANY. Renewed August 14, 1943, to Saginaw Bearing Company, Saginaw, Mich., a corporation of Michigan, by change of name.

172,059. **CHICAGO DAILY TRIBUNE.** NEWSPAPER AND NEWSPAPER SUPPLEMENTS PUBLISHED DAILY. Registered August 21, 1923. TRIBUNE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 21, 1943.

172,065. **"TRUBLU" AND DRAWING.** FRESH CITROUS AND DECIDUOUS FRUITS. Registered August 21, 1923. WILLIAM G. ROE, Winter Haven, Fla. Renewed August 21, 1943.

172,348. **"ACE" AND DRAWING.** COMBS MADE OF HARD RUBBER FOR DRESSING, ORNAMENTING, AND CLEANING THE HAIR. Registered August 28, 1923. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Renewed August 28, 1943, to American Hard Rubber Company, New York, N. Y., a corporation of New York.

172,363. **SEMINOLE INDIAN.** PREPARATION FOR THE TREATMENT OF HAIR AND SCALP. Registered August 28, 1923. FLORIE E. DE ZON, Detroit, Mich. Renewed August 28, 1943.

172,472. **"HOME CIRCLE" AND DRAWING.** WHEAT FLOUR. Registered August 28, 1923. THE RED STAR MILLING COMPANY, Wichita, Kans. Renewed August 28, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

172,556. **"HOG-SCALD" AND DRAWING.** CHEMICAL PREPARATION FOR FACILITATING THE SCALDING OF HOGS. Registered September 11, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,574. **YOLK-EM.** COLORING FOR FOOD AND CONFECTIONERY. Registered September 11, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,577. **SWATEM.** IMPLEMENTS FOR KILLING AND DISABLING INSECTS, FLIES, AND THE LIKE. Registered September 11, 1923. U. S. MANUFACTURING CORPORATION, Decatur, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,579. **FREEZE-EM.** CHEMICAL PREPARATION FOR USE IN DEODORIZING ICE BOXES, BUTCHERS' TOOLS, REFRIGERATORS, AND MEAT REPOSITORIES. Registered September 11, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,638. **SPERRY BLOSSOMS.** WHEAT FLOUR. Registered September 11, 1923. SPERRY FLOUR CO., San Francisco, Calif. Renewed September 11, 1943, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

172,671. **"EARLY BIRD" AND DRAWING.** POULTRY FEED. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

172,760. **BIG EGG.** POULTRY FEED. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

172,761. **LAKE.** WHEAT FLOUR. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

172,768. **SAXON.** ROLLED OATS AND WHEAT FOOD. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

172,801. **"BANQUET" AND DRAWING.** WHEAT FLOUR. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

172,889. **NOCKEM.** FLY SWATTERS, IMPLEMENTS FOR KILLING AND DISABLING INSECTS, FLIES, AND THE LIKE. Registered September 11, 1923. U. S. MANUFACTURING CORPORATION, Decatur, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,890. **SOAKEM.** FLY SWATTERS, IMPLEMENTS FOR KILLING AND DISABLING INSECTS, FLIES, AND THE LIKE. Registered September 11, 1923. U. S. MANUFACTURING CORPORATION, Decatur, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,891. **GETEM.** FLY SWATTERS, IMPLEMENTS FOR KILLING AND DISABLING INSECTS, FLIES, AND THE LIKE. Registered September 11, 1923. U. S. MANUFACTURING CORPORATION, Decatur, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,969. **IMPERIAL.** ROLLED OATS AND OATMEAL. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

172,983. **"HORSE POWER" AND DRAWING.** HORSE FEED. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

173,012. **"BANNER" AND DRAWING.** ROLLED OATS. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

173,028. **"MOGUL" AND DRAWING.** MIXED STOCK FEED. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

173,029. **"GREEN CROSS" AND DRAWING.** HORSE FEED. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

173,030. **"GOLDEN SWEET" AND DRAWING.** STOCK FEED. Registered September 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed September 11, 1943.

173,156. **"B" IN REPRESENTATION OF A DIAMOND.** COTTON, BURLAP, AND PAPER BAGS. Registered September 18, 1923. BEMIS BRO. BAG COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed September 18, 1943.

173,271. **"N" AND DRAWING.** CERTAIN NAMED CHEMICAL PREPARATIONS. Registered September 18, 1923. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED. Renewed September 18, 1943, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York, by merger.

173,336. **"WOOD'S PAMUNKEY" AND DRAWING.** SCRATCH FOOD FOR FOWL. Registered September 25, 1923. T. W. WOOD & SONS, Richmond, Va., a firm. Renewed September 25, 1943.

173,346. **GREENBACK.** HOSIERY, UNDERWEAR OF KNITTED OR TEXTILE FABRIC FOR MEN, WOMEN, AND CHILDREN, AND OUTER GARMENTS CONSISTING OF DRESSES, SKIRTS, AND SWEATERS. Registered September 25, 1923. MAY HOSIERY MILLS, INCORPORATED, Burlington, N. C. Renewed September 25, 1943, to Lynchburg Hosiery Mills, Lynchburg, Va., a corporation of Virginia, successor.

173,391. **EL DORADO.** COTTON PIECE GOODS. Registered September 25, 1923. NAUMKEAG STEAM COTTON COMPANY, Salem, Mass., a corporation of Massachusetts. Renewed September 25, 1943.

173,417. **AMERICAN.** INDICATING GAUGES, RECORDING GAUGES, INDICATING THERMOMETERS, RECORDING THERMOMETERS, ENGINE INDICATORS, REVOLUTION COUNTERS, AND GAUGE TESTERS. Registered September 25, 1923. AMERICAN STEAM GAUGE & VALVE MANUFACTURING COMPANY, Boston, Mass. Renewed September 25, 1943, to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

173,496. **ST. FRANCIS.** FRESH CITROUS FRUITS. Registered September 25, 1923. LINDSAY CO-OPERATIVE CITRUS ASSOCIATION, Lindsay, Calif., a corporation of California. Renewed September 25, 1943.

173,508. **"LA BELLE" AND DRAWING.** MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. Registered September 25, 1923. DAISY WHITEHEAD KNITTING CO. Renewed September 25, 1943, to Joseph A. Sacks, doing business as Daisy Whitehead Knitting Co., New York, N. Y., successor.

173,601. **THE KANSAS CITY STAR.** NEWSPAPERS. Registered October 2, 1923. LAURA NELSON-KIRKWOOD, trustee of the estate of William R. Nelson, deceased. Renewed October 2, 1943, to The Kansas City Star Company, Kansas City, Mo., a corporation of Missouri, assignee.

173,611. **"THE CHURCH BULLETIN" AND DRAWING.** CHURCH BULLETIN. Registered October 2, 1923. THE CHURCH BULLETIN, INC., New York, N. Y., a corporation of New York. Renewed October 2, 1943.

173,652. **TROJAN MAID.** MIDDIES, SMOCKS, AND CHILDREN'S DRESSES. Registered October 2, 1923. TROJAN MIDDY CO., INC., Troy, N. Y., a corporation of New York. Renewed October 2, 1943.

173,705. **"M" IN REPRESENTATION OF A HEXAGON.** BOLTS, RIVETS AND SPIKES. Registered October 2, 1923. THE MILTON MANUFACTURING COMPANY, Milton, Pa., a corporation of Pennsylvania. Renewed October 2, 1943.

173,708. **ARTSPAR.** PAINT ENAMELS. Registered October 2, 1923. THE AMERICAN VARNISH COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 2, 1943.

173,709. **AUTO-VAR.** PAINT ENAMELS. Registered October 2, 1923. THE AMERICAN VARNISH COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 2, 1943.

173,710. **"TRUBLU" AND DRAWING.** FRESH CITROUS FRUITS. Registered October 2, 1923. WILLIAM G. ROE, Winter Haven, Fla. Renewed October 2, 1943.

173,719. **DAINTYWEIGHT.** DRESS SHIELDS. Registered October 2, 1923. I. B. KLEINERT RUBBER COMPANY, New York, N. Y., a corporation of New York. Renewed October 2, 1943.

173,737. **RACOR.** TRACK SWITCHES, SWITCH STANDS, SWITCH PLATES, AND PARTS THEREOF. Registered October 2, 1923. RAMAPO AJAX CORPORATION. Renewed October 2, 1943, to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware, assignee.

173,740. **"RAWLINGS" AND DRAWING.** BASEBALLS, BALL-PLAYERS' GLOVES, AND BALL-PLAYERS' MITS. Registered October 2, 1923. RAWLINGS MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed October 2, 1943.

173,741. **PIEDIGROTTA.** CANNED PEELED TOMATOES AND TOMATO SAUCE. Registered October 2, 1923. P. PASTENE & CO., INC., Boston, Mass. Renewed October 2, 1943, to Pastene & Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

173,745. **REPRESENTATION OF A PENCIL IN CLOUDS.** LEAD PENCIL. Registered October 2, 1923. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed October 2, 1943.

173,753. **SOO.** CANNED FISH. Registered October 2, 1923. ABBOTT, HALL & CO., Boston, Mass., a firm. Renewed October 2, 1943.

173,826. **CHIMES.** FRESH CITROUS FRUITS. Registered October 2, 1923. LINDSAY CO-OPERATIVE CITRUS ASSOCIATION, Lindsay, Calif., a corporation of California. Renewed October 2, 1943.

173,834. **REPRESENTATION OF AN ARMORIAL SHIELD.** CORSETS, BRASSIÈRES, AND COMBINATION CORSETS AND BRASSIÈRES. Registered October 2, 1923. INTERNATIONAL CORSET COMPANY, Aurora, Ill., a corporation of Illinois. Renewed October 2, 1943.

173,869. **DARNETTE.** HOSIERY. Registered October 2, 1923. UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn., a corporation of Tennessee. Renewed October 2, 1943.

173,890. **WITCHING HOUR.** CANDIES AND CANDIED FRUIT. Registered October 2, 1923. MILLER & PAINE, INC., Lincoln, Nebr., a corporation of Nebraska. Renewed October 2, 1943.

173,963. **CLIPPER SHIP.** FRESH BOXED APPLES. Registered October 2, 1923. ROBT. J. GRAHAM, Cashmere, Wash. Renewed October 2, 1943, to A. Z. Wells, Wenatchee, Wash., assignee.

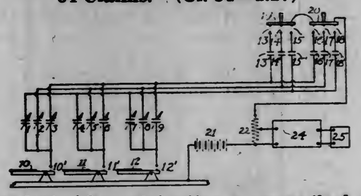
173,989. **NOXALL.** SOFT DRINK. Registered October 2, 1923. J. F. LAZIER MANUFACTURING COMPANY, INCORPORATED, St. Louis, Mo., a corporation of Missouri. Renewed October 2, 1943.

174,045. **CRE-SO-MUL.** A CERTAIN NAMED MEDICINAL PREPARATION. Registered October 2, 1923. FIRST TEXAS CHEMICAL MANUFACTURING COMPANY, Dallas, Tex., a corporation of Texas. Renewed October 2, 1943.

22,320
MATERIAL FOR SHOE STIFFENERS
Hugo Boeddinghaus, Newburgh, N. Y., assignor to American Felt Company, New York, N. Y., a corporation of Massachusetts
No Drawing. Original No. 2,298,274, dated October 13, 1942, Serial No. 351,237, August 3, 1940. Application for reissue February 26, 1943, Serial No. 477,290
4 Claims. (Cl. 36—68)

4. A shoe stiffener in the form of a sheet consisting of a carded mixture of from more than 30 per cent to approximately 50 per cent of thermoplastic fibers and the remainder substantially all cotton fibers, said mixture being bonded and compacted to a stiff condition by hot pressure, and being capable of being softened by the action of heat or solvent and said sheet being approximately .055 inch to approximately .065 inch in thickness.

22,321
ELECTRICAL MUSICAL INSTRUMENT
Raymond C. Fisher, Tacoma, Wash.
Original No. 2,055,719, dated September 29, 1936, Serial No. 623,639, July 20, 1932. Application for reissue March 14, 1938, Serial No. 195,850
34 Claims. (Cl. 84—1.17)

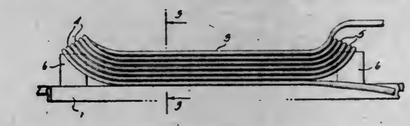


1. A device for originating a prescribed waveform, comprising a quasi-linear circuit, a condenser of variable capacitance in said circuit for varying the negative reactance therein, and actuating means for continuously varying the capacitance of said condenser in accordance with said waveform.

22. In a system for the production of music, a source of constant potential, a plurality of rotatably driven means for electrostatically producing varying potentials at selected tone frequencies, electrostatic means for determining the manner in which said varying potential varies for producing tones of various timbres, a sound producing circuit, means for impressing potentials at selected tone frequencies derived from said rotatably driven means and of selected tone timbres derived from said timbre determining means upon said sound producing circuit, and means for prolonging the duration of the tones emitted by said sound producer.

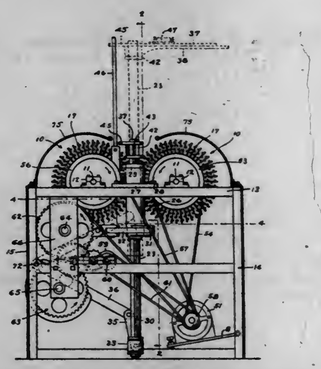
22,322
INDUCTION HEATING DEVICE
Edward S. Goodridge, Port Washington, N. Y., assignor to Induction Heating Corporation, New York, N. Y., a corporation of New York
Original No. 2,308,240, dated January 12, 1943, Serial No. 389,296, April 19, 1941. Application for reissue March 11, 1943, Serial No. 478,767
10 Claims. (Cl. 219—47)

1. A unitary field coil for induction heating comprising a conductor shaped to form at least one substantially complete convolution to receive and inductively surround an article to be heated while the article is passing through the field within the coil, the end sections of the convolution being bent out of the plane of the convolution so as to enable the article to enter and



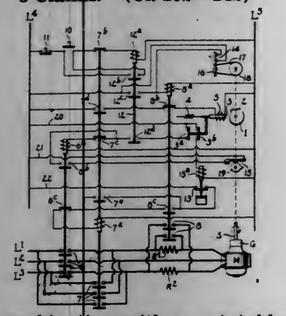
leave the coil at opposite ends of the convolution, by a uni-directional motion with the coil stationary and while the article during such motion passes along between the sides of the convolution, said sides extending substantially directly between said end sections and along opposite sides of a path for the article therebetween.

22,323
MECHANICAL POULTRY PICKER
Eddy E. McMahan, Los Angeles, Calif., and Antoine Charlebois, Bellingham, Wash.; said Eddy E. McMahan assignor to Ward D. McMahan, Port Angeles, Wash.
Original No. 2,235,619, dated March 18, 1941, Serial No. 309,088, December 13, 1939. Application for reissue March 14, 1942, Serial No. 434,694
8 Claims. (Cl. 17—11.1)



1. A machine of the character described comprising, a pair of rotatable feather removing beater drums provided with a plurality of radially disposed rubber fingers, each finger having a head formed thereon to prevent it from parting from the drum, said fingers being adapted to beat substantially the entire feathered area of a fowl, means to support a single fowl and subject the same to the action of said drums, said means including a vertically movable shaft, a clamp carried by the upper end of the shaft adapted to suspend poultry by the legs head downward, means for raising and lowering the shaft, and means for intermittently rotating the shaft through an arc of 90° when in its uppermost position.

22,324
CONTROL SYSTEM
John M. Newman, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Original No. 2,308,709, dated January 19, 1943, Serial No. 390,221, April 25, 1941. Application for reissue March 25, 1943, Serial No. 480,518
8 Claims. (Cl. 192—142)



1. The combination with a rotatable spindle and a reversible driving motor therefor, of a stop on said spindle, a stop engaging element movable into and out of the path of said stop, power control means for said motor for effecting operation thereof in forward direction and for thereafter plugging the same and effecting reversal thereof, means for maintaining said element out of the path of said stop during forward operation of said motor and for moving said element into the path of said stop upon initial rotation of said motor in its reverse direction, and means rendered operative by movement of said element into the path of said stop for deenergizing said motor.

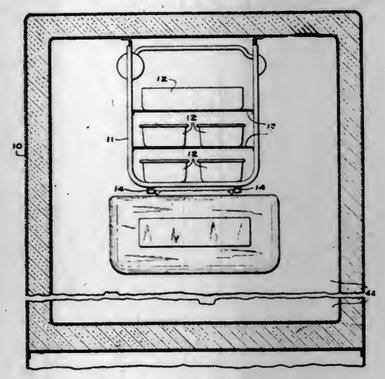
22,325
PROTECTOR
Charles M. O'Boyle, Wilmington, Del.
Original No. 2,091,330, dated August 31, 1937, Serial No. 747,122, October 6, 1934. Application for reissue May 13, 1938, Serial No. 207,849
4 Claims. (Cl. 102—1)



1. A protector for rifling bands comprising a strip arranged to encircle the band and having an inwardly extending rib arranged to fit in an external annular groove in the rifling band and having flat grooves formed in its outer surface, and flat securing means arranged to seat in said flat grooves.

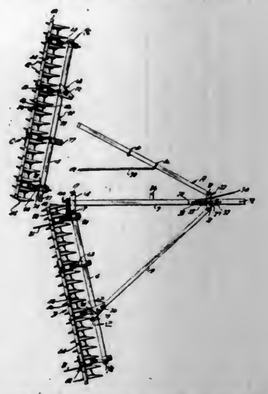
22,326
REFRIGERATION APPARATUS
Theodore W. Rundell, Abington, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original No. 2,202,803, dated May 28, 1940, Serial No. 205,330, April 30, 1938. Application for reissue August 20, 1941, Serial No. 407,630
8 Claims. (Cl. 62—89)

1. In a mechanical refrigerator, the combination of a refrigerator cabinet, a cooling unit therein, a food storage vessel disposed below said cooling unit, a cover member for said food storage vessel, and means secured to said cooling unit for slidably suspending and normally retaining



the cover member in a fixed position relative to said cooling unit and for providing a metallic heat conducting path therebetween, said means, however, affording intentional removal of said cover member.

22,327
DISK HARROW
John P. Seaholm, Moline, Ill., assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware
Original No. 2,226,587, dated December 31, 1940, Serial No. 282,091, June 30, 1939. Application for reissue June 26, 1941, Serial No. 399,873
25 Claims. (Cl. 55—81)

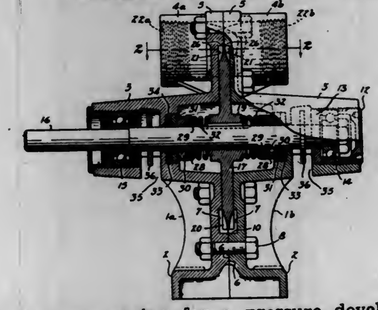


1. A disk harrow structure comprising a pair of disk gangs operatively connected and adjustable from wide spread working positions at opposite sides of a medial draft line with their inner ends transversely opposed to tandem positions one behind the other whereby they will traverse a common path of travel, and means for releasably connecting the gangs in tandem position.

PATENTS

GRANTED MAY 25, 1943

2,319,776
ROTARY PUMP
Charles V. Copeland, Davenport, Iowa, and Frederick S. Schrage, Rock Island, Ill., assignors, by mesne assignments, to Joshua Hendy Iron Works, Sunnyville, Calif., a corporation of Nevada
Application November 8, 1940, Serial No. 364,900
8 Claims. (Cl. 103—96)

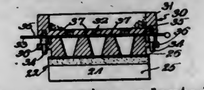


1. A pump casing for a pressure developing pump of the type having a rotor with a central disc portion and with a plurality of marginal buckets to develop fluid pressure in an annular pressure developing passageway, comprising two substantially identical mating casing sections, each section having an integral base portion, an integral shaft supporting boss and a substantially cylindrical body portion, said body portion having a central portion for close working fit with said disc portion of said rotor to prevent liquid from flowing inwardly toward the central portion of said casing section and a rim which has a face for cooperation with the face of the mating sections, an annular channel in each section adjacent said rim, the channels in the two sections registering and forming together an annular pressure developing fluid passageway, the terminals of said fluid passageway being ports for ingress or egress of fluid, a stop between said ports for deflecting fluid from said passageway into the outlet port, said stop comprising a shoulder portion in each section adapted to closely overlie the outer periphery of said rotor and extending to the plane of the face of said rim, said ports and portions of said passageway being substantially equidistant from an axial plane bisecting said stop and said base portion, portions of said passageway and said stop being symmetrical with respect to said plane, whereby a pump is provided in which the rotor may be caused to rotate in either direction without varying the characteristics of the pump.

2,319,777
PROCESS FOR THE PRODUCTION OF A METARSENITE
Marc Le Duc, Antioch, Calif.
No Drawing. Application June 22, 1939, Serial No. 280,651
4 Claims. (Cl. 23—53)

2. A continuous process for the manufacture of a metarsenite consisting in forming a mixture of dry, finely divided arsenious oxide and a dry, finely divided solid material selected from the group consisting of the hydroxides, carbonates and oxides of the earth alkali metals and the hydroxides and carbonates of the alkali metals, said arsenious oxide and said material being present in said mixture in amounts corresponding to those required stochiometrically to form said metarsenite, and maintaining the temperature of between about 80° C. and about 100° C. to react said arsenious oxide and said material and leave a dry, white friable, metarsenite as the product.

2,319,778
APPARATUS FOR MAKING FLAME COLORING STICKS
Jonathan P. B. Fiske, Newton, Mass.
Original application October 29, 1940, Serial No. 363,240. Divided and this application October 22, 1941, Serial No. 416,061
6 Claims. (Cl. 18—34)



1. Molding apparatus adapted for forming sticks of flame coloring material comprising a die block, a bed including a base block, a sheet of non-adhesive non-porous material and a layer of depressible resilient material interposed between the base block and the sheet, said die block having molding cavities therein open at both ends and resting upon said sheet of non-adhesive material, and means for so clamping the die block to the bed that the bottom surface of the die block is depressed into the layer of the base and the molding cavities are sealed at one end by the sheet of non-adhesive material.

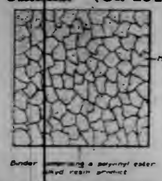
2,319,779
SLENDERIZING, NON-RIDE-UP GARMENT
Willie Gardner Kidder, Los Angeles, Calif.
Application November 8, 1939, Serial No. 303,490
1 Claim. (Cl. 2—73)



A form fitting slip comprising a pair of front sections and a pair of back sections forming the major portion of the slip, said sections being secured together throughout their lengths and defining rear, side and front seams, the edges of all said sections at the rear and side seams being oppositely concave at the uppermost portions thereof, oppositely convex over the thigh and seat portions thereof, oppositely concave below the thigh and seat portions, and said edges thence diverging to the lower ends of the sections, the back sections extending above the front sections

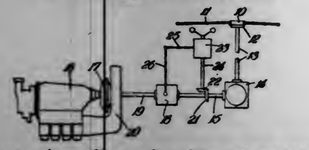
and the upper edges of the front sections being concave, and a pair of breast sections each having a cut out portion at each end thereof and having a lower convex edge secured to the corresponding concave edge of the adjacent front section, the opposed convexed edges defined by said cut out portions in said breast sections being brought together to form darts with the adjacent ends of said breast sections secured together in line with the connection between said front sections, and the opposed ends of said breast sections being secured to the adjacent edges of said back sections above said front sections and in line with the connections between the front and back sections, and shoulder straps interconnecting the upper ends of said back sections and the upper edges of said breast sections, the concavo convex edge formation of said sections providing a form fit about the waist and hips of wearer, the darts in said breast sections providing breast receiving pockets, and the adjacent edges of said front sections being of opposed concave formation and providing at the lower ends thereof in cooperation with said diverging edge portions a widened, flared lower end for the slip, substantially as set forth in specifications.

2,319,780
LAMINATED MICA
Fred G. Pellett, Alplaus, N. Y., assignor to General Electric Company, a corporation of New York
Application May 2, 1941, Serial No. 391,546
10 Claims. (Cl. 154—2.6)



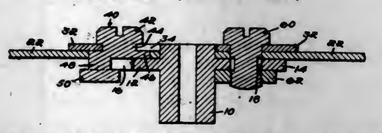
1. An electrically insulating material comprising mica flakes bonded together with a cementing agent comprising a heat blended mixture of an alkyd resin and a polyvinyl ester selected from the group consisting of polyvinyl acetate and partially hydrolyzed polyvinyl acetate, the said polyvinyl ester comprising from 20 to 80 per cent by weight of said mixture.

2,319,781
ROTARY WING AIRCRAFT
Cyril George Pullin, Genista, Newton Mearns, Scotland, assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application May 25, 1940, Serial No. 337,172
In Great Britain March 18, 1939
11 Claims. (Cl. 244—17)



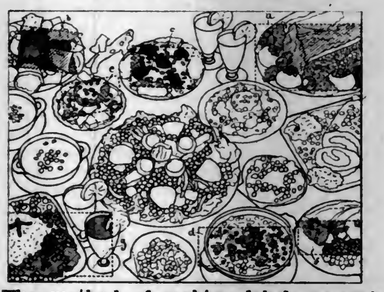
1. In an aircraft, a plurality of sustaining rotors, a power unit, gearing driven from the power unit and a power transmission to each of the rotors from said gearing, a variable speed gear and a gear selector in each of said power transmissions and coupling means to actuate the gear selectors simultaneously.

2,319,782
ADJUSTABLE POINTER
Robert Usher Rourke, Webster, Mass., assignor to Waterhouse Company, Webster, Mass., a corporation of Massachusetts
Application February 23, 1942, Serial No. 432,012
4 Claims. (Cl. 116—129)



1. Adjustable pointer mechanism, comprising the combination of a hub member adapted to be mounted on a shaft, a pointer, means supporting the pointer on the hub member for adjusting movement transversely of its rotary axis and with opposite end portions of the pointer located on opposite sides of said axis, a keeper plate superposed on the pointer over the hub member, a rotary adjustable eccentric member cooperating with the keeper plate, pointer and hub member on one side of the axis of the pointer for rotatably adjusting the pointer about the axis, and screw threaded means on the opposite side of the axis for securing the pointer against rotation relative to the hub member, said eccentric member and screw threaded means also embodying portions holding the keeper plate and pointer in assembled relation on the hub member.

2,319,783
METHOD OF MAKING LABELS
Gerald Murphy, Milwaukee, Wis., assignor to The United States Printing & Lithograph Company, Cincinnati, Ohio, a corporation of Ohio
Application January 23, 1940, Serial No. 315,225
8 Claims. (Cl. 95—5)

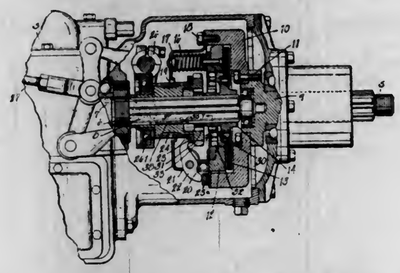


1. The method of making labels comprising the following steps: assembling a plurality of dishes of food products prepared according to recipes for said dishes; photographing said assembly; preparing a set of basic master-plates from said photograph; preparing a printing film from said plates; cropping-out sections from figures on said film; registering said crop-outs into position in association with corresponding type-matter on a label-assembly, and printing labels from said assembly.

2,319,784
DRIVING MECHANISM
Thomas Backus, Kalamazoo, Mich., assignor to Fuller Manufacturing Company, Kalamazoo, Mich.
Application September 13, 1940, Serial No. 356,573
22 Claims. (Cl. 74—189.5)

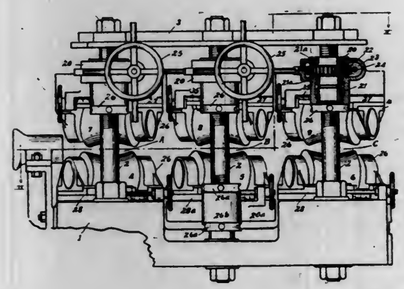
22. The combination in a motor vehicle, of a

prime mover, a transmission, a clutch mechanism, and a driven member associated in the order named, the driven member being subject to coasting load of the vehicle, said clutch mechanism comprising a friction clutch and a positive clutch, said friction clutch being operatively connected to the transmission to transmit coast load



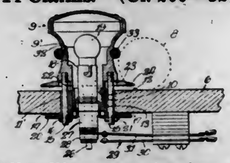
thereto and being operatively associated with said positive clutch to relieve said positive clutch of coast load, said friction clutch being of sufficient capacity to carry the coast load but of insufficient capacity to carry the torque developed by the prime mover through said transmission exceeding the coast load.

2,319,785
CROSS ROLL APPARATUS
Petter B. Abramsen, deceased, late of Dormont, Pa., by Gudrun Abramsen, administratrix, Dormont, Pa.
Application August 4, 1940, Serial No. 351,376
1 Claim. (Cl. 153—60)



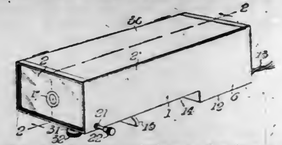
In cross rolling apparatus for round stock including at least two cross roll passes each having two positively driven rolls, a drive for the two said passes including driving connections from one power source to one roll in each of the cross roll passes and driving connections from another power source to the other roll in each of the two cross roll passes, so that the rotative speed of each roll in each pass is equal to the speed of one of the rolls in the other pass and so that by contact of all rolls of both passes with the stock the rolls are mechanically interlocked and a uniform speed of rotation of all rolls is imposed, in conjunction with means for regulating the rate of stock travel through the apparatus and for relatively regulating the effect of roll contact with the stock in the two said passes including adjusting means for adjusting the angular relation of the cross rolls independently in the two said passes.

2,319,786
BUMPER SWITCH UNIT FOR BALL ROLLING GAMES
Melvin J. Binks, River Forest, Ill., assignor to J. H. Keeney & Co., Inc., Chicago, Ill., a corporation of Illinois
Application July 15, 1940, Serial No. 345,465
14 Claims. (Cl. 200—52)



1. In a ball rolling game having a game board with an aperture therein, a bumper switch unit comprising, in combination, an upright standard extending above the board and having a portion adapted to project into the aperture in the board, an annular guide surface on said standard just above the board, means including an element disposed beneath the board for clamping said standard rigidly onto the board, an annular ring loosely surrounding said standard extending beyond the aperture in the board and guided by said guide surface for limited bodily movement longitudinally of said standard, said ring being yieldably urged to the upper limit of its movement, a switch governed by said ring and a rebound element comprising a band of resilient material surrounding said standard in position to be contacted by a ball rolling on the game board after the same has actuated said ring.

2,319,787
SIGHT TRAINING PICTURE DEVICE
Edward L. Black, United States Army, Fort Benning, Ga.
Application June 1, 1942, Serial No. 455,372
10 Claims. (Cl. 35—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

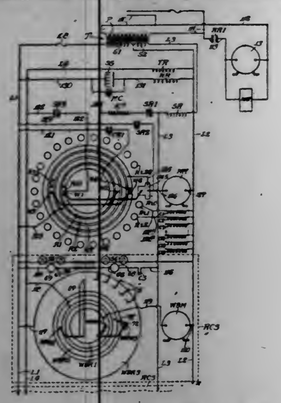


1. A sight training picture device comprising in combination a casing, a translucent member closing one end of said casing, a bull's-eye provided on said translucent member, a plurality of supporting means adjustably mounted on said casing, a front sight member carried by one of said supporting means and a rear sight member carried by another of said supporting means, means adapted to project shadow pictures of said front and rear sight members onto the translucent member, separate means for actuating each of said supporting means for moving said front and rear sight members into and out of alinement with each other and with said bull's-eye.

2,319,788
REMOTE SELECTOR AND CONTROL SYSTEM
Hubert L. Bryan, Dallas, Tex., and Melvin J. Binks, River Forest, Ill.
Application June 18, 1940, Serial No. 341,214
20 Claims. (Cl. 177—353)

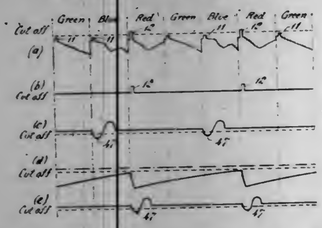
1. A remote control system comprising, in combination, a plurality of devices to be selectively

energized located at the object to be controlled, a first normally idle power driven means conditioning when operating a circuit including each of said devices in succession, a remotely located control unit including a second normally idle power driven means adapted to operate in timed relation with said first power driven means, a settable element corresponding to each of said devices and means operable to send a starting



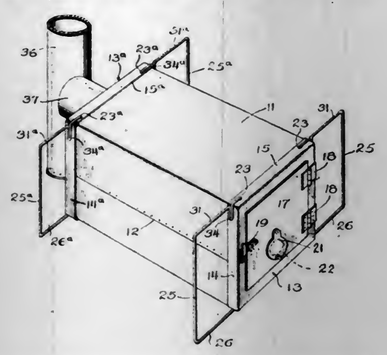
impulse, means at the object to be controlled responsive to the starting impulse and operable simultaneously to initiate operation of both said power driven means, said second power driven means sending an impulse upon reaching the settable element previously set, and means located at the object to be controlled responsive to said last mentioned impulse to complete the circuit conditioned by said first power driven means to energize said device then in circuit.

2,319,789
TELEVISION
Torrence Harrison Chambers, Ardmore, Pa.
Application October 3, 1941, Serial No. 413,443
10 Claims. (Cl. 178—5.2)



1. In a color television system, the method which comprises generating a color video signal having successive portions representing different colors of a selected plurality of colors and corresponding image synchronizing signals, generating a sub-carrier of a frequency lying in a vacant region within the spectrum of said video signal and impressing thereon modulating color synchronizing signals of the frequency of portions representing a selected color of said plurality of colors, transmitting said color video and image synchronizing signals and the modulated sub-carrier on a carrier of selected frequency, receiving, demodulating and utilizing said video and image synchronizing signals for reproducing images corresponding to successive portions of the video signal and receiving, demodulating and utilizing said color synchronizing signals for synchronizing the reproduction of said images in the colors to which the images correspond.

2,319,790
STOVE
Avery M. Cochran, United States Army, Colorado Springs, Colo.
Application October 9, 1942, Serial No. 461,369
3 Claims. (Cl. 126—29)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a stove structure, in combination, a body portion comprising a relatively long, narrow rectangular sheet metal tube including perforations in its top and bottom walls adjacent each end of each of said walls; a pair of end panels for said stove body; each of said panels including a substantially square, flat plate having relatively deep flanges on the top, bottom, and both sides: the top and bottom flanges of each plate including perforations adjacent the opposite side flanges thereof; stove legs attached to the opposite sides of each of said panels; each of said stove legs comprising a vertical riser portion spaced apart from the panel, top and bottom rails extending horizontally from the top and bottom of said riser to the top and bottom flanges of the panels respectively; said rails terminating in a downwardly extending top pin and an upwardly extending bottom pin respectively; said top and bottom pins adapted to extend through the perforations in the panels and through the aforementioned perforations in the body of the stove to secure the panels in position on said stove body, together with limiting stops for said legs, each stop consisting of a vertical projection on one of the aforementioned rails at a point adjacent one of said pins; the limiting stops contacting the flange of the end panel to prevent pivotal movement of the legs.

2,319,791
ABRASIVES
Loring Coes, Jr., Brookfield, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application July 23, 1942, Serial No. 452,088
8 Claims. (Cl. 51—298)

5. A grinding wheel or other abrasive article comprising abrasive grains bonded together by a bond that comprises the reaction product, under heat treatment, of a resin-hardening agent comprising a compound selected from the group consisting of the reaction product with chloracetic acid of glycerol $\alpha\gamma$ dichlorhydrin, the reaction product with chloracetic acid of glycerol $\alpha\beta$ dichlorhydrin and a mixture thereof, which hardening agent is also a grain-wettant and wets the abrasive grains initially, and aniline formaldehyde resin.

2,319,792
ABRASIVE
Loring Coes, Jr., Brookfield, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application July 23, 1942, Serial No. 452,090
9 Claims. (Cl. 51—298)

4. A grinding wheel or other abrasive body comprising abrasive grains bonded with a resin bond that comprises the reaction product of resin and a plasticizer and hardening agent selected from the group consisting of the mono-, di-, and tri-, glycol di-monochloracetates and tri-methylene glycol di-monochloracetate, or a mixture of two or more thereof.

2,319,793
ABRASIVES
Loring Coes, Jr., Brookfield, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application July 23, 1942, Serial No. 452,092
9 Claims. (Cl. 51—298)

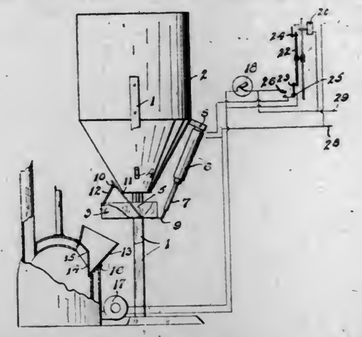
4. A grinding wheel or other abrasive body comprising abrasive grains bonded with the reaction product under heat treatment of amine formaldehyde resin and a grain-wetting and resin-hardening agent selected from the group consisting of di-2chlorethyl phthalate, di-2chlorethyl maleate, and di-2chlorethyl succinate.

2,319,794
ABRASIVE
Loring Coes, Jr., Brookfield, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application July 23, 1942, Serial No. 452,094
11 Claims. (Cl. 51—298)

7. A grinding wheel or other abrasive article comprising abrasive grains bonded by a bond that comprises reaction product of aniline formaldehyde resin and a compound selected from the group consisting of glycerol tri-monochloracetate, tri-methylol propane tri-monochloracetate and a mixture thereof.

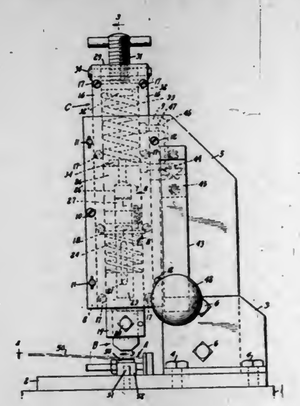
2,319,795
AUTOMATIC COAL STOKING MACHINE
Jack Oscar Coffin, Salt Lake City, Utah
Application September 22, 1939, Serial No. 296,085
1 Claim. (Cl. 110—101)

An automatic coal stoker of the class described comprising, a vertical walled cylindrical hopper having the bottom formed as an inverted frustro-conical base with the end open; a control plate pivoted across the opening, said plate being narrower than the width of the opening, said plate normally being away from the opening; a tiltable dump pan mounted spaced below said plate and opening to receive the coal from the hopper, said pan to discharge coal into a burner area; a link connecting the dump pan and plate, a solenoid pivotally mounted on the side of the hopper and having the core of the solenoid con-



nected pivotally with an extension on the dump pan, said solenoid to actuate the dump pan, simultaneously closing the flow of coal from the hopper.

2,319,796
APPARATUS FOR FORMING CHARACTERS AND DESIGNS ON SILVER-PLATED FLATWARE
Theodore Cooper, Trumbull, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application October 11, 1939, Serial No. 298,948
8 Claims. (Cl. 101—4)



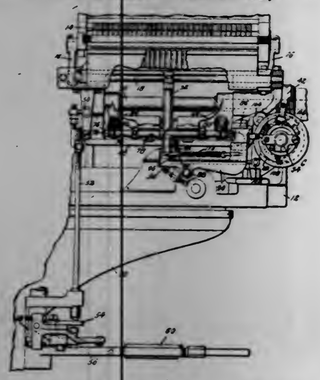
8. In a metal working device of the character set forth, the combination of a support for the work which support is mounted for rocking movement in all directions to provide for self-alignment, a stationary frame and a frame reciprocably mounted in said stationary frame and a member carrying a tool adapted to engage said work while supported on said self-aligning support, a hammer element for delivering a blow to said tool, a power spring for actuating said hammer, a second spring engaging said tool carrying member, and means for actuating said reciprocable frame and causing said tool to engage the work under the influence of both of said springs and then releasing said hammer to deliver a hammer blow to the tool under the influence of said power spring.

2,319,797

FASTENING-SUPPLYING APPARATUS

Wallace M. Cutler, Gloucester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application May 8, 1941, Serial No. 392,481
14 Claims. (Cl. 1—39)



1. In fastening-supplying mechanism, a movable raceway, a constantly rotatable shaft, a member constantly movable by the shaft to move the raceway, and means for preventing the constantly movable member from acting upon the raceway while rotation of the shaft continues.

2,319,798

INTERPOLYMERS OF AN UNSATURATED ALKYD RESIN AND A POLY-(HALOGENOALLYL) ESTER

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application October 31, 1939, Serial No. 302,171
15 Claims. (Cl. 260—42)

5. A product comprising an interpolymer of (1) a polymerizable unsaturated alkyd resin and (2) a phthalic di-ester of 2-chloroallyl alcohol in an amount corresponding to from 5 to 50 per cent by weight of the mixed components of (1) and (2).

6. A composition comprising the product of polymerization of a mixture including (1) a polymerizable unsaturated alkyd resin obtained by reaction of a mass comprising essentially a polyhydric alcohol and an alpha unsaturated alpha beta polycarboxylic acid and (2) a poly-(2-chloroallyl) ester of an aromatic polycarboxylic acid, said poly-(2-chloroallyl) ester constituting from 5 to 50 per cent by weight of the mixed components of (1) and (2).

2,319,799

INTERPOLYMERS OF AN UNSATURATED ALKYD RESIN AND A POLY-(1-HALOGENOALLYL) ESTER

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Original application October 31, 1939, Serial No. 302,171. Divided and this application August 23, 1942, Serial No. 455,812
19 Claims. (Cl. 260—42)

1. A polymerizable composition comprising (1) a polymerizable unsaturated alkyd resin, (2) a poly-(1-halogenoallyl) ester of a polycarboxylic acid selected from the class consisting of saturated aliphatic polycarboxylic acids and aromatic polycarboxylic acids, said poly-(1-halogenoallyl) ester constituting from 1 to 65 per cent by weight of the mixed components of (1) and (2), and (3) a catalyst for accelerating the copolymerization of the said mixed components.

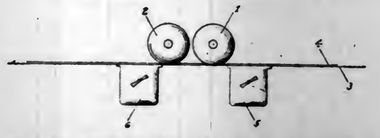
2. The polymerized composition of claim 1.

2,319,800

MEANS AND METHOD FOR IMPROVING THE QUALITY OF PAPER

Jess R. Denton, Brevard, N. C., assignor to Ecusta Paper Corporation, a corporation of Delaware

Application April 21, 1941, Serial No. 389,586
9 Claims. (Cl. 92—48)



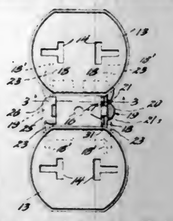
5. In the production of laid, relatively thin, paper from a continuous moving wet web of paper, the combination of a perforate, woven surface processing roll for first smoothing or conditioning the web by rotative contact therewith, and a laid dandy roll for rotative contact with the conditioned web to provide the laid design therein such that the depth of the laid lines is limited and the areas between lines rendered more opaque and uniform.

2,319,801

DUPLEX CONVENIENCE OUTLET

Victor R. Despard, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Solvay Station, Syracuse, N. Y., a corporation of New York

Application February 13, 1941, Serial No. 378,805
8 Claims. (Cl. 173—330)



1. In a duplex convenience outlet, in combination, an insulation base supporting two pairs of spring contacts for engagement by attachment plug blades, a plate electrically connected to each contact and supporting a terminal screw, said plates being arranged in pairs, one on each side of said base, an insulation barrier separating the plates of one pair and an independent spring clip adapted to bridge said barrier and electrically and frictionally engage the plates of a pair independently of said screws to connect them together.

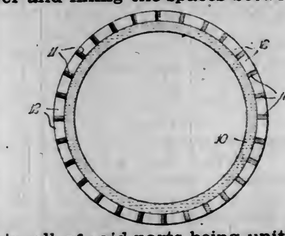
2,319,802

ORNAMENTAL TUBING

Henry Dreyfuss, New York, N. Y., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware

Application November 13, 1940, Serial No. 365,523
7 Claims. (Cl. 41—21)

1. A decorative material for fabrication of tubular articles comprising a tubular under layer, a series of strip elements disposed thereupon and extending outwardly therefrom in generally radial directions and spaced from one another circumferentially thereof, said strips being of one color on their sides which are presented in one circumferential direction and of contrasting color on their sides which are presented in the other circumferential direction, and transparent colorless intermediate elements disposed upon the under layer and filling the spaces between the strip



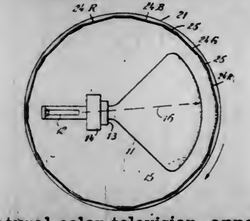
elements, all of said parts being united with one another in the areas where they meet to form an intergral tubular structure with the outer surfaces of the strip and intermediate elements forming the outer curved surface of the tube, the colors of the strip elements being visible from said outer surface through portions of the intermediate elements.

2,319,803

TELEVISION

John N. Dyer, Stamford, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York

Application February 24, 1941, Serial No. 380,097
7 Claims. (Cl. 178—5.2)



1. In natural color television, apparatus which comprises an electronic scanning device comprising an envelope having a two-dimensional scanning area therewithin, means for scanning said scanning area in two dimensions in a plurality of side-by-side lines at field-scanning frequency, a rotatable color filter drum having a plurality of different color filter segments on the peripheral surface thereof, said drum encircling at least a portion of said envelope and being positioned so that as the drum rotates said color filter segments successively traverse said scanning area, and means for rotating said drum at a substantially uniform speed such that the field of said scanning area is scanned during the period a filter segment traverses said scanning area.

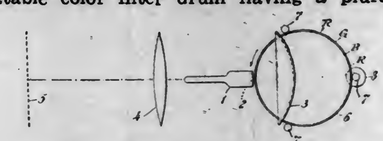
2,319,804

TELEVISION

John N. Dyer, Stamford, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York

Original application February 24, 1941, Serial No. 380,097. Divided and this application June 9, 1942, Serial No. 446,385
5 Claims. (Cl. 178—5.4)

1. In color television, in combination an electronic scanning device comprising an envelope having a two-dimensional scanning area associated therewith, a concave mirror positioned in the path of light of said scanning area with its concave side toward the scanning area, and a rotatable color filter drum having a plurality



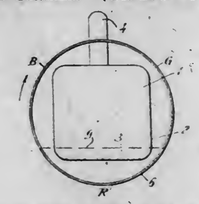
of different color filter segments on the pheripheral surface thereof, said drum being positioned so that its pheripheral surface moves adjacent said scanning area in the path of light between said scanning area and said mirror.

2,319,805

TELEVISION

John N. Dyer, Stamford, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York

Original application February 24, 1941, Serial No. 380,097. Divided and this application June 9, 1942, Serial No. 446,386
5 Claims. (Cl. 178—5.4)



1. Color television apparatus which comprises, in combination, a scanning device adapted to scan a two-dimensional scanning area in a plurality of side-by-side lines at field-scanning frequency, a movable element having a plurality of color filter segments arranged therealong, means for continuously moving said element to cause said segments to successively traverse said scanning area at a substantial angle with respect to the direction of low-frequency scanning and at substantially field-scanning frequency, the length of said segments in the direction of said lines being at least equal to the length of the lines and the boundaries between segments being at an angle with respect to the direction of movement thereof so that lines of said area are progressively obscured by a segment as it traverses the scanning area.

2,319,806

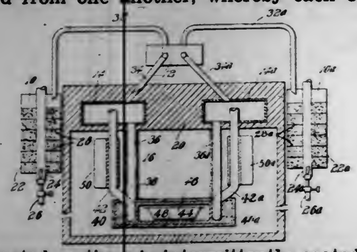
ABSORPTION OR ADSORPTION REFRIGERATING APPARATUS

Nils Erland af Kleen, Stockholm, Sweden

Application September 5, 1939, Serial No. 293,477
In Germany April 19, 1939
20 Claims. (Cl. 62—118)

11. Refrigerating apparatus of the intermittent absorption type having at least two units operating in out of phase relationship, each unit including an evaporator formed with at least two cold producing sections, and heat conducting means connecting one of said cold producing sections of one evaporator to the corresponding cold producing section of the other evaporator, whereby substantially continuous low temperature is maintained by said connected cold producing sections through said means, the other cold pro-

ducing sections of the evaporators being separated from one another, whereby each of said



separated sections is intermittently coated with frost and alternately defrosted during the operation of the corresponding unit.

2,319,807

TOWER UNIT FOR CONCRETE MIXERS AND THE LIKE

John D. Farrell, Nunda, N. Y., assignor to The Foote Company, Inc., Nunda, N. Y., a corporation of Delaware

Application May 5, 1941, Serial No. 391,868
4 Claims. (Cl. 259—160)



1. In combination with a mobile concrete mixer having a frame movably supported by wheeled means, an open ended mixing drum on said frame rotatable about a substantially horizontal axis extending longitudinally of said frame, a skip at the rear end of said frame for elevating and discharging the aggregate and cement into the adjacent end of said drum, means in the opposite end of said drum for discharging the mixed concrete therefrom, said discharging means being arranged at the front end of said mixer and the greater part of said discharging means being arranged within the framework of said mixer and a prime mover supported by said frame and operatively connected to propel the mixer and actuate said skip and mixing drum; a tower unit for delivering concrete at an elevated station, comprising a carriage independent of said mixer and movably supported by wheeled means, a vertical tower mounted on said carriage in juxtaposition to the front concrete discharge end of said mixer, means for coupling said carriage to said mixer frame, an elevator bucket arranged in said tower and adapted to receive a load of concrete from said discharging means, a track arranged vertically in said tower along the opposite sides thereof and guiding the travel of said bucket vertically in said tower, said track immediately adjacent said discharging means of said mixer being arranged in rear of the vertical medial line of said tower thereby to bring the bucket rearwardly into a position under the extremity of said discharging means to receive concrete therefrom and said track thence continuing upwardly and forwardly a certain distance to carry the rising bucket toward the center of said tower following the filling thereof and said track thence continuing upwardly and substantially parallel with said tower, and means for raising and lowering said bucket along said track.

2,319,808

STEROL DERIVATIVES AND PROCESS FOR PRODUCING SAME

Erhard Fernholz, Princeton, and Homer E. Stavely, Highland Park, N. J., assignors to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Application August 31, 1939, Serial No. 292,892
4 Claims. (Cl. 260—397.2)

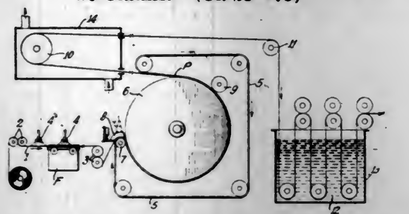
1. Stigmastadienone 22,23-dibromide.

2,319,809

PROCESS FOR MAKING AND TREATING TEXTILES AND THE PRODUCTS PRODUCED

Carleton S. Francis, Jr., Chestnut Hill, Pa., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia

Application December 22, 1939, Serial No. 310,533
20 Claims. (Cl. 28—73)



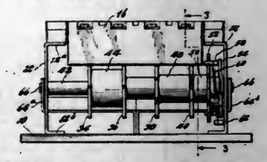
1. A process of treating a fabric containing yarns spun from a mixture of textile fibres and thermoplastic fibres having an inherent tackiness upon heating, comprising shrinking the fabric, fixing the shrunk structure by rendering the thermoplastic fibres tacky by heating to effect adhesion between fibres in the fabric, and thereafter rendering the tacky material non-tacky.

2,319,810

ALTERNATING SWITCH

Paul T. Galt, Jr., Hartford, and Harold E. Schleicher, West Hartford, Conn., assignors to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn., a corporation of Connecticut

Original application January 24, 1940, Serial No. 315,428. Divided and this application October 8, 1940, Serial No. 360,330
8 Claims. (Cl. 200—5)



1. A switching device for controlling alternate and joint operation of electric units, comprising

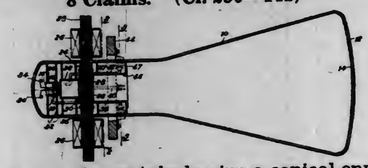
an operating member, a plurality of cam means, individual contact means operable by each cam means, certain of said cam means being operable as a unit with said member, means to cause certain other of said cam means to move only when said member moves in one direction, said certain other cam means being constructed and arranged to alternate the engagement of the several contact means controlled thereby each time said operating member comes into one position and to cause engagement of all the contact means controlled by said certain other cam means when said operating member moves said certain other cam means beyond the position of normal alternation.

2,319,811

CATHODE RAY TUBE

Roscoe H. George and Wilfred M. Hesselberth, West Lafayette, Ind., assignors to Radio Corporation of America, a corporation of Delaware

Application June 28, 1941, Serial No. 400,192
8 Claims. (Cl. 250—141)



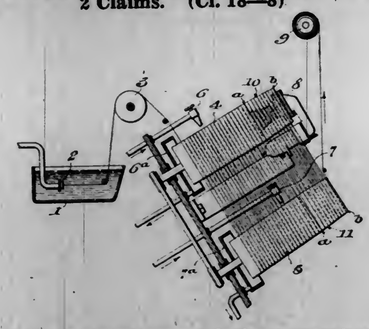
1. A cathode ray tube having a conical envelope portion and a substantially cylindrical portion attached to the small end of the conical portion and positioned coaxial therewith, said cylindrical portion enclosing means adapted to generate a focused cathode ray beam, said means including a cathode, control electrode, first anode and second anode elements, means for positioning and retaining the elements in a predetermined position, and a conductor electrically connected to each of the elements, each of said conductors extending in substantially a common transverse plane through the side wall of the cylindrical portion of the tube envelope in a region intermediate the location of the second anode member and the junction of the conical and the cylindrical portions of the tube, so that energizing potentials may be applied to the various elements.

2,319,812

APPARATUS FOR TREATING AND DRYING THREAD

Carl F. Gram, Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

Application March 18, 1939, Serial No. 262,677
2 Claims. (Cl. 18—8)



1. A thread treating and drying apparatus com-

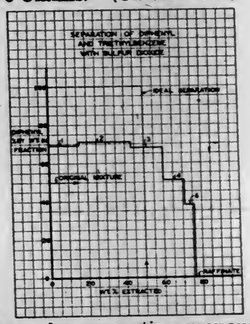
prising at least two spaced rotatable thread supporting and propelling elements, means for supporting said elements from one end only thereof, the axes of said elements converging toward the unsupported end, each of said elements including registering cylindrical portions and registering tapering portions, said tapering portions progressively decreasing in diameter toward the unsupported end of the elements, the taper being a curve of progressively decreasing radius, and heating means in the tapered portion of at least one of the elements.

2,319,813

SEPARATION OF POLYNUCLEAR FROM MONONUCLEAR AROMATICS

Aristid V. Grosse, Bronxville, N. Y., and Julian M. Mavity, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application April 29, 1940, Serial No. 332,276
6 Claims. (Cl. 260—674)



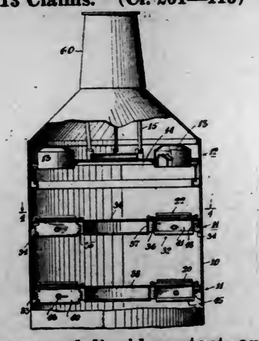
1. A process for separating mononuclear from polynuclear aromatics which comprises subjecting a mixture of said aromatics to solvent extraction with sulfur dioxide in the presence of aliphatic hydrocarbons of low solubility in sulfur dioxide, whereby to concentrate the polynuclear aromatics in the sulfur dioxide extract and leave the mononuclear aromatics in the raffinate, and recovering the polynuclear and mononuclear aromatics from said extract and raffinate respectively.

2,319,814

GAS AND LIQUID CONTACT APPARATUS

Robert R. Harmon, Charlottesville, Va., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York

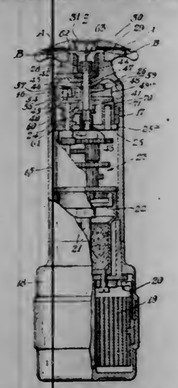
Application July 9, 1941, Serial No. 401,558
13 Claims. (Cl. 261—113)



1. In a gas and liquid contact apparatus, a treating zone comprising a diaphragm containing

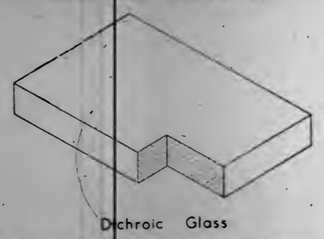
orifices through which the gas to be treated passes at a velocity suited to maintain a blanket of liquid thereon, said diaphragm comprising a plurality of segmental plates, a supply member supplying liquid to an intermediate part of each plate for flowing circumferentially in two directions thereover, and radial members extending along the side edges of and between said plates, said radial members each comprising an overflow duct through which the liquid overflows from the side edges of the two adjacent plates.

2,319,815
RAZOR
Russell P. Harshberger, Chicago, Ill.
Application August 26, 1939, Serial No. 291,998
21 Claims. (Cl. 30—44)



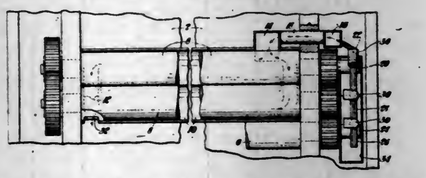
9. In a razor, the combination of a reciprocable cutting element, means for reciprocating said element, guard means, and resilient means interposed between said element and guard and flexible only in the direction of movement of said element.

2,319,816
LIGHT POLARIZER AND PROCESS OF MANUFACTURE
Edwin H. Land, Boston, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application October 29, 1938, Serial No. 237,782
18 Claims. (Cl. 88—65)



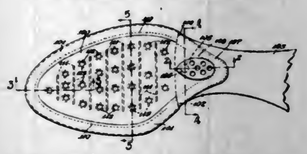
12. A light-polarizing element which differentially absorbs two perpendicular components of an incident beam of light throughout a predetermined wavelength band and which comprises glass having a metallic content, the glass with its metallic content having been extended under stress and at a temperature at which it is stretchable but below its melting point, the polarizing properties of the element deriving essentially from the metallic content of the glass.

2,319,817
METAL COATING MACHINE
William P. Lohrman, New Castle, Pa.
Application August 3, 1940, Serial No. 350,949
1 Claim. (Cl. 91—12.7)



A machine for applying a metal coating to metal sheets and the like, comprising a pot containing a molten metal bath, a pair of rolls horizontally disposed above the level of the molten metal bath, at least one pan extending beneath said rolls, said pan being adapted to contain sufficient molten metal to immerse the lower portion of the periphery of the rolls therein, a driven endless belt extending from beneath the level of the molten metal bath into proximity with respect to said pan, at least one bucket carried by said endless belt and constructed and arranged to transfer molten metal from the bath into said pan, means for maintaining substantially constant the level of molten metal in said pan, and a wall isolating that area of the surface of the molten metal bath through which said bucket operates from the remainder thereof.

2,319,818
RESILIENT INSOLE
Meyer Margolin, Elgin, Ill.
Original application May 8, 1939, Serial No. 272,364. Divided and this application July 8, 1940, Serial No. 344,414
3 Claims. (Cl. 36—3)

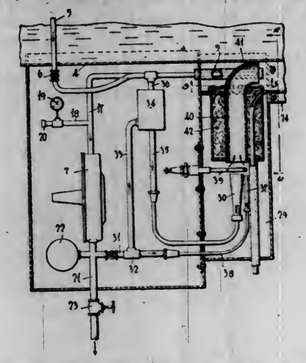


1. A resilient insole comprising in combination an insole section of relatively stiff material, said insole section including the heel, long arch and metatarsal arch area; an opening in said insole section in said metatarsal arch area; a rubber-like forepart portion; a metatarsal arch support formed on said rubber-like forepart portion in the metatarsal arch area; a projection integral with said rubber-like forepart portion, said projection engaging said opening in the metatarsal arch area of said insole section to secure said rubber-like forepart portion to said insole section.

2,319,819
LIQUEFIED GAS VAPORIZER
James Woodward Martin, Dallas, Tex., assignor to Lone Star Gas Company, Dallas, Tex., a corporation of Texas
Application October 4, 1941, Serial No. 413,670
8 Claims. (Cl. 62—1)

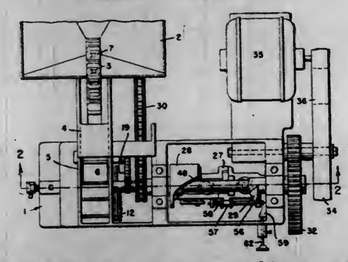
5. In vaporizing means of the type having a storage receptacle for liquefied gas, a heat chamber for use in heating the receptacle, burner means below the heat chamber for supplying heat directly to the heat chamber, means for conducting gas from the receptacle to the burner means,

and a regulator interposed in the gas conducting means, the improvement which comprises a



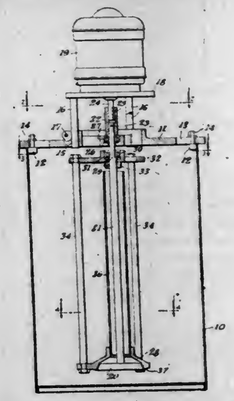
preheater for the gas extending into the heat chamber and interposed in said gas conducting means anterior to said regulator.

2,319,820
NUTCRACKING MACHINE
Leon K. Maulsby and John A. McGrann, San Antonio, Tex.; said McGrann assignor to said Maulsby
Application March 5, 1942, Serial No. 433,412
1 Claim. (Cl. 146—12)



In combination, in a nut cracking machine, a drive shaft, a carriage in parallel alignment with said drive shaft said carriage being mounted for longitudinal movement with relation to said drive shaft, a slide mounted in said carriage for longitudinal movement with relation to said carriage and said drive shaft, resilient means interposed between said carriage and said slide tending to hold said carriage in one direction and said slide in the opposite direction, a cam on said drive shaft governing in combination with said resilient means the longitudinal movement of said slide, a second cam on said drive shaft disposed to engage a roller mounted in said carriage for imparting longitudinal motion to said carriage, locking means between said slide and carriage said locking means consisting of a ring closely fitting the diameter of said slide and with a comparatively narrow axial bearing surface on said slide, an internal enlargement in said carriage for the reception of said ring the internal ends of said enlargement being in perpendicular alignment with the axis of said slide at one end thereof for holding the axis of said ring in alignment with the axis of said slide and the opposite end of said enlargement being provided with a shoulder engageable with one portion only of the periphery of said ring, means normally holding said ring in contact with said perpendicular end of said internal enlargement and securing true alignment of said ring with said slide and means opposed to said shoulder in said internal enlargement for moving that portion of said ring periphery out of engagement with the perpendicular end of said internal housing enlargement and into engagement with said shoulder to produce a mis-alignment between said ring and said slide whereby the action of said shoulder against the periphery of said ring will serve to lock said slide with relation to said carriage upon movement of said carriage.

2,319,821
MIXING DEVICE
William A. McLean, Geneva, N. Y.
Application July 2, 1941, Serial No. 400,754
7 Claims. (Cl. 259—24)



1. A mixer or like device comprising an electric motor, support means for said motor, a mixing element, means connecting said mixing element and said motor for driving the former, a support bearing for said latter means carried by said support means, and means for adjusting the position of said support bearing with respect to said support means.

2,319,822
COMPOSITION FOR IMPROVING THE ABSORBING PROPERTIES OF FABRICS AND THE LIKE
Warren L. Moody and Stanley J. Wagar, Richmond, Va.
No Drawing. Application August 30, 1940, Serial No. 354,908
5 Claims. (Cl. 8—132.5)

4. A textile impregnating solution composed of water, monosodium phosphate and slaked lime, the pH of the solution being not more than 6.8.

2,319,823
MECHANICAL PENCIL
Fred P. Moore, Chicago, Ill., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware
Application May 25, 1942, Serial No. 444,332
19 Claims. (Cl. 120—17)

1. In a mechanical pencil, a lead feeding member comprising a plurality of staves having upper portions associated in complementary relationship to form a tubular magazine for lead sticks and lower portions associated in complementary relationship to form a lead guide tube of smaller

diameter than said magazine and leading from the end thereof, said lower portions having parts



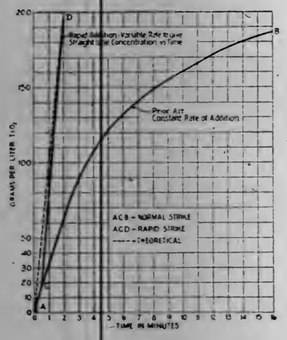
at their lower ends shaped to provide lead-gripping jaws.

2,319,824

TITANIUM OXIDE PRODUCTION

Carl M. Olson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application July 18, 1939, Serial No. 285,133
6 Claims. (Cl. 23—202)



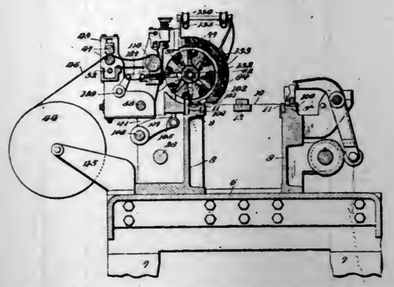
1. A process for nucleating and hydrolyzing titanium salt solutions to obtain a hydrolysate which on calcination yields a TiO_2 pigment of uniformly small particle size, improved hiding power, tinting strength and color, comprising mixing from about 1 to 10% of the total amount of a hot titanium salt solution to be hydrolyzed with a diluent maintained at a temperature ranging from substantially 90 to 100° C., the volume of which is smaller than that of said titanium solution initially and for a period of about 30 seconds effecting admixture of said 1 to 10% volume of titanium solution at a relatively rapid, constant rate, thereafter, without any interruption in the mixing operation adding the remaining portion of said titanium salt solution to said diluent but at a continually progressively increasing rate until on expiration of substantially 2 minutes' time from commencement of the initial liquor and diluent combination, complete admixture of said liquor and diluent becomes effected, and thereafter hydrolyzing the resultant nucleated solution.

2,319,825

METAL CONTAINER SIDE SEAM PACKING STRIP APPLYING APPARATUS

Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application December 27, 1940, Serial No. 371,974
12 Claims. (Cl. 113—7)



1. In apparatus of the character described, blank supporting ways, means for feeding individual rectangular metallic body blanks station-by-station over said ways with a face exposed along substantially the full length of each blank at one extreme lateral margin thereof, a packing strip applying station, and means at said station for forming and picking up a heat fusible adhesive bearing packing strip, translating said strip through a heating zone to render the adhesive tacky, and then pressing said strip against the blank at said station along said substantially full length exposed face portion.

2,319,826

ADHESIVE COMPOSITION

Fred G. Pellett, Alplaus, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application October 10, 1941, Serial No. 414,499
14 Claims. (Cl. 260—42)

1. A heat-hardenable adhesive composition, the resinous component thereof consisting, by weight, of from 10 to 50 per cent of a polyvinyl acetate and from 50 to 90 per cent of a resinous material consisting of the reaction product of 3,6-endomethylene-Δ-4-tetrahydrophthalic anhydride and polyhydric alcohol averaging from 2 to 3 hydroxyl groups per molecule and the reaction product of maleic anhydride and polyhydric alcohol averaging from 3 to 4 hydroxyl groups per molecule, the endomethylene tetrahydrophthalic anhydride reaction product being present in a major amount.

2,319,827

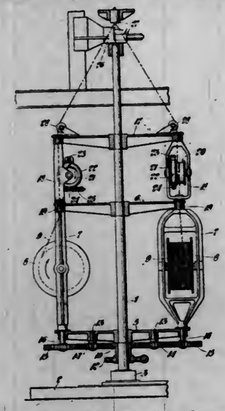
MEANS FOR MANUFACTURING WIRE ROPE AND THE LIKE

Eugene J. Reardon, East Haven, Conn., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application April 11, 1941, Serial No. 388,166
4 Claims. (Cl. 57—65)

1. In a machine of the class described for making rope and the like, a plurality of rotatably arranged cradles with each adapted to hold a coil of strand material, means for laying the strands of material, means for applying tension to each of said strands as the same pass from said cradles to said laying means, including a pair of oppositely disposed rotatable drums arranged

between each of said cradles and said laying means which are adapted to rotate simultaneously with said cradles, and means for retarding the rotation of at least one of said drums, said strand material adapted to pass around both of



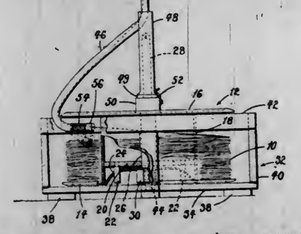
their respective drums so as to place that portion of each of said strands between said drums and said laying means under tension as the strands pass thereto.

2,319,828

WIRE UNCOILING APPARATUS

Charles R. Rohweder, Belmont, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application July 11, 1941, Serial No. 401,945
14 Claims. (Cl. 242—128)



1. A wire uncoiling apparatus comprising a support for a coil of wire, a tubular take-off arm mounted to rotate about an axis substantially central of a coil of wire on the support, said take-off arm having a flexible resilient intake end, whereby said end is adapted to deviate from a circular path around the coil of wire in response to rotation of the take-off arm about said axis in the uncoiling operation.

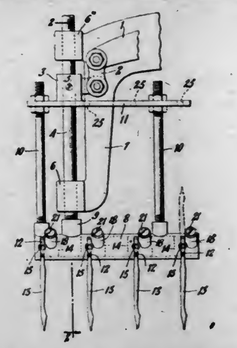
2,319,829

NEEDLE HOLDER

Julian Guy Russell, North Chattanooga, Tenn., assignor, by mesne assignments, to Union Special Machine Company, Chicago, Ill., a corporation of Illinois

Application September 18, 1940, Serial No. 357,270
10 Claims. (Cl. 112—167)

1. A needle holder comprising a cylindrical shell having an aperture therein to receive a needle and in which the needle may move from an operative to an inoperative position, a member rotatably supported in the shell and having an aperture therein to receive and hold said needle,



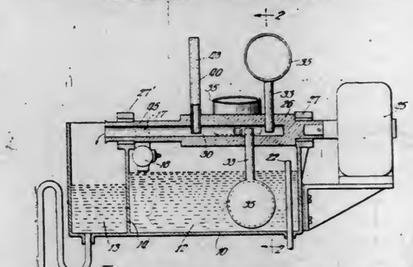
and resilient means for holding said rotatable member to retain said needle in its operative and inoperative positions.

2,319,830

LIQUID METERING DEVICE

Arthur V. Sampsel, Mendota, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

Application August 12, 1939, Serial No. 289,864
18 Claims. (Cl. 221—97)



1. A liquid metering device comprising a hollow shaft, means for rotating said shaft in opposite directions, and feed members mounted on said shaft and communicating with the bore thereof, certain of said feed members being of different capacities and having their intake openings disposed in opposite directions whereby, when said shaft is rotated in opposite directions, different quantities of material will be fed.

2,319,831

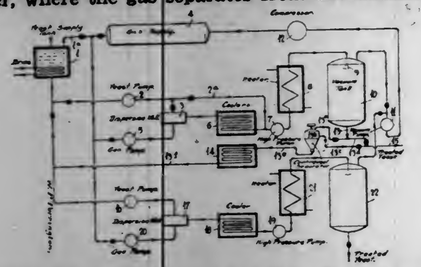
YEAST-TREATING PROCESS

William P. Torrington, New York, N. Y., assignor to Emulsions Process Corporation, New York, N. Y., a corporation of Delaware

Application August 6, 1940, Serial No. 351,610
16 Claims. (Cl. 99—96)

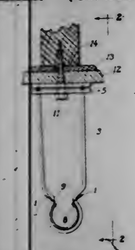
13. A process of treating an aqueous yeast solution comprising mixing said solution with a nutrient and thereby activating the yeast in the solution, dispersing CO_2 in the solution, then increasing the pressure on the solution to about 100 to 150 pounds and cooling the solution to a temperature between about 30° F. to 50° F., afterwards increasing the pressure on the solution to from 1000 to 3000 pounds per square inch and the temperature from about 120° F. to 180° F., then dicharging the solution from the region of high

temperature and pressure into a vacuum chamber, where the gas separates from the solution,



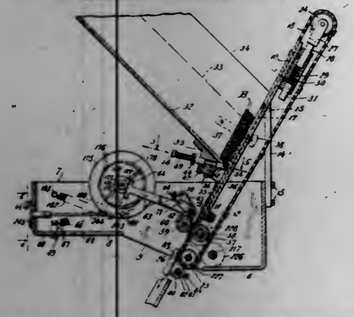
centrifugally separating the treated solution into a supernatant liquid fraction and a residue fraction, and recycling the residue fraction.

2,319,832
PIPE HANGER
Louis L. Trochim, Vallejo, Calif.
Application April 16, 1941, Serial No. 388,807
1 Claim. (Cl. 248—60)



A pipe hanger formed of resilient wire like material bent in the form of a U, the legs of the U being bent inwardly adjacent the pipe, to form a loop having an opening less than a semicircle and adapted to clampingly receive a pipe, the ends of the legs being bent at substantially right angles and pointed to provide means for attaching the hanger to a support.

2,319,833
LEATHER GRADING MACHINE
Constantine T. Troy, Towanda, Pa.
Application April 12, 1940, Serial No. 329,220
47 Claims. (Cl. 209—88)

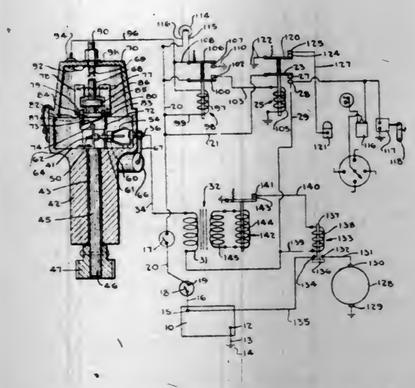


1. Apparatus for grading and sorting leather comprising gauging mechanism adapted to progressively gauge every point along at least a part of the length of the edge of a moving leather blank, and electrically controlled sorting mechanism to sort the gauged blanks in accordance with the measurement of the thinnest spot as determined by the gauging mechanism, said sorting mechanism including relays which are selectively closed as the gauging mechanism responds to the variations in thickness of the blank, an electrical device for each relay adapted to be energized when current passes across the contacts of the relay, the place at which the gauged blank is delivered depending upon which of said electrical devices is energized, and means whereby the only relay which remains closed after actuation is the one which is energized when the gauging mechanism detects the thinnest spot of the blank thereby selecting the corresponding electrical device for energization.

2,319,834
PROCESS FOR TREATING TEXTILES
Roger N. Wallach, Briarcliff Manor, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application December 22, 1939, Serial No. 310,539
9 Claims. (Cl. 26—18.5)

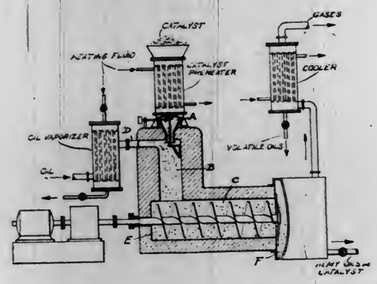
1. A process of treating a fabric containing potentially adhesive fibres, comprising treating the fabric with a solvent which will render said potentially adhesive fibres tacky, shrinking said fabric while said fibres are in a tacky condition and fixing the shrunk structure by rendering the tacky material non-tacky, to effect adhesion between the fibres in the fabric.

2,319,835
AUTOMATIC CONTROLLING SYSTEM FOR ENGINES
William J. Williams, Toledo, Ohio, assignor to Synchro-Start Products, Inc., Toledo, Ohio, a corporation of Ohio
Application May 15, 1941, Serial No. 393,574
20 Claims. (Cl. 290—7)



1. The combination with an internal combustion engine having an electrically operated starter; of a battery; a pulsating current producing medium operated from and in unison with the engine; a circuit normally open leading from the battery to the electrically operated starter; a magnetically controlled switch for the circuit of said electrically operated starter; an energizing coil for moving to closed position the magnetically controlled switch to close the electrically operated starter circuit; a transformer; the primary winding of which is included in the circuit which receives the pulsating current; a control circuit relay coil energized from the secondary of the transformer; a second relay operable to control the instrumentality which maintains said engine in normal operation; manually operable means for establishing a flow of current from the battery through a circuit including the armatures of both relays in series with the energizing coil of the magnetically controlled switch; a pair of normally open contact points controlled by and operated in unison with the current pulsating medium for rendering ineffective the manually established circuit under predetermined conditions.

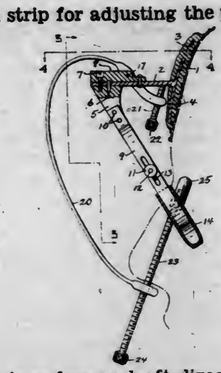
2,319,836
PROCESS OF CATALYTICALLY CRACKING HYDROCARBON OILS
Alfred Woerner, Leuna, Germany, assignor to Standard Catalytic Company, a corporation of Delaware
Application November 1, 1939, Serial No. 302,293
In Germany November 2, 1938
1 Claim. (Cl. 196—52)



The process of catalytically cracking hydrocarbon oils in the vapor phase, which comprises passing hydrocarbon oils of a boiling range from about 250° C. to about 380° C. in vapor form at about 455° C. into contact with a pulverulent cracking catalyst preheated to about 455° C. in a first zone of operation, maintaining the period of contact of the oil vapor and catalyst in said first zone so short that no substantial cracking occurs, passing the catalyst and the oil vapors thus treated into a second zone of operation, maintaining a volume of catalyst in said second zone which is greater than the volume of hydrocarbon vapors present in said second zone, thereby minimizing the deposition of coke on and diminution in activity of the catalyst.

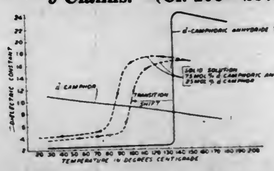
2,319,837
ADJUSTABLE NOSE SPLINT
David R. Womack, United States Navy
Application December 9, 1942, Serial No. 468,414
6 Claims. (Cl. 128—89)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An adjustable nose split comprising a band around the patient's head, a spring strip pivotally connected to said band having a projection on the end thereof extending upwardly into the nasal cavity, means adjusting this projection in or out of said cavity, and means at the upper end of said strip for adjusting the position of the



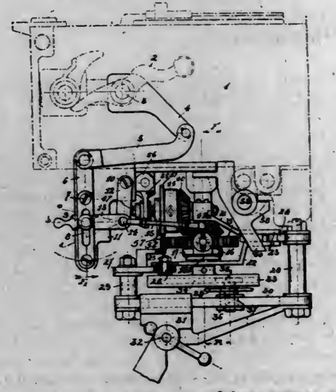
projection in a fore and aft direction as well as laterally.

2,319,838
DIELECTRIC MATERIAL
William A. Yager, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 6, 1938, Serial No. 244,168
9 Claims. (Cl. 106—287)



1. A dielectric element comprising a solid solution of polar compounds, each of which possesses molecular rotation in the solid state as evidenced by a dielectric constant considerably higher than the square of the optical refractive index of the substance.

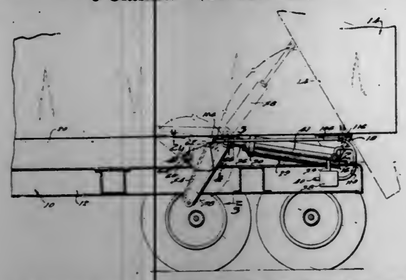
2,319,839
RECOIL-OPERATED MACHINE GUN FIRE CONTROL MECHANISM
Stephan Yanovsky, Brussels, Belgium; vested in the Alien Property Custodian
Application January 13, 1940, Serial No. 313,670
In Belgium January 21, 1939
9 Claims. (Cl. 89—41)



1. Control means for machine guns and the

like, comprising a gun mounted on a support for angular movement relative to the support, a reciprocatable member actuated by the recoil of the gun, a crank mounted for rotation and connecting the gun and support to effect angular oscillation of the gun relative to the support as the crank rotates, and an operating coupling between the reciprocatable member and the crank to cause rotation of the crank.

2,319,840
COMPOUND HOIST
Edward R. Barrett, Detroit, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application January 9, 1941, Serial No. 373,763
9 Claims. (Cl. 298—22)



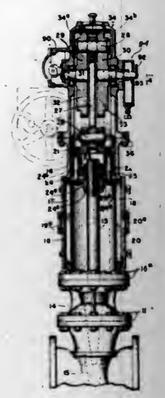
1. Apparatus for tilting the body of a dump truck comprising, in combination, a truck chassis, a tiltable body, means pivotally connecting said body to said chassis, a hoisting device for tilting said body and having one end pivotally connected to said chassis and including an extensible power driven element, and means connecting said element with said body, said means including a transversely rigid, elongated and longitudinally extensible power element, and means for extending said power driven element to tilt said body and thereafter extending the length of said extensible power element to further tilt said body.

2,319,841
BRUSH
J. Warren Bate, Rockford, Ill.
Application May 13, 1942, Serial No. 442,819
4 Claims. (Cl. 15—206)



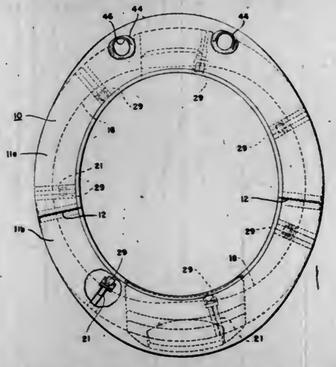
1. A brush as herein described, comprising a single continuous wire bent upon itself to provide an elongated core adapted to hold bristles therein adjacent the bend, bristles for said brush, the core being twisted to retain the bristles and form a brush head portion in which the bristles project radially from the core, the aforesaid bend forming a smooth finished tip on the end of the brush head portion, the core being twisted further to form a handle shank portion, one of the end portions of said wire terminating at the outer end of the twisted handle shank, the other end portion of said wire extending from the outer end of said shank and being formed to define a loop and extending back to said shank, said loop lying substantially in the longitudinal plane of the core and being of a diameter to freely receive a human finger for manual operation of the brush, said other end portion of said wire also defining a crotch portion connecting the finger receiving loop with the outer end of said shank and spacing the loop proper from the outer end of said shank, the free end of said other end portion being wound tightly around the outer end portion of said shank in a direction away from the loop toward the brush head portion, said first end portion being enclosed in said crotch portion and terminating so that the extremity is spaced in relation to a finger disposed in said loop for manual operation of the brush.

2,319,842
VALVE CONTROL
Ronald C. Benson, Merchantville, and William F. Plume, Audubon, N. J., assignors to Philadelphia Gear Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application September 10, 1942, Serial No. 457,814
7 Claims. (Cl. 74—52)



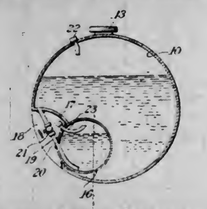
1. A gear drive construction for operation optionally by hand or power, comprising a power-driven primary shaft, means for optionally either driving the shaft or else causing it to remain non-rotating, a secondary shaft co-axial with said primary shaft, a planetary gear device operatively interconnecting the adjoining end portions of said primary and said secondary shafts, which planetary gear device comprises an internal gear member fixed on said secondary shaft, a sun gear member fixed on said primary shaft, a housing in which said primary and said secondary shafts are rotatably mounted, a rotatable cage member disposed co-axial with said shafts and intermediate adjoining end portions thereof, which cage member surrounds the adjacent end portions of the primary shaft, and which member is in turn surrounded by said internal gear member, at least one planetary gear rotatably mounted on said cage member and meshing with said sun gear as well as with said internal gear member, a journal bearing disposed internally of said internal gear for supporting one end of the cage member, an intermediate journal bearing mounted in a portion of said housing to support the opposite end of said cage member, a bearing disposed internally of said cage member for rotatably supporting the adjacent end portion of said primary shaft, and means for optionally either manually rotating said cage member or else causing it to remain non-rotating.

2,319,843
ENGINE COWLING SUPPORT
Donovan R. Berlin, Eggertsville, and William O. Watson, Kenmore, N. Y., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application June 14, 1939, Serial No. 279,070
6 Claims. (Cl. 123—171)



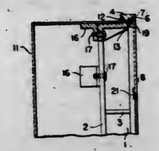
1. In aircraft having an engine including front and rear rows of radially disposed cylinders, the combination with a cowl surrounding said cylinders subjected to axial and radial forces with respect to its longitudinal axis, of a cowl support structure including supporting means carried by certain of the said front engine cylinders comprising forwardly and outwardly opening bifurcated portions having resilient elements on the inner faces and fabric elements on the fore and aft faces of said portions, bearing means associated with said cowl adapted to engage said supporting elements, support members associated with said rear row of cylinders pivotally attached to a trailing portion of said cowl, whereby the said cowl is resiliently secured to and around said engine, and axial and radial displacements of said cowl relative to said engine is resiliently restrained.

2,319,844
FUEL CONTAINER
Henry A. Black, Santa Barbara, Calif.
Application May 14, 1941, Serial No. 393,453
1 Claim. (Cl. 158—46.5)



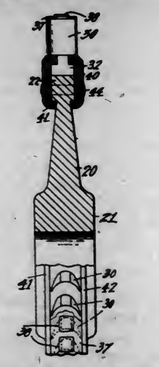
In a container of the character described, an elongated cylindrical main tank adapted to contain fluid and forming the service chamber of the container, the said tank having a relatively small portion of its circumferential wall depressed to form an arcuate concavity therein, an elongated cylindrical reserve tank of relatively small diameter mounted longitudinally within the main tank and parallel with the axis of the latter, an intermediate portion of the circumferential wall of the reserve tank merging into and protruding from the arcuate wall of the concavity, a conduit extending through the concavity transversely of the axis of the main tank and opening into the respective main and reserve tanks to provide communication therebetween, and a control valve mounted at the intermediate portion of the said conduit, the said conduit and valve being disposed wholly within the concavity and within the circumferential contour of the main tank with the said valve being manually operable from the exterior of the main tank for controlling the passage of fluid from one of the said tanks to the other.

2,319,845
INSTRUMENT CASING
John A. Caldwell, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 15, 1941, Serial No. 374,467
7 Claims. (Cl. 73—151)



1. An instrument casing comprising a rigid supporting frame the shape of the casing, said frame having an outwardly extending flange around it, a formed sheet metal member forming the walls of the casing and having an outwardly extending flange at its edge, said member adapted to be received telescopically by said frame with the outwardly extending flanges adjacent each other, a gasket between said flanges and means to draw said frame and said member together whereby said gasket will be compressed between the flanges.

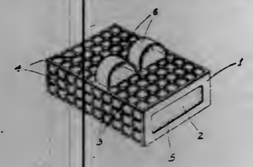
2,319,846
TURBINE ROTOR
Axel W. Carlson, Worcester, Mass., assignor to Carling Turbine Blower Co., Worcester, Mass., a corporation of Massachusetts
Application February 1, 1941, Serial No. 377,039
3 Claims. (Cl. 253—77)



1. A two-stage turbine rotor comprising a pair of rotor frame members each having a rim portion with spaced peripheral slots therein, a center separator ring positioned between the rim portions of said rotor frame members, a plurality of blades mounted in said slots in said frame members, a recessed clamping ring secured to the outside of each frame member and engaging the blades in said member and holding each blade

from radial or transverse displacement therein, and means to detachably secure said clamping rings, said frame members and said center separator ring together.

2,319,847
NONSLIP HOLDER FOR CAKE SOAP
Earl S. Clanton, Fresno, Calif.
Application September 27, 1941, Serial No. 412,666
1 Claim. (Cl. 45—28)



A nonslip holder for cake soap comprising an openwork cage of flexible and resilient material of a size and configuration to snugly and symmetrically surround a cake of soap when new, the cage having an opening in one end of a normal size somewhat smaller than the cross-sectional area of such cake of soap, and a finger engaging loop on the cage extending lengthwise thereof and in such position relative to said one end of the cage as to enable the palm of the hand, one of whose fingers is engaged with the loop, to close the cage opening and prevent possible escape of the soap therethrough when the soap cake is diminished in size from use.

2,319,848
PROCESS FOR PREPARING BRANCHED-CHAIN ALIPHATIC SECONDARY AMINES
Jared W. Clark, Charleston, W. Va., and Alexander L. Wilson, Pittsburgh, Pa., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Original application June 30, 1937, Serial No. 151,172. Divided and this application October 11, 1939, Serial No. 298,916
4 Claims. (Cl. 260—566)

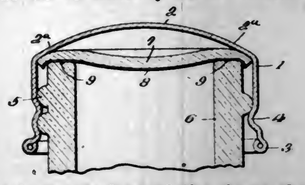
1. A process for preparing unsaturated acyclic imines having the characteristic group

$$-CH{=}N-CH{=}C-$$
$$\qquad\qquad\quad |$$

which comprises mixing ammonia with an alpha branched-chain saturated aliphatic aldehyde having at least 5 carbon atoms, causing the aldehyde to react with the ammonia with the production of two mols of water per mol of ammonia reacted by maintaining the reaction mixture in the liquid state under non-hydrogenating conditions for a period of several hours, and separating an unsaturated acyclic imine from the reaction mixture.

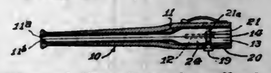
2,319,849
CLOSURE FOR JARS AND THE LIKE
Lindsay Thorne Crabbe, Chicago, Ill., assignor to Phoenix Metal Cap Co. Inc., Chicago, Ill., a corporation of New York
Application February 15, 1941, Serial No. 379,141
1 Claim. (Cl. 215—43)

A closure for containers comprising a cap having a depending skirt adapted to be secured to the container and including a substantially rigid top portion, the inner diameter of the skirt portion of the cap being greater than the outer diameter of the sealing lip of the container, a sealing disk disposed within the cap and extending across the mouth of the container and contacting with the depending skirt of the cap so that said sealing disk overlies and extends beyond the sealing lip of the container, said top portion of the cap being domed outwardly from the top of the skirt at one side thereof to the other so as to contact with the said sealing disk only directly over the outer edge of the sealing lip, said sealing disk being preformed so as to initially curve inwardly away



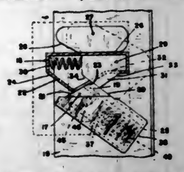
from the inner surface of the dome-shaped top and into contact with the entire sealing surface of the sealing lip, said sealing disk being adapted to flex outwardly under excessive internal gas pressure and move out of contact with the inner surface of the sealing lip of the container so as to reduce the sealing area between the disk and the sealing lip to substantially line contact at the outer edge of the sealing lip.

2,319,850
CIGARETTE HOLDER
Jack Datsko, Los Angeles, Calif.
Application December 16, 1941, Serial No. 423,143
5 Claims. (Cl. 131—182)



4. A holder of the class described comprising an outer tube adapted to act as a smoke conduit and forming an integral mouthpiece at its inner end, and having an open slot extending inwardly from its outer end, a longitudinally hinged inner tube adapted to fit within said outer shell and to grasp and hold a cigarette in its outer end, said inner tube normally overlying the entire inner surface of said outer tube from end to end thereof, and means connected to said inner tube and extending through said slot in said outer tube whereby said inner tube can be pushed completely out of said outer tube.

2,319,851
LATCH MECHANISM
William C. Devereaux, Detroit, Mich.
Original application January 23, 1939, Serial No. 252,478. Divided and this application July 14, 1941, Serial No. 402,339
5 Claims. (Cl. 292—340)

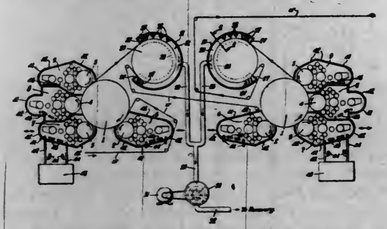


1. A keeper for a door latch having a latch bolt mounted on the swinging edge of a door, said keeper comprising a housing adapted to be mounted on supporting structure adjacent the swinging edge of the door and having opposed walls, one wall extending substantially parallel to the direction of swinging movement of the swinging edge of the door and the opposite wall having an inclined bolt retracting surface engageable with the latching end of the bolt to retract the latter, a safety catch mounted in the housing for sliding movement along the said one wall of the housing and having a portion projecting through the inclined bolt retracting surface of the keeper, said projecting portion adapted to be engaged by the bolt as the door is swung toward its closed position to thereby move the safety catch in a direction toward the inboard side of the supporting structure and being releasable from engagement with the bolt when the closure is in its partially closed position, and means effective upon release of the safety catch by the bolt to return said safety catch to a position wherein the projecting portion aforesaid thereof extends beyond the inclined bolt retracting surface and forms an abutment engageable with the outboard side of the latching end of the bolt to latch the closure in a partially closed position.

2,319,852
COATING COMPOSITION
Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application February 2, 1939, Serial No. 254,227
12 Claims. (Cl. 260—32)

6. Process for making a coating composition which comprises dissolving a conjoint polymer of a vinyl halide with a vinyl ester of an aliphatic acid at an elevated temperature in a water-immiscible, organic liquid composition which is a solvent for said vinyl resin at elevated temperatures below its boiling point and which has no greater solvent action for said resin at ordinary temperatures than a partial solvent, the amounts of said vinyl resin and said organic liquid composition being so proportioned that the combination thereof is fluid at said elevated temperatures and substantially immobile at said ordinary temperatures; and thereafter emulsifying the hot solution of the vinyl resin in water containing an emulsifying agent and forming an emulsion in which said solution is the disperse phase; cooling the emulsion and causing the disperse phase to gel without coalescence, and forming a stable suspension in water of particles of a gel which is immobile on mechanical agitation and which is composed of said vinyl resin colloidally combined with said organic liquid composition.

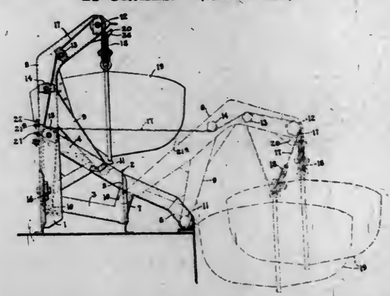
2,319,853
PRINTING METHOD AND MEANS
Hobart N. Durham, Manhasset, N. Y., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application May 10, 1939, Serial No. 272,822
10 Claims. (Cl. 101—416)



1. The method which comprises printing on a surface with an ink including a non-volatile color and a highly volatile solvent, and introducing said freshly printed surface into a lower pressure zone at a temperature below the boiling point at normal atmospheric pressure of the ink solvent, the pressure in said zone being sufficiently below the vapor pressure of said solvent to effect ebullition of the ink solvent.

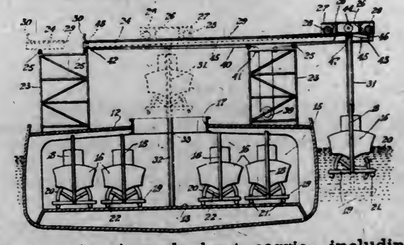
5. A printing press including in combination a printing couple, inking means therefor, means for presenting an impression receiving medium to the printing couple to be imprinted thereby, a chamber and means for maintaining a partial atmospheric vacuum within the chamber of lower pressure than the vapor pressure of the ink solvent at the temperature of drying, and means for presenting a surface imprinted upon by said printing couple within the chamber and subject to the reduced atmospheric pressure therewithin to effect ebullition of a volatile solvent from the ink.

2,319,854
GRAVITY DAVIT
William E. Elling, Metuchen, N. J.
Application June 12, 1942, Serial No. 446,767
15 Claims. (Cl. 9—22)



3. In a gravity davit an upper trackway sloping downwardly in outboard direction, a second trackway below said upper trackway, a davit arm supported by outboard rollers adapted to travel along said upper trackway and by inboard rollers adapted to travel along said lower trackway, said trackways being so shaped and positioned relative to each other as to cause said davit arm to move in outboard direction in substantially upright position and to swing outwardly into a materially inclined position after completion of its outboard movement along said trackways.

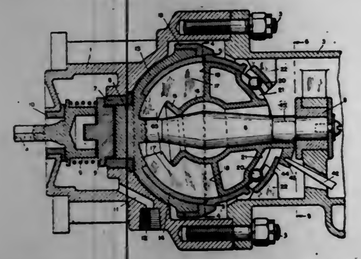
2,319,855
CARRIER AND SYSTEM FOR LAUNCHING MOTOR TORPEDO BOATS
Carl T. Forsberg, New York, N. Y.
Application April 16, 1941, Serial No. 388,740
2 Claims. (Cl. 114—43.5)



2. A motor torpedo boat carrier including a ship having upper and lower decks, a compart-

ment between the decks for stowing motor torpedo boats, a hatch in the upper deck communicating with said compartment, a movable cradle in said compartment for supporting a torpedo boat, vertical guide rails, U-shaped in cross section, in said compartment, adjacent and supported by said hatch, upstanding arms on said cradle having beaded portions adapted to interlock with said guide rails for guiding the vertical movement of said cradle, a travelling carriage on the upper deck for carrying said cradle across the upper deck, depending guide rails, C-shaped in cross section, carried by said carriage and adapted to align with the guide rails in said compartment for coacting with the beaded portions of the arms on said cradle.

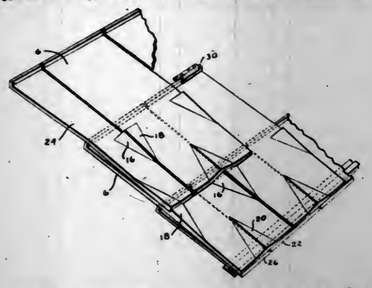
2,319,856
ROTARY PUMP
Elbert Fowler, East Cleveland, Ohio, assignor of one-half to Helen Eaton Brennan, Cleveland, Ohio
Application December 1, 1939, Serial No. 307,101
9 Claims. (Cl. 103—120)



1. In a rotary pump, a rotor, a stator, said stator and rotor having annular end surfaces axially spaced from and facing each other, a plurality of vanes carried by and axially movable with respect to said rotor, means maintaining said vanes in engagement with said stator surface, adjacent pairs of said vanes cooperating with said surfaces to define expansible pumping chambers therebetween, each of said vanes cooperating to define a pump chamber of different volume from one of the pump chambers defined by a next adjacent vane, said stator surface having diametrically opposed camming surfaces adapted to impart axial movement to said vanes upon movement of said vanes thereover, a fluid inlet port in one of said camming surfaces and a fluid discharge port in the other of said camming surfaces, and intermediate surfaces spacing said camming surfaces from each other, said intermediate surfaces being so formed to define the outer and inner limits of axial movement of said vanes, and means for varying the inclination of said stator with respect to the axis of rotation of said rotor to vary the rate of discharge of said pump.

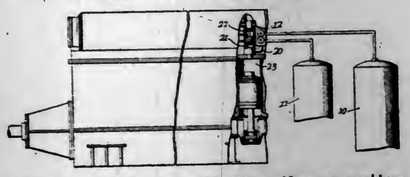
2,319,857
ROOF AND ROOFING MATERIAL
David E. Gray, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application August 23, 1940, Serial No. 353,937
2 Claims. (Cl. 108—10)

1. In a roof structure successive courses of roofing tile with the line of juncture of the respective tiles of one course staggered with respect to those of the succeeding course and the respective tiles of each course having embossed inverted right angled triangular surface portions with their altitudes located along the lateral edges of the tiles in registry with one another, and at least



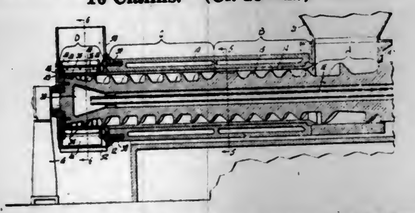
certain of the tiles of certain courses also each having an embossed triangular surface portion having its base arranged in register with the bases of adjoining embossed portions of tiles in a course immediately below it.

2,319,858
METHOD AND MEANS FOR CONTROLLING COMBUSTION ENGINES
Harlow B. Grow, Freeport, N. Y.
Application February 24, 1941, Serial No. 380,094
20 Claims. (Cl. 123—106)



1. The method of controlling the operation of compression-ignition type internal combustion engines consisting of varying the combustibility, and therefore the effective power of solid fuel charges introduced into the engine without changing their volume, but by changing the potency of such solid fuel charges.

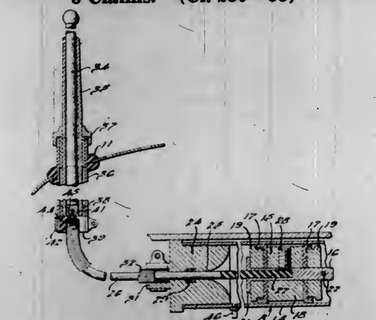
2,319,859
PROCESS AND APPARATUS FOR THE PREPARATION OF RUBBER COMPOUNDS
Andrew Hale, Akron, Ohio
Application March 6, 1941, Serial No. 381,946
16 Claims. (Cl. 18—12)



1. The process of preparing compounded rubber comprising flowing crude rubber in pellet form and a compounding ingredient in separate measured streams toward each other to form a combined stream, propelling the materials of the combined stream and mixing and kneading the same continuously while in motion to thoroughly disperse the compounding ingredient in the rubber, and after the rubber and compounding ingredient have been mixed together subdividing the moving mass into pellet form.

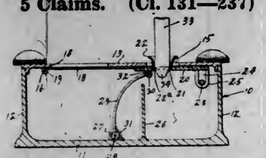
8. In an apparatus for compounding rubber, conveyors for supplying continuously moving streams of rubber in pellet form and compounding ingredient, means associated with said conveyors for regulating the rubber and ingredient so that they are delivered at constant volumes, a continuously rotating screw to which said streams are delivered, said screw having a mixing and kneading section and a discharge section, a head surrounding the discharge section, said head being provided with a plurality of apertures, a cutter movable over the surface of the head and means for distributing a non-adhesive agent over the entire area of the head.

2,319,860
RADIO AERIAL
William Edward Hann, Detroit, Mich.
Application December 30, 1940, Serial No. 372,230
8 Claims. (Cl. 250—33)



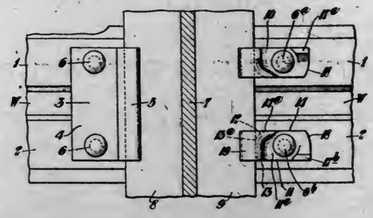
1. In an extensible aerial, an insulated antenna comprising a plurality of telescoping sections, a cylinder, a piston slidable in said cylinder, and a flexible shaft of dielectric material connecting said piston to said antenna, whereby differential pressures on opposite sides of said piston will move said piston and thereby actuate said antenna.

2,319,861
CIGARETTE EXTINGUISHER AND ASH TRAY
Hoke Monroe Hawkins, Los Alamos, Calif., assignor of one-third to George M. Scott, one-tenth to Dante Acquistapace, both of Santa Maria, Calif., and five per cent to Suzanne E. Careaga, Los Alamos, Calif.
Application July 29, 1941, Serial No. 404,449
5 Claims. (Cl. 131—237)



1. In a cigarette extinguisher the combination of a casing, a plate mounted in said casing and adapted to be pivoted downwardly, an open mouth in said plate for receiving the lighted end of a cigarette, a pair of arms pivotally mounted in said casing, a roller carried by said arms, spring means yieldably urging said roller into contact with said plate, said roller being adapted upon downward movement of said plate to move across said mouth to sever the lighted coal from said cigarette.

2,319,862
ROTARY STEEL RAIL BASE STOP CLIP
Eugene H. Heald, Jr., Bellevue, Pa.
Application January 29, 1941, Serial No. 376,545
7 Claims. (Cl. 238—341)

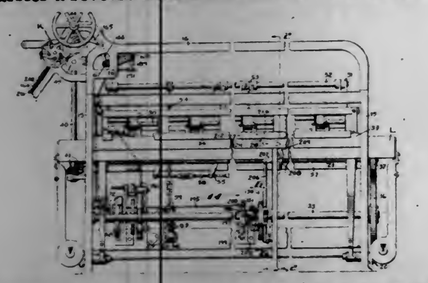


1. A forged rotary clip adapted to be pivotally fixed on a rail tie and to be swung thereon, for locking engagement with the rail base flange, said rotary clip including a body portion adapted to lie on the rail tie, pivotal means of rotation for said clip disposed centrally of the body portion, said body portion having an end portion adapted to engage the side edge of the rail base flange to restrain the rail against sidewise movement, the end portion of the clip in engagement with the rail extending from one side of the clip body as a straight line along a line tangent to an arc whose radius extends to the axis of rotation of said clip said tangent line extending to a point beyond said arc and continuing in an arc whose center is eccentric to the axis of rotation of the clip and merging into the other side of said clip body, the end of said eccentric arc terminating within an area circumscribed by the arc whose radius extends to the axis of rotation, whereby an eccentric wedging and locking portion is formed in the same plane as the body portion of the clip to impose sufficient restraint to prevent accidental rotation or misplacement of said clip but not to impose sufficient restraint to prevent rotation of the clip upon application of sudden force or hammer blow at opposite end of clip to apply or remove the clip from holding position with the rail, and an angularly disposed lip adapted to overlie and engage the base flange of the rail extending outwardly and upwardly from the top face of the body portion above and overhanging the end of the clip, the entire base portion of the lip joining with and extending from the upper face of the body portion of the clip as a continuous uninterrupted connection throughout the width of the body portion of the clip.

2,319,863
LOOM FOR WEAVING LADDER TAPE
Elbridge R. Holmes, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application June 2, 1941, Serial No. 396,274
16 Claims. (Cl. 139—22)

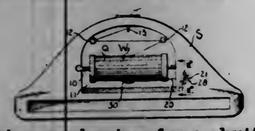
1. In a loom for weaving a plurality of Venetian tapes each having spaced webs between which extend crossing warps which are crossed from one web to the other at regular intervals, a lay reciprocating backwardly and forwardly, a plurality of crossing warp advancing hooks, one for each tape, a common carrier for all the hooks extending substantially parallel to and in front of the lay, means to lock the carrier in forward idle position, normally inactive operating means including a part on the carrier and a part on the lay, said parts to be connected by relative lateral movement, means to move the carrier laterally with respect to the tapes to unlock said carrier

and cause engagement of said parts when the lay is in forward position, the lay thereafter during rearward movement thereof moving the carrier and hooks backwardly, and means to give the carrier a reverse lateral motion when the lay is in



rearward position to locate the hooks behind the crossing warps, said parts thereafter effective during forward motion of the lay to move the carrier and hooks forwardly and return the carrier to locked idle position.

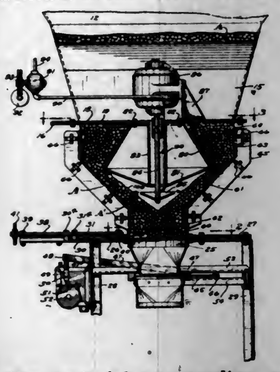
2,319,864
TENSION FOR SHUTTLES
Elbridge R. Holmes, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application November 26, 1942, Serial No. 466,986
8 Claims. (Cl. 139—200)



1. In tension mechanism for a shuttle having a weft quill and a carrier arm mounted on the shuttle and tending to move toward the quill, a tension pad for the guide comprising a plate having a smooth uninterrupted surface to engage the weft on the quill, a lip depending from one side of the plate and located at one side of the carrier arm, and a foot depending from another side of the plate and located on the opposite side of the carrier arm, said foot having a recess concave toward the plate to receive the carrier arm and extending in a direction toward and from the lip, said foot and lip cooperating to limit lateral movement of the pad relatively to the carrier arm and said foot and plate cooperating to limit vertical movement of the pad relatively to the carrier arm.

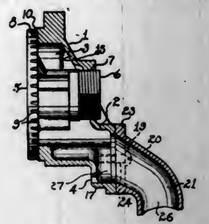
2,319,865
DEVICE FOR SPRAYING LOOSE MATERIAL
Thomas R. James, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application August 3, 1940, Serial No. 350,929
3 Claims. (Cl. 91—44)

1. In apparatus for coating loose material, a passage for the material, one wall of the passage being a downwardly converving cone, a downwardly diverging cone above the first-mentioned cone and spaced therefrom to provide a hollow conical space, the converging cone terminating in a passage substantially smaller than the widest part of the cone, valve means beneath said passage for supporting the material and for controlling its flow so as to provide a solid mass thereabove, and means in the hollow conical space for



spraying the material surrounding said space with a liquid.

2,319,866
GAS RANGE BURNER
Lawrence Jaros, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio
Application June 6, 1939, Serial No. 277,717
1 Claim. (Cl. 158—116)

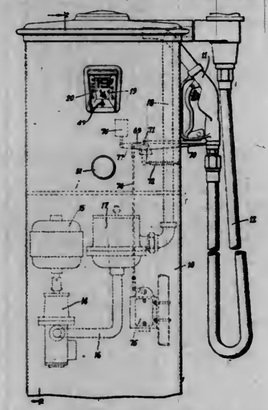


A gas burner comprising an outer body member formed with a substantially cup-shaped expansion chamber and having a rim portion, a burner head member mounted in said body member and having an outwardly flared upper end forming the top of said expansion chamber, radially disposed spaced burner ports between said rim and said flared upper end, said body member having a depending hollow extension, said extension formed with a hollow offset positioned at one side of said body member, said hollow extension and said offset communicating with said cup-shaped expansion chamber, said expansion chamber having an upwardly and outwardly slanting substantially flat bottom wall extending from said hollow offset on one side of said body member to the other side thereof, whereby said expansion chamber is gradually and uniformly restricted in size in all directions leading from a point adjacent said depending extension and even and uniform static pressure is thus attained at all ports, said depending extension having a gas inlet.

2,319,867
FLUID DISPENSING DEVICE
Bjornulf Johnsen, Summit, N. J.
Application August 11, 1938, Serial No. 224,310
3 Claims. (Cl. 221—95)

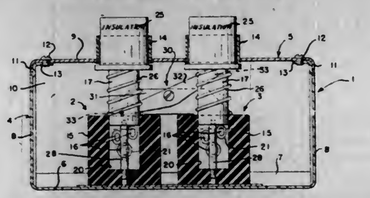
1. In a fluid dispensing apparatus having a casing formed with a window and having a shaft rotated by a meter through which fluid is forced

by a motor driven pump to a nozzle carried by a movable support in inoperative position, in combination, a light source, means carried by the meter rotated shaft and bearing indicia, said means and said indicia being of relatively different light transmitting properties, a screen operatively disposed with respect to the window and to receive the image of indicia on the transparent



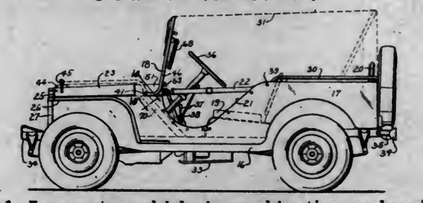
means formed by the light source, a motor circuit comprising a switch closed by the nozzle support when in operative position and a relay and a holding circuit in parallel with said motor circuit comprising the light source and the relay whereby should the light source become inoperative the holding circuit is interrupted and the relay de-energized to open the motor circuit and prevent delivery of fluid to the nozzle.

2,319,868
CONTROL UNIT
Frederick Killaire, Windsor, Ontario, Canada, assignor to Northern Engineering Works, Detroit, Mich., a corporation of Michigan
Application February 24, 1941, Serial No. 380,406
5 Claims. (Cl. 200—16)



1. In a progressive control unit, an insulator body having a recess, contact members carried by said body and extending into the recess at different zones longitudinally and angularly of the recess, a hollow plunger contact member movable longitudinally within the recess progressively into engagement with said first mentioned contact members, said plunger contact member having a transverse wall at its lower end, an insulator cap upon the outer end of said plunger contact member, a coil spring encircling said plunger contact member and abutting said body and cap for normally urging said plunger contact member to its outermost position, and a retaining screw threaded into the bottom of the recess and having a head extending within said plunger contact member for limiting the outward movement of said plunger contact member.

2,319,869
WINDSHIELD
Clarence F. Kramer, Birmingham, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application May 10, 1941, Serial No. 392,832
5 Claims. (Cl. 296—84)



1. In a motor vehicle, in combination, a chassis, a body, pivot pins on said body, struts leading between said pivot pins and said chassis, a windshield supporting frame pivoted on said pivot pins, a bearing on said body spaced rearwardly and above said pivot pins and a complementary bearing surface on said windshield frame.

2,319,870
BOAT BAILER
Sigrid T. Larsen, Minneapolis, Minn.
Application August 15, 1941, Serial No. 407,078
1 Claim. (Cl. 294—55)



A boat bailer comprising a unitary structure embodying an elongated body portion formed with a bottom flatly curved on the outside along the central portion and having a progressively increasing transverse inside curvature from toward the point to toward the handle portion thereof with the inside thereof continuously curved both longitudinally and transversely, the bottom wall being progressively thickened from the front thereof to the handle portion, a handle in the longitudinal center of said body portion continuing from the thickened part thereof, the front end being curved upwardly and the rear part being more broadly curved to continue into the handle, and the outside bottom along its longitudinal center extending from said upwardly curved front end to the upwardly curved and thickened rear part in a substantially straight line.

2,319,871
ERASER GUARD
Charles J. Leonard, Chicago, Ill., assignor to The M. B. Cook Company, Chicago, Ill., a corporation of Illinois
Application November 14, 1941, Serial No. 419,117
6 Claims. (Cl. 120—41)



1. A sheet protector of the kind described consisting of a body part of suitable thin flexible material of a length and width to overlie a reasonably substantial portion of an imprint on a

second or carbon copy sheet and underlie a like portion of the print on an original sheet superimposed over the carbon copy sheet and interposed sheet of carbon paper, said body part provided with a handle portion disposed substantially in the same plane and projecting from one end and offset with respect to said body part, said handle portion of less width than the body of the sheet and relatively stiffer.

2,319,872

RECEPTACLE FOR EMPTY BOTTLES

Ralph N. Leonard, Crystal Lake, Ill., assignor to Dispenser Corporation of America, Chicago, Ill., a corporation of Illinois

Application August 19, 1940, Serial No. 353,235

7 Claims. (Cl. 220—93)



1. An accessory for the purpose described comprising a square tray having shallow sides and a perforate bottom, posts carried by the tray at the respective corners and extending downwardly from near the top of the tray for a considerable distance below the bottom of the tray, tension springs disposed in the corners along the respective posts with the lower ends of the springs anchored to the lower ends of the posts, and hooks on the upper ends of the springs for anchoring over the respective top corners of a vertically elongated square can, whereby to support the tray horizontally within the can for downward and upward movement therein, the springs, under the weight of the empty tray, being of a length in the order of the length of the posts and the springs being of such characteristic that as empty bottles are accumulated in a pile resting upon the tray, the tray will descend distances corresponding to the height of the pile, whereby the height of the pile remains at a fairly constant level near the top of the can during the lowering of the tray.

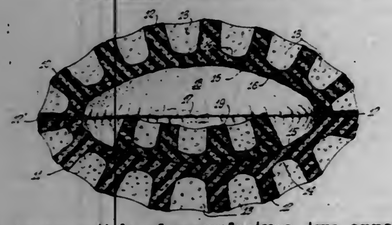
2,319,873

RESILIENT BODY

William W. Linz, Chicago, Ill.

Application October 13, 1941, Serial No. 414,822

3 Claims. (Cl. 15—244)



1. As an article of manufacture, two opposed layers of elastic material each comprising a thickness of latex rubber devoid of filler and sufficiently porous to afford facile passage of liquid and having a plurality of spaced cavities formed on its outer surface leaving a thin wall of such latex rubber at its inner surface, said layers of elastic material having their edges adhesively secured together and folded upon each other with their inner surfaces compressed and their outer surfaces tensioned to provide a self-expanding inner chamber, and a stabilizer means within the inner chamber and adhesively secured to the inner wall of one of said layers for preventing total collapse of the inner chamber.

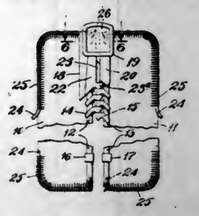
2,319,874

TAPE CONSTRUCTION FOR SEPARABLE FASTENERS

Davis Marinsky, Bronx, N. Y., assignor, by mesne assignments, of one-half to said Davis Marinsky and one-half to Louis H. Morin, Bronx, N. Y.

Application September 9, 1941, Serial No. 410,124

12 Claims. (Cl. 24—205)



10. In separable fasteners employing pin and box couplings for detachably connecting the fastener stringers at one end thereof, the pin part being arranged along one side edge of one stringer and the box part along the edge of the companion stringer, the tapes of the stringers terminating in alinement with the couplings at said end thereof, means for reinforcing the end edges and other side edges of the stringer tapes at said coupling ends thereof, said reinforcing means of each stringer comprising a non-extensible strand arranged along said tape edges, a stitching at said tape edges retaining the strand in position thereon, one end of the strand being secured to said coupling, and said stitching retaining the last named end of the strand in position on the first named edge of the stringer tape.

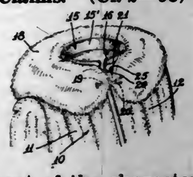
2,319,875

GARMENT WITH DETACHABLE NECKPIECE

David Michel, Chicago, Ill., assignor to Rothmoor Corporation, Chicago, Ill., a corporation of Illinois

Application January 22, 1942, Serial No. 427,681

2 Claims. (Cl. 2—98)



1. In a garment of the character described, a body portion, a neck band provided on the upper edge of said body portion and including a cloth member doubled upon itself and forming inner and outer faces of said neck band, the outer face being substantially divided in two by a circumferential row of stitching, forming upper and lower portions, the lower portion being doubled upon itself and thereby forming a free edge whereby same comprises a downwardly depending flap, a portion of a slidable fastening device attached to said garment beneath said flap and concealed thereby and a neck piece having the second portion of said slidable fastening device attached thereto and adapted for cooperation with said first portion whereby said neck piece may be secured to said garment about the neck band thereof.

2,319,876

PREPARATION OF AROMATIC SULPHONAMIDE - PHENOL - DIHALIDE REACTION PRODUCTS

William Henry Moss, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application November 23, 1938, Serial No. 242,024. In Great Britain December 4, 1937

10 Claims. (Cl. 260—61)

1. Process for the production of new chemical compounds which comprises reacting together an aromatic sulphonamide, a compound containing at least two halogen atoms attached to different carbon atoms of alkylene groups, and a phenol.

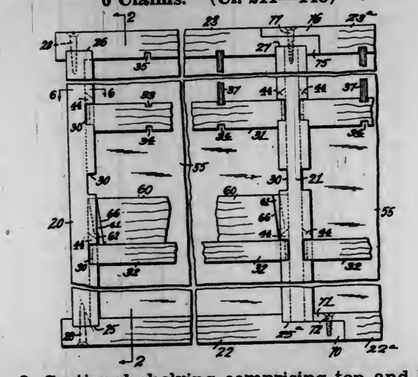
2,319,877

SECTIONAL SHELVING

Hadwen C. Perry, Hyde Park, Mass.

Application November 23, 1942, Serial No. 466,575

6 Claims. (Cl. 211—148)



2. Sectional shelving comprising top and bottom plates, spaced uprights, means to secure said plates and uprights together, shelves removably mounted between said uprights, said plates being transversely grooved to receive said uprights and said uprights being transversely grooved to receive said shelves and said uprights and shelves being additionally grooved to jointly provide continuous vertical grooves spaced from the front edges of said parts, and locking keys insertable in said vertical grooves to removably secure said shelves in place.

2,319,878

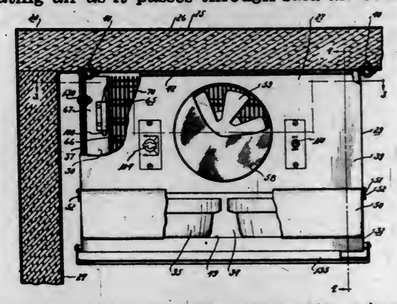
REFRIGERATING APPARATUS

Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland

Application November 16, 1940, Serial No. 365,965

2 Claims. (Cl. 62—102)

1. Refrigerating apparatus comprising in combination a cabinet having a food storage compartment, an enclosure member secured within said compartment in spacial relation to front and rear well thereof enclosing an air cooling zone and a low temperature zone, heat absorbing means including a portion positioned in said low temperature zone for maintaining low temperatures in said low temperature zone, and a portion in said air cooling zone for cooling the circulating air as it passes through said air cooling



zone, means interconnecting said portions to control the flow of refrigerant therethrough to maintain a relatively low temperature in the first mentioned portion for freezing substances and a relatively high temperature in the second mentioned portion for cooling circulating air, and a fan for directing the flow of air from adjacent the front wall of said compartment through said air cooling zone and along the rear wall of said food storage comparment.
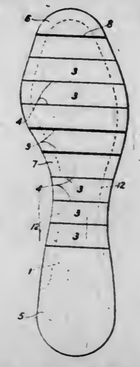
2,319,879

SHOE AND ITS METHOD OF MANUFACTURE

Harold L. Pierson, Rochester, N. Y., assignor to E. P. Reed & Co., Rochester, N. Y., a corporation of New York

Application April 29, 1942, Serial No. 441,003

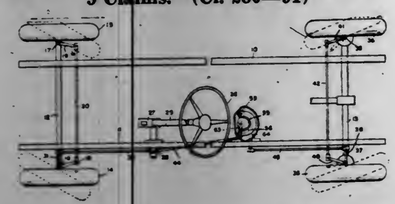
5 Claims. (Cl. 12—146)



1. The method of making a shoe sole which consists in forming a supporting layer somewhat larger than the completed sole and with a straight edge at its front end connecting the opposite side edges at a predetermined angle, cementing to the outer surface of the supporting layer a series of cross pieces extending transversely thereof, each of said cross pieces having parallel opposite edges arranged in parallelism to said straight front edge of the supporting layer and in juxtarelation to the edges of adjacent cross pieces, cutting away the edge of the supporting layer and the ends of the cross pieces to form an outer sole, and cutting away the supporting layer at

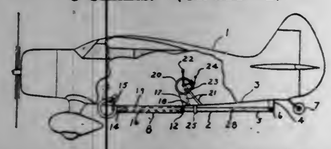
its edges to expose the inner surfaces of the end portions of the cross pieces whereby the said inner surfaces of the end portions of the cross pieces may be cemented to the upper.

2,319,880
STEERING GEAR
Harper E. Pulleyblank, Detroit, Mich., assignor to Gemmer Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application July 30, 1941, Serial No. 404,727
5 Claims. (Cl. 280—91)



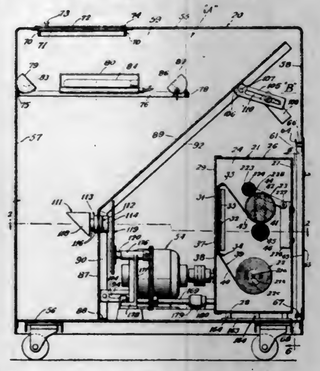
1. A motor vehicle comprising a frame, front and rear wheels on said vehicle, means mounting said front and rear wheels for turning movement about substantially vertical axes, steering knuckles for said wheels including levers for turning said wheels, a steering wheel and stem, a rock arm movable by said stem, a link connecting said rock arm to the lever of one of said front wheels, a cross link interconnecting the levers of said front wheels, a cross link interconnecting the levers of said rear wheels, means interconnecting the lever of one of said rear wheels and said rock arm for opposite turning movement of said rear wheels only after a predetermined turning movement of said front wheels, said last means including means effective to retain said rear wheels firmly in straight-ahead position during predetermined movement of said front wheels in either direction from straight-ahead position, and effective thereafter to turn said rear wheels in the opposite direction from said front wheels during further turning movement of said front wheels.

2,319,881
AIRCRAFT PICKUP AND DELIVERY APPARATUS
James G. Ray, Pittsburgh, Pa., assignor to All American Aviation, Inc., Wilmington, Del., a corporation of Delaware
Application filed April 24, 1940, Serial No. 331,364
6 Claims. (Cl. 258—1)



4. In combination with an aircraft having a hatch, a pick-up arm comprising upper and lower sections, articulative means spaced from said hatch for connecting said upper section to said aircraft, movable means connecting said upper and lower sections, a holder in the end of said lower section, a hook adapted to seat in said holder, a guide on said arm, a winch in said aircraft adjacent said hatch, a pick-up line wound on said winch passing through said guide and seat and attached to said hook, said winch being adapted to wind and unwind said pick-up line whereby to aid in controlling the position of said arm prior to the pick-up operation, and whereby to reseat said hook in said holder and to swing said arm into retracted position adjacent the aircraft with said hook adjacent said hatch after picking up the burden.

2,319,882
PHOTOCOPY MACHINE
Lester C. Reagan and Walter Zalatorius, Chicago, Ill.; said Zalatorius assignor to said Reagan
Application March 31, 1941, Serial No. 386,066
7 Claims. (Cl. 88—24)

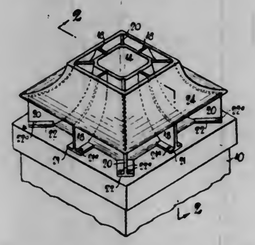


1. In a machine of the character described, in combination, a casing including a wall provided with an opening, a magazine replaceably insertable into said casing through said opening therein, said magazine being adapted to house a web of light-sensitive paper or like material, said casing including a wall having a window provided therein for supporting an article or document to be reproduced upon the said web of light-sensitive paper or like material, means in said casing for illuminating the said window and an article or document disposed thereon, means including a focusing lens in said casing for directing an image of an illuminated article or document disposed upon the said window into said magazine and against said web of light-sensitive paper or like material arranged therein, rotatable means in said magazine for moving the said web of light-sensitive paper or like material past the said focusing lens, means including an electric motor in the said casing for operating the said rotatable means, an electrical control circuit for controlling operation of said illuminating means, an electrical control circuit for controlling operation of said electric motor, said operating means being automatically operatively engaged with the said rotatable means when said replaceable magazine is inserted into position of use in the said casing, a shutter movably mounted in the said casing for movement between the said focusing lens and the said web of light-sensitive paper or like material, means coacting with the said operating means for operating the said shutter, a timing device under control of the said operating means for substantially simultaneously opening the said control circuit for the said illuminating means and the said control circuit for the said motor at the end of a cycle of operations of the machine, and a single common manually operable control switch movably mounted in a wall of said casing for substantially simultaneously closing the said control circuit for the said illuminating means and the said control circuit for said motor to initiate a cycle of operations of the machine.

2,319,883
WATER SOLUBLE ADHESIVE
Bradford S. Ritchie, Norwood, Mass., assignor to Ralph W. E. Leach, Winchester, Mass.
No Drawing. Application filed November 7, 1940, Serial No. 364,687
5 Claims. (Cl. 106—123)

1. An adhesive consisting of a water-soluble concentration of acid blown-down liquid of the sulphite process of paper manufacture, being non-acid and approximately neutral; combined with a hygroscopic agent, and moisture held thereby, giving flexibility to the permanent form of the adhesive; and a non-volatile water-miscible sodium phenyl-phenate salt.

2,319,884
CHIMNEY CAP
Grover C. Robbins, Blowing Rock, N. C.
Application December 18, 1941, Serial No. 423,423
3 Claims. (Cl. 98—67)



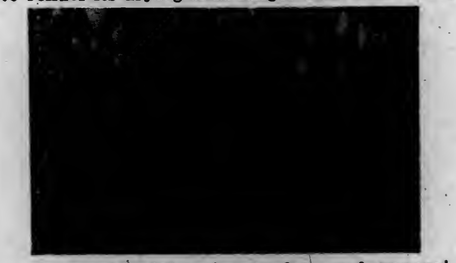
1. A chimney cap comprising a hollow frustro-pyramidal member adapted to surround the upper end of the chimney flue and to fit on top of the chimney closely adjacent the flue opening, a plurality of spacer members supported by the top surface of the chimney and arranged exteriorly of said member, a second hollow frustro-pyramidal member resting upon said spacers and having its lower rim terminating a substantial distance above the top of the chimney, said second member having its upper rim flush-top with said first member.

2,319,885
PROCESS AND COMPOSITION FOR TREATMENT OF EMULSIONS
Claudius H. M. Roberts, Palos Verdes Estates, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application October 8, 1940, Serial No. 360,294
22 Claims. (Cl. 252—340)

1. A process for treating emulsions of oil and water, which comprises: adding to said emulsion a demulsifying agent and an agent selected from the class consisting of hydroxylated carboxylic acids and their alkali metal and ammonium salts, said acids containing not more than seven carbon atoms in the molecule.

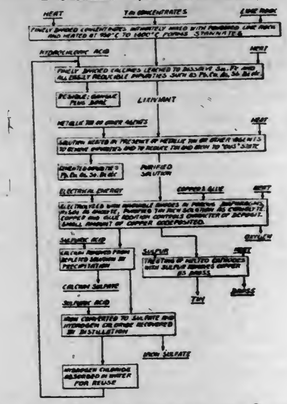
2,319,886
METHOD AND COMPOSITION FOR PRODUCING CRYSTALLINE COATINGS
Robert V. Sandstrom, Detroit, Mich.
Application June 6, 1938, Serial No. 212,100
10 Claims. (Cl. 117—42)

8. A process which comprises mixing the reaction product of rubber with a reagent from the group consisting of chlorostannic acid and a halide of an amphoteric metal, toluol, mineral spirits and cyclohexyl para-toluene sulfonamide, the amount of said mineral spirits being sufficient to render its drying time longer than said toluol,



applying said mixture to a surface, and evaporating said solvents whereby said cyclohexyl para-toluene sulfonamide is crystallized prior to the complete evaporation of said mineral spirits.

2,319,887
HYDROMETALLURGICAL PROCESS FOR THE RECOVERY OF TIN
James R. Stack, Pittsburgh, Pa.; Alvilda L. Stack, Montpelier, Vt., executrix of said James R. Stack, deceased
Application June 28, 1940, Serial No. 342,957
1 Claim. (Cl. 204—122)

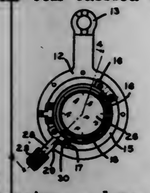


The process for recovering tin from a hydrochloric acid bath containing tin in solution which comprises electrolyzing the bath using insoluble anodes of the porous diaphragm type while adding a soluble copper compound and glue to deposit the tin cathodically together with a small amount, less than 1% of copper, separating the cathodic tin from the copper and recovering the tin.

2,319,888
OPHTHALMIC INSTRUMENT
Raymond F. E. Stegeman, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application November 6, 1941, Serial No. 418,025
4 Claims. (Cl. 88—20)

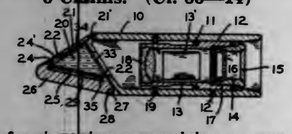
1. In an ophthalmic instrument, the combination of a plate having an opening, an arcuate member having pivots at its respective ends, said pivots being mounted on bearings carried by said plate on opposite sides of the opening whereby said member may be turned about an axis

which is substantially parallel to the face of the plate, a lens cell carried by said member,



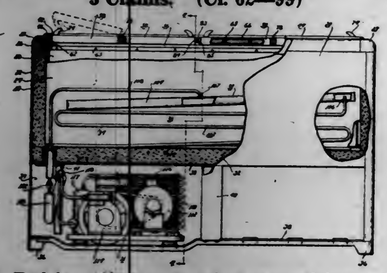
a mounting carrying a lens and cooperating means on the cell and mounting for detachably holding the lens.

2,319,889
REFRACTOMETER
Harold W. Straat, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application July 5, 1941, Serial No. 401,167
8 Claims. (Cl. 88—14)



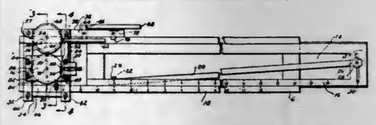
1. A refractometer comprising a support, scale means mounted near one end of the support, prism means mounted at the other end of the support, said prism means having an entrance surface facing said scale means, an exit surface through which an observer looks and a surface against which is placed a specimen the refractive index of which is to be measured, a cover for the exit surface, said cover having an observation opening, means for holding the specimen to be measured against the third mentioned surface of the prism means, said entrance and exit surfaces forming substantially equal angles with the third mentioned surface of the prism means, said scale means being visible and readable through said prism means, and said scale means and said prism means being relatively positioned so that the boundary edge of a shadow which is produced by the specimen being measured and which appears in the field of view of the prism means extends transversely of the axis of the scale means.

2,319,890
REFRIGERATING APPARATUS
Richard H. Swart, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application November 25, 1940, Serial No. 366,941
3 Claims. (Cl. 62—99)



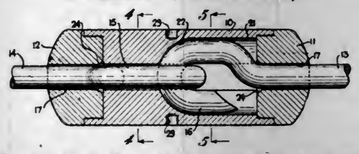
1. Refrigerating apparatus comprising a box-like liner, a serpentine refrigerant evaporating conduit in heat exchange relation with said liner, and a second and larger refrigerant evaporating conduit connected in series to the outlet of said first conduit and secured in a substantially straight line tilted position in heat exchange relation to said liner above the outlet end of said first conduit, said second conduit having its inlet and outlet located in the higher portion thereof.

2,319,891
CALCULATING APPARATUS
Carl W. Telander, Randolph, Mass.
Application February 24, 1940, Serial No. 320,631
1 Claim. (Cl. 235—61)



A calculating apparatus comprising a body having a scale divided in suitable units, a slide movable in the body, a ratio bar angularly adjustable in the slide, a carriage movable along the body, a units accumulator on the carriage including a wheel frictionally engageable with the body, a product indicator on the carriage operated by engagement with the ratio bar and having a dial, a product accumulator having a dial frictionally engageable with the product indicator dial, a sliding mounting on the carriage for the product accumulator to permit manual disengagement of the dials, and means including a member connected with said sliding mounting to lift the carriage and to move the wheel of the units accumulator from engagement with the body when the product accumulator is disengaged from the product indicator.

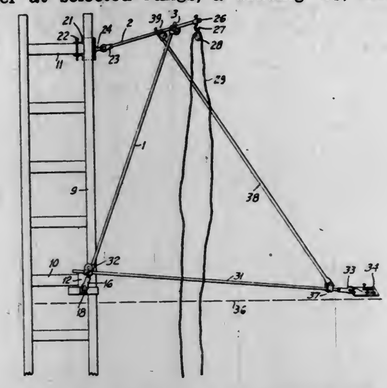
2,319,892
COUPLING FOR RODS OR SHAFTS
Frank B. Thomas, Akron, Ohio
Application January 25, 1943, Serial No. 473,559
4 Claims. (Cl. 287—104)



1. A coupling for rod-sections linked end-to-end by hook-and-eye formations, said coupling comprising a cylindrical metal sleeve telescoped over said hook-and-eye formations, axially apertured caps on opposite ends of the sleeve through which apertures the respective rod-sections extend, and respective slots formed interiorly of said sleeve and receiving said hook-and-eye formations, said slots being arranged to prevent angular movement of said formations relatively of each other and relatively of the sleeve.

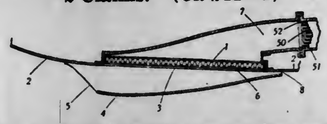
2,319,893
DERRICK FRAME
William Glenn Tuttle, Oakland, Calif.
Application May 11, 1942, Serial No. 442,561
5 Claims. (Cl. 254—139)

1. A device of the character described comprising a V-shaped frame, means adjacent the apex of the frame for adjusting the relationships of the frame members, means upon the free ends of the members for clasping the side rail of a ladder at selected rungs, a bracing leg, means



for anchoring one end of the bracing leg, and means for connecting the other end of the bracing leg to the V-shaped frame.

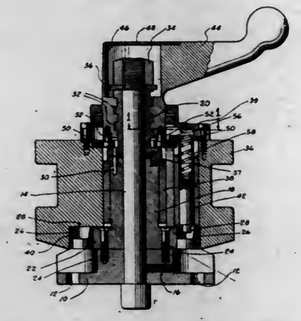
2,319,894
FILTER
Cecil Gordon Vokes, London, England
Original application November 2, 1937, Serial No. 172,455. Divided and this application December 12, 1939, Serial No. 308,847. In Great Britain May 7, 1937
2 Claims. (Cl. 244—1)



2. In an aircraft having an engine and formed in an exterior wall with an elongated opening, an air scoop including a wall section overlying and spaced from the opening in the aircraft wall, said air scoop wall converging relative to the aircraft wall and defining an air inlet at its larger end and a restricted outlet at its smaller end, the inlet end of the air scoop being open to the admission of air under a pressure incident to the travel of the aircraft, and a filter arranged in the opening in the wall of the aircraft and open at one side to the air entering the air scoop and delivering filtered air from the opposite side for use by the engine, the relation of the filter and air scoop causing the air to be delivered through the filter to be at a pressure less than that of the air passing through the scoop, the filter being so constructed that its effective filter length is materially greater than the length of the filter-receiving opening in the wall of the aircraft.

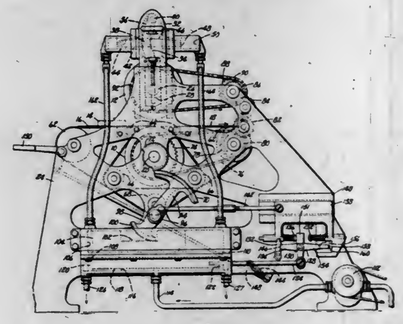
2,319,895
TURRET
Ralph H. Walker, Saugus, Mass., assignor to Lawson Machine and Tool Co., Malden, Mass., a corporation of Massachusetts
Application September 16, 1941, Serial No. 411,009
4 Claims. (Cl. 29—49)

2. In indexing means for a machine tool turret, in which there are a turret head with a plurality of work faces; a support including a fixed stud about which the head is mounted rotatably for setting the work faces successively at a fixed work station; a spring-pressed bolt for locking the head against rotation; bolt-receiving keeper-recesses located in succession for indexing and locking the head; and a manually operable hub screw threaded on the stud for clamping the head against the support, with pitch long enough for a fractional revolution to effect unclamping and unlocking of the head, and having an annular part, moving with the hub, aligned to engage and withdraw the locking bolt; that combination in which there is



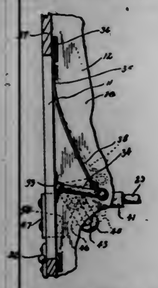
a pawl and ratchet connection between the hub and the turret head, arranged to over-ride when the tub turns in unlocking direction, and to rotate the head when the hub turns in locking direction; the said pawl being spring pressed toward the ratchet and being so located relative to the bolt that travel of the bolt in locking direction moves the pawl out of engagement with the ratchet, and travel of the bolt in unlocking direction releases the pawl, permitting its ratchet engagement.

2,319,896
MACHINE FOR CUTTING SHEET MATERIAL
Erastus E. Winkley, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 4, 1942, Serial No. 457,365
8 Claims. (Cl. 164—28)



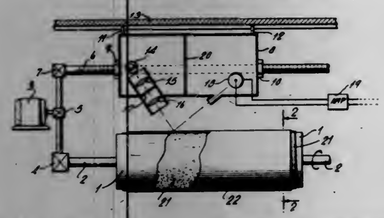
1. In a machine for operating upon sheet material, a plurality of spaced pressure rolls, an endless belt for supporting thereon a piece of work and a die, means for moving the belt in a direction to advance the work and the die past the rolls to produce a cutting operation upon the work, means for subsequently moving the belt in a direction to move the work and the die past the rolls in a reverse direction, and means operative in timed relation to the movements of the belt for raising or lowering one of the pressure rolls.

2,319,897
VEHICLE DOOR OPERATING MEANS
Robert F. Young, Smithdale, Miss., assignor of one-half to Henry E. Barnett, Summit, Miss.
Application April 21, 1941, Serial No. 389,651
3 Claims. (Cl. 268—3)



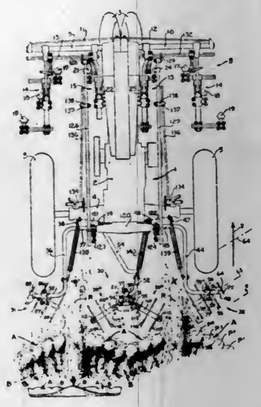
1. A closure and operating means consisting of a hinged door and having a closed position in a given plane, an operating member movable in a path toward and away from said plane within the radius of the door, means to move the operating member in said path, a plate fixed on the door having a slot to receive the operating member therein for sliding movement longitudinally of the slot, the first part of the slot extending from the initial closed position of the operating member in a direction coincident with said path, the slot having a lateral inclined part arranged so that one edge thereof will engage the operating member at completion of initial opening movement in the first arm of the slot, and the other edge will engage the operating member during initial closing movement of the operating member and so move the door in respective directions, latch means on the door, a latch operating member connected therewith pivoted on the door having an arm formed with a slot generally at an angle to the direction of said path and receiving said operating member therein for sliding movement relatively longitudinally of the slot, and being located so that the operating member will act against the sides of the slot while the operating member is moving in the said first part of the first named slot.

2,319,898
TELEPHOTO METHOD AND APPARATUS
Philip D. Zurian, Hicksville, N. Y., assignor to Press Wireless, Inc., Chicago, Ill., a corporation of Delaware
Application August 27, 1941, Serial No. 408,421
8 Claims. (Cl. 178—7.1)



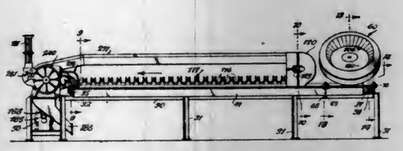
1. A telephoto scanning system comprising a phosphorescent surface, means to produce on said surface a phosphorescent record of a subject whose image is to be transmitted and means to convert the light emitted from successive elemental areas of said phosphorescent record into corresponding electric facsimile signals.

2,319,899
DAMMING CULTIVATOR
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 2, 1939, Serial No. 293,187
41 Claims. (Cl. 97—47)



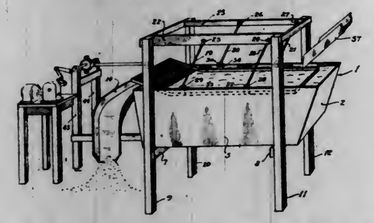
1. An agricultural implement comprising a plurality of blades having separate soil engaging sections fixed together for simultaneous rotation at an angle to the line of advance of the implement, said blades being disposed generally in spiral formation about said axis and arranged so that when the implement is drawn in contact with the ground, the forwardmost section first engages the ground, followed by the engagement of the next rearward sections with the ground in succession, and said angle being such that the area worked by one section lies generally contiguous, generally transversely with respect to the line of advance, to the areas worked by adjacent sections.

2,319,900
APPARATUS FOR PACKING FOODSTUFFS IN CANS
William de Back, Niagara Falls, N. Y., assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y., a corporation of New York
Application December 13, 1940, Serial No. 370,051
24 Claims. (Cl. 226—101)



1. Apparatus for packing foodstuffs, comprising an endless flexible conveyer, means for supporting said conveyer to traverse a non-circular path, means for moving said conveyer to successively traverse a filling station and a transfer station, a plurality of molds carried by said conveyer in spaced relation and projecting inwardly from said conveyer into the space between the stretches of said conveyer and defined by said conveyer, said molds being adapted to be filled with said foodstuffs at said filling station, and means for emptying said molds into cans at said transferring station.

2,319,901
VIBRATING SCREEN
Jesse Pankey Hall, Bartow, Fla., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application October 11, 1939, Serial No. 298,996
6 Claims. (Cl. 209—269)

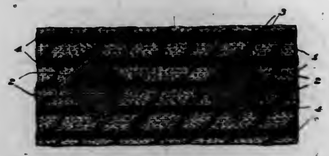


1. A classifier having means to feed material to the classifier and a means to receive a portion of the classified material comprising a screen reciprocable between said feeding means and said receiving means to effect a separation of the particles of the material to be classified such that the larger particles are retained on the screen; said screen being generally horizontally disposed but having an upwardly inclined portion adjacent said receiving means; means to drive said screen rapidly in one direction; a body of liquid cooperating with said screen; means for directing the movement of the screen through said liquid for a substantial distance; said directing means causing said screen to be lifted out of the body of liquid adjacent said receiving means; and means associated with the screen to constrain the material to a path of movement over the screen as it is reciprocated; said drive means being operative to move said screen rapidly from its position nearest the receiving means to the position nearest the feeding means; whereby the material on the screen is subjected to a thorough agitation upon striking the liquid, is washed and given a forward feeding movement while said screen moves therethrough; the material being washed and classified during movement in the opposite direction; and the larger particle sizes of the material being caused to roll over said upwardly inclined portion and off of the screen into the receiving means at that end of its stroke and after the screen has been lifted out of the liquid.

2,319,902
THERAPEUTIC PRESSOR COMPOSITION AND METHOD OF PREPARING IT
Oscar M. Helmer, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application October 5, 1940, Serial No. 359,913
6 Claims. (Cl. 167—74)

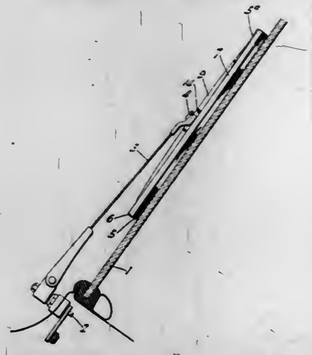
1. A composition selected from the class which consists of the reaction products of a substance derived from kidney and having pressor characteristics when administered intravenously to dogs with a substance selected from the class consisting of whole blood, plasma, serum, pseudoglobulin, and red cells; and the salts of said reaction products.

2,319,903
METHOD OF PRODUCING PATTERNED CELLULOSIC FABRIC
Harold I. Huey, Saylesville, and William W. Russell, East Providence, R. I., assignors to Sayles Finishing Plants, Inc., Saylesville, R. I., a corporation of Rhode Island
Application April 12, 1940, Serial No. 329,256
4 Claims. (Cl. 8—18)



2. A process for patterning in relief a cellulosic fabric which comprises treating narrow, narrowly spaced areas only of the fabric with a mixture of a water insoluble hydroxy ether of cellulose and a compatible dyestuff to render said areas colored, stiff and resistant to shrinkage under the action of a caustic, and shrinking other areas of the fabric with a caustic to produce a permanent crinkle in at least some of the unshrunken fabric portions between said shrunken areas.

2,319,904
SLEET BLADE
Reed John Oshei and Roy C. Timm, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application November 10, 1939, Serial No. 303,810
4 Claims. (Cl. 15—250.3)

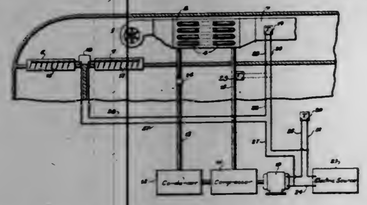


1. A windshield wiper comprising a wiping element embodying a corrosive anti-freeze chemical, a molded plastic holder therefor of synthetic resin having a centrally disposed longitudinal rib on its back attenuating toward the ends of the holder to render the end portions more flexible than the intermediate portion, and an arm-attaching clip projecting from the rib.

2,319,905
AIR CONDITIONING SYSTEM UTILIZING REFRIGERATION
Robert T. Palmer, Sharon, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application September 8, 1939, Serial No. 293,939
1 Claim. (Cl. 62—6)

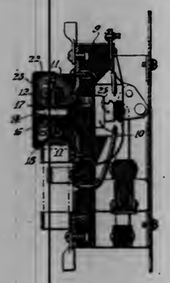
An air cooling system comprising refrigerant evaporator tubes arranged as air cooling tubes,

means for supplying outdoor air and air recirculated from the space served, to said tubes for cooling, refrigerating means including a compressor for supplying refrigerant to said tubes, means including a thermostat in the space served for controlling said compressor, means forming an outlet for the air from said tubes, into said space, and means including a second thermostat exposed to the air from said tubes and located



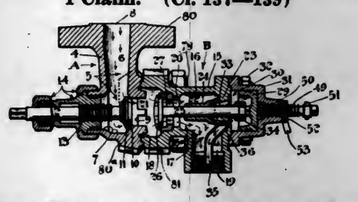
between said tubes and said outlet, for adjusting said first mentioned means to increase the proportion of outdoor air when the temperature of the air from said tubes is below a predetermined point and for increasing the proportion of recirculated air when the temperature of the air leaving said tubes is above said point.

2,319,906
CONTACT MECHANISM FOR ELECTRIC SWITCHES
Raymond N. Rowe, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application March 19, 1941, Serial No. 384,118
7 Claims. (Cl. 200—165)



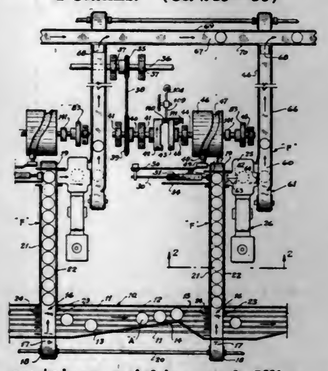
1. An electric switch having an insulating base with a recess therein, a pair of contacts supported on the base at opposite sides of said recess and having substantial contact surfaces spaced apart, an insulting carrier mounted to move into said recess between said contacts, a movable rigid switch member resiliently mounted on said carrier and having flat contact portions of substantial area bent toward each other and spaced a short distance from the main part of the switch member on opposite sides of said carrier, said carrier having insulating flanges extending on opposite sides of said switch member, and means for moving the carrier into said recess between the contacts on the base and bringing the contact portions of the movable switch member against the contacts on the base, a portion of said insulating carrier being positioned as an arc barrier between said bent flat contact portions, whereby the formation of an arc directly between the contacts of said pair of contacts is inhibited.

2,319,907
BLOW-OFF VALVE
Frederick D. Stirling, Montreal, Quebec, Canada, assignor to T. McAvity & Sons Ltd., Montreal, Quebec, Canada
Application January 30, 1942, Serial No. 428,928
1 Claim. (Cl. 137—139)



"Blow-off" apparatus comprising a valve body provided with a bore having one end open and the other end closed by an end wall provided with a valve-stem guide which extends from one side of said wall toward the open end of said bore, a valve seat arranged in said bore between said valve stem guide and the open end of the bore, a second bore provided in said valve body and arranged to extend at an angle to said first mentioned bore, said second mentioned bore being open at both ends and having one end communicating with the first mentioned bore adjacent said end wall, an ejector tube arranged in said second mentioned bore with one end of the tube fitted in an opening in said end wall and the other end of the tube directed away from said first mentioned bore, a casing secured to said end wall to form a cylinder located at the side of said end wall remote from the valve-stem guide, the interior of said cylinder being in communication with said second mentioned bore through said tube, a piston working in said cylinder, a valve stem working in said valve-stem guide and having one end secured to said piston, a valve secured to the opposite end of said valve stem, biasing means normally holding said valve in a closed position against said seat and means for supplying steam to said cylinder to move said piston to a valve opening position against the resistance of said biasing means.

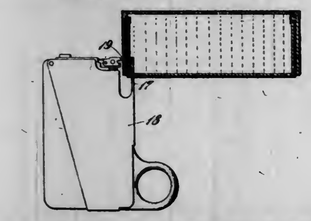
2,319,908
CONTAINER FILLING AND WEIGHING APPARATUS
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application December 6, 1940, Serial No. 368,881
4 Claims. (Cl. 249—59)



1. A container weighing and filling machine

comprising: a scale having a weighing platform and a movable pointer, provided with a vane; a feed conveyor adjacent one side of said platform; a discharge conveyor adjacent the other side of said platform; a transfer mechanism for moving an empty container from said feed conveyor onto said weighing platform and for moving a filled container from said platform onto said discharge conveyor; a feed valve for admitting material into said empty container; mechanical means for opening said feed valve; drive means for said transfer mechanism and said feed valve opening means including a one-revolution clutch; control means for said feed valve; and means to actuate said control means including an electrical circuit, a photoelectric cell carried by said scale on one side of the plane of movement of said pointer vane, and a lens and a light source carried by said scale on the opposite side of said plane of travel of said pointer vane for directing a light beam on said photoelectric cell; a solenoid in said circuit arranged to actuate the control means to reduce the flow through said feed valve when the leading edge of said vane interrupts the light beam and to completely close said feed valve when the trailing edge of said vane moves out of the path of said light beam; and a second solenoid in circuit with said control means for effecting engagement of said one-revolution clutch after said feed valve is closed.

2,319,909
PACKAGE
Lewis Douglas Young, Providence, R. I., assignor to Douglas Young, Inc., a corporation of Rhode Island
Application February 11, 1941, Serial No. 378,423
2 Claims. (Cl. 229—47)



1. In a sealed box, a body section having bottom and side walls, a cover section having a top and side walls, the side walls of the cover section extending over the side walls of the other section for the full length thereof, a staple passing through said walls adjacent the bottom for securing the sections together, an opening in the said bottom wall having a portion adjacent the side walls partially severed and movable to provide an opening to afford access from the outside of the box for engaging the inner surface of the overlapping side walls for clinching the staple in place, said portion being movable to close said opening after clinching said staple.

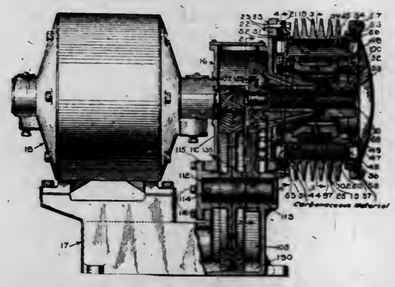
2,319,910
SIGN
Benjamin H. Adler, Chicago, Ill.
Application December 9, 1939, Serial No. 308,413
14 Claims. (Cl. 40—140)

1. In a changeable display sign, a panel supporting frame comprising vertical members and spaced horizontal members connecting said vertical members, said horizontal members comprising upwardly and downwardly facing panel receiving channels and a downwardly sloping letter receiving channel disposed between said channels, panels removably mounted on said horizontal members, and letter units adapted to engage said letter receiving channels.



7. In a changeable display sign, letter units having a concave portion as the front main body thereof, bevelled flanges on the periphery thereof and mounting means, said means comprising lugs struck out from the surface of said concave portion.

2,319,911
AIR COMPRESSOR
Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application January 28, 1939, Serial No. 253,378
7 Claims. (Cl. 230—159)



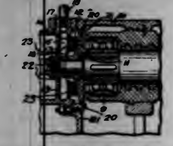
6. A fluid compressor of the type adapted to be driven by a motor or the like, comprising a casing structure including a cylindrical portion having a bore and having its sole support at one end and a single bearing portion carried concentrically of said cylindrical portion and disposed at least partly within said cylindrical portion bore, a drive shaft having one end journaled in and supported by said bearing portion and having another end extending there-beyond into said bore of said cylindrical portion of the casing, a hollow cylindrical drum member having a hub portion secured to said other end of the drive shaft and having an interior cooling chamber the peripheral wall of which is adapted to extend in overlying relation with said bearing portion, sealing means associated with said cylindrical portion of the casing and slidably engaging said drum member for defining a plurality of separate compression chambers, inlet and discharge valve means for said compression chambers, vane means resiliently mounted on said drum member and respectively disposed in sliding relation to the walls of said compression chambers, and driving means operatively connected to the other end of said drive shaft closely adjacent said bearing means for imparting oscillatory motion to the drive shaft.

2,319,912
ELECTRICAL DISCHARGE DEVICE
William T. Anderson, Jr., Newark, and Hans Laub, Millburn Township, N. J., assignors to Hanovia Chemical and Manufacturing Company, Newark, N. J., a corporation of New Jersey
Application January 18, 1940, Serial No. 314,440
1 Claim. (Cl. 176—122)



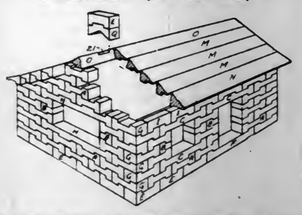
An elongated tubular vapor electric discharge device having a lower and an upper end for use in air currents passing along the outside of the device, comprising a sealed tubular envelope of vitreous material containing a gaseous filling consisting at least in part of metal vapor maintained at high pressure and provided with at least two activated electrodes spaced apart not less than approximately 10 inches within the envelope and at opposite ends thereof, and heat insulating means at both ends of the envelope in proximity to the electrodes, said heat insulating means providing insulation at the ends only of said envelope and consisting of a metal reflector at the upper end of the envelope and of a metal reflector and an enclosure of non-metallic heat insulation at the lower end of the envelope, whereby the temperature prevailing at both ends is not below that prevailing at the part of the envelope through which the arc is struck and whereby the greater heat losses at the lower end due to air currents are balanced by the greater heat insulating capacity of the said heat insulating means at such lower end.

2,319,913
THRUST BEARING
Oliver D. H. Bentley, Norfolk, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application March 27, 1941, Serial No. 385,511
5 Claims. (Cl. 308—9)



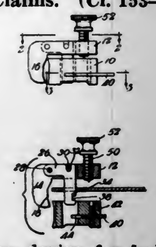
1. In a thrust bearing assembly including a rotary shaft, a thrust bearing around said shaft adjacent the thrust end thereof, and a wall around said bearing and shaft, a fluid pump having its impeller connected to said shaft for rotation therewith, between said bearing and said thrust end, an annular flange mounted on said shaft between said bearing and said shaft end, for rotation therewith and having an inner portion in contact with the end of said bearing nearest said shaft end and having an outer portion in contact with said wall, an annular partition extending from said wall and contacting said impeller at the shaft end thereof, and means including said wall and said partition for directing the fluid from said pump against said flange for producing a pressure upon said bearing for opposing the thrust from said shaft thereagainst.

2,319,914
BUILDING BLOCK
William A. Blanding, Jr., Belding, Mich.
Application November 26, 1940, Serial No. 367,210
6 Claims. (Cl. 46—25)



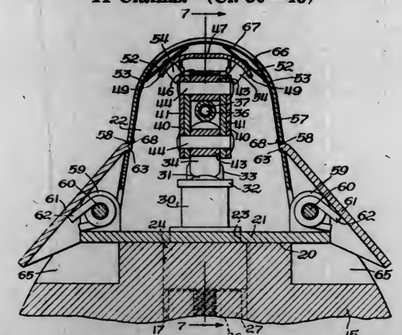
1. A set of building blocks including three blocks of different configurations, said blocks being formed with cooperating projections and recesses whereby the blocks may be secured in interlocked engagement, one of said blocks being of substantially greater length than its width and height, said block having a projection on one side at the edge thereof extending the full length of the block, the width of said projection being equal to the length of the shortest projection on any of the blocks.

2,319,915
CLAMPING DEVICE FOR TEMPLATE AND STOCK USED IN SHAPING CUTTING DIES
Harry M. Bolston, Revere, Mass.
Application June 3, 1940, Serial No. 338,539
6 Claims. (Cl. 153—48)



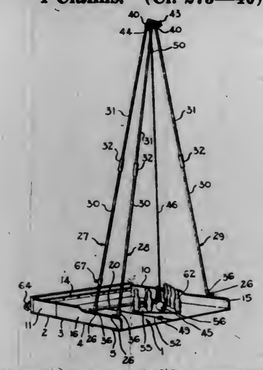
5. A clamping device for holding a template in association with die stock during bending of the latter to form a shoe cutting die, comprising two parts embodying a base block and a cooperating L-shaped head, the block and head having a pair of opposed clamping faces adapted to grip the die stock and the head having a surface substantially right angular to said clamping faces for supporting the template in cooperating relation with an edge of the die stock, the template having a slotted opening therethrough spaced from but adjacent to an edge thereof, an element connected to one of said parts and having an arm extending toward and cooperating with the other part rearwardly of said opposed clamping faces, the template being adapted to rest on said surface with the arm extending through its said opening, releasable means for connecting the arm with said other part, and means for clamping the template onto said surface and simultaneously tightening said clamping faces on the die stock.

2,319,916
ELECTRIC RAZOR
Charles T. Breitenstein, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Application September 7, 1938, Serial No. 228,779
11 Claims. (Cl. 30—43)



5. A cutter head for electric razors comprising a part having end walls, a rockable support mounted on the walls including a blade holder, an arcuate guard on the first part over the holder, means yieldably pressing the holder toward the inner curvature of the guard, and a flat blade carried flatly on the holder to cooperate with and be positioned chordally relative to the inner curvature of the guard.

2,319,917
GAME
Jacques F. Bruneau, Hagerstown, Md.
Application April 24, 1941, Serial No. 390,094
4 Claims. (Cl. 273—40)

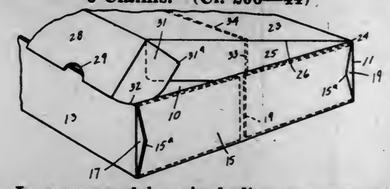


1. A base for a portable bowling type game comprising an open box-like portion constituting a relatively long and narrow main bottom section having its opposed ends and one longitudinal side thereof provided with vertically disposed side walls, a plurality of relatively long and narrow sections hingedly connected with each other along their contiguous longitudinal edges and with the longitudinal edge of the main bottom section on the side thereof opposite the longitudinal side wall, said plurality of relatively long and narrow sections being movable to a position disposed in the plane of said main bottom section and being foldable relative to each other and relative to said main box-like portion, a pair of side members, one hingedly connected to each of the free ends of the vertical end walls of the main box-like portion, foldable to a position in overlapping relation with each other in the direction of the adjacent longitudinal edge of the main bottom section and extendable to lie substantially along the opposed edges of the long and narrow sections when disposed in the plane of the main bottom section and means for connecting said side members to at least one of said long and narrow sections when extended.

2,319,918
RUBBER HYDROCHLORIDE FILM
William C. Calvert, Chicago, Ill., assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 20, 1937, Serial No. 132,167
25 Claims. (Cl. 117—139)

11. The method of increasing the transparency and clarity of a sheet or film prepared by casting a rubber hydrochloride solution onto a smooth surface and drying the same, which comprises applying to said sheet or film a solution of a transparent film forming material including an end product obtained by the reaction of rubber and a halide salt of an amphoteric metal in a solvent that is not a solvent for rubber hydrochloride and evaporating said solvent therefrom to leave a continuous relatively thin pellicle over said rubber hydrochloride sheet or film.

2,319,919
COVERED SHIPPING AND DISPLAY BOX
Lynn J. Clark, Indianapolis, Ind., assignor to Inland Container Corporation, Indianapolis, Ind., a corporation
Application December 19, 1940, Serial No. 370,845
6 Claims. (Cl. 206—44)

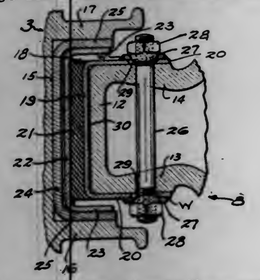


1. In a covered box including a cover, a bottom, a front wall, a rear wall and two side walls, all walls being integral at the lower end with the bottom, each side wall being of double thickness and the other walls having inwardly directed flaps nested in the dual thickness side walls, the combination of a cover front flap and adapted to lie forwardly of the box front wall and integral with the cover, and tongue means at each side edge of the cover front flap and arranged for nesting in the dual side wall adjacent thereto, the cover being detachably associated with the rear wall and including side flaps, nestable inside the box adjacent the inside side walls, and parallel, laterally directed tongues seatable in the dual walls for detachable connection of the cover.

2,319,920
RAILWAY TRUCK PEDESTAL STRUCTURE
Ernest F. Dohe and William J. Wilson, Omaha, Nebr.
Application September 8, 1941, Serial No. 409,948
9 Claims. (Cl. 105—225)

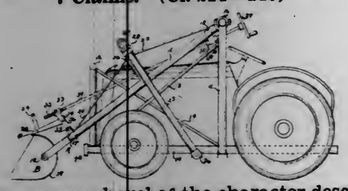
1. In combination, a railway truck pedestal

leg, a liner therefor having a journal box opposing portion and a flange extending from said portion over the side of the pedestal leg, a holding device extending through the pedestal leg and said flange, the opening in the pedestal leg providing a snug fit for said device, and the opening in said flange for said device being enlarged to



accommodate movement of said liner portion towards and away from the pedestal leg, a member overlying said opening in said flange and the adjacent portion of said flange and apertured to closely fit said device, and separate means fixedly securing said member to said liner flange to prevent movement of said flange relative to said member, device and pedestal leg.

2,319,921
POWER SHOVEL
George W. Dooley, Ernest W. Baldwin, and Curtis C. Baldwin, Ottawa, Kans.
Application October 6, 1941, Serial No. 413,798
7 Claims. (Cl. 214—140)



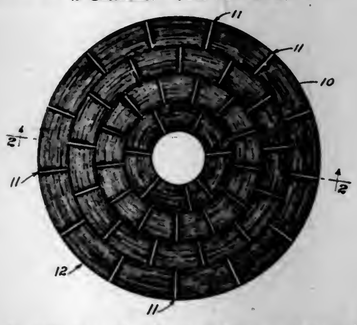
1. In a power shovel of the character described, a frame adapted for attachment to a tractor; means for securing the frame to the tractor in a substantially horizontal position beneath the body of the tractor and between the wheels thereof; posts on the frame; arms, having material carrying means thereon, pivotally secured to the posts; an hydraulic ram pivotally secured to the frame, and a link interconnecting the upper end of the ram with said arms for moving the latter about their pivotal connections with the posts.

2,319,922
APPARATUS AND METHOD FOR PRODUCING ONE-PIECE MULTIFOCAL LENS BLANKS AND LENSES
Frank E. Duckwall, Indianapolis, Ind., assignor to Continental Optical Company, Inc., Indianapolis, Ind., a corporation
Application May 17, 1940, Serial No. 335,810
9 Claims. (Cl. 51—284)



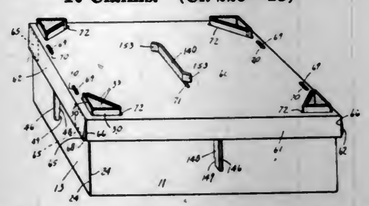
1. In an apparatus for producing a one-piece multifocal lens blank and lens having an outer vision field and a circular inner vision field, a cam button secured to said blank over a portion of the inner field, said button being formed with an inset lower portion of reduced area and an upper cam portion spaced from the blank, and a tool applied to said blank adapted to engage and be guided by said cam portion for developing that portion of the inner field exposed thereby to merge with the outer field.

2,319,923
PAD
Walter S. Finnell, Elkhart, Ind., assignor to Finnell System, Inc., a corporation of Indiana
Application March 6, 1941, Serial No. 381,997
2 Claims. (Cl. 15—230)



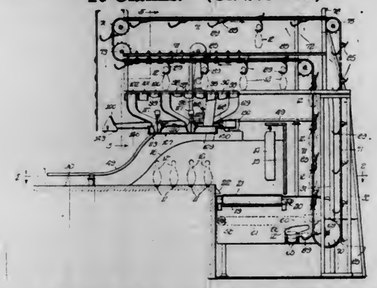
1. A new article of manufacture comprising a flat circular pad of steel wool, the strands of which lie circumferentially, and means for securing said strands together comprising a plurality of elongated welds in series differently spaced from the geometric center of the pad, each of said welds extending transversely of and joining a plurality of said strands.

2,319,924
COMPLETE STICKLESS STAPLELESS CHICK BOX
Kenneth C. Ferguson, Indianapolis, Ind., assignor to Anderson Box Company, Indianapolis, Ind., a corporation
Original application March 13, 1940, Serial No. 329,438. Divided and this application October 22, 1941, Serial No. 415,993
10 Claims. (Cl. 229—15)



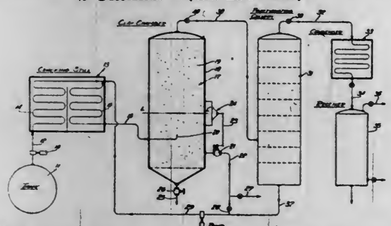
1. In a chick box having spaced pairs of transverse walls, the combination of a pair of intersecting, opposed slot, interlocking connected partitions of a length substantially that of the walls parallel thereto, and an interlocking connection between each wall and adjacent end of the partition, the wall including an elongated slot and a wing arrangement closed extension at its upper end, the adjacent end of the partition including an extension, the extension including a notch for wall reception and partition locking, the wing arrangement for the slot extension having a depth at least equal to the depth of the notch.

2,319,925
AUTOMATIC BOWLING ALLEY MECHANISM
John E. Flanagan, Chicago, Ill.
Application September 11, 1940, Serial No. 356,309
10 Claims. (Cl. 273—43)



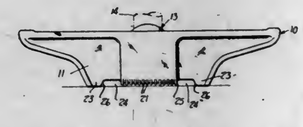
1. A bowling alley operating mechanism, comprising a pin conveyor, a pin-aligning member, means for receiving pins from said aligning member, a pin hoist including a pin-gripping device operative to convey pins from said receiving member to a position above the bowling alley, and means for stopping said pin conveyor when a predetermined number of pins are in said receiving member.

2,319,926
CRACKING OF LIGHT PETROLEUM STOCKS
William T. Hancock, Long Beach, Calif., assignor to Hancock Oil Company of California, Long Beach, Calif., a corporation of California
Application November 27, 1939, Serial No. 306,345
2 Claims. (Cl. 196—55)



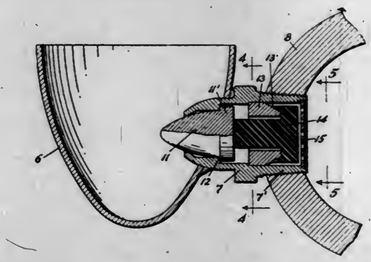
1. The method of refining petroleum oil included within substantially the kerosene distillate-gas oil range, that comprises passing a stream of the oil under super-atmospheric pressure through a cracking zone wherein the oil is heated to cracking temperature, passing the cracked hydrocarbons directly into a reaction zone containing a body of divided adsorptive material and within which the hydrocarbons undergo cracking and also polymerization, maintaining a body of the hydrocarbons in liquid phase within the lower portion of said body of adsorptive material, subjecting mixed liquid and vapor fractions of the hydrocarbons to intimate contact and agitation within an extended height of the material above said body of liquid hydrocarbons by introducing said hydrocarbons from the cracking zone directly into the body of liquid hydrocarbons so that the liquid fractions are upwardly displaced by the vapors to constantly wash the material in the presence of vapors undergoing conversion and constantly remove polymers being formed, removing the vapors from said reaction zone and condensing them to produce gasoline, and separately withdrawing from said body of liquid hydrocarbons, unvaporized residual oil and its contained polymers.

2,319,927
SUCTION NOZZLE
Erik Oskar Helge Hansson, Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application September 25, 1940, Serial No. 358,230
In Sweden September 25, 1939
6 Claims. (Cl. 15—157)



1. In a vacuum cleaner suction nozzle, an elongated body member including a pair of lengthwise extending spaced walls providing surface-contacting lips, said lips being formed with transversely extending grooves, said body member having its end portions providing gliding surfaces spaced from the ends of the grooved lips, and means for connecting the channel between said walls with a source of suction, said body member being formed with recesses in said lips of a size to provide flow of a larger volume of air than can pass through said grooves when the nozzle is in operative position, said recesses being located between the ends of said grooved lips and said gliding surfaces for providing relatively unrestricted communication between the atmosphere and the ends of said channel when the lips and gliding surfaces are in contact with an object to be cleaned.

2,319,928
DRINKING CUP FOR FOWL
Harold W. Hart, Glendale, Calif.
Application March 15, 1941, Serial No. 383,599
5 Claims. (Cl. 119—75)



1. A drinking device for fowl including a cup, a valve body having means at one end for connecting it with a source of water supply, and at its other end connected through the side of said cup, intermediate its top and bottom, a valve seat in said valve body, a valve element seated in said valve seat and projecting therefrom into the interior of said cup to be engaged by the beak of a fowl, an annular valve seat within said valve body, a second valve element of flexible material wholly within said valve body and seated upon said valve seat with a central part thereof extended through said valve seat toward and adjacent said first valve element, said second valve element being held closed by water pressure, the central part of said second valve element being movable by said first valve element, when the latter is moved into engagement therewith by the fowl.

2,319,929

TREATING NATURAL OILS AND FATS

Harold D. Hoffman, Park Ridge, and Albert H. Zeigler, Evanston, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application November 22, 1940, Serial No. 366,706
7 Claims. (Cl. 260—418)

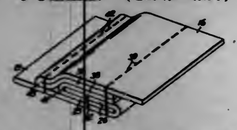
1. In a process for treating natural oils and fats, the steps of saponifying the mass with an alkali to form soap, graining the soap with an aqueous solution of a substance of the class consisting of salts and alkalies, drawing off the solution and the solubles therein and recovering the settled soap, acidulating the settled soap to free the fatty acids, and distilling the fatty acids.

2,319,930

OVERALLS AND OTHER GARMENTS

Frank H. Homoelle, London, Ohio

Application January 9, 1942, Serial No. 426,143
6 Claims. (Cl. 2—227)



1. A seam for the crotch of overalls, pajamas, shorts and the like extending from the button stand rearwardly comprising infolded edges on adjacent panel sections extending from the button stand rearwardly, one of said edges being positioned upon the other of said edges to form a lap seam, a re-enforcing strip disposed within said seam having a portion thereof engaging the button stand and extending from the button stand rearwardly through the seam, said re-enforcing strip having one edge thereof positioned between one of said panels and the infolded edge thereof and the opposite edge positioned on top of the infolded edge of said panel, the infolded edge of the opposite panel being positioned upon the re-enforcing strip, the fold of said last mentioned infolded edge extending beyond the fold of said re-enforcing strip into engagement with the first mentioned panel, and rows of stitching in the seam extending throughout the length of the re-enforcing strip, one of said rows of stitching extending through and joining the infolded edges of said panels and said re-enforcing strip, another of said rows of stitching extending through the fold edge of the upper lap panel and the body of the lower panel to join the same.

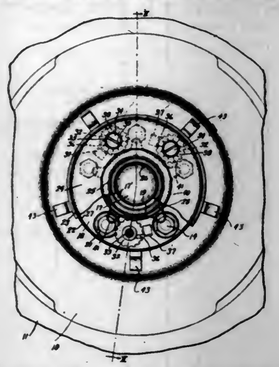
2,319,931

AUTOMOBILE WHEEL LOCKING ASSEMBLY

Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application April 4, 1942, Serial No. 437,625
6 Claims. (Cl. 70—259)

1. A locking assembly for an automobile wheel of the type disclosed, comprising a keeper element having bolt holes for receiving the bolts which secure the wheel to its hub structure and which has an outwardly extending flange surrounding the outer end of the hub structure, a locking cover element having an outwardly extending flange surrounding the flange on said keeper element, a ring secured to the inner side of said flange on the locking cover element and a ring secured to the outer side of the flange on said keeper element, said rings having tongues thereon adapted upon partial rotation of said locking cover element to lock said element axially to said keeper element, and lock structure between said



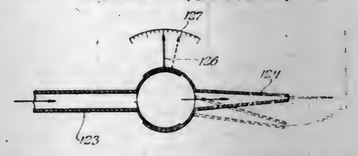
elements operable to lock said locking cover element against reverse rotation to thereby hold said rings in interlocking engagement.

2,319,932

MEASURING INSTRUMENT

Henry R. Jacobs, Evanston, Ill.

Application March 5, 1942, Serial No. 433,423
3 Claims. (Cl. 264—1)



1. An accelerometer device adapted for support by a vehicle, said device comprising means for directing a stream of liquid along a predetermined path, at an angle to a direction in which said vehicle is adapted to move, whereby when said vehicle is subjected to a speed change in said direction of movement, said stream will be caused to deviate from its said path, a pivotally supported tube shaped to frame said stream, whereby deviation of said stream causes a corresponding deviation of said tube, and means for measuring the relative position of said tube whereby to determine the rate of speed change of the vehicle.

2,319,933

PROCESS OF MAKING ADHESIVE TAPES

Earl G. Kerr, Leonia, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York

No Drawing. Application May 25, 1940, Serial No. 337,200
2 Claims. (Cl. 117—122)

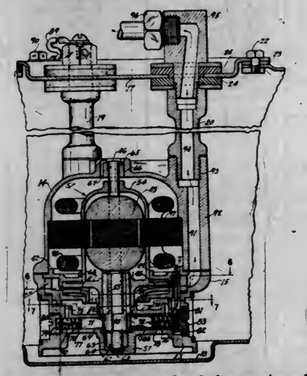
1. A process of making substantially permanently tacky, pressure-sensitive tape which comprises heating together from 1 to 20 parts by weight of paracoumarone resin of a softening point not substantially above 50° C. (ring and ball) and 1 part by weight of chlorinated rubber having a chlorine content of from about 65 to 70 per cent, and applying this blend consisting substantially entirely of paracoumarone resin and chlorinated rubber in heat-liquefied condition substantially free from volatile solvent to a flexible backing.

2,319,934

ELECTRIC FUEL PUMP

Alfred C. Korte and Kenneth Lannert, St. Louis, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Original application August 23, 1939, Serial No. 291,588. Divided and this application August 2, 1940, Serial No. 349,642
9 Claims. (Cl. 103—87)



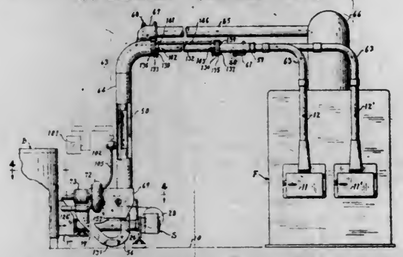
7. In combination, an electric motor including a rotor, a stator, and a commutator and brushes, a pump impeller on said rotor, a casing enclosing said motor and impeller and having fluid inlet and outlet port means, and means for arresting flames propagated from said commutator and brushes comprising a cylindrical pocket in a wall of said casing receiving said commutator, a cylindrical shoulder on said rotor closely fitting within the open end of said pocket and substantially closing the same, a recess on the casing wall adjacent said inlet port means, and a rib extending deeply into said recess and spaced from the walls thereof, said substantially closed pocket and said recess and rib forming a restricted, tortuous flame arresting communication between said commutator and said port means.

2,319,935

AUTOMATIC STOKER

Nathan M. Lower, Erie, Pa.

Application April 28, 1939, Serial No. 270,619
27 Claims. (Cl. 110—104)



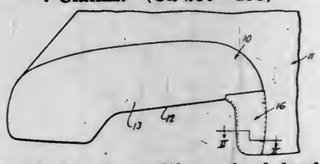
1. A stoker for a furnace including a fuel tube extending from a source of fuel supply to the said furnace, a conduit leading from a source of hot gases, said conduit enclosing a substantial portion of the length of said fuel tube, and means for creating a current of hot gases through the enclosing portion of said conduit from said source of supply and discharging all of said hot gases into said fuel tube for pneumatically conveying the fuel through said enclosed portion of said tube to the furnace.

2,319,936

FENDER SCUFF PLATE

George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Detroit, Mich., a corporation of Delaware

Application August 8, 1941, Serial No. 405,929
7 Claims. (Cl. 280—153)



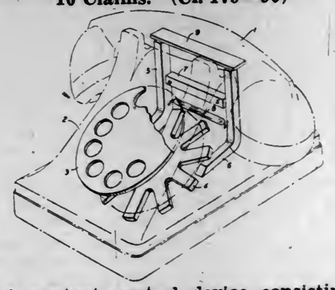
1. The combination with a wheel fender having an outer side wall and a curved forward wall which gradually merges into said side wall, said side wall having a wheel opening therein, of a scuff plate of slightly resilient sheet metal material arranged to extend over a portion of the forward wall and around over an adjacent portion of the side wall, said scuff plate being formed to snap into engagement with said fender, and having supporting and securing means including concealed resilient fingers for yieldably retaining it in engagement with said fender and which fingers are rendered effective by the act of shoving said plate into position on said fender so that said plate is resiliently retained in place by said fingers.

2,319,937

SWITCHING CONTACT

Robert C. Mathes, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 15, 1941, Serial No. 383,563
10 Claims. (Cl. 179—90)



10. A contact control device consisting of a magnetic circuit including a source of magnetomotive force, magnetically operated circuit contacts normally operated by said source of magnetomotive force and means for sufficiently diverting the field from said contacts to cause their release, said means consisting of a mechanically movable element permanently associated with and mounted in cooperative relationship with the said other elements of said magnetic circuit for repeatedly interposing a path of low reluctance in said magnetic circuit for creating a corresponding train of impulses, said mechanically movable element being arranged and adjusted to interpose a path of low reluctance in said magnetic circuit at a rate in the order of ten to twenty times per second.

2,319,938

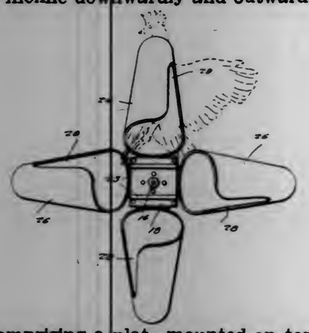
POULTRY RESTRAINING DEVICE

Obert D. Markins, Harrisonville, Ohio

Application March 3, 1942, Serial No. 433,220
2 Claims. (Cl. 119—97)

1. In a poultry restraining device, a post struc-

ture, clamps on the lower end of said structure for attaching the structure in upright position to a support, a frusto-conical poultry holding sleeve, and means to mount said sleeve on said post structure in laterally offset relation thereto and to incline downwardly and outwardly therefrom comprising a plate mounted on top of said post structure, a U-shaped, rod-like bail having oblique end portions attached to said plate and a bight portion inclining downwardly and outwardly from said plate and fixed to one side of said sleeve.



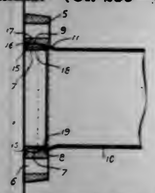
2,319,939

JOINT FOR EXHAUST PIPES

Roscoe I. Markey, East Orange, N. J., assignor to Pollak Manufacturing Company, Arlington, N. J., a corporation of New Jersey

Application July 10, 1942, Serial No. 450,462

2 Claims. (Cl. 285—91)



1. A joint for an exhaust pipe, said joint comprising a rugged flange adapted to be secured to an engine cylinder, the inner periphery of the opening in said flange being substantially straightaway for about one half of its depth and merging into a portion curved in the arc of a circle and tangent with said straightaway portion so as to form a socket, a bell end on the exhaust pipe, the curvature of the bell end coinciding with the curvature of the socket, and a ring inserted in the bell end of the exhaust pipe, said ring having a straightaway portion in close proximity to the straightaway portion of socket and terminating in a curved portion contacting with the interior of the bell end of the exhaust pipe and the curvature of which coincides with the bell end of the exhaust pipe.

2,319,940

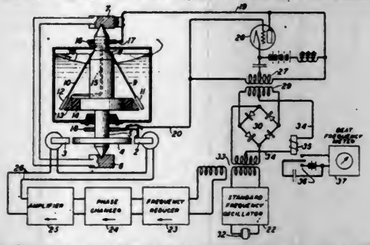
GRAVITATIONAL FORCE MEASURING APPARATUS

Warren A. Marrison, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 12, 1939, Serial No. 294,511

16 Claims. (Cl. 265—1.4)

1. A device for indicating gravitational effects comprising a rotating element, constant speed means for driving said element, a column of liquid carried by the rotating element near its axis of rotation, a second column of liquid carried by the element at a peripheral point remote from the axis, a liquid conveying conduit connecting



the columns, and means responsive to the difference in heights of said columns when the element is rotating for indicating the gravitational force exerted upon the liquid.

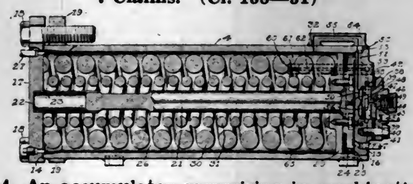
2,319,941

BRAKE CONTROL MECHANISM

Donald L. McNeal, Wilkinsburg, Pa.; Ruth H. McNeal, executrix of said Donald L. McNeal, deceased, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application July 31, 1941, Serial No. 404,813

7 Claims. (Cl. 138—31)



4. An accumulator comprising in combination, a cylinder, a pressure head closing one end of said cylinder, a non-pressure head closing the opposite end of said cylinder, a piston slidably mounted in said cylinder and having one side cooperating with said pressure head to form a pressure chamber adapted to receive liquid under pressure from a liquid supply pipe; spring means interposed between said non-pressure head and the opposite face of said piston governing the degree of liquid pressure in said pressure chamber, the chamber containing said spring means constituting a non-pressure chamber open to a liquid sump, a valve in said pressure head operative to open communication between said liquid supply pipe and non-pressure chamber, a check valve arranged to close communication between said pressure chamber and liquid supply pipe upon operation of said valve, a flexible diaphragm in said pressure head operative when subject on one side to liquid under pressure to actuate said valve, said piston being operative upon a chosen degree of movement by liquid under pressure supplied to said pressure chamber to supply liquid under pressure therefrom to said one side of said diaphragm and for all lesser degrees of displacement to open said one side of said diaphragm to said non-pressure chamber, the liquid vent communication from said valve to said non-pressure chamber, and the liquid supply communication to said one side of said diaphragm each comprising a passage in said pressure head, a port in said cylinder open to said non-pressure chamber, and a member secured to the exterior of said cylinder connecting the respective passage in said pressure head and port in said cylinder.

2,319,942

COAL SPRAY COMPOSITION

Clarke C. Miller, Edwardsville, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application December 26, 1940, Serial No. 371,791

11 Claims. (Cl. 44—6)

1. A coal spray oil composition comprising an oxygen-treated solvent extract prepared by treating an uncracked petroleum lubricating oil stock with a selective solvent to produce a substantially non-paraffinic extract and treating said extract with oxygen at temperatures within the approximate range of 300° F. to 550° F. for a time sufficient to effect a substantial increase in viscosity.

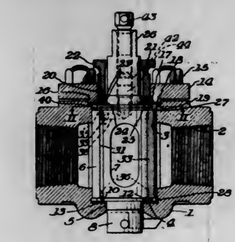
2,319,943

PRESSURE BALANCED PLUG VALVE

Sven J. Nordstrom, Lafayette, Calif., assignor to Merco Nordstrom Valve Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application August 17, 1940, Serial No. 353,075

6 Claims. (Cl. 251—93)



1. In a plug valve, a casing having a passageway therethrough for flow of fluid and having a bore transversely of the passageway, a plug rotatably positioned in said bore and having a port therethrough adapted to register with said passageway when the valve is in open position, annular shoulders at each end of the plug, stems extending from said shoulders and exposed to atmospheric pressure, abutting surfaces on said casing engaging said shoulders, said plug having reduced peripheral portions providing annular areas adjacent the peripheries of said shoulders, means for supplying lubricant under pressure to said reduced peripheral portions the projected area of said shoulders being equal and the projected area of said peripheral areas being equal whereby axial pressures on the plug are balanced.

2,319,944

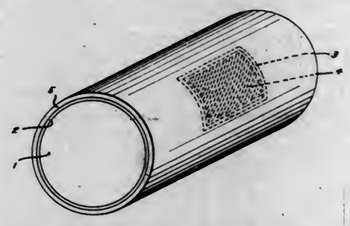
METHOD OF MAKING PRINTING MEMBERS

John J. Ormond, Boston, Mass., assignor of two-thirds to Joseph D. Ramsey, Boston, Mass.

Application June 30, 1941, Serial No. 400,424

6 Claims. (Cl. 41—43)

6. That improvement in methods of engraving which comprises providing a resist material of sufficiently thin consistency to permit its being offset from a transfer blanket to the surface of a printing member, offsetting selective amounts of the resist material on the surface of the printing member, applying a colloidal coating over the printing member and the selective amounts of resist material, said colloidal material, at all points, being of a uniformly limited absorptive character with respect to etching reagents, said coating further being effective in combining with the resist material to prevent, for a limited period of time, an etching reagent from attacking the surface of the printing member in those areas covered by the resist material.



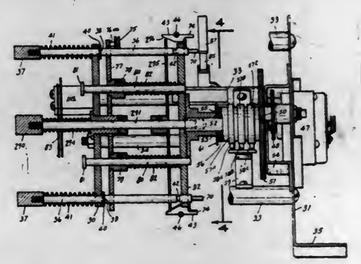
2,319,945

REMOTE CONTROL SYSTEM

Fred H. Osborne, Snyder, and Theodore M. Wright, North Tonawanda, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation

Application November 24, 1939, Serial No. 305,920

10 Claims. (Cl. 194—15)



9. In a remote control apparatus for a selective record playing musical instrument or the like having an impulse operated register device, a plurality of remotely controlled selector members each adapted when placed in a selected position to determine a selection to be rendered during one cycle of operation of said instrument, a plurality of corresponding manually operated locally controlled selector members similarly controlling the operation of said instrument, means controlled by said register device operable to determine the number of selections to be successively rendered as a group, and means automatically operated by said instrument during the cycle of the last selection of said group to return to a non-selected position all of said remotely controlled and manually operated selector members then remaining in selected position.

2,319,946

SELECTOR MECHANISM FOR AUTOMATIC PHONOGRAPHS

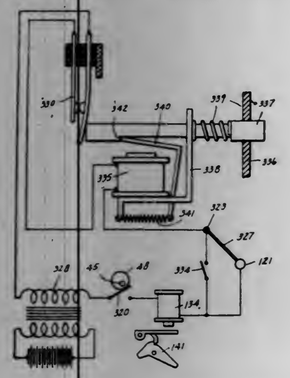
Fred H. Osborne, Snyder, and Charles J. Hull, Buffalo, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation

Original application April 11, 1940, Serial No. 329,070, now Patent No. 2,287,560, dated June 23, 1942. Divided and this application June 19, 1941, Serial No. 398,694

2 Claims. (Cl. 175—320)

1. A selector mechanism for automatic phono-

graphs including a plurality of record selecting switches, an electric circuit for each of said switches, a plurality of circuit controlling switches, one for each circuit, a movable member operable to progressively close said circuit controlling switches, means operable to drive said member, a spring pressed manually operable plunger associated with each of said selecting switches movable against spring tension to close



its said selecting switch, a solenoid in each of said circuits adapted to be energized upon its circuit being closed by movement of said member into position to close its controlling switch, and a latch associated with each of said plungers normally operable to retain its associated plunger in switch closing position and movable for the release thereof upon its associated solenoid being energized.

2,319,947

WEED CUTTER FOR OUTBOARD MOTORS

Elmer S. Oswood, Minneapolis, Minn.

Application April 23, 1941, Serial No. 389,877

8 Claims. (Cl. 115—40)



4. A weed cutter in combination with a boat propeller including an arm-like member, a hole in said arm adapted to fit over the propeller shaft and adapted to be secured thereto by the nut which holds said propeller on the shaft, said arm-like member having cutting edge means adapted to cut weeds in the rotation of the propeller.

2,319,948

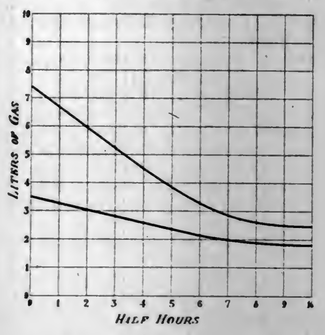
CATALYTIC PROCESS OF TREATING HYDROCARBONS

Edgar C. Pitzer, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application July 5, 1940, Serial No. 343,911

5 Claims. (Cl. 196—52)

1. The process of converting hydrocarbon oils into gasoline of high knock rating which comprises contacting the vapors of said oils at conversion temperatures with a catalyst consisting essentially of a major proportion of titanium



oxide in the form of a gel in combination with about 10 to 40% of aluminum oxide.

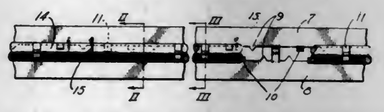
2,319,949

ROAD JOINT ROPE SEAL

Robert R. Robertson, Chicago, Ill.

Application February 19, 1942, Serial No. 431,476

11 Claims. (Cl. 94—18)



1. A road joint seal mechanism for embedding between concrete road slabs and comprising a pair of plates disposed in substantially the same plane opposite and separated from one another, a rope like seal member disposed between said plates, and means on said plates engaging and gripping the seal member to hold the same compressed to bulge the seal member outwardly beyond opposite sides of the plates for anchoring in the concrete slabs.

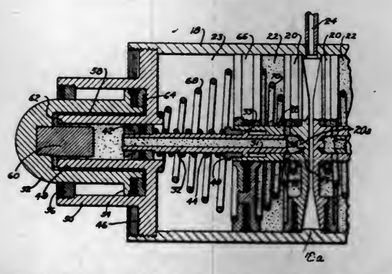
2,319,950

PNEUMATIC-HYDRAULIC PRESSURE DEVICE

Emil J. Schleicher, St. Louis, and Charles F. Frede, University City, Mo., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application January 18, 1940, Serial No. 314,432

21 Claims. (Cl. 60—54.5)



1. In a device of the class described, a chamber with a pair of movable pistons therein and opposing each other, one of said pistons being arranged to receive thrust from an external source and having a hollow stem slidable through the other piston, a hollow sleeve slidable in said stem and projecting through the end of said chamber, a cylinder with an end wall forming a wall of said chamber and surrounding the projecting end of said sleeve, a thrust delivering member in said cylinder, there being a noncompressible fluid between said pistons, and there being a passageway through said stem communicating with the hollow of said sleeve in release position, said sleeve and stem so arranged that said passageway is opened and closed by the relative movement of said piston stem and sleeve.

2,319,951

THERMOPLASTIC LIGNOCELLULOSIC PRODUCT AND METHOD OF MAKING THE SAME

Arlie W. Schorger, Madison, Wis., assignor to Burgess Cellulose Company, Freeport, Ill., a corporation of Delaware

No Drawing. Application January 24, 1940, Serial No. 315,381

12 Claims. (Cl. 260—10)

10. A comminuted material which is plastic during hot-molding operations comprising a compound of lignocellulose and a phenol, said natural compound being the product of cooking a subdivided natural lignocellulose at a temperature of approximately 150° C. to 250° C. for approximately 5 minutes to 3 hours in the presence of an acid-neutralizing agent, up to approximately 100% of water and 1% to 50% of a phenol, and water-washing said cooked material.

2,319,952

THERMOPLASTIC LIGNOCELLULOSIC PRODUCT AND METHOD OF MAKING THE SAME

Arlie W. Schorger, Madison, Wis., assignor to Burgess Cellulose Company, Freeport, Ill., a corporation of Delaware

No Drawing. Application February 19, 1940, Serial No. 319,690

11 Claims. (Cl. 260—10)

11. A dense, black, thermoplastic, resinous molded product having a specific gravity of at least 1.35 and a water absorption not greater than 10% when immersed in water at 20° C. for 24 hours, comprising the product resulting from the condensation of a natural lignocellulose with a phenol, said compound being the product of cooking at a temperature of approximately 150° C. to 250° C. for approximately 5 minutes to 3 hours a mixture consisting essentially of a subdivided natural lignocellulose, 5% to 25% of a phenol and approximately 15% to 50% of water, based on the weight of said lignocellulose, and washing and molding the heated mixture under heat and pressure.

2,319,953

HEAT STABILIZER FOR POLYMERS OF VINYL CHLORIDE

Winfield Scott, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 1, 1941, Serial No. 386,316

7 Claims. (Cl. 260—86)

1. A method of heat-stabilizing polymerized masses containing a polymer of vinyl chloride which comprises adding to the polymer one of the group consisting of the alkali metal, the alkaline earth metal and the lead phthalimides.

2,319,954

HEAT STABILIZER FOR VINYL COMPOUNDS

Winfield Scott, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Original application April 1, 1941, Serial No. 386,316. Divided and this application March 26, 1942, Serial No. 436,319

5 Claims. (Cl. 260—86)

1. A method of heat-stabilizing polymerized masses containing a polymer of vinyl chloride which comprises adding to the polymer one of the group consisting of the alkali metal, the alkaline earth metal, and the lead aryl sulfonamides.

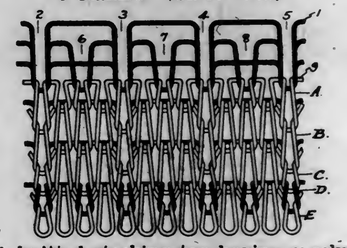
2,319,955

FABRIC AND METHOD OF KNITTING

William L. Smith, Jr., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application September 1, 1939, Serial No. 293,096

9 Claims. (Cl. 66—172)



3. A knitted stocking top having a selvage in which an elastic yarn has been incorporated to be threaded through certain of the sinker wales therein to prevent ravelling, knitted fabric in extension of said selvage with elastic incorporated to be held therein under tension, first at widely spaced wales through a plurality of courses and thereafter being incorporated at relatively closely spaced wales for an extended portion of said fabric.

2,319,956

PACKAGING PROCESS CHEESE AND THE LIKE

James E. Snyder, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

Application June 20, 1940, Serial No. 341,490

6 Claims. (Cl. 99—178)

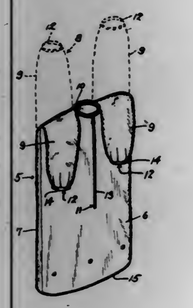


1. The method of packaging molten process cheese in a rubber hydrochloride film which comprises lining an outer rigid container with a rubber hydrochloride bag of the envelope type, running molten, process cheese into the bag, extending the upper ends of the bag outward to cause the top of the sides of the bag to come into flat contact with one another, folding the top edges of the sides of the bag to the top of the package without substantially changing the relation of the two sides of the top of the bag with respect to one another, and then applying heat through the surrounding atmosphere from above to unite the upper edges of the bag and form a tight seam while simultaneously heating the adjoining film which is in contact with the cheese without heating it to the heat-sealing temperature.

2,319,957
COATED PAPER
John K. Speicher, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 11, 1941, Serial No. 410,437
6 Claims. (Cl. 117—157)

1. A cellulosic sheet material carrying a wax-like, moisture-resistant, scuff-resistant, non-tacky surface coating, applied thereto without substantial impregnation thereof, of a fused composition having a melting point within the range of about 70° C. to about 150° C. and consisting of a wax and ethyl cellulose, the percentage of ethyl cellulose being in excess of 10% by weight but not more than 50%, and the percentage of wax being at least 50% by weight and less than 90% by weight, the ethoxyl content of the said ethyl cellulose being in the range from about 40% to about 55%.

2,319,958
SLEEPING BAG
Isabel Dittmer Taylor, Detroit, Mich.
Application July 12, 1941, Serial No. 402,221
1 Claim. (Cl. 2—114)



A sleeping bag comprising a body portion having a neck opening and slit therein, freely swingable arms extending from the upper extremity of the body portion with their outer side edges disposed in alignment with the outer side edges of the body portion and their inner side edges diverging from the neck opening and fastening means associated with the arms, slit and neck opening.

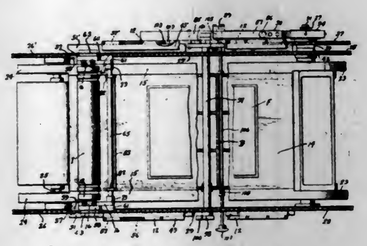
2,319,959
ADHESIVE
Hubert J. Tierney, Mahtomedi, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application February 19, 1941. Serial No. 379,639
10 Claims. (Cl. 260—4)

1. An adhesive composition comprising a polyisobutylene elastomer and a pale solid hydrogenated resin of the class consisting of hydrogenated indene resins, coumarone resins, dicyclopentadiene resins and combinations thereof, having a cloud point in a 20% solution in Stoddard solvent lower than 0° C., combined in proportions adapted to form a normally tacky and pressure-sensitive adhesive coating and dispersed in a volatile vehicle.

2,319,960
PROCESS FOR PRODUCING HALOGENATED CRESOLS
Cyril Stanton Treacy, Cranford, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application May 23, 1941, Serial No. 394,886
1 Claim. (Cl. 260—623)

The process comprising mixing aluminum powder with o-cresol in carbon tetrachloride, adding bromine, adding iron powder, and continuing the addition of bromine until sufficient bromine to produce tetrabrom-o-cresol has been taken up.

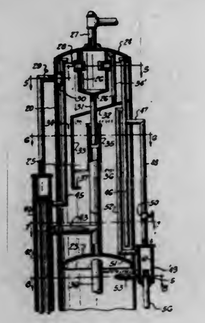
2,319,961
PROOF PRESS
Edward O. Vandercook, Kenilworth, and David D. Vandercook, Evanston, Ill., assignors to Vandercook & Sons, Chicago, Ill., a corporation of Illinois
Application April 13, 1942, Serial No. 438,702
5 Claims. (Cl. 101—270)



1. In a printing press of the type disclosed, the combination of the press bed, a carriage supporting a roll and movable on said bed for cooperation of the roll with the form of the bed, driving means for said carriage, a driving source, a clutch for connecting said driving source with said driving means, a rack bar on said bed, a toothed pawl on said carriage, means on said carriage tending to move said pawl into engagement with said rack, holding means on said carriage normally holding said pawl away from said rack, a guard element on said carriage extending in front of said roll, means effective upon displacement of said guard element during forward travel of said carriage for releasing said holding means for engagement of said pawl with said rack, means permitting limited movement of said rack with said carriage upon engagement of said pawl with said rack, and means rendered effective by such movement of the rack bar for disengaging said clutch.

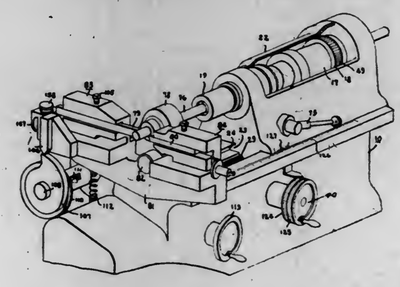
2,319,962
METHOD OF AND MEANS FOR TREATING AND/OR DEHYDRATING OIL, GAS, AND WATER MIXTURES, SUCH AS FLOW FROM OIL WELLS
Jay P. Walker, Tulsa, Okla., assignor of forty per cent to Guy O. Marchant and six per cent to C. G. Wells, both of Tulsa, Okla.
Application June 24, 1940, Serial No. 342,044
5 Claims. (Cl. 252—346)

5. The step in the method of treating oil emulsion fluids wherein water and emulsified oil are primarily separated and a stratum of water is provided above a heated body of washing water on which a body of hot oil is collected in heat exchange relation with the stratum of water, which includes flowing the hot oil in a segregated



path through the water stratum to cool said oil and condense liquefiable fractions therein.

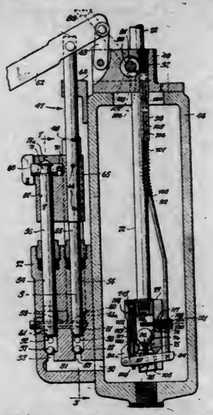
2,319,963
MANUALLY OPERATED SCREW MACHINE
Delbert I. Wilson and John Wesley Quinn, Dayton, Ohio, assignors to The City Engineering Company, Dayton, Ohio, a corporation of Ohio
Application June 29, 1942, Serial No. 448,900
17 Claims. (Cl. 82—2)



1. In a turning machine the combination of, a rotatable spindle mechanism for engaging and driving work stock and movable axially of the spindle, a work stock guide support for supporting the work stock as fed therethrough by said spindle mechanism, a turning tool movable substantially radially with respect to the axis of the work stock, and a constant rise cam for moving said work tool.

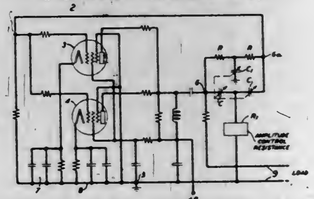
2,319,964
HYDRAULIC PRESS
Frank C. Wilson, Arcade, N. Y.
Application July 20, 1940, Serial No. 346,606
8 Claims. (Cl. 277—43)

1. Mechanism for controlling the release of fluid under pressure including a main valve, a pressure cracking valve, stems for actuating said valves, a lever, a pivot to which said lever is connected, and means for rocking said lever on said pivot about an axis normal to the plane of said stems to raise said valves off their respective seats, the stem which actuates the pressure cracking valve being located closer to said pivot than the stem which actuates said main valve, whereby the greatest leverage is applied to the



pressure cracking valve while maximum movement is transmitted to the main valve.

2,319,965
VARIABLE FREQUENCY BRIDGE STABILIZED OSCILLATOR
Raymond O. Wise, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 14, 1941, Serial No. 398,042
6 Claims. (Cl. 250—36)

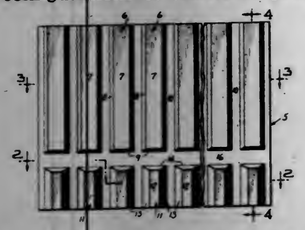


1. An oscillator comprising an amplifier, input and output circuit therefor, and a network between said circuits constituting the sole external coupling means therebetween, said network comprising a pair of symmetrical T-networks connected in separate paths between said circuits, one of said networks consisting of two series resistances and a shunt capacitance, and the other of said networks consisting of two series capacitances and a shunt resistance comprising, at least in part, in current responsive variable resistance amplitude limiting resistance element, said capacitances and resistances being proportioned to provide during normal operation maximum attenuation and reversal of phase at substantially the preassigned desired frequency.

2,319,966
MOLDED PULP ARTICLE
Guy S. Wood and Ralph A. Farnham, Herkimer, N. Y., assignors to International Paper Company, New York, N. Y., a corporation of New York
Application May 11, 1940, Serial No. 334,504
3 Claims. (Cl. 229—14)

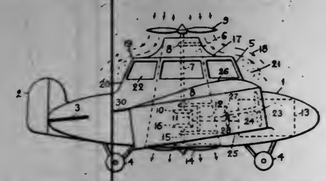
1. A wrapper formed from molded pulp for use in packaging generally cylindriform articles having flanges intermediate their ends, comprising a generally plane sheet having a series of

vertically disposed parallel upper projections extending above the plane of the sheet, a series of lower projections disposed in individual alignment with said upper projections and spaced therefrom, said upper and lower projections having the configurations of truncated prisms and



being disposed with the truncated ends thereof in opposed relation to thereby define a horizontally disposed groove adapted to receive the flange of an article with which the wrapper is to be associated, and a series of vertical score lines bisecting each aligned pair of upper and lower projections.

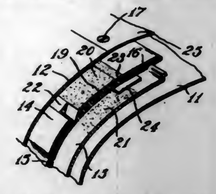
2,319,967
AIRSHIP
Julius A. Yavdynsky, New York, N. Y.
Application September 6, 1941, Serial No. 409,765
2 Claims. (Cl. 244—8)



1. An airship comprising a body having a vertically extending transverse opening converging toward the top, the diameter at the top being substantially smaller than at the bottom, upper and lower propellers of substantially the same diameter rotatively supported at the top and bottom openings; means to rotate the propeller in opposite directions, the lower propeller being positioned inside the opening, the top propeller being positioned outside the top opening and at a distance therefrom; the top opening being substantially smaller than the propellers so that only the inner portion of the top propeller can force the air stream into the opening, the outer portions of the propeller producing an airstream flowing downward over the upper portion of the body; and means on the body to produce vacuum by the flowing airstream.

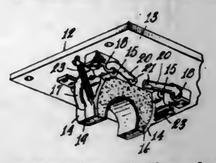
2,319,968
APPARATUS FOR PREVENTING THE ACCUMULATION OF ICE
Millard R. Bell, Cuyahoga Falls, and Charles S. Stebbins, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,488
6 Claims. (Cl. 244—134)

1. Means for preventing the accumulation of ice comprising inner and outer extensible sheets, means for attaching the same to a surface along a zone thereof, an inflatable element incorporated with said sheets in a portion spaced from the attaching zone by a stretchable area of said sheets, and a body of sponge rubber incorporated with the elastic sheets in said stretchable area in a manner providing a substantially uniform



thickness of the structure such as to provide a flush and even outer surface thereof.

2,319,969
BOTTLE LABELING MACHINE
Paul J. Besemer, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich.
Application November 24, 1941, Serial No. 420,253
2 Claims. (Cl. 216—55)

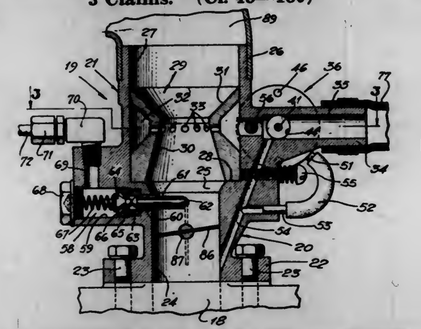


1. In an apparatus of the class described, a label pressing member comprising a base, a pair of hinged members hinged on spaced parallel axes on said base, a resilient pad overlying said base between said hinged members and said hinged members, a lever in operative relationship to each hinged member to swing said member toward the other hinged member, a holder opposed to said label pressing member adapted to hold a bottle or the like to present its side to said pad intermediate said hinged members, means for moving said label pressing member and said holder toward one another, and cam means mounted with said holder to engage said levers to swing said hinged members toward one another timed to engage said levers to thus swing said hinged members when a bottle or the like in said holder is contacting said pad to embrace the sides of said bottle and apply pressure to the sides thereof, said hinged members extending past the center of a bottle or the like in said holder.

2,319,970
REFINING OF COTTONSEED OIL
Ward J. Bloomer, Westfield, and Walter J. Zahniser, Bayonne, N. J., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application March 10, 1939, Serial No. 260,972
6 Claims. (Cl. 260—425)

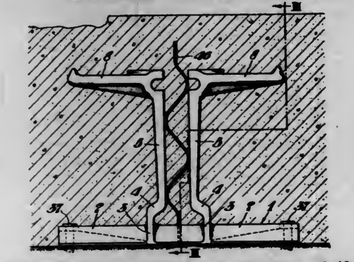
1. The method of refining cottonseed oil which comprises the steps of mixing the cottonseed oil with a proportionate amount of water such that the gums, resins and mucilaginous compounds are converted to oil insoluble material, thereafter continuously removing said insoluble material, blending said oil, free of said oil insoluble material, with substantially the theoretical amount of caustic alkali necessary to neutralize the free fatty acids in the oil, maintaining said oil and caustic alkali mixture in a thin film, under a sub-atmospheric pressure, and under a substantial centrifugal force for a period not substantially in excess of a second, thereafter settling said oil and soap stock to partially remove the soap stock, and subsequently centrifugally separating the partially settled oil to completely remove the soap stock.

2,319,971
FULL RANGE FUEL MIXER
Albert G. Bodine, Jr., Burbank, Calif., assignor to American Liquid Gas Corporation, Los Angeles, Calif., a corporation of California
Application September 26, 1941, Serial No. 412,420
3 Claims. (Cl. 48—180)



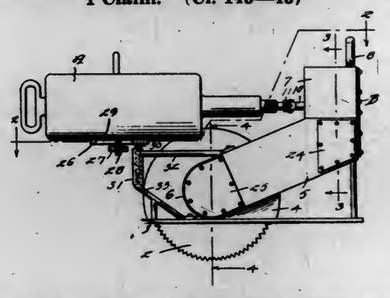
1. A gaseous fuel mixer, comprising a housing having a passageway therethrough connected at one end to the intake of an internal combustion engine, the opposite end being in communication with the atmosphere, means for introducing a normal charge of gaseous fuel into the flow of air drawn through said passageway to the engine, means for introducing an auxiliary supply of gaseous fuel into said air stream at higher pressure than that of the normal supply, a valve normally interrupting the flow of said auxiliary supply, a throttle valve for controlling the flow of fluid in the air stream, and operating means associated with the valve of the auxiliary fuel supply, whereby when the throttle valve reaches a full open position the auxiliary valve will be opened.

2,319,972
PAVEMENT JOINT
Alan E. Brickman, Monongahela,, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Original application November 19, 1940, Serial No. 366,307. Divided and this application October 6, 1941, Serial No. 413,877
4 Claims. (Cl. 94—17)



1. A joint for concrete pavement and the like, comprising a unitary base member adapted to underlie the joint and extend in opposite directions for a substantial distance beneath each slab, a pair of integral upright members carried by said base member so as to extend upwardly in substantial parallelism within the slab sections respectively adjacent each of the end faces of the latter, the upper extremity of each upright member being turned to penetrate for a substantial distance into its respectively proximate slab section in a substantially horizontal direction to provide firm anchorage and enable the upright members aforesaid to function as tension straps in the transverse transmission of applied loading on the surface of the pavement, and a vertically-extending member disposed between said upright members and terminating short of the surface of the pavement, said last-named member being adapted to form a predetermined cleavage line in the pavement under contraction conditions.

2,319,973
SAW ATTACHMENT FOR ELECTRIC DRILLS
Loren Broderhausen, Evansville, Ind.
Application January 5, 1942, Serial No. 425,705
1 Claim. (Cl. 143—43)

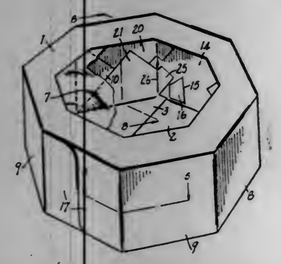


A saw attachment for an electric drill having a chuck comprising a base, a circular saw working through a slot in said base, a housing for said circular saw, a second housing for the saw driving means, said second housing comprising an upwardly inclined portion arranged with its lower end resting on the base, and a vertical upper end portion, said saw driving means including a spiral gear journaled in the upper end portion of said second housing, a worm intermeshing with the teeth of said spiral gear, means including a universal joint for connecting the shaft of said spiral gear with the drill chuck, a sprocket and chain connection between the worm shaft and saw shaft and means for adjustably connecting the base and the lower end of the second housing to the drill casing.

2,319,974
CONTAINER
Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application December 26, 1942, Serial No. 470,142
4 Claims. (Cl. 229—41)

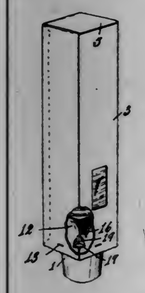
1. A box or container formed of a blank comprising an octagonal top member positioned intermediately of the blank, complementary bottom members positioned at the ends of the blank and coacting to provide an octagonal bottom, and side wall members disposed between said top and bottom members each comprising three side walls hingedly connected to each other, the central side walls of said side wall members being hingedly connected to corresponding edges of said top and bottom members, said top member and one of said bottom members having overlapping side wall members on their corresponding edges remote from their edges to which said side wall members are hingedly connected, the inner of

said overlapping side wall members being slotted to receive coacting locking tongues on the outer of said side wall members, said intermediate side wall members having coacting interlocking side wall flaps at the ends thereof overlapping the said coacting overlapping side wall members, the top and bottom members having joint flaps on their edges intermediate their edges to which said central side walls of said intermediate side wall



members are hingedly connected and their edges to which said overlapping side wall members are connected, said joint flaps being disposed in opposed overlapping relation within the end side walls of said intermediate side wall members when the box is erected, said joint flaps having opposed notches and hinged tab portions extending beyond said notches and in lapping relation to the said overlapping side wall members.

2,319,975
CUP DISPENSING CARTON
Kenneth Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application May 5, 1941, Serial No. 391,921
3 Claims. (Cl. 206—56)



3. A cup dispensing carton adapted as a container for a stack of nested cups comprising an elongated tubular body formed of fibrous carton stock, and a tubular cup retaining member also formed of fibrous carton stock having angularly disposed walls sleeved within said body at the lower end thereof and secured therein, said retaining member having reversely curved transverse slits at the corners thereof extending into the adjacent side walls and upwardly converging scores extending from the ends of the slits to points adjacent the corners, the portions of the retaining member bounded by said slits and converging scores being deflected inwardly into triangular downwardly inclined cup retaining detents permitting the withdrawal of cups one by one.

2,319,976
DEHYDROABIETINAL AND METHOD OF PRODUCING
William P. Campbell, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 11, 1942, Serial No. 454,457
6 Claims. (Cl. 260—97)

1. As a new composition of matter, dehydroabietinal.

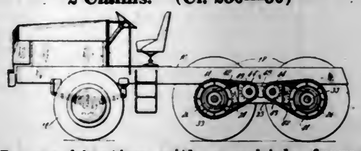
2. The method of producing dehydroabietinal which comprises reducing an acid halide of dehydroabietic acid.

2,319,977
METHOD OF FORMING HEAT RESISTANT FERROUS ALLOYS
Arthur T. Cape and Antone Gaxiola, Santa Cruz, Calif., assignors to Coast Metals, Inc., Canton, Ohio, a corporation of Ohio
Application May 26, 1942, Serial No. 444,526
17 Claims. (Cl. 219—10)



1. The method of applying a coating of a heat resistant ferrous alloy containing aluminum to an article which consists in feeding a wire or rod of the ferrous alloy minus the aluminum to an electric arc formed between the wire and the article, and simultaneously feeding aluminum in regulated amounts to such arc, aluminum being fed in such amount in relation to said wire or rod as to form more than 2% of the coating.

2,319,978
ROAD VEHICLE MOUNTING
Gustave A. Collender, Los Angeles, Calif.
Application September 30, 1940, Serial No. 359,127
2 Claims. (Cl. 280—80)

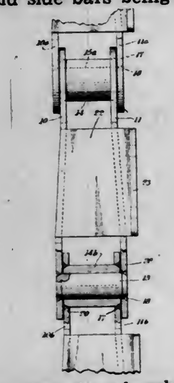


1. In combination with a vehicle framework associated with tandem sets of wheels that support a pair of full transverse axles, a pair of substantially rigid walking beams pivotally connected between their ends to the respective sides of the framework in such manner as to swing in parallel paths, and universal joints connecting the ends of said beams to the adjacent ends of said axles, said joints consisting entirely of metal parts and each comprising an internally cylindrical sleeve surrounding and keyed to its corresponding axle end and also keyed to its corresponding beam end, said sleeve and said beam end having complemental ball-shaped surfaces, and one of the keying means likewise being of spherical curvature so as to resist torque reactions without interfering with free tilting movement of the associated axle.

2,319,979
CONVEYER
Raymond R. Collins, Southport, Conn., and John A. Gibb, Northport, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application April 29, 1942, Serial No. 440,936
3 Claims. (Cl. 74—252)

1. A fabricated rigid link for a sprocket chain

comprising side bars, a transverse pin, and a transverse hollow thimble through which a similar pin is adapted to pass, said side bars being apertured at adjacent ends to receive the thimble and the pin, said side bars being welded to the



thimble and to the pin whereby the effective tensile strength of the link is materially increased, the said thimble terminating with the outer sides of the side bars and the said pin terminating with the outer sides of the side bars through which it passes.

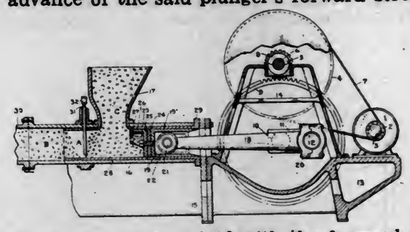
2,319,980
SAFETY RAZOR
Edmund L. Des Jardins, Chicago, Ill.
Application September 25, 1939, Serial No. 296,417
6 Claims. (Cl. 30—50)



1. In a safety razor, the combination with elongated correspondingly disposed cap and guard members and associated securing and registering means arranged intermediately and extending longitudinally of the longitudinal edges thereof, of at least two correspondingly disposed elongated blades having cutting edges at both longitudinal edges thereof and an elongated separator of normally flat flexible material disposed correspondingly therewith and therebetween secured between said cap and guard members and provided with securing and registering openings at their intermediate longitudinally extending portions for cooperation with said securing and registering means, said guard member, the blade next thereto, and said separator being provided with communicating scavenge openings arranged between both longitudinal edges thereof and said registering and securing openings and means and extending longitudinally of said cutting edges.

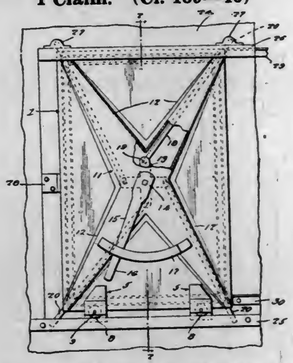
2,319,981
PUMP FOR CONCRETE AND THE LIKE
James H. Fitzgerald, Westfield, N. J.
Application December 3, 1941, Serial No. 421,462
5 Claims. (Cl. 103—153)

1. A piston or plunger, an elongated cylindrical pressure chamber in which the plunger reciprocates, power means for moving said plunger forward to drive the material to be pumped and backward therefrom, a feeding container for said material having a discharge opening into said chamber along the path of said plunger and between its forward and backward positions and adapted to discharge material into said chamber in advance of the said plunger's forward stroke,



a projecting member rigid with the forward end of the head of said plunger entirely within the extreme radial dimensions of the plunger constructed and arranged to pass said discharge opening in advance of said plunger and to cut off discharged material from the body of material in the container and close the opening.

2,319,982
DOOR
Charles A. Fralinger, East Chicago, Ind.
Original application May 15, 1941, Serial No. 393,615. Divided and this application August 30, 1941, Serial No. 409,085
1 Claim. (Cl. 189—46)

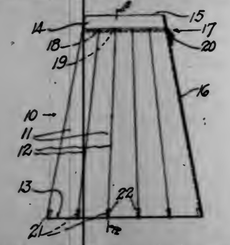


A composite refrigerator car door comprising a pair of inner and outer plates secured to each other extending entirely over a door opening the inner surfaces of said plates being in contact with each other over a major portion of their area, a plurality of bolts projecting from between the plates at the corners thereof, mechanism between said plates for simultaneously operating the bolts to extend them into and withdraw them from their locking position in cooperating fastenings, a handle on the exterior of one of the plates and connected to said mechanism, one of said plates being flat and the other plate having a raised portion to enclose the locking bolts and their operating mechanism.

2,319,983
CONVERTIBLE SKIRT, CAPE, AND UMBRELLA DEVICE
Sol Furman, Brooklyn, N. Y.
Application August 27, 1941, Serial No. 408,406
2 Claims. (Cl. 2—1)

1. A device including an umbrella frame com-

prising a collapsible generally radial frame mounted on a central shaft, a garment forming the sole cover for said frame and being mounted on the frame for removal for use as a garment, the latter having body fitting portions and having draw-string means mounted on one of said portions to cause the garment to snugly fit a part of the wearer's body, said draw string means

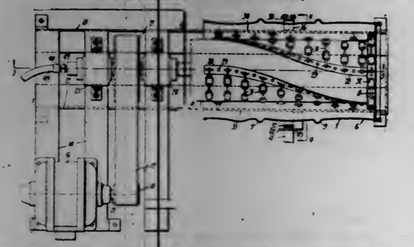


being located adjacent to but spaced from one end of the garment, elements detachably engaging the free ends of the ribs mounted on the other end of the garment, said draw string means being tightened around the base portion of the shaft with the garment overlying the ribs, the end portion of the garment adjacent to the draw string means extending beyond the latter toward the free end of the base portion of the shaft.

2,319,984
PHOTOGRAPHIC MATERIAL AND PROCESS FOR PRODUCING THE SAME
Béla Gáspár, Hollywood, Calif., assignor (to Chromogen, Incorporated, a corporation of Nevada
No Drawing. Application July 12, 1939, Serial No. 284,106. In Germany July 16, 1938
14 Claims. (Cl. 95—2)

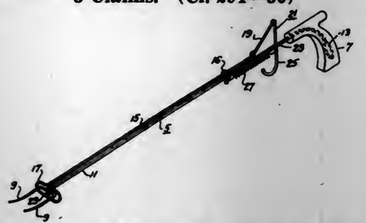
1. The method of producing a colored image in a silver halide emulsion layer, said layer being diffusely colored by a filter dye having a predetermined absorption and being in the form of an insoluble salt with a potential dye body, which comprises, exposing said layer to form a latent image therein, decomposing said insoluble salt to yield said potential dye body, converting the potential dye body into a dyestuff image corresponding to said latent image, and treating said layer to eliminate the absorption of said filter dye therefrom.

2,319,985
DRUM CLEANING MACHINE
Clarence Gerasci, Menlo Park, Calif.
Application June 17, 1941, Serial No. 398,424
7 Claims. (Cl. 15—91)



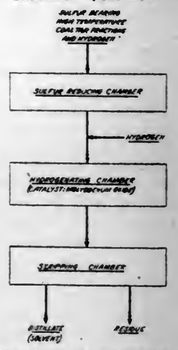
1. A drum cleaning machine comprising a frame including a pair of parallel angles constituting a drum support, a rotor journalled at one end only on said frame with its axis parallel to said angle and adapted to be disposed within a drum upon said support, means for rotating said rotor, and loose chains secured to said rotor and adapted to strike said drum under the influence of centrifugal force when said rotor is rotated.

2,319,986
FORK
Curtis O. Hanson, Berkeley, Calif.
Application April 6, 1942, Serial No. 437,918
5 Claims. (Cl. 294—50)



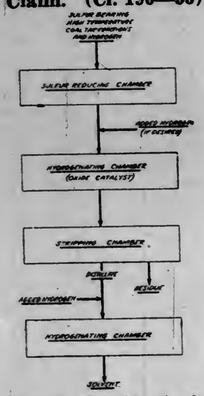
1. An ejector fork comprising a shank terminating at one end in a handle of the pistol grip type molded thereabout, and at its other end in a pair of spaced tines, a rod extending along said shank and formed at one end into a loop about said tines, spring means between said tines and said pistol grip type handle and within finger reach from said handle, said spring means normally urging said loop in the direction of said handle, said loop having its free end turned inwardly between the tines of said fork to engage in the crotch formed at the junction of said tines with said shank and cooperate therewith to limit the movement of said loop in said direction.

2,319,987
PRODUCTION OF REFINED SOLVENTS
Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia
Application August 14, 1940, Serial No. 352,667
1 Claim. (Cl. 196—53)



In the production of solvents from a mixture of sulfur-bearing high temperature coal tar fractions, the process which comprises: subjecting said mixture of tar fractions to the action of hydrogen with time, temperature, and pressure conditions so adjusted as to lower sulfur content of said tar fractions; thereafter subjecting said tar fractions of lowered sulfur content to the action of a flow of hydrogen of about 15,000 cubic feet per barrel material treated, in the presence of a molybdenum oxide catalyst at a pressure of about 300 atmospheres, a temperature in excess of 400° C., and with the time of reaction so adjusted as to reduce molecular complexes in said tar fractions whilst inducing newly formed low boiling fractions preponderantly of aromatic nature; and stripping the treated material to provide newly formed low boiling fractions as solvent material.

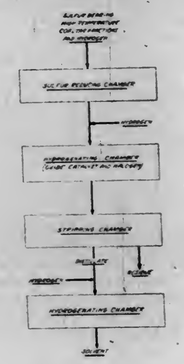
2,319,988
PRODUCTION OF SOLVENTS
Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia
Application August 14, 1940, Serial No. 352,669
1 Claim. (Cl. 196—53)



In the production of solvents from a mixture of sulfur bearing high temperature coal tar fractions, the process which comprises: subjecting said tar fractions to the action of hydrogen with time, temperature and pressure so controlled as to reduce sulfur content; subjecting said tar fractions of lowered sulfur content to the action of a relatively high flow of hydrogen whilst contacting an oxide catalyst, said hydrogen flow being selected from the range above 10,000 cubic feet per barrel material treated, at a pressure of at least about 250 atmospheres, and a temperature of at least 400° C.; carrying on the process for such a length of time as to provide a material of lowered specific gravity and viscosity; stripping low boiling fractions from the beneficiated material; and increasing the boiling points of at least a chosen portion of said stripped fractions by subjecting same to the action of a relatively low flow of hydrogen not in excess of about 8,000 cubic feet per barrel material treated whilst maintaining a pressure and temperature not substantially lower than about 200 atmospheres and 450° C., respectively, to produce a solvent.

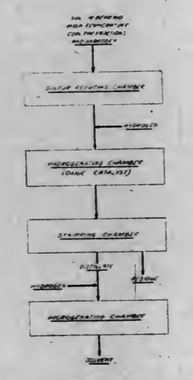
2,319,989
PRODUCTION OF SOLVENTS
Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia
Application August 14, 1940, Serial No. 352,670
1 Claim. (Cl. 196—53)

In the production of solvents from a mixture of sulfur bearing and oxygen containing high temperature coal tar fractions, the process which comprises: subjecting said tar fractions to the action of hydrogen with time, temperature and pressure so controlled as to reduce sulfur content; subjecting said tar fractions of lowered sulfur content to the action of a relatively high flow of hydrogen in excess of about 10,000 cubic feet per barrel material treated whilst contacting as catalytic materials an oxide of a metal and a material selected from the group consisting of halogens, halids and derivatives thereof including addition and substitution products thereof, at a pressure and temperature of at least about 300 atmospheres and 400° C., respectively; carrying on the process for such a length of time as to



provide a material of lowered specific gravity and viscosity; stripping low boiling fractions from the beneficiated material; and increasing the boiling points of at least a chosen portion of said stripped fractions by subjecting same to the action of a relatively low flow of hydrogen not in excess of 8,000 cubic feet per barrel material treated at a temperature of about 450° C. and a pressure of at least about 200 atmospheres, to produce a solvent.

2,319,990
PRODUCTION OF SOLVENTS
Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia
Application August 14, 1940, Serial No. 352,671
1 Claim. (Cl. 196—53)



In the production of solvents from a mixture of sulfur-bearing high temperature coil tar fractions, the process which comprises: subjecting said tar fractions to the action of hydrogen, with time, temperature and pressure so controlled as

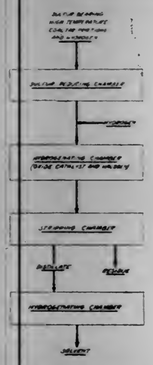
to reduce sulfur content; subjecting said tar fractions of lowered sulfur content to the action of a relatively high flow of hydrogen whilst contacting as catalytic material an oxide of a metal, said hydrogen flow being selected from the range above 10,000 cubic feet per barrel material treated, at a pressure and temperature of at least 300 atmospheres and 400° C., respectively; carrying on the process for such a length of time as to provide a material of lowered specific gravity and viscosity; stripping low boiling fractions from the beneficiated material; and providing in the stripped low boiling material an increment of fractions in the lower boiling range in excess of fractional increment in the higher boiling range by subjecting said stripped low boiling material to the action of a relatively low flow of hydrogen, a temperature and pressure of at least 300° C. and 50 atmospheres, respectively, to produce a solvent.

2,319,991

PRODUCTION OF SOLVENTS

Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia

Application August 14, 1940, Serial No. 352,672
1 Claim. (Cl. 196—53)



In the production of solvents from a mixture of sulfur-bearing and oxygen-containing high temperature coal tar fractions, the process which comprises: subjecting said tar fractions to the action of hydrogen with time, temperature and pressure so controlled as to reduce sulfur content; subjecting said tar fractions of lowered sulfur content to the action of a relatively high flow of hydrogen whilst contacting as catalytic materials an oxide of a metal and a material selected from the group consisting of halogens, halids and derivatives thereof including addition and substitution products thereof, said hydrogen flow being selected from the range above 10,000 cubic feet per barrel material treated, at a pressure and temperature of at least 300 atmospheres and 400° C., respectively; carrying on the process for such a length of time as to provide a material of lowered specific gravity and viscosity; stripping low boiling fractions from the beneficiated material; and providing in the stripped low boiling material an increment of fractions in the lower boiling range in excess of fractional increment in the higher boiling range by subjecting said stripped low boiling material to the action of a relatively low flow of hydrogen, a temperature and pressure of at least 300° C. and 50 atmospheres, respectively, to produce a solvent.

2,319,992

OPERATING TOOL FOR HIGH TENSION ELECTRIC LINES

David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Original application August 13, 1941, Serial No. 406,665. Divided and this application January 17, 1942, Serial No. 427,126
10 Claims. (Cl. 294—19)



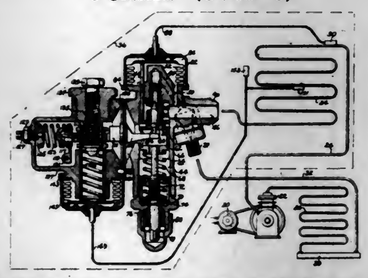
1. An extensible tool for transmission lines, comprising a pair of telescoping sections of tubular insulating material, the smaller of said sections being adapted to slide into the larger of said sections, and a latching mechanism between said smaller and larger sections, comprising a guide carried by said smaller section, resilient means in said guide, a latching member slidably mounted in an aperture of said smaller section and engaged by said resilient means, and oppositely located shoulders on said larger section for engaging said latching member, said oppositely located shoulders comprising an end portion of said larger tubular member and an inwardly extending flange carried by a ferrule fixedly secured to said larger tubular member.

2,319,993

REFRIGERATING APPARATUS

Daniel L. Kaufman, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 28, 1940, Serial No. 363,072
5 Claims. (Cl. 62—8)



1. Refrigerating apparatus including a medium to be cooled, an evaporating means for cooling the medium, an expansion valve for controlling the flow of refrigerant into the evaporating means, said expansion valve including thermostatic and pressure normal control means effectively responsive to the pressure of the refrigerant in the evaporating means and to the temperature at the outlet of the evaporating means for normally controlling the valve opening, said expansion valve including an independent additional snap acting control for closing the valve with a snap action independent of said normal control means, said additional control including a second thermostatic means responsive to the temperature of the medium and a third thermostatic means responsive to the temperature of the evaporating means.

2,319,994

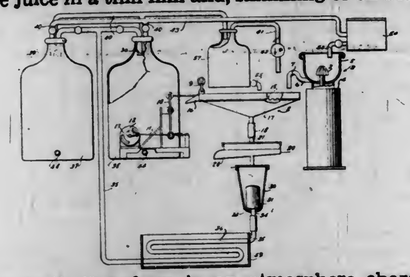
PROCESS FOR REFINING AND PRESERVING CITRUS FRUIT JUICES

William R. Ketchum, Phoenix, Ariz.

Application May 7, 1940, Serial No. 333,706
5 Claims. (Cl. 99—155)

1. The process of extracting and preserving

citrus fruit juices consisting of removal of juice from the fruit in an atmosphere heavily charged with carbon dioxide so that an appreciable amount of this gas is dissolved in the juice immediately after extraction, immediate rapid screening with a minimum of agitation flowing the juice in a thin film and, skimming of oil bear-



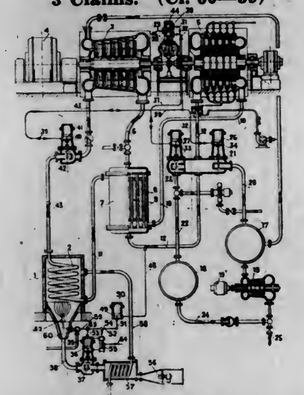
ing froth therefrom in an atmosphere charged with carbon dioxide, chilling the juice to a temperature between 40 degrees and 32 degrees Fahrenheit, while maintained under vacuum, and subjecting the juice to vacuum at said temperature until dissolved gases are drawn off and further removal of froth therefrom.

2,319,995

OVERLOAD WORKING METHOD FOR THERMAL POWER PLANTS

Curt Keller, Zurich, Switzerland, assignor to Aktiengesellschaft fuer Technische Studien, Zurich, Switzerland, a corporation of Switzerland

Application March 16, 1942, Serial No. 434,959
In Switzerland April 7, 1941
3 Claims. (Cl. 60—59)



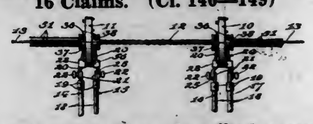
1. A method of working thermal power plants of the type in which a gaseous medium, preferably air, continuously describes a cycle under pressure above atmospheric and in which heat is supplied to the working medium from an external source of heat, and the working medium thus heated is caused to expand in a turbine while doing external work and is then recompressed in a compressor, and in which the temperatures and pressures stress the materials almost to their creep limits; said method comprising varying the density of the working medium approximately proportionately to the momentary power delivered externally whilst keeping constant the speeds of the turbine and compressor; simultaneously maintaining the temperatures at different points in the circuit substantially constant while the power plant operates within the normal load range; and during operation in the overload range, lowering said temperatures more and more as the overload increases.

2,319,996

TOOL FOR APPLYING ARMOR TO TRANSMISSION LINE CONDUCTORS

Lowell J. Kerby, Owosso, Mich., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application September 24, 1941, Serial No. 412,129
16 Claims. (Cl. 140—149)



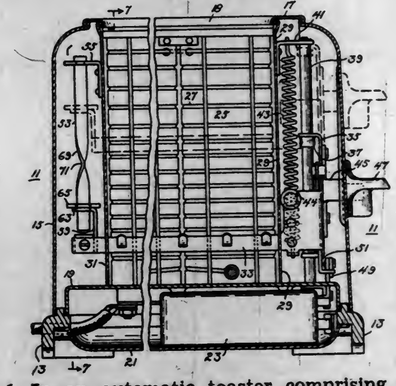
1. A tool of the class described comprising a twister head split on its longitudinal center line into individual sections hingedly connected together, a hub, a centrally disposed wire receiving opening in said hub, and a plurality of smaller openings surrounding said wire receiving opening in circumferential spaced relation, laterally projecting lugs mounted on both sides of the rim of the twister head, and grooves provided on said hub to accommodate a ratcheting tool.

2,319,997

SHOCK ABSORBER

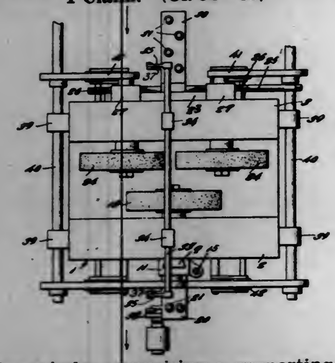
Murray Ireland, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware

Application February 5, 1942, Serial No. 429,632
3 Claims. (Cl. 53—5)



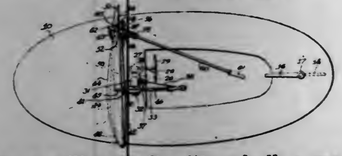
1. In an automatic toaster comprising toast heating elements, a bread carrier movable into toasting and non-toasting positions relatively to said toast heating elements and means to yieldingly bias the carrier in non-toasting position and to cause quick return of the carrier from toasting to non-toasting position, the improvement comprising shock absorbing means for the carrier when returning to its non-toasting position, said shock absorbing means including a partly twisted bar of non-circular cross section supported in substantially fixed position on said toaster, a friction disk interengaging with said bar to be rotated thereby when moved longitudinally thereof and a flat friction member movable with said carrier supporting said friction disk and having frictional surface engagement therewith during upward movement of the carrier.

2,319,998
WIRE GRINDER
John H. Jaecker, Massillon, Ohio
Application July 31, 1941, Serial No. 404,903
1 Claim. (Cl. 51—88)



A wire grinder comprising a supporting structure, a pair of aligned tubes, for the passage of a strand of wire, journaled on said supporting structure, plates on the outer ends of said tubes, a shaft journaled on the supporting structure, arms fixed on said shaft, arms fixed on the plates, rods connected to the first and second-named arms for connecting the plates and the tubes for actuation in unison, means for oscillating the plates and the tubes, grinding wheels rotatably mounted on the supporting structure and engageable with the wire between the tubes, and means for actuating said grinding wheels.
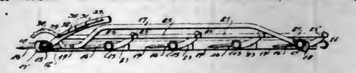
2,319,999
SAILBOAT
Richard V. Jennings, Ann Arbor, Mich.
Application December 13, 1939, Serial No. 308,901
5 Claims. (Cl. 114—39)



1. In a sailing craft with a hull, a mast supported by said hull, an arm pivotally mounted on said mast at a location remote from said hull, a substantially rigid main sail pivotally mounted on said arm, a flap sail mounted adjacent an edge of said main sail and hingedly mounted on said sail, rotary mechanism disposed remote from said arm for adjustably moving said flap sail relatively to said main sail, and a control member operatively connected to said mechanism, said control member being rotatable for positioning said flap sail relatively to said main sail and movable longitudinally for positioning said main sail and flap sail relatively to said hull.

2,320,000
HARROW
Joseph Juliot, Pepin, Wis., assignor to Northern Wisconsin Manufacturing Co., Pepin, Wis., a corporation of Wisconsin
Application January 30, 1942, Serial No. 428,945
7 Claims. (Cl. 55—103)

1. In a collapsible harrow, a plurality of tooth bars successively linked together and having harrow teeth, a reach rod extending from the front to the rear of the harrow with couplings at its ends in which the tooth bars are partially rotatable, a member attached to each tooth bar, and



means for oscillating said members whereby the tooth bars are partially rotated, said means comprising a handle attached to one of the bars whereby its partial rotation communicates motion to the successive tooth bars.

2,320,001
FLOOR STRUCTURE FOR RAILROAD CARS
John S. Lundvall, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application December 26, 1940, Serial No. 371,665
8 Claims. (Cl. 105—422)



1. A structural member comprising a plurality of channel beams of substantially uniform U-shaped cross-section throughout their length and each having its two end portions straight and meeting at the center at an obtuse angle, said beams being alternately inverted and the adjacent sidewalls thereof being secured together.

2,320,002
PETROLEUM LUBRICATING JELLY
William A. Lutz, Oakmont, Pa., and John W. Pool, Akron, Ohio, assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application August 22, 1941, Serial No. 407,982
10 Claims. (Cl. 252—35)

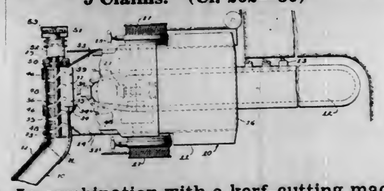
1. A thixotropic petroleum lubricating jelly, having improved viscosity-temperature characteristics and improved lubricating properties at low temperatures, consisting essentially of a mixture of a petroleum lubricating oil with a wax having a wax melting point above about 150° F., and having incorporated therein an amount of aluminum soap such that the ratio of soap to wax by weight is less than 1:1 but at least approximately 1:15, whereby the jelly is rendered substantially softer at low temperatures.

2,320,003
CURTAIN HANGER
Edward K. Madan, Maplewood, N. J.
Application March 19, 1941, Serial No. 384,043
6 Claims. (Cl. 16—87.8)



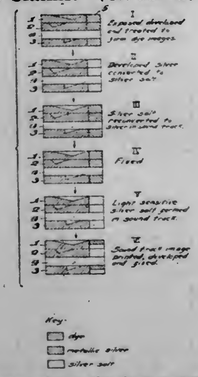
4. As a new article of manufacture, a hanger for curtains formed of a single piece of semi-elastic material and including an inverted hook for engagement over a supporting rod, an approximately flat grommet covering pendant formed integrally with said hook and depending from the lower end thereof, and a curtain engaging hook projecting laterally from one side of said pendant across the mouth of said inverted hook and having a cross-sectional area considerably less than the width of said pendant.

2,320,004
SLACK OR CUTTINGS REMOVING DEVICE
William T. McCullough, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 6, 1941, Serial No. 421,879
5 Claims. (Cl. 262—30)



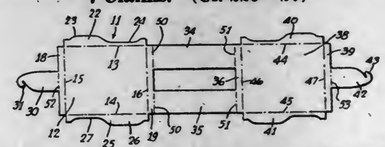
1. In combination with a kerf-cutting machine including a frame having a cuttings passage therethrough, a motor on said frame having a power coupling member adapted for detachable driving connection with a mining machine truck, a cutter bar having a cutter chain in said cuttings passage driven by said motor and adapted to carry the cuttings to the rear end of said cuttings passage, a screw conveyer disposed horizontally at the rear end of said cuttings passage with an opening in one side thereof in cuttings-receiving relation with the latter, and means detachably engageable with said power coupling member for driving said screw conveyer, and selectively movable out of engagement with the latter to permit driving connection of said motor with the mining machine truck.

2,320,005
PROCESS AND ARTICLE FOR USE IN THE MANUFACTURE OF COMBINED PICTURE AND SOUND FILMS
Walter Michaelis, Brussels-Forest, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated, a corporation of Nevada
Application July 12, 1939, Serial No. 284,107
In Germany July 13, 1938
9 Claims. (Cl. 95—2)



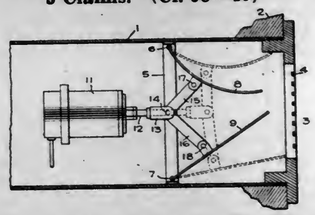
1. The process of producing a combined multicolor cinematographic and sound film from a multicolor picture film which has a series of multicolor pictures in the picture area suitable for projection and storage, and a silver deposit in the sound area only of said film, said deposit being of uniform density and area, which comprises converting said metallic silver within the sound area into a light-sensitive silver salt without affecting said multicolor pictures, printing the sound record into the sound area, developing the sound record and fixing the film.

2,320,006
CONTAINER
Francis Lee Moore, Phoenix, Ariz.
Application April 29, 1940, Serial No. 332,310
7 Claims. (Cl. 229—27)



1. A container comprising a pair of cases disposed one on top of the other, with the open faces of the cases toward each other, a strap interconnecting one end of one case with the other end of the other case, and another strap connecting the two remaining case-ends, one of said straps being composed of a tab extending from an end of one case, a tab extending from an opposite end of another case, and said tabs having interconnected portions.

2,320,007
DAMPER
Carl A. Otto, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 19, 1941, Serial No. 411,595
3 Claims. (Cl. 98—40)

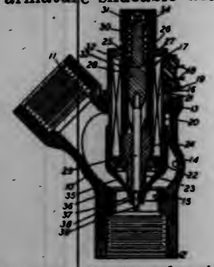


1. The combination of a duct having an open discharge end; two damper blades pivotally mounted at their leading edges in the terminal portion of the duct on parallel axes which extend transversely of the duct and which respectively are adjacent opposite walls of the duct, said blades extending from their axes toward the discharge end of the duct to form a nozzle-like discharge from the duct, one of said blades being curved to present a convex cylindrical surface toward the other blade and said other blade being formed to present a plane surface toward the curved blade; and actuating means arranged to impart related motion to said blades such that they swing simultaneously in opposite angular directions and approximately at the same angular rates toward and from one another.

2,320,008
SOLENOID OPERATED VALVE
Nathan C. Price, Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application April 18, 1941, Serial No. 389,218
2 Claims. (Cl. 137—139)

1. In an electrically controlled fluid valve, a body having suitable inlet and outlet passages, a valve chamber and a valve seat in said cham-

ber adjacent said outlet passage, a shell forming a stationary piston projecting into said valve chamber in spaced alignment with said valve seat, a cup-like valve member adapted in one position to engage said seat and guided upon said stationary piston, said valve member having sufficient clearance thereon to permit leakage of fluid into the interior thereof and having a central outlet passage for the release of fluid so leaking thereinto, a solenoid positioned in said shell, a non-magnetic sleeve within said solenoid, said sleeve having an internal shoulder intermediate the end thereof, a stationary magnetic armature secured to one end of said sleeve, a movable armature slideable within said sleeve



upon energization of said solenoid, said movable armature having an intermediate shoulder aligned with the shoulder in said sleeve when the armature is in its unenergized position, a coil spring having one end fixed relative to the armature and the other end cooperating with both said shoulders whereby to permit preloading of said spring, and a pilot valve carried by said movable armature and cooperating with the central outlet passage in said valve member to control the same, whereby the balance between fluid pressures inside and outside the valve member is adapted to be varied by energization of the solenoid with a resulting fluid actuation of the valve member.

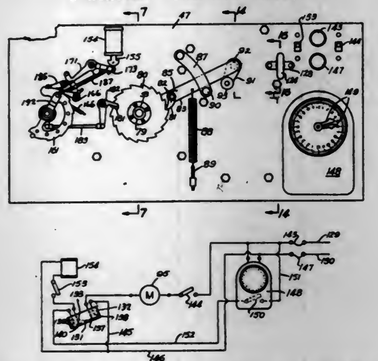
2,320,009
INORGANIC PLASTIC PRODUCT AND PROCESS OF PREPARING THE SAME
Anderson W. Ralston and Everett J. Hoffman, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application March 29, 1939, Serial No. 264,850
3 Claims. (Cl. 106—72)

1. The process of improving the plasticity of aqueous mixtures prepared from clay which includes the step of incorporating therewith small amounts of a primary aliphatic amine compound chosen from the group consisting of primary aliphatic amines and salts thereof having at least ten carbon atoms in the alkyl radical.

2,320,010
LIME AND PLASTER PRODUCT AND PROCESS OF PREPARING THE SAME
Anderson W. Ralston and Everett J. Hoffman, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Original application March 29, 1939, Serial No. 264,850. Divided and this application October 15, 1941, Serial No. 415,140
3 Claims. (Cl. 106—90)

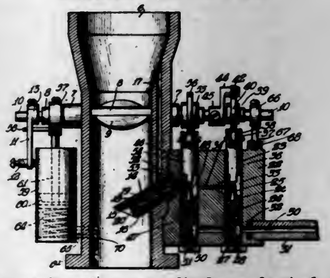
1. The process of improving the plasticity of aqueous mixtures prepared from inorganic solids chosen from the group consisting of lime and plaster of Paris, and like cementitious materials which includes the step of incorporating therewith small amounts of a primary aliphatic amine compound chosen from the group consisting of primary aliphatic amines and salts thereof having at least ten carbon atoms in the alkyl radical.

2,320,011
REPEATING MECHANISM
Damian L. Reynolds, Burlingame, Calif.
Application February 6, 1940, Serial No. 317,609
8 Claims. (Cl. 172—239)



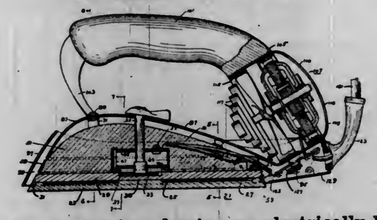
4. In a repeating mechanism, a rotatable assembly comprising a pair of relatively angularly adjustable arms carried by said assembly, a cyclic device for rotating said assembly from an initial position to a predetermined position, means for returning said assembly to its initial position, a motor for operating said cyclic device, and a circuit controller for the motor actuated by one of said arms for energizing the motor and by the other arm for deenergizing the motor, in response to rotation of said assembly.

2,320,012
CARBURETOR
Troy A. Riall, Silvis, Ill.
Application September 17, 1941, Serial No. 411,212
1 Claim. (Cl. 261—49)



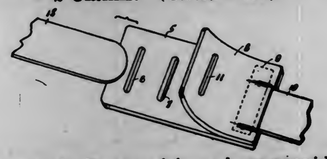
In a carburetor, a cylinder adapted for attachment to the intake manifold of an internal combustion engine, having a central down draft passage, a mixing nozzle in the wall of said cylinder near the lower end thereof, a throttle valve in said passage at a point above said nozzle, an air duct leading from the main air passage to said nozzle, for a continuous supply, a manually operable hollow throttle shaft rockingly mounted in said cylinder, a liquid fuel system connected with said nozzle, for supplying fuel under pressure to said nozzle, a primary taper valve in said feed system, a manually operable shaft rockingly supported in said hollow shaft, cam controls on said last named shaft for actuating said valve, a secondary taper valve control in said system, cam devices on the hollow shaft for actuating the secondary valve, an air cylinder communicating with the main air passage downstream of the throttle valve, and provided with controlling means operatively connected with the hollow shaft, and means limiting the movement of the hollow shaft with respect to the inner shaft and rendering the same subject to movement from the action of the manual operating devices.

2,320,013
ELECTRIC IRON
Frank W. Scharf, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application July 7, 1939, Serial No. 283,134
16 Claims. (Cl. 38—89)



5. An electric iron having an electrically heated member, a supporting frame secured to the heated member, a hollow housing secured to the supporting frame and out of direct heat-conducting relation with the heated member, a band secured to the supporting frame and spaced from the outside of the housing, and a fan carried by the iron and arranged to move air along the upper side of the housing and over parts of the supporting frame and between the band and the housing.

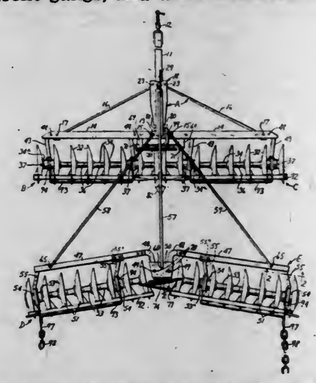
2,320,014
STRAP LOCK
Charles J. Schell, Cincinnati, Ohio
Application July 25, 1942, Serial No. 452,327
2 Claims. (Cl. 24—266)



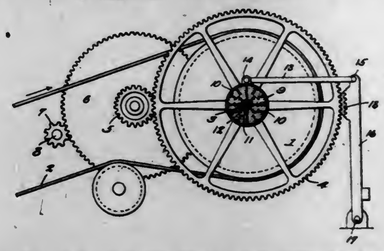
2. A strap lock comprising a base provided with an intermediate slot and with a slot adjacent a first end of the base, and a top member secured adjacent one end to the second end portion of the base, said top member adjacent its free end being provided with a slot, the free end of the top member extending substantially to the intermediate slot of the base, the strap lock adjacent the connected end portions of the base and top member being adapted to be secured to the end of a strap.

2,320,015
DISK HARROW
John P. Seaholm, Moline, Ill., assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware
Application May 31, 1940, Serial No. 338,076
14 Claims. (Cl. 55—83)

1. A tandem disk harrow comprising front and rear pairs of disk gangs pivotally connected at inner ends for angling adjustments, a draft frame connected to the front gangs, means on the draft frame for making angling adjustments of the front gangs, and draft members connecting the front and rear gangs, the said draft members including a centrally disposed member adjustably connected to the draft frame for adjusting the connected inner ends of the rear gangs in forward and rearward directions.



2,320,016
SAFETY DEVICE FOR ELEVATING EQUIPMENT
Nelson Severinghaus, Lithonia, Ga., assignor to Consolidated Quarries Corp., Decatur, Ga.
Application November 28, 1942, Serial No. 467,223
3 Claims. (Cl. 188—82)

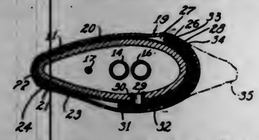


1. The combination with hoist mechanism including a rotatable shaft, a gear affixed to the shaft, and means for driving the gear, of a rack movably supported, and a fluid transmission including concentric relatively movable series of vanes between the shaft and the rack for holding the rack disengaged from the gear when rotating in one direction and for engaging the rack with the gear when rotated in the opposite direction.

2,320,017
APPARATUS FOR PREVENTING THE ACCUMULATION OF ICE
Alvin W. Spicer, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 12, 1940, Serial No. 345,147
7 Claims. (Cl. 244—134)

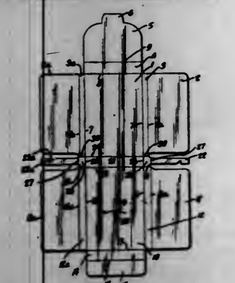
1. Apparatus for preventing accumulation of ice upon a surface, said apparatus comprising an inflatable element adapted in its uninflated, collapsed condition to occupy an area of said surface and to present an outer portion overlying said

area, said element being attached to said surface only in a zone located at one side of the center of said area to compel displacement of an outer portion of the element toward the side of



said area having such attachment as the element expands outwardly from said surface upon inflation thereof and means for inflating the element.

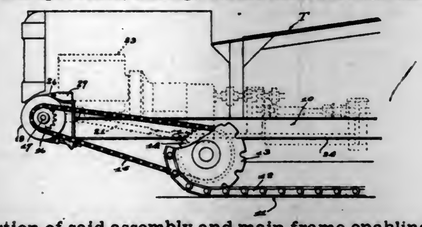
2,320,018
FOLDING BOX
Martin Ullman, New York, N. Y., assignor to The Atlas Underwear Company, Piqua, Ohio, a corporation of Ohio
Application April 8, 1941, Serial No. 387,494
2 Claims. (Cl. 229—16)



1. A blank for making a container, said blank comprising a bottom wall-member, said bottom wall-member having bottom wall-flaps turnably connected to the respective laterally outer longitudinal edges of said bottom wall-member, the laterally outer longitudinal edges of said wall-flaps having extensions turnably connected thereto, body-portions turnably connected to the respective lateral edges of said bottom wall-member, each said body-portion having side-wall flaps, turnably connected to its laterally outer longitudinal edges, each said side-wall flap having an inner-wall flap turnably connected to its laterally outer longitudinal edge, the lateral edges of said inner-wall flaps which are directly adjacent said extensions having straight-line portions which are longitudinally spaced from the respective lateral edges of said extensions by a distance which is equal substantially to one-half the longitudinal dimension of said bottom wall, the lateral edges of the side-wall flaps which are directly adjacent said bottom-wall flaps having straight-line portions which substantially abut straight-line parts of the lateral edges of said bottom-wall flaps.

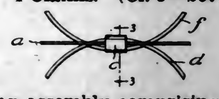
2,320,019
CRAWLER DRIVE MECHANISM
William G. Van Voorhis, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a corporation of Ohio
Application September 19, 1941, Serial No. 411,508
2 Claims. (Cl. 305—9)

2. The combination of a horizontally disposed main frame, a pair of laterally spaced crawler units providing traction for said frame, a drive mechanism for said crawler units including a power operated drive shaft, a transversely arranged unitary assembly, a universal joint providing a driving connection between said drive shaft and assembly, said assembly having a driving sprocket for each crawler unit, a driven sprocket operatively connected to each crawler unit, a chain connecting each pair of driving and driven sprockets, a hinge connection between one



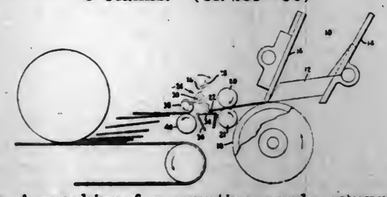
portion of said assembly and main frame enabling rocking movement of said assembly relative to the main frame about a horizontally disposed axis, and means adjacent another portion of said assembly providing a connection between same and said main frame for effecting the desired rocking of the assembly for regulating the chain tension.

2,320,020
SPRING MATTRESS AND THE LIKE
Lionel Selby Wallis, Birmingham, England
Application May 12, 1941, Serial No. 393,003
In Great Britain August 15, 1940
4 Claims. (Cl. 5—267)



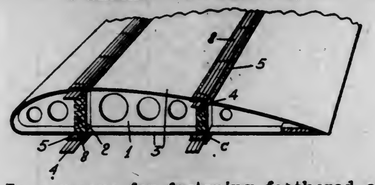
3. A spring assembly comprising a pair of adjacent upholstery springs having the top end coil of one spring overlapping that of the other, a wire extending over said overlapped parts substantially at right angles to a line joining the axes of the springs, a downwardly stepped portion on said wire entering between said parts, and a clip pivotally connected at one end to the upper spring coil and passing over said stepped portion of the wire and under the lower spring coil and being folded back up and over to form a closed member which encloses the overlapped parts of the spring coils and in which each of said parts can hinge freely.

2,320,021
COUNTING MECHANISM ACTUATOR
Nelson S. Welk, Athens, Ohio, assignor to The McBee Company, Athens, Ohio, a corporation of Ohio
Original application July 26, 1939, Serial No. 286,570. Divided and this application August 16, 1940, Serial No. 352,843
5 Claims. (Cl. 235—98)



1. A machine for counting cards comprising a counting mechanism, an actuator having a hub, a driving connection between said hub and said counting mechanism, a plurality of legs extending outwardly from said hub, the end of each said leg being offset to provide an overhanging card-receiving portion, the radially inward part of said overhang providing an abutment portion effective against the card during counting traverse thereof with increasing resistance to displacement of the card toward the axis of rotation of said leg, the radially outer part of the next circumferentially spaced leg having a smooth outer surface adapted to rest momentarily on the surface of said same card during the counting traverse thereof.

2,320,022
MEANS TO ACCELERATE SETTING OF GLUE
Theodore A. Wells and John P. Gaty, Wichita, Kans., assignors to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware
Application April 8, 1942, Serial No. 438,104
2 Claims. (Cl. 144—281)



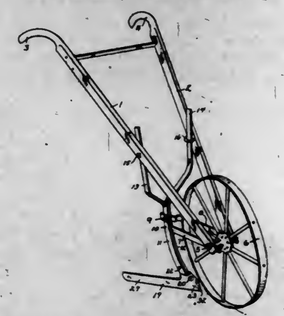
1. In a means for fastening feathered edged glued joints together and to accelerate the setting of the glue, a heating element to extend across the glued joints, electric power means to energize the heating element, a wood cleat as a retainer for the heating element and adapted to cover the same and nails driven through the cleat, heating element, glued joints and support for the joints to press the glued joints and heating element to snug engagement.

2,320,023
TORQUE MEASURING WRENCH
Herman W. Zimmerman, Highland Park, Ill., assignor to Automotive Maintenance Machinery Co., North Chicago, Ill., a corporation of Illinois
Application March 18, 1940, Serial No. 324,499
6 Claims. (Cl. 265—1)



1. A torque measuring wrench comprising a pair of relatively rockable members, one being adapted for engagement with the work, means yieldably opposing relative movement of said members, and means for indicating the pressure applied through said members which includes a movable indicating element carried by one of said relatively rockable members, an indicating element actuating member carried by said one member and adjustable with said element to one or the other of two initial operating positions, means for coupling said actuating member to the other of said relatively rockable members for movement of said actuating member thereby upon relative movement of said relatively rockable members, said coupling means having a pair of laterally spaced abutments adapted to be engaged by said actuating member when it is adjusted to either of its said initial operating positions so that relative movement of said relatively rockable members in a direction to move said actuating member toward the engaged abutment actuates said indicating element, the arrangement being such that said actuating member is moved away from and uncoupled from said abutment upon relative movement of said relatively rockable members in a direction the opposite of that employed to actuate said indicating element, and spring means for retaining said indicating element in its pressure indicating condition when said actuating member is uncoupled from the operative one of said abutments.

2,320,024
CULTIVATOR TOOL
Perle Jay Anderson, Portland, N. Y.
Application August 22, 1940, Serial No. 353,701
4 Claims. (Cl. 97—59)

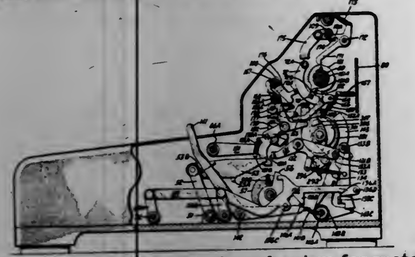


4. A cultivator tool for cultivators of the type comprising a ground wheel and a downwardly forwardly projecting tool standard; the tool comprising a forward crown adapted to be rigidly mounted on the standard; and the forward face of the crown being transversely convexly rounded and upwardly rearwardly inclined at an angle to the ground, and the lower portion of the crown having a forward point, and the crown, proceeding upwardly from the point, being forwardly concave; the tool having a blade body extending laterally from the crown; and the crown and blade body having a forward cutting edge which extends laterally rearwardly at generally an angle with the forward direction of travel of the tool and at an angle with the ground plane; and the blade body sloping upwardly rearwardly from the blade cutting edge at an angle with the ground plane; the said angles with the ground plane being considered with the tool point and ground wheel on the ground plane; the blade being substantially planar and its said angle with the ground being less than the said angular inclination of the crown with the ground plane; the blade body merging into the aforesaid crown substantially on a line in a vertical plane which is substantially parallel with the forward direction of travel of the tool, and adjacent to the crown.

2,320,025
CALCULATING MACHINE
Harold T. Avery, Oakland, Calif., assignor to Marchant Calculating Machine Company, a corporation of California
Application December 19, 1938, Serial No. 246,635
18 Claims. (Cl. 235—63)

1. In a motor driven calculating machine the combination with differential actuating mechanism, accumulating mechanism operable thereby, means for controlling the operation of said accumulating mechanism by said actuating mechanism, means for denominationally displacing said accumulating mechanism with respect

to said actuating mechanism, of automatic control mechanism including a series of differentially settable devices, means comprising primary and advance sensing elements sequentially shiftable by said displacing means into cooperative relationship with successive pairs of said devices, means for actuating the aforesaid operation controlling means to initiate operation of the accumulating mechanism by the actuating mechanism, means controlled by the primary sensing element of said shiftable means for causing the aforesaid controlling means to interrupt operation of the accumulating mechanism by the actuating mechanism, connections also controlled by said primary sensing element of said shiftable means for causing the aforesaid displacing means to effect denominational displacement of said accumulating mechanism with respect to said actuating mechanism, and means controlled by the advance sensing element of said shiftable means for disabling the aforesaid connections.



11. An automatic control mechanism for motor driven calculating machines, comprising a series of differentially settable devices, power operated mechanism for resetting said devices, means operated by power derived from the motor for initiating operation of said mechanism, settable means for rendering said power operated means ineffective to initiate operation of said mechanism, and means controlled by said settable means upon restoration thereof from set position for initiating operation of said mechanism.

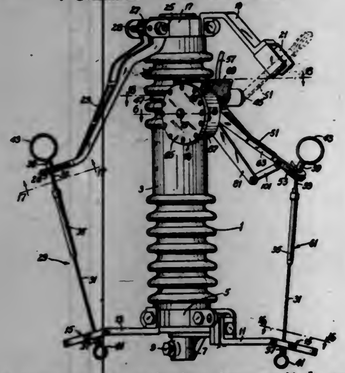
2,320,026

TIME-DELAY SWITCH RECLOSER

Theodore Birkenmaier, St. Louis, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri

Application November 14, 1940, Serial No. 365,578

7 Claims. (Cl. 200—126)



1. A time-delay reclosing fuse switch comprising two fuses, a rotary arm biased so as to connect one at a time of said fuses into a circuit and adapted to move under bias when said one fuse is removed from circuit to connect the second fuse into the circuit, a time-delay device comprising a liquid-containing body having an inwardly extending wall, a vane in the body rotary on a point near the inner end of the wall, the body having a pad portion relatively closely cooperating with the end of the vane throughout a limited angular operation of the vane, a check member rotary with the vane, and means coupling said check member with said biased rotary arm for movement therewith.

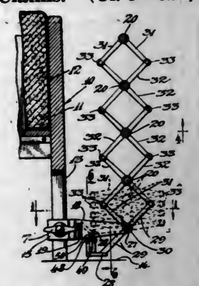
2,320,027

BED RACK

Henrietta Bradberry, Chicago, Ill.

Application November 28, 1941, Serial No. 420,791

5 Claims. (Cl. 5—321)



3. A device of the character described comprising, U shaped brackct support means provided with clamp means adapted to secure the said bracket support means to a bed, extensible and collapsible rack means comprising, a set of lazy-tongs mounted on each of the arms of the said U shaped bracket support means, and rod means interconnecting the said lazy-tongs structure, treadle means pivotally mounted on each of the arms of the said U shaped bracket support means and connected to the said lazy-tongs structure adapted to effect extension and retraction of the said lazy-tongs structure, and trip means mounted articulately on each of the arms of the said U shaped bracket support means adapted to maintain the said rack means in extended position.

2,320,028

CONVERTING PHOTOGRAPHIC IMAGES INTO COLOR

Percy D. Brewster, Holmdel, N. J.

No Drawing. Application July 3, 1940, Serial No. 343,747

7 Claims. (Cl. 95—88)

1. Process for converting a silver photographic image carried in a gelatin coating on a suitable support into a transparent dye mordant without substantial loss of definition which comprises impregnating said coating with a solvent for a gaseous bleach then treating said coating with said gaseous bleach.

2,320,029

9,9-DI-(γ-AMINOPROPYL)-FLUORENE

Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application April 4, 1942, Serial No. 437,678

1 Claim. (Cl. 260—578)

As a new compound, 9,9-di-(γ-aminopropyl)-fluorene.

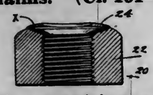
2,320,030

DIAPHRAGM LOCK NUT

Louis D. Danforth, Los Angeles, Calif., assignor of one-twelfth to Samuel Reginald Smith, two-twelfths to G. C. Lambert, three-twelfths to W. Reid Ferguson, four-twelfths to Henry A. Irwin, all of Los Angeles, Calif., and one-sixth to Aero Inventions Inc., Las Vegas, Nev., a corporation of Nevada

Application December 30, 1940, Serial No. 372,291

4 Claims. (Cl. 151—21)



2. A lock nut comprising a body having a threaded opening, a thin walled continuous annular diaphragm integrally joined with an end of the body and extending inwardly toward the longitudinal axis of the body from its line of joinder with the body at an acute angle to the end of the body, the diaphragm having an opening coaxial with the opening of the body, and a thread on the wall of the opening in the diaphragm in out of phase relation to the thread of the body, said out of phase relation causing the thin walled diaphragm to flex at said line of joinder and to warp adjacent its opening when the threads of the body and diaphragm are in cooperation with the thread of a bolt or the like.

2,320,031

LOCK NUT, INCLUDING A METHOD FOR ITS CONSTRUCTION

Louis D. Danforth, Los Angeles, Calif., assignor of one-twelfth to Samuel Reginald Smith, two-twelfths to G. C. Lambert, three-twelfths to W. Reid Ferguson, and four-twelfths to Henry A. Irwin, all of Los Angeles, Calif.

Application February 28, 1941, Serial No. 381,012

4 Claims. (Cl. 10—86)



1. The method of making a lock nut comprising temporarily securing a tubular metal body and tubular yieldable member against relative movement, simultaneously forming threads on the interiors of the body and member, shifting the member axially with respect to the body to move the threads out of phase relation, and then fixedly securing the member against axial displacement relative to the body to maintain said threads in out of phase relation.

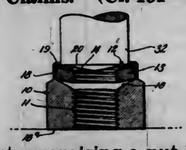
2,320,032

LOCK NUT

Louis D. Danforth, Los Angeles, Calif., assignor to Charles C. Akin, Los Angeles, Calif.

Application October 20, 1941, Serial No. 415,722

7 Claims. (Cl. 151—7)



1. A lock nut comprising a nut body having an opening, a thread on the wall of the opening, a fiber element on the body having an opening aligned with the opening of the body, a thread on the wall of the last named opening, and a dished spring member on the body cooperating with said element to yieldingly urge it to a position where the last named thread is axially offset from a helical line extending from the first named thread at the same helical pitch as the latter.

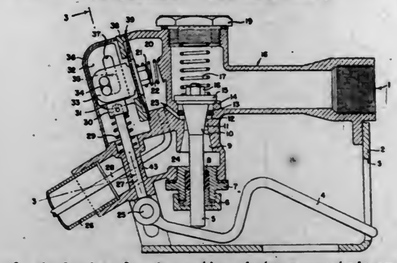
2,320,033

FILLING NOZZLE WITH AUTOMATIC SHUTOFF

Archibald H. Davis, Jr., Rock Island, Ill., assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware

Application April 24, 1939, Serial No. 269,578

11 Claims. (Cl. 226—127)



1. A device for insertion into a container to be filled with liquid comprising in combination a valve body having a fluid passage therein, a self closing valve in said body, manual means for opening said valve including a disengageable means to permit the closing of said valve even when said manual means is held actuated, a sliding member for holding said disengageable means in valve actuatable position and having a shoulder thereon transverse to the direction of sliding, a restraining member adapted to engage said shoulder to hold said sliding member in valve actuatable position, an actuator for moving said restraining member a diaphragm for actuating said actuator a chamber in the valve body closed by the diaphragm, a connection from the chamber to the fluid passage whereby the flow of liquid through said valve will create suction on said diaphragm, and an air inlet located near the nozzle outlet and connected to relieve the suction on said diaphragm.

2,320,034

METHOD OF PREPARING HALOGENATED CARBOXYLIC ACID ESTERS

James D. D'Ianni, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application December 4, 1940, Serial No. 368,505

4 Claims. (Cl. 260—487)

2. A method of preparing esters of dichloro carboxylic acids which comprises chlorinating an alkyl ester of the class consisting of the acrylates and the alpha alkyl-substituted acrylates while in solution and maintaining in the solution throughout the chlorination an excess of chlorine over that required to react with the ester.

2,320,035

REFRIGERATING APPARATUS

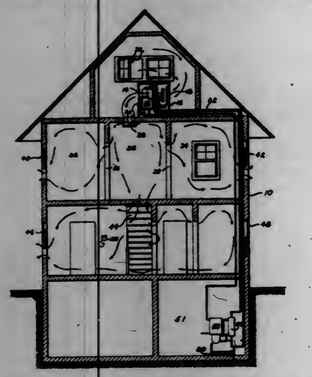
Richard E. Gould, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 29, 1940, Serial No. 363,318

7 Claims. (Cl. 62—129)

1. Air conditioning apparatus comprising in

combination, an evaporator, refrigerant liquefying means including a condenser for supplying liquid refrigerant to said evaporator, an air cooling coil, means for flowing a stream of liquid in thermal exchange with said evaporator and thereafter through said air cooling coil, means for



flowing liquid leaving said air cooling coil in thermal exchange with said condenser, a second air cooling coil, and means for flowing a second stream of liquid directly into said second air cooling coil and thereafter in thermal exchange with said condenser.

2,320,036

PROCESS OF PRODUCING NATURAL FRUIT JUICES AND OF ELIMINATING CANNERY WASTE

Roy Edward Harris, San Jose, Calif.

Application December 14, 1940, Serial No. 370,172
1 Claim. (Cl. 99—105)

A substantially continuous, straight-run process of producing natural fruit juices from fruit culls or cannery waste for use in adding to canned fruits, said process consisting of the steps of disintegrating fruit culls or macerating cannery waste in the presence of water to provide a fruit slurry containing comminuted pulp, pits and juices, introducing and intimately mixing a filter aid in said slurry of comminuted pulp, pits and juices, straining the mixture under relatively high pressure to express substantially all juice from the mixture, boiling the expressed juices in the presence of diatomaceous earth and activated carbon to precipitate colloidal foreign matter and then subjecting the precipitate to high pressure to enhance further precipitation of colloidal matter, filtering the juices and cooling the same to normal room temperature, adding an enzyme to the cooled juices and thoroughly agitating the mixture, allowing the mixture to settle for clarifying the juices, and then adding dry sugar to the clarified juices to the extent desired as an addition to canned fruit.

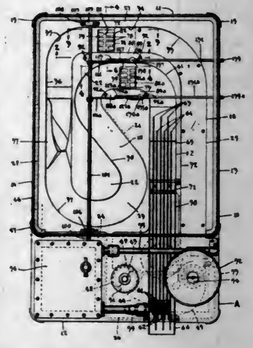
2,320,037

DOUGHNUT MACHINE

Walter G. Holmes, William R. Coyne, and Alexander S. T. Lagaard, Minneapolis, Minn., assignors to Dough-King, Inc., Minneapolis, Minn., a corporation of Minnesota

Application April 21, 1941, Serial No. 389,528
14 Claims. (Cl. 53—7)

1. In a doughnut machine in which the doughnuts are progressed along a way through the flow of the cooking liquid, a doughnut control member movable in opposite directions to control the travel of the doughnuts along the way, a link movable in opposite directions and connected to a part movable with said control member, a



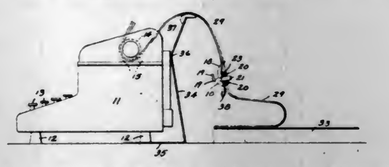
driving member movable in opposite directions, connecting means between said link and said driving member, and means for rendering said connecting means inoperable.

2,320,038

CARBON CONTROL FOR WRITING MACHINES

William H. Hope, Jr., Lewiston, N. Y., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y., a corporation of Delaware

Application June 11, 1940, Serial No. 339,874
11 Claims. (Cl. 197—126)



1. In an apparatus of the character described, in combination, a carbon sheet carrier having a carbon sheet support positioned to support a carbon sheet attached thereto in transfer relation with an assembly including continuous record strips in inscription position in the apparatus, said carrier being in the form of a separate floating supporting unit, wholly supported in operative position by said assembly and carbon sheet, a stop bar, and a cam device on said supporting unit cooperating with said stop bar to exert camming action on said supporting unit to move it to position so as to provide for the free passage of the record strips relative to said unit, and with reference to the carbon sheet.

2,320,039

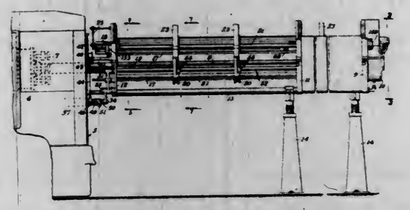
AUTOMATIC STOCKING MEANS FOR BAR MACHINES

Arthur H. Jobert, New Britain, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut

Application August 13, 1940, Serial No. 352,363
29 Claims. (Cl. 29—37)

1. In a device of the character indicated, a screw machine having an indexible spindle carrier, means for indexing the same, a stock reel indexible with said spindle carrier and having means for carrying bar stock in alignment with

each spindle, a magazine adjacent said stock reel, means for feeding bar stock from said magazine to said stock reel, means for automatically disengaging the feed clutch of said screw machine upon a run-out of stock in a spindle and between indexing movements of said spindle carrier,



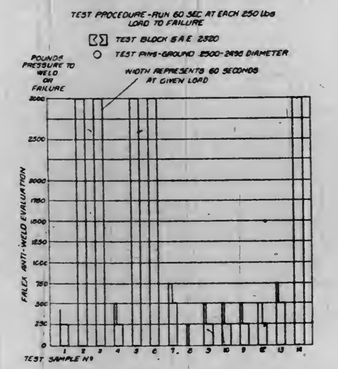
means for feeding a bar of stock from said stock reel to said last mentioned spindle while said feed clutch is disengaged, and means for automatically reengaging said feed clutch after completion of the stock feed from said reel to said spindle carrier.

2,320,040

STEEL PRODUCT AND METHOD FOR THE MANUFACTURE THEREOF

Henry Neuman Landis, Chicago, Ill., assignor to La Salle Steel Company, Chicago, Ill., a corporation of Delaware

Application April 11, 1940, Serial No. 329,011
16 Claims. (Cl. 148—12)



1. A method of producing an improved bar steel which comprises cold working a non-austenitic bar steel containing a normal pearlitic and ferritic structure at abnormally heavy drafts of the character described in this specification and then re-heating the bar to a temperature beyond the precipitation hardening range but below the temperature at which substantial recrystallization begins to occur.

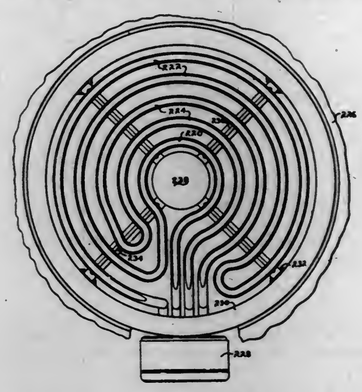
2,320,041

DOMESTIC APPLIANCE

Francis H. McCormick, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application July 5, 1940, Serial No. 344,018
1 Claim. (Cl. 219—37)

A multi-element surface heater of the tubular sheath type including a tubular double loop sheath element extending in a substantially circular fashion for nearly 360°, a second tubular sheath element having a single substantially circular loop portion within and in the same plane



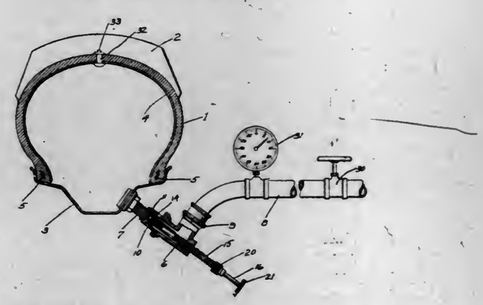
as the first element, said second element having a double loop second portion extending in a substantially circular fashion outside of and in the same plane as the first element.

2,320,042

TIRE FILLING MEANS

William W. McMahan, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application February 27, 1941, Serial No. 380,818
3 Claims. (Cl. 152—415)



1. An adapter for filling a tire with fluid which comprises a housing, means for introducing water into the housing, means for connecting the housing by a water-tight connection with the valve used for inflation of the tire and means operating within the housing for removing the valve core from the valve casing.

2,320,043

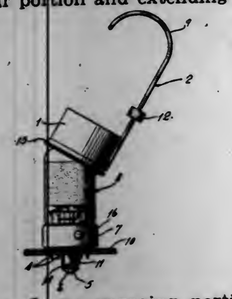
RADIO TUBE HOLDER AND EXTRACTOR

Ralph S. Merkle, Emporium, Pa., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Application November 22, 1941, Serial No. 420,143
6 Claims. (Cl. 294—1)

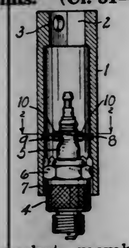
1. A device for removing a plugged-in article from a plug-in receptacle, said device comprising a substantially tubular expansible portion adapted to telescope over and tightly grip the periphery of the article, and a pulling handle fastened

to said tubular portion and extending along the



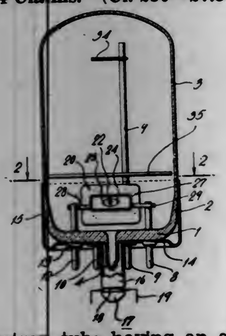
article with a finger engaging portion at its upper end.

2,320,044
WRENCH
Henry H. Merriman, Jackson, Mich., assignor to Mechanics Engineering Company, Jackson, Mich.
Application September 3, 1940, Serial No. 355,158
7 Claims. (Cl. 81—125)



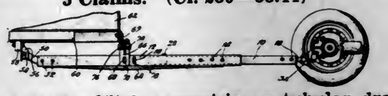
1. A wrench socket member comprising a tubular body adapted to receive the major portion of a spark plug and having a non-circular spark plug socket at its outer end and an annular internal groove spaced inwardly from said socket, a split ring expansively engaged in said groove, and a plurality of coiled springs having their ends engaged with said ring whereby they are supported in coacting relation to yieldably receive the non-metallic portion of a spark plug and acting to releasably hold a spark plug within the socket.

2,320,045
ELECTRON DISCHARGE TUBE
Carl F. Miller, Corning, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application October 25, 1941, Serial No. 416,433
4 Claims. (Cl. 250—27.5)



1. An electron tube having an evacuated envelope with a flattened header extending transversely thereof, a plurality of rigid contactor pins sealed through said header with portions extending inwardly from the envelope, said pins being arranged symmetrically around the center of said header, a unitary electrode assembly mounted between and surrounded by the inwardly projecting portions of said pins, and short metal straps extending from opposite ends of each electrode and substantially symmetrically connected to corresponding pairs of said pins.

2,320,046
TRAILER HITCH
Joseph C. Notar, Cedar Rapids, Iowa, assignor to Rapids Equipment Company, Inc., Cedar Rapids, Iowa, a corporation of Iowa
Application March 5, 1941, Serial No. 381,792
5 Claims. (Cl. 280—33.44)



1. A trailer hitch comprising a tubular drawbar, a tubular shaft having means at one end for engaging a trailer, said tubular shaft and said drawbar being telescopically engaged with each other, means for locking said drawbar and said tubular shaft together in any one of a plurality of predetermined extended positions, a securing rod extending axially through said drawbar from the free end thereof and into said tubular shaft for axial rotation therewithin, cooperating means associated with the free end of said rod adjacent the free end of said drawbar for pivotally engaging said rod with a tow car when said means is in one position and to release said rod from said tow car when said means is rotated to another position, and means for preventing lateral separation of said tubular shaft, said drawbar and said cooperating means, said tubular shaft having a side opening providing access to said rod for rotating the same.

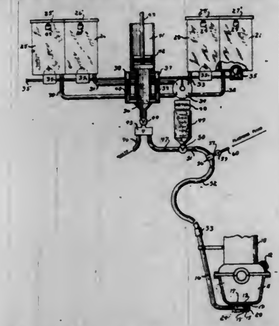
2,320,047
METHOD OF DESULPHURIZING OILS
Edwin M. Nygaard and Orland M. Reiff, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application February 24, 1941, Serial No. 380,316
2 Claims. (Cl. 196—30)

1. That method of removing sulphur from gasoline comprising reacting the sulphur compounds therein with a wax substituted metal phenate and separating out the resulting reaction products.

2,320,048
CRANKCASE SERVICING DEVICE
Leo Rex Parson, Oskaloosa, Iowa
Application November 27, 1940, Serial No. 367,316
4 Claims. (Cl. 184—1.5)

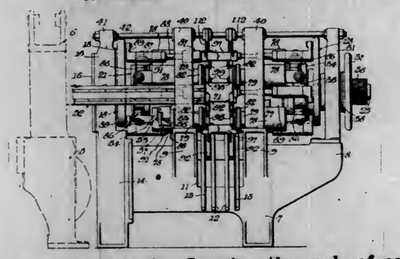
1. In a means for supplying or withdrawing fluid from a crankcase or like, a plurality of fluid containers, a distributing valve having its inlet in communication with each of said fluid containers, a meter having its inlet in communication with the outlet of said distributing valve, a visual measuring and storage container having its upper end in communication with said meter, a three-way valve having one of its inlets in communication with the lower end of said visual measuring

and storage container, a hose having one end in communication with said three-way valve and its other end designed to be detachably secured to and in communication with a crankcase or like, a visual inspection chamber, a pump in communication with said inspection chamber, a variable distributing valve in communication with the lower end of said visual inspection chamber



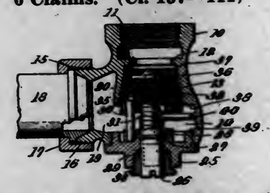
and having one of its sides in communication with said three-way valve and its other side in communication with a waste pipe, a means for visually gauging the sediment of said oil in said inspection chamber, a flushing tube inside said hose between the measuring and storage container and the crankcase, and a valve for controlling the flow of a flushing fluid into said flushing tube at times.

2,320,049
MACHINE FOR FLANGING CAN BODIES HAVING SOLDERLESS SIDE SEAMS
Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 27, 1940, Serial No. 371,975
16 Claims. (Cl. 153—21)



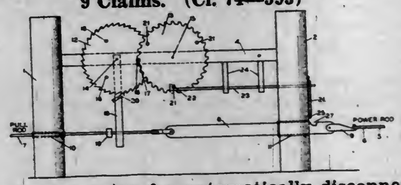
1. In a machine for flanging the ends of container bodies round in cross section having lock and lap side seams, means for embracing and closely confining a container body just short of an end thereof to be flanged thereby to leave extended only a short length of said end, means for feeding container bodies endwise to and positioning them in said embracing and confining means always with the side seams thereof disposed in a predetermined position, a flanging head having a portion shaped to snugly fit said end and merging into an enlarged end flanging portion, means for forcing the head into and against the container body end to flange the same, said snug fitting head portion having a notch therein to receive the end extremity of the lock portion of the container body side seam at said end, and means on said embracing and confining means presented for engagement by container body side seam portions as the container bodies move endwise into engagement with said embracing and confining means effective for definitely placing said side seams relatively to said notches.

2,320,050
DEFLECTOR RING
Walker F. Peterson, Baltimore, Md.
Application January 14, 1941, Serial No. 374,398
6 Claims. (Cl. 137—111)



1. A quiet flow retarding device for liquids comprising means for providing a collector chamber having a discharge connection and means for delivering a sheet of liquid across said chamber, and a flow controlling deflector means located in said chamber with a portion thereof diametrically opposite the discharge connection and extending toward but terminating short of the path of said sheet of liquid, said chamber including passages at both sides of said deflector means and extending in directions at acute angles to the path of said sheet and along which the liquid may flow directly into the discharge connection.

2,320,051
AUTOMATIC DISCONNECTOR APPARATUS
Homer B. Robinson, Webb City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 18, 1941, Serial No. 389,231
9 Claims. (Cl. 74—593)

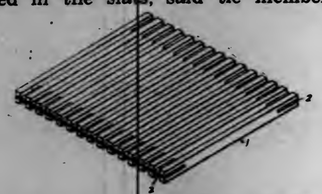


1. In apparatus for automatically disconnecting a reciprocating power transmitting member from a reciprocating power utilizing member, the combination comprising a coupling including a unit connected to one of the reciprocating members and a unit connected to the other reciprocating member, means rotatable by one of the reciprocating members, and means cooperating with the aforementioned means upon the completion of a predetermined number of strokes of the reciprocating members for engaging the power utilizing member as it moves in one direction to maintain the same in a predetermined position intermediate its extreme limits of travel, permitting disengagement between the coupling units on continued movement of the power transmitting member in the same direction.

2,320,052
MAT
Joseph A. Rodriguez, Houston, Tex.
Application June 13, 1941, Serial No. 397,834
2 Claims. (Cl. 20—78.6)

1. A mat formed of slats spaced apart, said

slats having end mortises, and tie members fitted into the mortises in the ends of the slats and secured in the slats, said tie members being



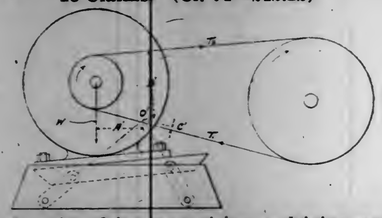
formed of reenforced rubber, or the like, of sufficient rigidity to hold the slats spaced a fixed distance apart and of sufficient flexibility to permit the mat to be formed into a roll.

2,320,053

MOTOR DRIVE

Paul D. Suloff, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application April 5, 1941, Serial No. 387,028
15 Claims. (Cl. 74—242.12)



8. A motor drive comprising a driving and a driven shaft, a belt connecting said shafts in driving relation, a movable bracket, means for mounting one of said shafts on said movable bracket, a base, at least one pair of links connecting said base and bracket, pivotal connections between one end of each link of said pair and said base, pivotal connections between the other end of each link and said bracket, the links being so pivoted as to be in non-parallel relation with each other, said shaft on said bracket being mounted on said bracket in such a position that the bracket under non-driving conditions tends to rock in a direction to tighten said belt, the angular relation of said links being such that under driving conditions the pull summation of the tension in the belt tends to further rock said bracket to increase the tension in said belt.

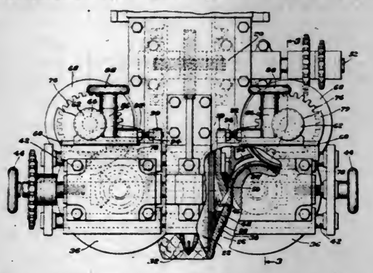
2,320,054

METHOD AND APPARATUS FOR TREATING PINEAPPLES

Albert Ernest Stanley, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii

Application February 12, 1942, Serial No. 430,571
11 Claims. (Cl. 146—6)

1. A method for the recovery of edible juice from a pineapple shell having a layer of meat of substantially uniform depth upon its inner surface which comprises advancing the shell while gripping the surface thereof, rubbing the surface of said layer by advancing a smooth, continuous rubbing surface in contact with the surface of said layer at a faster speed than the speed of advance of said layer surface, and maintaining the rubbing member and shell gripping member so spaced that the rubbing member does not penetrate said layer sufficiently to contact the shell, whereby juice is expelled from said layer by attrition of said rubbing member thereon.



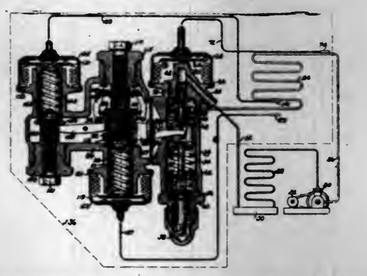
10. In apparatus for the recovery of edible substance from pineapple shells having a layer of meat of irregular depth upon their inner surface, the combination of a grid, a shell feeding roller adapted to grip the outer surface of the shell to feed the shell over the grid while exerting pressure thereon to force the bars of the grid into the layer of meat upon the inner surface of the shell, a knife co-operating with said grid and roller to plane off part of said layer of meat protruding through said grid, a rubbing member, rotatable about an axis parallel to the axis of said roller, arranged to engage the surface of the remaining portion of said layer as the shell is carried beyond the grid by said roller, and means for rotating said member about said axis in a direction opposite to the direction of rotation of said roller and at a higher surface speed than the surface speed of said roller.

2,320,055

REFRIGERATING APPARATUS

Carl A. Stickel, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 28, 1940, Serial No. 363,088
5 Claims. (Cl. 62—8)



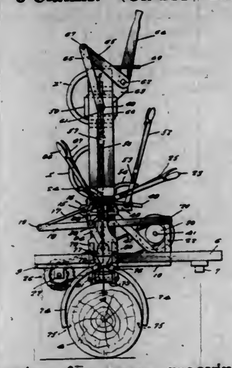
2. Refrigerating apparatus including refrigerant liquefying and evaporating means, an expansion valve for controlling the flow of refrigerant from the liquefying means to the evaporating means, a medium to be cooled, said evaporating means being located in heat exchange relationship with said medium, said expansion valve including normal control means responsive to the refrigerant in the evaporating means for normally controlling the operation of the valve, an additional independent closing means independent of the normal control of the valve responsive to the temperature of said medium for overcoming the normal control of the valve to close the valve, and means responsive to the temperature of a portion of said evaporating means for releasing said closing means.

2,320,056

POLE CUTTING MACHINE

Charles W. Swanger, Texarkana, Tex., assignor of one-half to Charlie M. McMullan, Texarkana, Ark.

Application October 8, 1940, Serial No. 360,324
3 Claims. (Cl. 144—133)



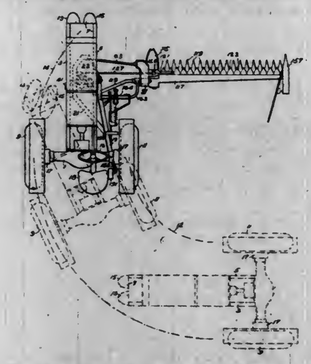
1. Apparatus for cross grooving horizontally disposed poles comprising a main frame adapted to be moved along a pole into different set positions and comprising a pair of side bars adapted to be stood on end on said pole with said bars spaced apart lengthwise of the same, manipulative means for securing said frame to the pole in the different set positions to hold the frame stationary, a carriage mounted in said frame for reciprocation transversely thereof to move the same crosswise of the pole, a motor driven cutter unit mounted on said carriage, manipulative means to reciprocate said carriage, and means on said frame for coaction with said pole to raise said frame into different positions to vary the depth of the cutting operation, said last means comprising a pair of jacking plates on said side bars, respectively, vertically slidable to thrust the same against said pole.

2,320,057

TRACTOR MOWER

Willard H. Tanke, La Crosse, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application April 11, 1938, Serial No. 201,262
38 Claims. (Cl. 56—25)



1. In combination, a tractor having a wheeled front support, a rear axle structure and rear wheels mounted thereon, an attachment frame having a forward portion behind said front support and a rearward portion underlying said rear axle structure, and detachable connecting means between said frame and tractor, said forward portion of said frame being tapered transversely of said tractor to permit unobstructed arcuate travel of said front support while the tractor is being driven out of and into an attaching position over said frame.

2,320,058

PROCESS OF PRODUCING A STABLE, COMPLEX COMPOUND FOR USE AS A FLOUR BLEACHING AGENT AND AS A CONVENIENT SOURCE OF NITROGEN OXIDES

Souren Z. Avedikian, Baltimore, Md.

No Drawing. Application October 7, 1939, Serial No. 298,406
6 Claims. (Cl. 99—232)

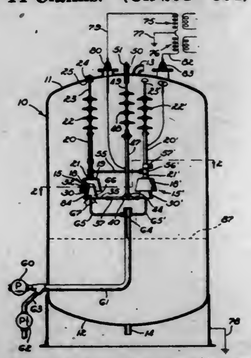
1. The process of preparing a flour-bleaching compound, which comprises mixing sulfur trioxide and the nitrite of a metal of the group consisting of lithium, sodium, and potassium in such proportions that the ratio of the sulfur trioxide molecules to metal nitrite molecules is approximately 1 to 2 and less than 1 to 1, and obtaining a uniform product throughout the mass by mixing the ingredients thoroughly and quickly before they complete their reaction with one another so as to prevent the formation of the ultimate end product that contains one molecule of metallic nitrite combined with three molecules of sulfur trioxide.

2,320,059

APPARATUS FOR TREATING OIL

Edmund I. Bailey, Toledo, Ohio, assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

Original application September 14, 1938, Serial No. 229,933. Divided and this application April 30, 1940, Serial No. 332,491
14 Claims. (Cl. 204—304)



12. An electric treating unit, comprising: a pair of nested electrodes comprising an outer annular electrode and a smaller inner annular electrode disposed concentrically about a common axis and spaced from each other to define an annular treating space, said inner electrode defining a passage providing open intake and discharge ends, the discharge end being within said outer annular electrode and communicating with said annular treating space; means for insulating said electrodes from each other to permit establishment of a potential difference therebetween sufficient to maintain a coalescing electric field in said treating space; jet discharge means having a discharge opening of smaller diameter

than the opening in the intake end of said inner electrode directed axially into said intake end of said inner electrode and toward said discharge end thereof for delivering a stream comprising oil and water toward and from said discharge end, said inner electrode being spaced from said discharge means to provide a passage into said intake end between said discharge means and said inner electrode; and a turbulence-producing deflecting means carried by said outer annular electrode at a position beyond said discharge end of said inner electrode and in the path of flow of the oil and water moving from said discharge means to deflect same into said annular treating space to move therealong in a direction having a component of motion opposite to the direction of jetting into said passage of said inner electrode.

2,320,060

SOIL TREATMENT AND COMPOSITION THEREFOR

Blanche B. Barlow, Los Angeles, and Joseph D. Haynes, Tustin, Calif., assignors, by mesne assignments, of one-half to F. S. Hollister and one-half to C. H. Breon

No Drawing. Application March 4, 1940, Serial No. 322,174
3 Claims. (Cl. 71—23)

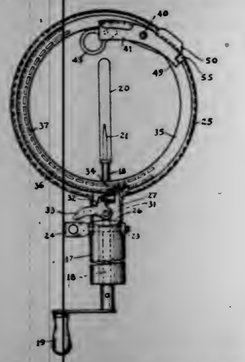
3. A soil flocculating, acidizing and plant food agent comprising an aqueous solution of cactus juice extract containing a concentrated mixture of inorganic mineral plant food salts.

2,320,061

VEGETABLE AND FRUIT PARER

Paul Baumgarten, New York, N. Y., assignor to Rudson-Wood Inc., New York, N. Y.

Application December 2, 1941, Serial No. 421,277
10 Claims. (Cl. 146—43)



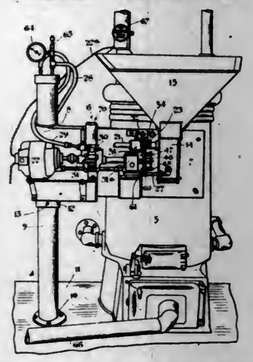
1. A vegetable and fruit parer comprising, in combination, a handle, a longitudinal shaft mounted in said handle, a member for rotating said shaft, a frame having a limited swinging mobility around an axle directed transversally to the longitudinal axis of said handle and located near one end of said handle, an annular knife support rotatably mounted in said frame, a fruit driver connected with one end of and rotatable by said shaft and projecting into the cylindrical space determined by said support, a knife holder pivoted to said support and carrying a knife, a spring tending to urge said knife towards said driver, and means for rotating said support in said frame by the rotation of said shaft, said swinging mobility being adapted to remove said knife support, said knife, said spring and said means away from said fruit driver, thereby making the latter freely accessible.

2,320,062

FUEL FEEDING APPARATUS FOR FURNACES

George McAvity Blizard, Saint John, New Brunswick, Canada

Application March 15, 1940, Serial No. 324,182
In Canada February 7, 1940
4 Claims. (Cl. 110—105)



1. Fuel feeding apparatus for furnaces comprising a supporting plate with an opening, a hopper, a downwardly inclined feed chute projecting through said opening through which fuel is conducted from the hopper to the furnace, a meter wheel shaft extending through the said chute at a point between the hopper and the delivery end of the chute, a meter wheel fixed to rotate with said shaft, a star wheel fixed to said shaft exteriorly of said chute, a bottom wall in said chute comprising a plurality of sections, one of said sections being curved to form a basin directly beneath said meter wheel and having its lower portion projecting downwardly in overlapping relation to the upper portion of a second section, said overlappping portions being spaced apart to provide an air inlet passage, a nozzle head arranged to deliver air into the feed chute through said air inlet passage, a supply pipe through which compressed air is delivered to said nozzle head, a valve normally closing said pipe, a drive shaft equipped with devices engageable with said star wheel to effect intermittent rotation of the meter wheel shaft, and means actuated by said devices for automatically opening said valve at each operation of said meter wheel shaft.

2,320,063

PREPARATION AND USE OF CATALYSTS

Casimer J. Borkowski, Chicago, and Jacob L. Schille, Berwyn, Ill., assignors to The Best Foods, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application June 26, 1940, Serial No. 342,446
21 Claims. (Cl. 252—198)

1. A method of preparing a catalyst, comprising precipitating carbonates of nickel and copper, drying the precipitate at temperatures not over about 200° F., heating the precipitate in an inert liquid vehicle and in intimate contact with an inert gas to a temperature of about 300 to about 360° F., and thereafter reducing the mixture with hydrogen while maintaining it at temperatures between about 300° and 400° F.

2,320,064

OIL-RELIEVED GENEVA MOVEMENT

Karl Brenkert, Detroit, Mich., assignor to Brenkert Light Projection Company, Detroit, Mich.

Application August 7, 1941, Serial No. 405,776
5 Claims. (Cl. 74—436)



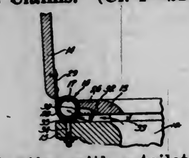
1. In an intermittent Geneva movement comprising a star wheel member having radial slots and intervening concave faces forming a finger at each side of each slot, and a cam member having a pin adapted to enter said slots and an arcuate locking flange adapted to register with said faces; said flange having an opening therethrough disposed at a distance from said pin, in the counter direction of cam rotation, slightly less than the distance between the outer ends of successive slots of said star wheel, the circumferential dimension of said opening being sufficient to relieve any oil that may be trapped between said flange and the engaging concave face, said arcuate flange having a free fluid outlet in addition to said opening, whereby said opening delivers oil away from the outer ends of said faces as they engage said opening.

2,320,065

TOILET VENTILATOR

Charles F. Briscoe, Compton, and Harvey L. Graham, Taft, Calif.

Application March 11, 1941, Serial No. 382,710
7 Claims. (Cl. 4—213)



1. In combination with a toilet bowl and seat, a hinge structure comprising relatively rotatable tubular sections, one within the other, connecting said seat to the bowl, said structure containing a passage communicable with the interior of the bowl and extending through one end of the hinge structure, and a suction fan connected to said end of the hinge structure and operable to produce an air draft from the bowl into and axially through said passage to the fan.

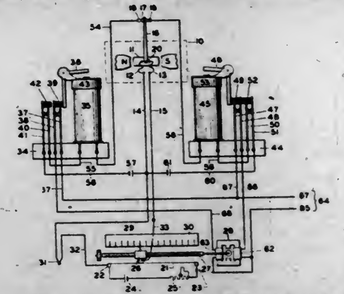
2,320,066

SELF-BALANCING CIRCUIT MECHANISM

Franklin B. Bristol, Middlebury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut

Application October 29, 1940, Serial No. 363,275
2 Claims. (Cl. 172—239)

1. Apparatus for automatically balancing an electric circuit, said apparatus comprising a galvanometer responsive to unbalance conditions of said circuit and including an element deflectible in a direction corresponding to the direction of unbalance, contact means actuated by said element according to its direction of response, reversible electric motor means for balancing said circuit, a pair only of relays controlled by said contact means and each corresponding to a respective direction of operation of said motor means, each of said relays having a winding and an armature together with a pair of solid contacts in a circuit for controlling said motor and another pair of solid contacts in circuit with the relay winding and the aforesaid contact means, means supporting said pairs of contacts of each relay separately from the relay armature, said pairs of contacts of each relay



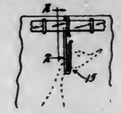
being so disposed with respect to each other and to the relay armature that upon operation of said armature pursuant to closure of a circuit through said relay the pair of motor circuit contacts is actuated first to bring the motor into operation and thereafter the pair of relay circuit contacts is operated to break the circuit through the relay winding.

2,320,067

CARRIER FOR SMALL GAME

Harry J. Caughren, Osakis, Minn.

Application December 23, 1940, Serial No. 371,232
1 Claim. (Cl. 224—7)



A carrier for small game comprising, an integral length of rod material bent at an intermediate portion in the form of a narrow U with the sides of said U being in nearly parallel relationship and cooperatively defining a narrow game holding slot for the reception of the necks or feet of game animals, the upper portion of one of the legs of said U-shaped portion terminating in a free end extending upwardly and disposed some distance below the upper end of the other leg of the U, the opposite end of the length of material being bent upon itself above said free end and on the side of said length adjacent said free end to constitute a belt receiving loop, said loop being open at its lower portion with the extremity of said loop forming the end being bent outwardly in opposition to the open end of said slot and sufficiently close thereto to prevent accidental removal of game from the game holding slot and to further facilitate an entrance of a belt into said loop.

2,320,068

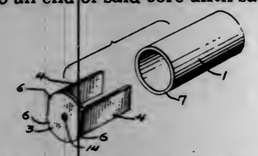
REWIND CORE AND ENDPIECE

Earl R. Crebbs, San Francisco, Calif.

Application September 16, 1941, Serial No. 411,041
2 Claims. (Cl. 242—68)

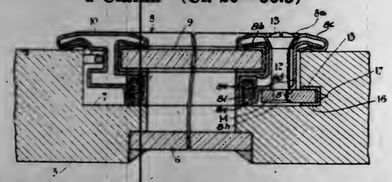
1. In combination with a hollow cardboard cylindrical core, a cardboard end piece therefor consisting of a disc portion having a diameter substantially equal to the outside diameter of said

core and a central aperture, said disc having lateral extensions extending from opposite parallel chords of said disc and having a width adjacent said disc chords less than said disc chord and slightly greater than the corresponding chord of the inside of said core, said extensions being bent along said disc chords at right angles to said disc portion in the same direction, said end piece being forced into an end of said core until said disc por-



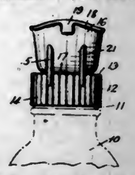
tion is adjacent the end section of said core with said lateral extensions at least adjacent the disc portion remaining in planar condition along said core interior chords thereby distorting said core and due to the excess widths of said extensions over the core interior chords occupied thereby, said distortion holding said end piece in place against core rotating forces applied to said end piece.

2,320,069
DOUBLE GLAZED SASH AND FASTENING MEANS THEREFOR
Charles T. Cresswell, Montreal, Quebec, and Thomas William Harrison, Toronto, Ontario, Canada
Application December 21, 1940, Serial No. 371,122
In Canada July 23, 1940
1 Claim. (Cl. 20—56.5)



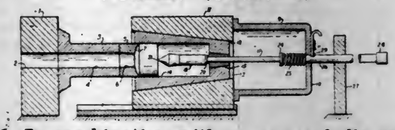
A double glazed sash assembly comprising a main sash frame, an outer transparent pane mounted in said frame adjacent the outdoor side thereof, the inner marginal portion of the indoor side of said frame being rabbeted to provide a recess having one defining wall thereof lying in a plane located inwardly of but parallel with said transparent pane, a supplementary sash frame fitted with a second transparent pane located adjacent the indoor side thereof, said second pane constituting the indoor pane of the sash assembly when said main and supplementary frames are fitted together, said supplementary frame being composed of rails formed so that the outdoor sides of the inner marginal portions of said rails lie parallel with but project beyond the corresponding sides of the outer marginal portions of said rails, said supplementary sash frame rails being fitted in said recess so that the outdoor sides of the inner marginal portions of said rails are butted against the wall of the recess which lies parallel with said outer transparent pane while the outdoor sides of the outer marginal portions of said rails are spaced from said wall to provide an intervening clearance space and means for fastening said frames together comprising a rotatable member extending entirely through the outer marginal portion of at least one of said supplementary sash frame rails and provided at its inner end, with a laterally projecting locking member arranged to work in the clearance space reserved between the said outer marginal portions of said rails and the opposing wall of the recess, the remaining wall of the recess being provided with a socket to receive said locking member and the outer end of said rotatable member being provided with means whereby it may be turned to rotate said locking member into or out of said socket.

2,320,070
COMBINED CAP AND AUXILIARY CONTAINER
Philip A. Derham and Jesse H. Newport, Jr., Rosemont, Pa., assignors to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 435,326
5 Claims. (Cl. 128—249)



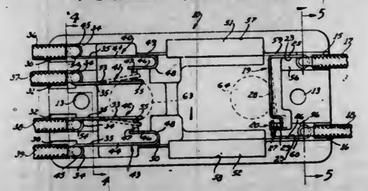
3. In a molded one-piece eye-cup adapted to be removably secured to a container cap and having a downwardly and inwardly tapered lateral surface terminating in a substantially flat bottom surface, a multiplicity of identical and circumferentially spaced cap-engaging projections integral with the eye-cup and extending downwardly from spaced points on said lateral surface, said points being intermediate the top of the eye-cup and the bottom surface thereof, each of the projections being substantially cylindrical and projecting downwardly past and below said lower surface and extending upwardly above said lower surface, at least two of said projections being diametrically opposite each other, the lower end portions of the projections being free of each other and adapted to yield relatively to each other under pressure.

2,320,071
APPARATUS FOR EXTRUDING METALS
Donald McLeod Frothingham, Noroton, Conn., assignor to Ferrex Corporation, New York, N. Y., a corporation of Delaware
Application November 23, 1940, Serial No. 366,858
7 Claims. (Cl. 207—3)



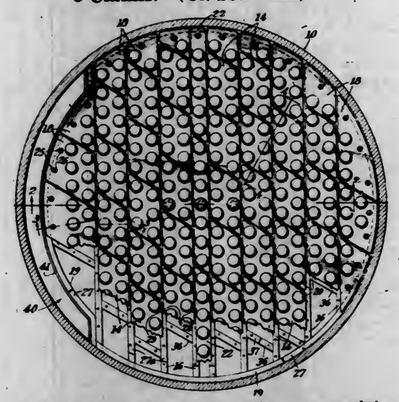
1. In combination with a ram and die mechanism adapted to cooperate for extrusion of material through an orifice, a mandrel assembly to pierce a slug within the die and condition the same for the extrusion of hollow articles, comprising a tubular extension in alignment with the extrusion orifice, a sleeve embracing said extension in closely fitted sliding relation therewith, a removable piercing point adapted to be positioned at the piercing end of said mandrel assembly and having a cross-sectional area sufficient to pierce a hole of sufficient size to enable said sleeve to slide freely therethrough, and an extrusion die of predetermined surface configuration formed on a portion of said sleeve remote from said piercing end to cooperate with the orifice of said ram and die mechanism to form an extrusion orifice of an internal diameter greater than the external diameter of said tubular extension.

2,320,072
TWO BUTTON SWITCH
Edwin G. Gaynor, Fairfield, Conn., assignor to The Wheeler Insulated Wire Company, Bridgeport, Conn., a corporation of Connecticut
Application December 6, 1940, Serial No. 368,747
7 Claims. (Cl. 200—5)



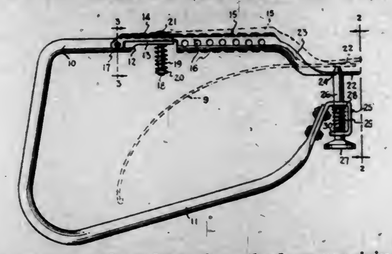
7. A switch unit comprising a body of insulating material having a pair of normally open switches at one end and a normally closed switch at the other, means for actuating the switches, the body between the switches at each end having a pair of pockets therein and a condenser mounted in each pocket to extend between the switches and connected to a contact of a switch at each end.

2,320,073
BUBBLE DECK
John A. Gibb, New Rochelle, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application July 31, 1941, Serial No. 404,796
5 Claims. (Cl. 261—114)



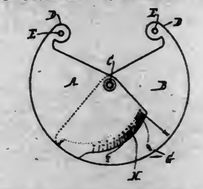
1. A bubble deck construction comprising a bubble tray, the major part of the area of which consists of key pieces having a standardized configuration, beams for supporting the key pieces, and means for locking adjacent key pieces to the supporting beams, each of said beams being provided with a recess in its upper surface and an aperture in its web in communication with said recess, said locking means comprising a linkage that includes a link provided with two spaced longitudinal apertures, said link extending downwardly into said recess and upwardly into the space between the adjacent key pieces, a wedge member engaging the upper aperture of said link and forcing the key pieces into engagement with the beam, and a second wedge member engaging the aperture in the web of said beam and the lower aperture of said link and forcing the beam into engagement with the key pieces.

2,320,074
BODY AND FENDER TOOL
John Golnick, Richmond, Va.
Application May 28, 1941, Serial No. 395,622
1 Claim. (Cl. 81—15)



A tool of the class described, comprising: a substantially yoke-shaped body having a pair of oppositely disposed, spaced apart legs, one of said legs being longer than the other, and in fixed relation thereto; a non-flexible section swingably mounted at one of its ends on the shorter of said legs intermediate its ends and overlying said shorter leg and projecting outwardly beyond the end thereof, and forming an extension thereof; an anvil plate on the end of said section and having an opening formed therein; a contact stud slidably carried on the longer of said legs and extending in alignment with the opening in said anvil plate; spring means embracing said stud and normally urging it into said opening; resilient means engaging the shorter of said legs; and means carried by said extension and the shorter leg and engaging said resilient means for normally resisting swingable movement of said extension on its mountings.

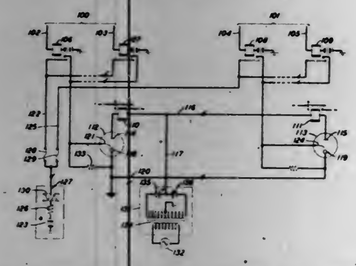
2,320,075
RANGEFINDER FOR MEASURING AND INDICATING THE DISTANCE BETWEEN TWO POINTS
Bruce Raymond Grace, Auckland, New Zealand
Application August 18, 1941, Serial No. 407,375
In New Zealand December 18, 1940
3 Claims. (Cl. 33—64)



1. A range finder comprising a pair of plates each provided with a sighting element said plates being arranged in partly overlapping relationship with their sighting elements spaced from each other and being relatively movable to enable an object to be sighted by the two eyes of an observer through said sighting elements, and means for maintaining said elements during sighting at a predetermined distance from the eyes of the observer whereby the range of the object is determinable from the said distance and the distance between the sighting elements, one of said plates having a calibrated scale of range distances thereon and the other of said plates hav-

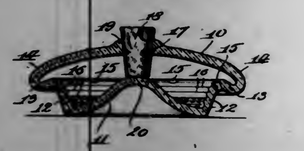
ing thereon a plurality of indicia for applying correction for variation of interpupillary distance in the observers said indicia moving across said scale when the plates are relatively pivoted in sighting.

2,320,076
SELECTING SYSTEM
Nathan I. Hall, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 21, 1941, Serial No. 419,878
4 Claims. (Cl. 179—18)



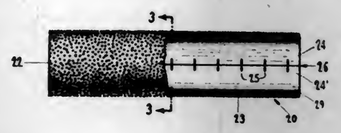
1. In combination, a plurality of discharge tubes each having electrodes forming a starting gap and a main discharge gap, a common circuit for applying at random a starting voltage to cause the ionization of the starting gap of one or more of said tubes, a source of alternating voltage applied to the main gaps of all of said tubes and serving to alter at different rates the sustaining characteristics of the starting gaps of any tubes that happen to ionize simultaneously, and an impedance element in said common circuit for producing a voltage drop in response to the current flowing in the starting gaps of said tubes, the voltage drop of said impedance element serving to lower below the sustaining value the voltage applied to the starting gaps of all tubes except the particular tube that has its sustaining characteristic altered most rapidly by said alternating voltage.

2,320,077
ANT POISON CONTAINER
Elbin C. Hansen, Los Angeles, Calif.
Application May 25, 1942, Serial No. 444,377
1 Claim. (Cl. 43—131)



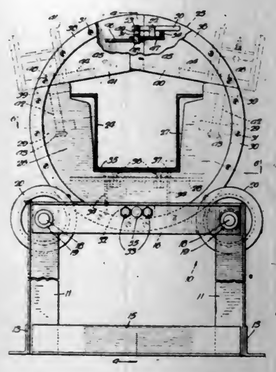
As a new article of manufacture, an ant poison receptacle formed in a single piece and comprising a convex top wall, a bottom wall and a side wall, the latter being provided in its upper portion with apertures for the ingress and egress of ants, there being an opening formed in the top wall to enable the receptacle to be serviced and internally cleaned, a cork for closing said opening, and the central portion of said bottom wall being extended upwardly to a point slightly above the plane occupied by the upper ends of the apertures in the side wall to provide a stop for limiting the downward movement of the cork in said opening.

2,320,078
INTERCHANGEABLE COVERING MEMBER
Carnig A. Harpootlian, Brooklyn, N. Y., assignor to Modern Accessories Inc., New York, N. Y., a corporation of New York
Application April 7, 1941, Serial No. 387,302
1 Claim. (Cl. 41—5.5)



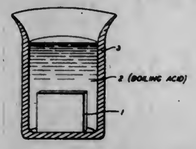
In a frictionally supported tubular covering member for a stippling roller of the class described, said covering member being made of carpet fabric having cord-like nap, said fabric having meeting edges connected together by wire staples, said staples being positioned substantially crosswise of said meeting edges, said staples being positioned below said nap, each of said staples passing through both of said meeting edges and being clinched against the inner surface of the base portion of said carpet fabric, said tubular covering member having an internal diameter adapted to frictionally and removably engage said stippling roller, the inner surface of said base portion being coated with a layer of rubber cement without penetrating said cord-like nap, said rubber coated inner layer serving to prevent seepage of paint through said base portion, whereby said internal diameter is maintained constant after repeated immersion in paint removing solutions.

2,320,079
CENTER SILL TURNOVER FIXTURE
Arthur H. Hartwig, Michigan City, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application August 1, 1940, Serial No. 349,059
4 Claims. (Cl. 28—89)



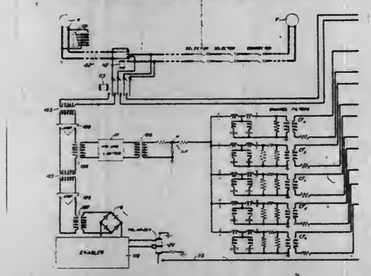
1. A turnover fixture comprising spaced supporting rollers, a manipulating roll supported in said rollers and having a fixed tread portion in engagement therewith adapted to provide for rotation of said roll, an opening in the roll for receiving a part to be turned, and a pivoted gate for closing said opening which, when closed, constitutes a part of said fixed tread portion.

2,320,080
PIEZOELECTRIC CRYSTAL ELEMENT
Stuart C. Hight, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application September 18, 1940, Serial No. 357,251. Divided and this application August 14, 1941, Serial No. 406,798
13 Claims. (Cl. 171—327)



1. The method of cleaning a piezoelectric crystal element which comprises boiling it in a liquid bath at a temperature in excess of 100° centigrade.

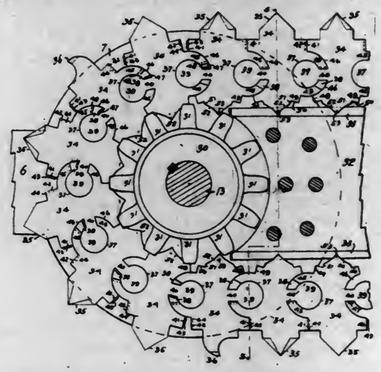
2,320,081
TELEPHONE SYSTEM
William H. T. Holden, Woodside, N. Y., Francis A. Hubbard, Maplewood, N. J., Benjamin F. Lewis, Bayside, and William A. Malthaner, New York, N. Y., and Vinton G. Sprague, Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 5, 1941, Serial No. 386,962
8 Claims. (Cl. 179—18)



1. In a telephone system, a sender therefor which is adapted for the registration of wanted designations, comprising five channel detectors each adapted to pass therethrough a specific frequency of a two-frequency pulse designating a digit or character, a gas-filled electronic device in each channel responsive to the frequency passed through said channel, a plurality of other gas-filled electronic devices responsive singly or in combination to two of said channel electronic devices, a plurality of conductors selectively activated singly or in conbination by said other gas-filled electronic devices when operated to indicate a digit or character designated by the two frequencies in said two-frequency pulse, and means responsive to the operation of three of said channel gas-filled thermionic devices for rendering ineffective the activation of said conductors.

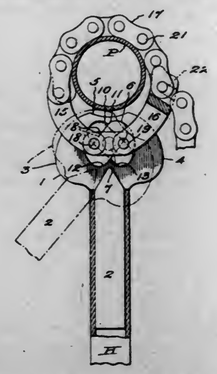
2,320,082
CHAIN SAW
Edward Kupka, Buckley, Wash.
Application December 3, 1940, Serial No. 368,279
1 Claim. (Cl. 143—32)

In a chain saw provided with a separator plate, having beveled edges, handle frames secured to the ends thereof and each comprising two separated plates, and a toothed wheel revolubly mounted between the plates of each said handle frames, one of said toothed wheels being driven; a chain comprising a single series of similar links, each link having a circular head extending therefrom by a neck and fitting in a



complementary socket in the preceding link, and having an inward extension, grooved to ride on the beveled edges of said separator plate and shaped to mesh with the teeth of said wheels, and having wood cutting or raking teeth formed on the outer edges of said links.

2,320,083
WRENCH
Oscar Johnson, deceased, late of Bayside, Long Island, N. Y., by Elsa M. Johnson, administratrix, Bayside, Long Island, N. Y., assignor of three-eighths to Gunnar Burman, New York, N. Y.
Application January 29, 1942, Serial No. 428,679
2 Claims. (Cl. 81—68)



1. A wrench comprising a head having a handle and provided peripherally with a hollow merging into oppositely facing camming surfaces with the low phases of said camming surfaces adjacent said hollow, the head having a slot passing through said hollow and camming surfaces and intersecting a recess formed within the head, facially spaced apart rocker links positioned within said recess on opposite sides of said slot and having medial trunnions with bearings in the head eccentric to said camming surfaces, pins supported by the opposite ends of said rocker links and bridging the space between them, a master link

connected to one of the rocker link pins at its inner end and extending through said slot with a flexible link chain connected to its outer end, and a locking link pivotally connected to the other rocking link pin and extending through said slot and provided at its outer end with a hook to selectively engage the link pins of said chain, the walls of said recess in the head being provided with rigid abutments positioned on diametrically opposite sides of the trunnions of the rocker links and lying in the path of such links to be engaged thereby as they are rocked into gripping positions.

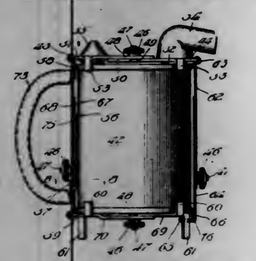
2,320,084

CAN HOLDER AND DISPENSER

George A. Jundt, Chicago, Ill.

Application April 27, 1940, Serial No. 331,969

4 Claims. (Cl. 65—61)



1. In a device of the character described, a top can perforating structure, a bottom can supporting structure, strap means articulately secured to said top and bottom structures, and a second strap means articulately secured at one of its ends to the said top structure and provided with snap locking means at its other extremity for engagement with the said bottom structure, the said top and bottom structures provided with slidably adjustable and locating means adapted to fit containers of varied base areas and configurations.

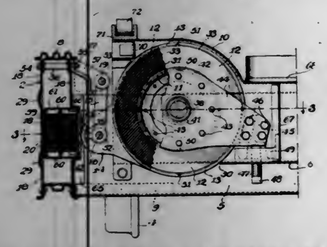
2,320,085

TRUCK BOLSTER SUSPENSION

Joseph Ledwinka, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application January 5, 1940, Serial No. 312,470

15 Claims. (Cl. 105—190)



1. In a truck comprising a frame and a bolster, means for resiliently supporting said bolster, comprising an annular rubber element, a drum secured to the inside of the element, means pivotally supporting said drum on the bolster, means securing the drum to the bolster and preventing rotation of said drum at least in one direction about its pivot, and means secured to the outside of the element and hingedly attached to said frame, whereby vertical motion of the bolster with respect to the said frame will stress the element in shear.

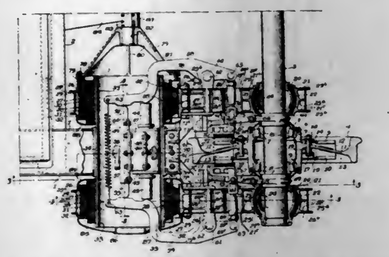
2,320,086

RAILWAY TRUCK AND BRAKE MECHANISM THEREFOR

Joseph Ledwinka, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 20, 1940, Serial No. 341,456

11 Claims. (Cl. 105—182)



3. A wheel truck comprising a frame, a support carried thereby, a pair of arms independently yieldably carried by said support, an axle having one end thereof carried by said arms, and a wheel on said axle and located between the arms.

2,320,087

CHEMICAL COMPOSITION

William M. Lee, Kew Gardens, and Carl R. Erikson, New York, N. Y., assignors to The Arabol Manufacturing Company, New York, N. Y., a corporation of New York

No Drawing. Application January 15, 1941, Serial No. 374,472

12 Claims. (Cl. 106—124)

1. A liquid composition comprising an alkali soluble protein, a volatile base for normally retaining said protein in dissolved condition, an acetal adapted to decompose to form aldehyde under acid conditions, a substantially nonvolatile acid substance for decomposing said acetal, the quantity of base being sufficient to neutralize said acid substance and maintain said liquid composition alkaline, whereby upon volatilization of said base the composition becomes acid and generates aldehyde which insolubilizes said protein.

2,320,088

WATER - ALCOHOL SOLUTION OF AMINO ACID - DIAMINE - DIBASIC ACID INTERPOLYMERS

Robert M. Leekley, Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 25, 1939, Serial No. 296,517

10 Claims. (Cl. 260—29)

1. A solution in a solvent medium comprising a mixture of alcohol and water, of a synthetic linear interpolyamide obtained by interpolymerization of polymer-forming reactants comprising a monoaminomonocarboxylic acid, a diamine having at least one hydrogen atom on each amino nitrogen atom, and a dibasic carboxylic acid: said solvent medium being chemically inert with respect to said interpolyamide.

2,320,089

ACYL ACRYLAMIDE AND ITS PREPARATION

Joy G. Lichty, Stow, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application January 19, 1940, Serial No. 314,634

8 Claims. (Cl. 260—561)

3. The alkacyl acrylamides in which each alkacyl group present is made up of a carbonyl group and an alkyl radical, the alpha carbon atom of the acryl radical carries one of the group consisting of a hydrogen atom, a hydrocarbon radical and a halogen radical, and the beta carbon atom carries only two hydrogen atoms.

2,320,090

DIACYL ACRYLAMIDE AND ITS PREPARATION

Joy G. Lichty, Stow, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application July 22, 1942, Serial No. 451,944

5 Claims. (Cl. 260—561)

4. A diacyl acrylamide.

2,320,091

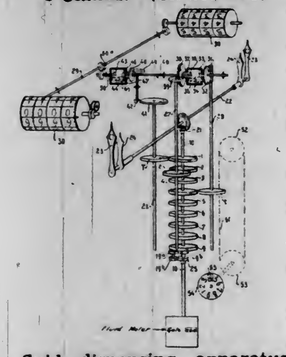
PRICE COMPUTING AND INDICATING MECHANISM

Johan Loder, Wassenaar, Netherlands; vested in the Alien Property Custodian

Application January 18, 1940, Serial No. 314,552

In the Netherlands January 21, 1939

3 Claims. (Cl. 235—61)



1. In fluid dispensing apparatus including means for computing and indicating the price of a measured quantity of fluid, a main shaft, a number of equal size main gears mounted for individual rotation on said main shaft, a driving shaft driven by a fluid meter, means for coupling said main gears with said driving shaft in predetermnied transmission ratios, a secondary gear, means adapted to selectively bring said secondary gear into mesh with each of said main gears, a counter, and means for transmitting the revolutions of the secondary gear in accordance with the money value represented thereby to said counter.

2,320,092

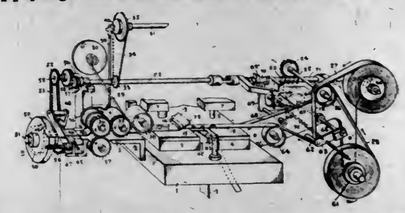
MACHINE FOR MAKING ADHESIVE PADS

Eseck C. Miller, Newark, N. J., assignor to Scholl Mfg. Co., Inc., New York, N. Y., a corporation of New York

Application October 23, 1940, Serial No. 362,318

10 Claims. (Cl. 154—1)

1. In a machine of the character described, the combination of means for automatically uniting a plurality of fabric webs while under tension to form a multiple ply strip, an automatically adjustable tension device for maintaining said tension, means for feeding said strip under said tension to perforating dies, means for applying thereto another web after perforating



the former by said dies and means for feeding the combined web strip thus formed to other dies for punching out plasters therefrom, a clutch device for said feeding means and a clutch opening and closing device in constant operative connection with said tension device, whereby tension on the webs is maintained at all times.

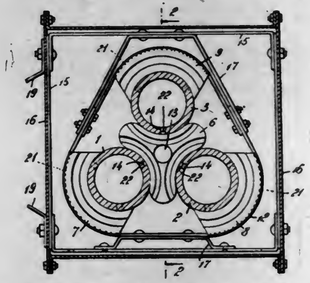
2,320,093

ELECTRICAL BUSWAY

Ralph W. E. Moore, Pittsburgh, Pa., assignor to National Electric Products Corporation, a corporation of Delaware

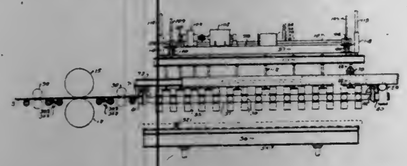
Application January 27, 1942, Serial No. 428,351

30 Claims. (Cl. 174—16)



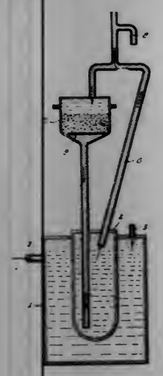
3. An electrical distribution system busway which includes in combination three bare tubular conductors, a separating insulator having a separate face in contact with a portion of the surface of each of said conductors respectively and positioned to space said conductors close together in parallel substantially equilateral arrangement at any given section, a retaining insulator positioned on each conductor at a portion of the surface thereof substantially opposite that in contact with said separating insulator, binding means secured about said retaining insulator preshaped to bind said conductors and all of said insulators together as a unitary insulated bus bar structure capable in itself of withstanding short-circuit stresses substantially without distortion, a plurality of apertures through the walls of said conductors positioned along and around the periphery of said conductors so as to provide ventilation therethrough, a duct having walls enclosing said bus bar structure, a transverse frame in said duct serving to support said walls and adapted to be secured to a building structure, and means securing said binding means to said frame serving to support said bus bar structure independently of the walls of said duct without substantially impeding airflow in said duct.

2,320,094
APPARATUS FOR HANDLING MATERIAL
Leonard W. Nash, Damascus, Ohio, assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of New Jersey
Application August 15, 1940, Serial No. 352,804
10 Claims. (Cl. 214—6)



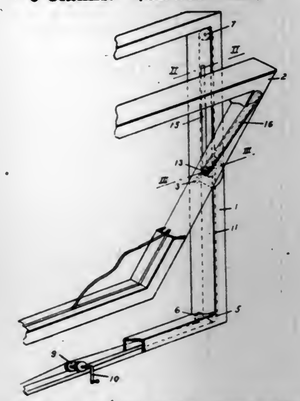
1. In a machine for feeding sheet material to and from an operating station, a plurality of rotatable supporting members having radially projecting arms thereon, said members being positioned to engage opposite edges of the sheet, sheet lifting means above said rotatable supporting members and constructed to move between said supporting members, means for rotating said supporting members and moving said lifting means in timed relation in one direction to unpile the sheets and for rotating said supporting members in the opposite direction to pile the sheets and means for feeding the sheets along said supporting members.

2,320,095
METHOD AND APPARATUS FOR INDICATING DISSOLVED OXYGEN IN AQUEOUS LIQUIDS
Georg Ornstein, Stockholm, Sweden
Application December 9, 1939, Serial No. 308,411
In Germany December 15, 1938
8 Claims. (Cl. 204—195)



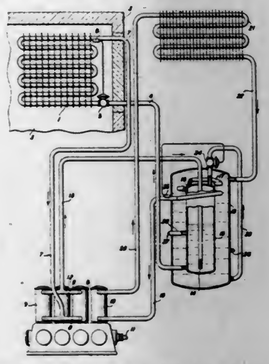
1. A method for indicating dissolved oxygen in water having a very poor conductivity such as condensor water by conducting a part of the water to be tested through an electric measuring cell measuring electromotive forces and having two electrodes separated by a diaphragm, the negative electrode being submerged in an electrolyte and the positive one in the water to be tested, comprising the step of adding at least 8 mg. of an electrolyte consisting of a water soluble compound increasing the electrical conductivity of water, but having no reducing or oxydizing properties per liter water to the water to be tested in the electrical measuring cell.

2,320,096
OPERATING MEANS FOR WINDOWS
Eric Sigfrid Persson, Malmo, Sweden
Application April 20, 1940, Serial No. 330,754
In Sweden November 27, 1939
6 Claims. (Cl. 268—115)



1. In windows of the types comprising a sash mounted to turn in a frame, a chute in said sash, a guide in the frame, said guide and chute being in overlying edge surfaces of the frame and sash and forming an angle to each other, a pin slidably mounted in said guide for engagement with said chute, a wire connected to said pin, and operating means for moving said wire and thereby displacing said pin along its guide in order to cause said sash to turn in said frame.

2,320,097
REFRIGERATION
Clyde E. Ploeger, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application August 20, 1941, Serial No. 407,519
8 Claims. (Cl. 62—115)



2. In a refrigerating apparatus comprising a low-temperature evaporator, a condenser, and a multiple stage compressor, the combination of a liquid receiver receiving refrigerant liquid from said condenser, and a high-temperature evaporator disposed within said receiver and receiving refrigerant liquid therefrom and supplying liquid refrigerant to said low-temperature evaporator, said high-temperature evaporator being connected to the outlet of a low pressure stage of said compressor apparatus and receiving gas discharged therefrom, and being connected also to the inlet of a high pressure stage of said compressor apparatus and supplying gas thereto.

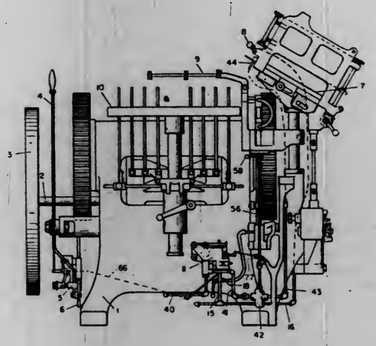
2,320,098
COSMETIC COLORING COMPOSITION
Sverre Quisling, Madison, Wis.
No Drawing. Application October 18, 1939, Serial No. 300,021
5 Claims. (Cl. 167—85)

1. A composition of matter adapted to form a non-toxic color coating for hair and skin comprising at least 50% saccharide in candy-like form selected from the group consisting of sucrose, lactose, dextrose and maltose, which contains protein material selected from the group consisting of zein and gelatin, and at least 10% water insoluble pigment material.

2,320,099
VAPOR-GLAZED CERAMIC PRODUCT AND METHOD FOR PRODUCING THE SAME
William S. Ramsay, Canton, and George A. Bole, Columbus, Ohio, assignors to The Stark Brick Company, Canton, Ohio, a corporation of Ohio
No Drawing. Application September 24, 1940, Serial No. 358,130
10 Claims. (Cl. 25—156)

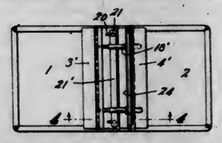
1. The method of salt glazing ceramic ware which consists in forming the ware with the surfaces thereof composed of a material which vitrifies when fired, spraying a solution containing a zinc salt upon the surfaces of the ware prior to its burning and volatilizing sodium chloride in a kiln containing the ware during the burning thereof.

2,320,100
PLATEN PRINTING PRESS
William C. Rupp, Parma, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application September 3, 1941, Serial No. 409,389
17 Claims. (Cl. 271—56)



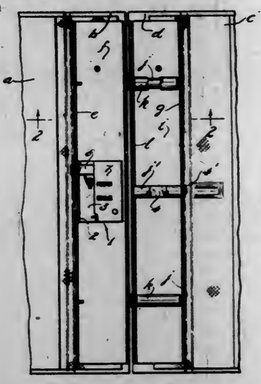
1. In a platen printing press, feed means for feeding sheets to the platen, delivery means for delivering sheets from the platen, means automatically operative upon failure of said delivery means to properly engage a sheet on the platen to render said feed and delivery means inoperative, and delay means associated therewith operative to cause said feed means to complete the feeding of the next sheet in succession to the platen before becoming inoperative.

2,320,101
EXPANSIBLE POST BINDER
Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application September 24, 1942, Serial No. 459,515
3 Claims. (Cl. 129—13)



1. An expansible back post binder which consists in combination of cover portions having hinged marginal flanges, separate back portions having hinged marginal flanges, each back portion having its marginal flange attached to the marginal flange of its adjacent cover whereby a composite laminated flange is provided for carrying posts at each side of the binder, each said composite flange being hinged both to its adjacent back portion and its adjacent cover, posts carried by said composite flanges, and means holding the two back portions for limited contracting and expanding movements.

2,320,102
BINDER FOR CATALOGUES AND THE LIKE
John Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application August 3, 1942, Serial No. 453,330
4 Claims. (Cl. 129—13)



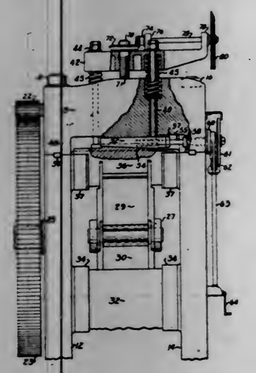
4. In a post binder construction of the type described having a two-part separable back portion with upstanding binding flanges, the combination of a binder clutch mechanism, said mechanism comprising a flat prong and means for rigidly attaching it to protrude into overhanging parallel relation just above the bottom of one back portion, a generally flat shallow sheet metal clutch casing having a flange for rigidly attaching it to protrude parallel and into overhanging relation to the other back portion with an opening to receive said flat prong, a spring-pressed dog plate in the clutch casing automatically operable to permit prong movement in one direction and prevent it in the opposite direction, a spring-pressed flat prong operable on said dog plate with a lost motion connection and movable to actuate the dog plate into non-holding position, a flat finger plate adapted normally to lie snugly against one of

the upstanding binding flanges and pivoted to the actuating plate and said flange with a toggle arrangement, all for the purpose described.

2,320,103
KNUCKLE JOINT PRESS

Adolph Seidel and Arthur H. Schloz, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application March 9, 1939, Serial No. 260,814
13 Claims. (Cl. 78—41)

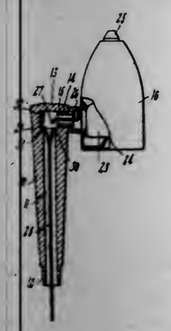


6. In a press, a bed, a pair of uprights, a crown surmounting said uprights, a die slide slidable between said uprights, a block adapted to be carried between said uprights and beneath said crown, linkage connecting said slide and said block, a cap above said crown, a member connecting said block and said cap, and resilient means urging separation of said cap and said crown, and adjustable rigid means separating said cap and said crown.

2,320,104
ADAPTER FOR VENT VALVES

William K. Simpson, Waterbury, Conn., assignor to Hoffman Specialty Company, Waterbury, Conn., a corporation of Illinois

Application November 17, 1939, Serial No. 304,955
6 Claims. (Cl. 137—122)

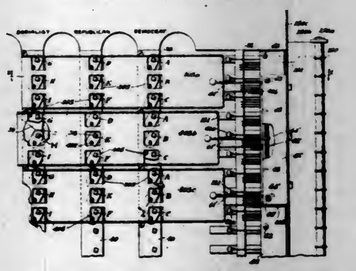


2. An adapter of the character set forth, having a bore extending through one end and closed at the other end and a lateral opening into the bore adjacent to the closed end thereof, a water leader extending through said bore and dividing it into two substantially equal semi-circular passages and protruding from its open end and having a latch and a presser resiliently forced apart from one another into overlapping engagement of the latch with an internal shoulder in the bore.

2,320,105
VOTING MACHINE

Ransom F. Shoup, Ardmore, Pa., assignor to The Shoup Voting Machine Corporation, Philadelphia, Pa., a corporation of Delaware

Application February 21, 1941, Serial No. 379,978
4 Claims. (Cl. 235—55)



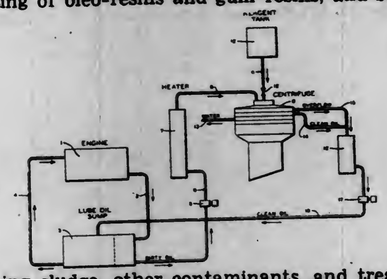
1. In a voting machine having a plurality of spindles and means for limiting the extent of rotation of each spindle between voted and unvoted position, mechanism for conditioning said machine for cumulative voting with said spindles divided into a plurality of multiple-spindle groups, said mechanism comprising a plate for each group supported for reciprocation transversely of the axes of said spindles between a first position and a second position and biased for movement into said first position, said plate having a plurality of surfaces perpendicular to its direction of reciprocation, a crank pin carried by each spindle for engagement with a said surface of a plate to effect movement of said plate from its first position to its second position and partially back toward its first position under the influence of said biasing means upon movement of said spindle from its unvoted position to its voting position, said crank pin being so arranged with respect to the spindle axis that in unvoted position of the spindle the pin lies on one side of a line passing through the spindle axis parallel to the direction of reciprocation of said plate and lies on the opposite side of said line in the voted position of said spindle, an interlock for the set of plates responsive to actuation of one plate to prevent actuation of any remaining plate, and an individual auxiliary interlock for the group of spindles associated with each plate effective upon actuation of a predetermined number of spindles of said group to prevent actuation of any remaining spindle of said group, each auxiliary interlock being arranged to permit the actuation of a number of spindles of its group different from any other group.

2,320,106
PURIFICATION OF OIL

Joseph A. South, Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application August 7, 1940, Serial No. 351,697
14 Claims. (Cl. 196—16)

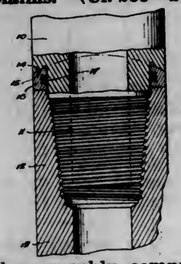
1. The method of purifying used oil which comprises contacting the oil with a treating reagent containing a substance of the group consisting of oleo-resins and gum resins, and separating sludge, other contaminants, and treating reagent from the oil.



2,320,107
ALIGNING CONNECTION FOR DRILL COLLARS

Siegfried Speckert, Southgate, Calif., assignor to Abegg & Reinhold Co. Ltd., Vernon, Calif., a corporation of California

Application July 14, 1941, Serial No. 402,364
11 Claims. (Cl. 285—146)



1. A drill collar assembly, comprising drill collars connected in end to end relation, and a rigid ball joint member laterally shiftable in the connections between said collars and automatically laterally adjustable under tension in use, for insuring hanging axial alignment of collars connected in non-alignment in the collar assembly.

2,320,108
COLOR PHOTOGRAPHY

Alan Gilbert Tull, London, England, assignor to Latta Syndicate Limited, London, England, a British company

No Drawing. Application December 17, 1940, Serial No. 370,557. In Great Britain February 22, 1940
4 Claims. (Cl. 95—2)

1. A method of producing a natural color photograph on a material including a transparent base, a blue sensitive emulsion layer on said base which layer is diffusely dyed yellow, and green and red sensitive emulsion layers coated on said blue sensitive layer, said red sensitive layer being outermost, comprising exposing said material to form latent images in the different layers, developing such latent images, converting the residual silver halide in said layers into silver ferrocyanide in a bath containing a ferrocyanide and a substance which renders the silver ferrocyanide less soluble than the silver halide, toning the silver ferrocyanide in the green and red sensitive layers in a bath containing a ferric salt and a uranium salt to form a Prussian blue image in the red sensitive layer and a uranyl ferrocyanide image in the green sensitive layer, and at any stage selectively destroying the yellow dye in the blue sensitive layer at the points occupied by the developed latent image therein.

2,320,109
PRODUCTION OF PHOTOGRAPHIC COLOR IMAGES

Alan Gilbert Tull, Purley, England, assignor to Latta Syndicate Limited, London, England, a British company

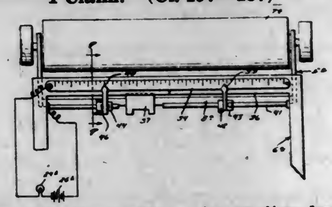
No Drawing. Application February 10, 1941, Serial No. 378,302. In Great Britain February 22, 1940
6 Claims. (Cl. 95—2)

1. A method of producing differently colored images at different depths of a photographic silver halide emulsion coat which includes the steps of producing image deposits of silver ferrocyanide representing different color values at different depths in said coat, said image deposits being surrounded by a complementary deposit of silver or a silver salt which is unaffected by the following bath, and treating the emulsion coat in a bath containing a ferric salt and a uranium salt to produce from the silver ferrocyanide a Prussian Blue image in the surface of the coat and a uranium ferrocyanide image below.

2,320,110
ELECTRIC INDICATOR FOR TYPEWRITERS

George A. Walker, Brunswick, Mo.

Application April 29, 1941, Serial No. 390,988
1 Claim. (Cl. 197—187)

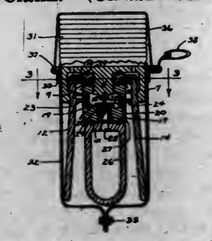


In combination with a typewriter having a carriage and a frame, a line end indicating device, an electric circuit including the device, switch means operated by the carriage at one end of its movement for completing the circuit, said switch means consisting of a gauge strip insulated from the frame and a rockable pointer overlapping the strip, and a cam carried by the carriage for tilting the pointer to engage the gauge strip, said gauge strip and pointer being in circuit with the indicating device.

2,320,111
LIFE PRESERVER AND DISTRESS SIGNAL

Foster Ware, San Francisco, Calif.

Application May 16, 1941, Serial No. 393,769
1 Claim. (Cl. 221—73.5)



A compressed gas pressure control device of the

character described comprising a body forming a chamber, a compressed gas-retaining cartridge threadedly secured into the body and sealed thereto, said cartridge having a sealed outlet extending into the chamber, a projecting member extending through the chamber and capable of puncturing the sealed outlet of the cartridge when the cartridge is threaded into the body whereby compressed gas is admitted into the chamber, a pair of apertures positioned oppositely opposed to each other in the side wall of the chamber, means for sealing said apertures, a pair of pivotally connected manually operative handle members having projecting elements thereon for puncturing said means sealing said apertures, and a clamping member for normally retaining the projecting elements on said handle members in a position over said means sealing said apertures to prevent the premature breaking of the seals by the compressed gas pressure from within the chamber.

2,320,112

STORAGE OF SUPERCOOLED NORMALLY CRYSTALLINE POLYMERIC MATERIAL

Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application December 6, 1940, Serial No. 368,908
3 Claims. (Cl. 18—48)

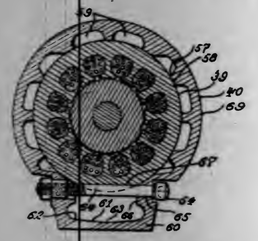
3. The method which comprises providing a completely fused mass of a normally crystalline polymer selected from the class consisting of vinylidene chloride and its crystalline co-polymers, chilling the fused mass to below 10° C., and maintaining the chilled product at a temperature in the range between about 0° C. and about —90° C.

2,320,113

PORTABLE ELECTRIC TOOL MOTOR CONSTRUCTION

Glenn C. Wilhide, Baltimore County, Md., assignor to The Black and Decker Manufacturing Company, Towson, Md., a corporation of Maryland

Original application February 18, 1941, Serial No. 379,413. Divided and this application October 7, 1941, Serial No. 414,032
9 Claims. (Cl. 172—36)



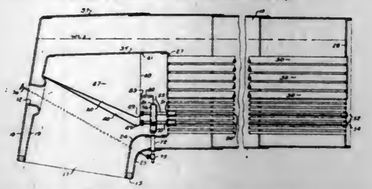
1. A portable electric tool having a field casing adapted to support at its opposite ends, a gear casing and a handle, said tool having in said field casing a motor with a stator and a stator core, the field casing having inwardly projecting portions with their inner surfaces arranged in correspondence with the circumference of the core and means for contracting the circumference of the field casing whereby said surfaces grip and clamp the core.

2,320,114

BOILER CONSTRUCTION

Larkin R. Williamson, Brooklyn, N. Y., assignor to H. H. Pinney, Shaker Heights, Ohio

Application May 24, 1940, Serial No. 337,017
6 Claims. (Cl. 122—68)



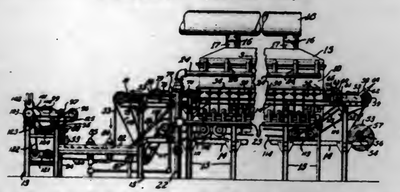
1. The combination of a locomotive boiler having a firebox provided with a flue sheet, a syphonic element disposed in said firebox and having the lower forward portion thereof spaced from said flue sheet and provided with an intake, a flexible hollow member disposed between said lower forward portion and said flue sheet, means communicating the interior of said hollow member with said intake and with that portion of said boiler which is disposed forwardly of said flue sheet, and a conduit communicating between said syphonic element and the upper portion of the interior of said hollow member.

2,320,115

METHOD AND APPARATUS FOR REMOVING THE STRESSES FROM PLASTIC SHEETING

Harvey L. Young, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application June 20, 1940, Serial No. 341,505
7 Claims. (Cl. 18—1)



6. An apparatus for shrinking plastic sheet material containing internal stresses comprising an oven, means for heating the oven, means for supporting and conveying the sheet material through the oven including tubular rolls, and driving and cooling means for the rolls comprising jets of air angularly directed against the inside walls of the rolls, said driving and cooling means being so constructed and arranged that when the sheet material shrinks, slippage occurs between the driving means and the rolls rather than between the rolls and the sheet material.

7. The method of shrinking plastic sheet material containing internal stresses which comprises conveying said sheet material through a heated area on hollow rolls driven and cooled by tangential jets of air impinging on the inside walls of the rolls.

2,320,116

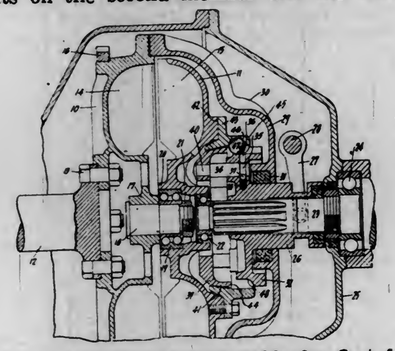
POWER TRANSMISSION MECHANISM

Frank W. Avila, Fort Wayne, Ind., assignor to International Harvester Company, a corporation of New Jersey

Application June 6, 1941, Serial No. 396,895
5 Claims. (Cl. 192—3.2)

1. Power transmission mechanism comprising,

in combination, a pair of coaxial shafts, hydraulic coupling means between the shafts including a driving member and a driven member arranged for rotation about the axis of the shafts, means connecting one of the members to one of the shafts for rotation therewith, friction clutch elements on the second member and the second



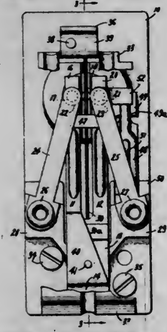
shaft respectively and engageable for first frictionally engaging said second member and second shaft, and positive clutch elements on said second member and second shaft respectively and positively engageable for subsequently connecting said second member and second shaft for rotation together after the initial connection has been effected.

2,320,117

ELECTRIC CONTROL MEANS

Edgar H. Ayers, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 16, 1942, Serial No. 451,202
1 Claim. (Cl. 200—113)



A control device comprising a base made of electrically insulating material, a pair of spring arms extending in parallel relation having adjacent ends secured to said base and their other free ends movable upon flexure of said arms, an armature carried on the free end of each of said arms, a movable contact on the free end of each of said arms, a pair of spring mounted stationary contacts on said base in position to be engaged respectively by said movable contacts, a hot wire thermostat extending lengthwise of said arms, an operating member secured to said arms adjacent said base extending laterally with respect to said arms, a connection between said wire and said operating member, a rigid metallic supporting member extending lengthwise of said arms having one end secured to said base, an adjustable connection between the other end of said supporting member and said wire so that said wire biases said arms normally to positions in which said contacts of said pairs are in engagement with each other, magnet means cooperating with said armatures to effect quick separations of said contacts of said pairs when said wire is heated, and a mechanical interlock between said arms for preventing a predetermined sequence of operation of said movable contacts between their closed and open positions.

2,320,118

HYDROCARBON CONVERSION AND CATALYST THEREFOR

David G. Blaker, Webb City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application April 22, 1940, Serial No. 331,046
13 Claims. (Cl. 196—52)

1. The process of improving the catalytic activity of granular catalysts consisting essentially of alumina, which consists in removing particles smaller than about 40 mesh from the catalyst granules by a stream of water and treating the washed granules with a stream of an aqueous solution containing as the sole active material between about 0.005 and 0.5 per cent by weight of an alkalizing compound that upon being heated to an elevated temperature yields a non-volatile residue containing an element selected from the alkali metals and alkaline earth metals, for a period sufficient for the catalyst to adsorb selectively a total of from about 0.5 to about 6 per cent of the said alkalizing compound by weight.

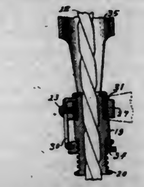
7. A process for the treatment of hydrocarbons which comprises contacting said hydrocarbons under reaction conditions of temperature and pressure with a granular aluminum oxide catalyst consisting of alumina which has been subjected to the action of an aqueous solution containing as the sole active component not more than about 6 per cent by weight of an alkalizing material that upon being heated to an elevated temperature yields a non-volatile residue containing an element selected from the alkali metals and the alkaline earth metals for a period sufficient for the selective adsorption by said alumina of about 0.5 to 6 per cent of said alkalizing material by weight.

2,320,119

MECHANICAL WRENCH

John T. Burks, East Carondelet, Ill.

Application September 16, 1940, Serial No. 357,065
3 Claims. (Cl. 145—76)



1. In a wrench of the character described, a spiral shaft, a tool engaging connection on one end of the shaft, a socket element fitted on the opposite end of the shaft, a sleeve having a spiral bore engageable with the shaft and axially slidable on the shaft, the said sleeve being shaped externally to provide an intermediate non-circular section, a round smooth section at one end

thereof and a screw threaded section at the opposite end of the sleeve, an annulus slidably mounted on the sleeve to selectively engage the round or non-circular sections thereof, a collar threadedly engaging the threaded section of the sleeve, a yoke connecting the said collar with the annulus, and a tubular handle pivotally connected with the said annulus adapted to assume a position concentrically about the shaft and movable to positions in angular relation to the shaft.

2,320,120

ELECTRON DISCHARGE DEVICE

Charles Depew, Oakland, N. J., and Warren Gronros, New York, and Victor L. Ronci, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 21, 1942, Serial No. 439,882
17 Claims. (Cl. 250—27.5)



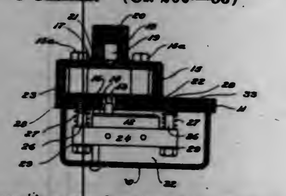
1. An electron discharge device comprising an enclosing vessel, a unitary electrode assembly therein including a plurality of electrodes, spacer members on opposite ends of said electrodes, heat radiating shields exterior to said spacer members connected to opposite ends of one of said electrodes, and second shields encompassing the first shields connected to opposite ends of another of said electrodes.

2,320,121

MECHANISM FOR OPERATING SWITCHES

Stanley H. Durbin, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application October 28, 1941, Serial No. 416,802
3 Claims. (Cl. 200—83)



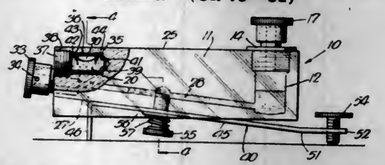
1. An operating mechanism for a switch having a reciprocable actuating member, said mechanism comprising a mounting piece, a rigid air drum fixed upon said mounting piece, means for connecting the interior of said drum with a controlling air source located exteriorly thereof, a diaphragm airtightly secured upon said drum to form, with the latter, an air chamber, and means for holding such a switch upon said mounting piece with its actuating member in operating relationship relatively to said diaphragm whereby said switch may be actuated by movement of its actuating member in response to flexing of the diaphragm caused by air pressure variations within said air chamber, the said switch-holding means being adjustable whereby to permit adjustment of the position of the switch relatively to the diaphragm, the said switch-holding means comprising a rigid member adapted for carrying said switch, a screw coacting with said member and said mounting piece to positively move said member and the switch carried thereby toward said diaphragm, and resilient means coacting with said rigid member and opposing movement of said switch toward said diaphragm.

2,320,122

DRAFT GAUGE

Frank W. Dwyer, Chicago, Ill.

Application July 5, 1941, Serial No. 401,091
7 Claims. (Cl. 73—31)



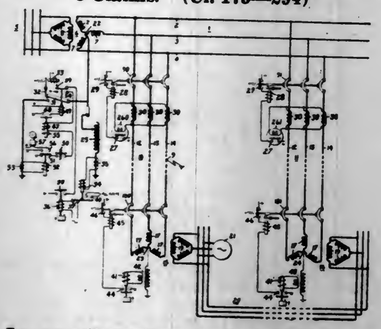
3. A draft gauge comprising a transparent body portion having a transverse bore forming a reservoir in one end portion thereof for containing an indicating liquid, a small bore extending upwardly and outwardly from said reservoir for receiving said liquid therein, a support for said body, a level inserted in a bore in said body, an adjusting supporting member screw-threaded into one end portion of said support and extending below the same for raising and lowering the corresponding end of said support for adjusting the bubble in said level to central position, the upper surface of said support having graduations thereon, and means for relatively adjusting said body along said support to bring the meniscus of the liquid in said bore to zero on said scale.

2,320,123

PROTECTION OF ALTERNATING CURRENT ELECTRIC SYSTEMS

Sherman B. Farnham, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 26, 1941, Serial No. 404,176
8 Claims. (Cl. 175—294)



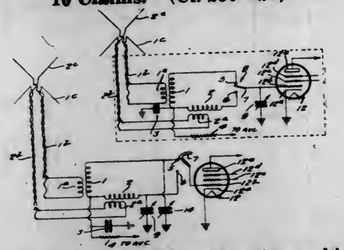
1. In an alternating current electric system having a neutral point and of the type in which a fault to ground on one phase conductor of the system substantially increases the capacitance current to ground of the ungrounded phase conductors of the system, a feeder, circuit interrupting means for establishing a direct electric current conducting connection between said neutral point and the phase conductors of said feeder at one point thereof, an inductive connection between said neutral point and ground having a zero phase sequence inductance operative on the occurrence of a ground on the system to provide a lagging current for effectively suppressing the capacitance current to ground at the grounded point, means operative when the current in said neutral point to ground connection exceeds a predetermined value for a predetermined time for establishing between said neutral point and ground a path of lower impedance than said inductive connection whereby to increase the flow of ground fault current in said feeder, means operative in dependence on the increased ground fault current flowing in the faulty feeder through said circuit interrupting means for effecting the opening thereof, energizing means, means for effecting only an inductive connection between said energizing means and the phase conductors of said feeder at another point thereof, and means including a time delay relay responsive to the existing unbalanced voltage of said feeder conductors following the opening of said circuit interrupting means for effecting the disconnection of the feeder from said energizing means.

2,320,124

RADIO RECEIVER FOR HORIZONTALLY POLARIZED WAVES

Henry C. Forbes, Eggertsville, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y.

Application January 18, 1941, Serial No. 374,966
10 Claims. (Cl. 250—20)



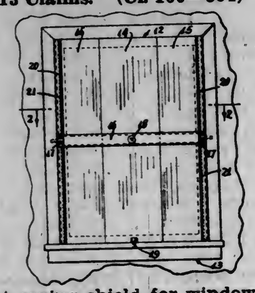
1. A radio receiver comprising, in combination, at least one vacuum tube, a pair of coils having similar constants selectively connectable in the input circuit of said vacuum tube means for tuning said coils alike and in unison to the desired signal frequency, a pair of doublet antennas arranged at angles to each other and tuned alike, a transmission line extending from each doublet to said receiver, each transmission line terminating in a coil, said coils being coupled to said first mentioned coils respectively, and selectively operable means for connecting one or the other of said first mentioned coils in the input circuit of said tube.

2,320,125

HEAT SAVING SHIELD FOR WINDOWS

Isaac Goldmerstein, New York, N. Y.

Application February 8, 1943, Serial No. 475,105
13 Claims. (Cl. 160—354)



1. A heat saving shield for windows, comprising a stiff board for extending across the inside dimensions of a window frame and having a back panel and flexibly connected side panels obliquely extending forwards against the sides of the window frame, and a stiff strip adapted to be mounted across said window frame and to bear against said back panel for holding said board in position.

2,320,126

PREPARATION OF COATING COMPOUND FROM DRYING OIL AND PHENOL-ALDEHYDE RESINS

Charles H. Groff, Crafton, and Wilbur W. Castor, Mount Lebanon, Pa., assignors to Stoner-Mudge, Inc., a corporation of Pennsylvania

No Drawing. Application October 4, 1941, Serial No. 413,698
4 Claims. (Cl. 260—19)

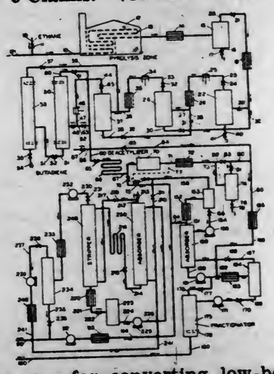
1. The method herein described of preparing an incompletely resinified coating compound free of volatile solvent, capable of being spread and of being thereafter completely resinified under heat, which consists in milling together in pure state, in the absence of volatile solvent or diluent, with reaction, and under heat-dissipating conditions and with a temperature rise to a peak of substantially 175° F. a drying oil and an unmodified, oil-soluble, alkaline-condensed, heat-and-oil-reactive, resinous phenol-aldehyde reaction intermediate.

2,320,127

TREATMENT OF HYDROCARBONS

Karl H. Hachmuth, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

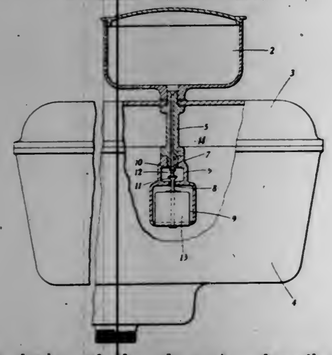
Application September 9, 1940, Serial No. 356,084
9 Claims. (Cl. 260—683.4)



9. A process for converting low-boiling paraffins of at least four carbon atoms per molecule along with gaseous olefin hydrocarbons into higher boiling hydrocarbons, which comprises passing a low-boiling hydrocarbon material containing paraffins of at least four carbon atoms per molecule as an absorption liquid to an absorber, passing a normally gaseous mixture comprising olefins and gases lower boiling than C_2 hydrocarbons to a separator, passing a gaseous mixture from said separator to a low point of said absorber, discharging unabsorbed gases from said absorber, passing a rich absorption liquid from said absorber to said separator, passing a liquid mixture from said separator to a fractionator as a reflux, passing a gaseous mixture from said fractionator to said separator, removing from the bottom of said fractionator a liquid comprising said original absorption liquid and

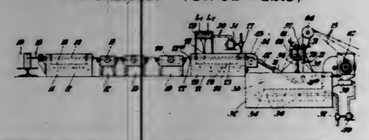
absorbed olefins, and passing said liquid to a reaction zone to form therefrom higher boiling hydrocarbons.

2,320,128
APPLIANCE FOR MIXING AND DISTRIBUTING LIQUID DISINFECTANTS OR OTHER FLUIDS
David George Hall, Newport, England
Application November 10, 1941, Serial No. 418,614
In Great Britain February 15, 1940
1 Claim. (Cl. 4—227)



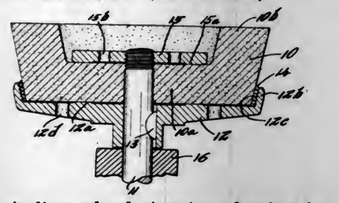
In a device of the character described, the combination with a cistern having a removable cover, of a reservoir for disinfectant secured to the outside of the cover of the cistern, a pipe fixed to the reservoir and cover and extending downward into the cistern, a measuring chamber secured to the lower end of the pipe and having a valve controlled inlet to the pipe at the top and a valve controlled outlet at the bottom, valves in the interior of the measuring chamber, a spindle movable through said outlet and to which the valves are rigidly secured, and a float fixed to the lower end of the spindle and vertically movable in the cistern over a shorter distance than the difference in the levels of the liquid when the cistern is filled and discharged respectively, the measuring chamber being provided with a venting passage continuously open at one end to the interior of the cistern above the upper level of the liquid therein and continuously open at the lower end to the interior of the measuring chamber.

2,320,129
METAL COATING
Arch W. Harris, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Original application June 23, 1939, Serial No. 280,895. Divided and this application March 14, 1940, Serial No. 324,011
10 Claims. (Cl. 91—12.5)



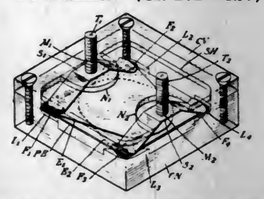
1. Wire coating apparatus comprising a bath of molten metal; a tube passing into said metal and terminating upwardly at a point beneath the surface of said bath; and means for causing a wire to pass through said bath and tube; there being means for preventing entry of molten metal into said tube at its submerged terminus.

2,320,130
GUARD FOR GRINDING WHEELS
Frank O. Harris, Minneapolis, Minn.
Application March 16, 1942, Serial No. 434,871
5 Claims. (Cl. 51—209)



1. A grinding wheel structure having in combination, a wheel having a central disk-like portion and an annular flaring flange extending forwardly from its outer portion, said central portion having a bore therethrough, a shaft passing through said bore, a circular disk overlying said disk-like portion and extending to adjacent said flange, said disk being secured to said shaft and a member in the rear of said wheel against which it is held having a peripheral flange extending around the rear portion of the periphery of said wheel and cooperating with said circular disk to prevent a segment of said wheel when broken from being centrifugally projected outwardly.

2,320,131
PIEZOELECTRIC CRYSTAL APPARATUS
Stuart C. Hight, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 14, 1941, Serial No. 406,797
14 Claims. (Cl. 171—327)

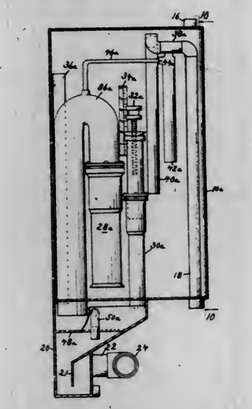


1. A holder for a piezoelectric crystal element having means comprising a plurality of springs for clamping only the corners of said crystal element and establishing individual electrical connections with the opposite electrode faces of said crystal element, said plurality of springs having a common support and being disposed only on one side and adjacent only one face of said opposite electrode faces of said crystal element.

2,320,132
FLUSH TANK
Victor A. Hoffmann, Harvey, Ill.
Application July 15, 1940, Serial No. 345,483
10 Claims. (Cl. 4—43)

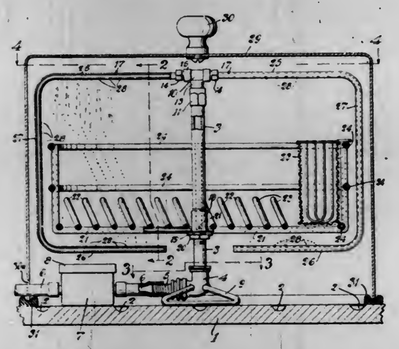
1. In a flush tank, a supply pipe extending into said tank, said supply pipe having a horizontal portion positioned above the normal water level of the tank, a discharge passageway extending from the bottom of said horizontal portion, an overflow passageway positioned at a point above said discharge passageway, said discharge passageway being restricted and then expanded below said horizontal pipe, a discharge siphon positioned within said tank, the intake end of said siphon being positioned closely adjacent the interior surface of the floor of said tank, the outlet

end of said siphon being positioned exteriorly of said tank, means for sealing both intake and outlet ends of said siphon against the passage of air therethrough, a siphon vent passageway extending from the siphon to a point immediately below



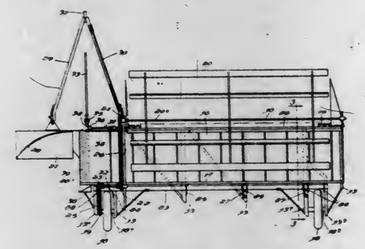
the restricted portion of the discharge passageway, said siphon vent passageway and said discharge passageway providing ejector means for expelling air trapped between the sealed ends of said siphon.

2,320,133
DISHWASHER
Harold H. Horwitz, Chicago, Ill., assignor to Rose G. Horwitz, Chicago, Ill.
Application July 3, 1941, Serial No. 400,905
9 Claims. (Cl. 141—9)



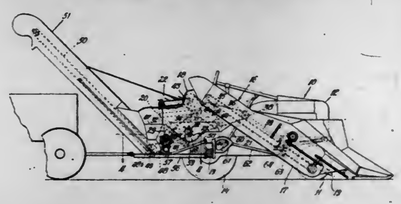
1. In a dish washer, a standpipe, a dish basket concentric with and supported entirely upon the standpipe, a spinner head on the standpipe above the basket, and a spray pipe extending outwardly from the spinner head to beyond the periphery of the basket, then extending downwardly below the basket and then extending inwardly toward the standpipe, means for supplying water to the standpipe and therethrough and through the spinner head to the spray pipe, the spray pipe having apertures adapted to direct water downwardly, inwardly and upwardly against the basket and its contents, the portion of the spray pipe extending across and above the basket, being curved, the portion of the pipe which extends downwardly about the basket being rectilinear.

2,320,134
HARVESTER
Edwin F. Huddle, Elmwood Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application April 20, 1942, Serial No. 439,649
3 Claims. (Cl. 56—158)



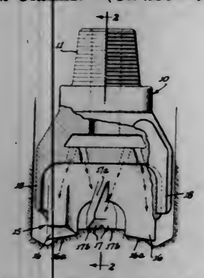
1. A construction comprising a platform, supporting wheels positioned at one side of the platform adjacent opposite ends thereof, an element resistant to twisting extending along the said one side of the platform, between the platform and the wheels, a first member connecting one wheel and one end of the platform so as to support the same and being secured to one end of the element against angular movement with respect thereto, a second member connecting the other wheel and the other end of the platform so as to support the same and being connected to the other end of the element so as to be permitted angular movement with respect thereto about the element as an axis, and adjustable means acting between the element and the second member to effect angular movement between the element and the member and thereby to raise the said other end of the platform.

2,320,135
CORN PICKER
Benjamin M. Hyman, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 20, 1941, Serial No. 407,538
4 Claims. (Cl. 56—18)



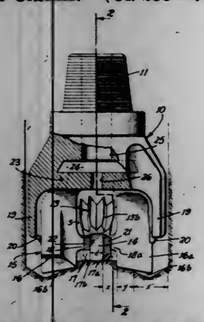
1. In combination, a tractor having a power take-off and a rear axle, supporting structure secured to the rear of the rear axle, a harvester extending alongside the tractor and over the rear axle and having a transversely extending tubular section at the rear by means of which the harvester is pivotally mounted on the supporting structure, and means connecting the power take-off and the harvester for driving the same and comprising a longitudinally extending shaft connected with the power take-off, a gear-box connected with the longitudinally extending shaft, and transversely extending shaft means connected with the gear-box and rotatably supported in the said tubular section.

2,320,136
WELL DRILLING BIT
Archer W. Kammerer, Fullerton, Calif.
Application September 30, 1940, Serial No. 358,946
2 Claims. (Cl. 255—71)



1. A drill bit, including a main body having a pair of opposed depending legs, a threaded pin extending inwardly and downwardly from each leg, a bearing sleeve threaded on each pin and abutting its associated leg, a side roller cutter rotatably mounted on each sleeve, a plug threaded in the inner end of each sleeve, a second pair of legs depending from said body between said first-mentioned pair, a drag assembly secured to said second pair of legs and having inner and outer cutters disposed at an angle to each other, said inner cutters being secured to said plugs to prevent their rotation.

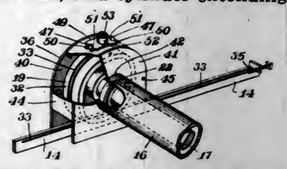
2,320,137
ROTARY DRILL BIT
Archer W. Kammerer, Fullerton, Calif.
Application August 12, 1941, Serial No. 406,492
10 Claims. (Cl. 255—71)



1. A drill bit, including a main body, bearing supporting means carried by said body, side roller cutters rotatably mounted on said bearing supporting means, a drag assembly secured to said main body and having inner and outer cutters disposed at an angle to each other, said inner cutters lying in separate planes that are spaced from each other, and means for securing said inner cutters to said bearing supporting means.

2,320,138
DRUM CLEANING DEVICE FOR CARVING MACHINE STRUCTURES
Julian N. Kirby and Earl W. Grumke, St. Paul, Minn., assignors to St. Paul Machinery Manufacturing Company, St. Paul, Minn., a corporation of Minnesota
Application August 7, 1941, Serial No. 405,768
2 Claims. (Cl. 144—137)

1. A carving machine having in combination, a frame, a tool carrying member extending longitudinally thereof, a track including a rail extending transversely of said frame, a wheel carrying said member movable on said rail, a casing enclosing said wheel movable with said wheel and member, a hollow cylinder internally threaded at its outer end, said cylinder extending through



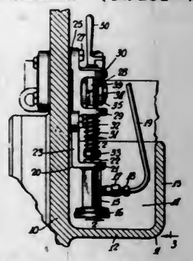
said casing and having an open inner end adjacent said wheel, a plug having threaded means engageable with said cylinder and accessible from outside said casing, and a wheel cleaning pad within said cylinder and projecting from said inner end into engagement with said wheel and being held in adjusted position by said plug.

2,320,139
FLEXIBLE ABRASIVE ARTICLE
Henry P. Kirchner, Niagara Falls, N. Y., assignor to Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application January 23, 1941, Serial No. 375,689
10 Claims. (Cl. 51—195)



1. A flexible abrasive sheet comprising a layer of abrasive particles adhesively secured to a composite backing formed successively of a layer of cloth, a layer of kraft paper in which the cellulosic fibres are relatively slightly hydrated, and a base layer composed of compressed cellulosic fibres that have been highly hydrated, the layer of paper being substantially thicker than the layer of highly hydrated cellulosic fibres and the successive layers being united by means of hardened adhesive.

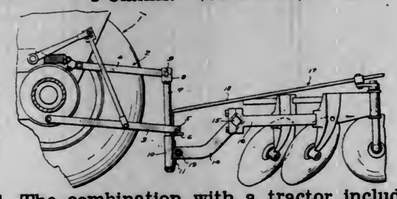
2,320,140
LUBRICATION
Edward H. Kocher, Boonton, N. J., assignor to Auto Research Corporation, a corporation of Delaware
Application August 3, 1940, Serial No. 350,649
2 Claims. (Cl. 184—27)



1. A pump unit comprising a bracket having three legs extending therefrom, a pump cylinder unit clamped to one of said legs and having a piston therein, a connecting rod jointed to and aligned with said piston, said connecting rod extending through the other two legs of said bracket, operating means intervening between said other two legs and having a clevis connection to said connecting rod for operating said pump, a

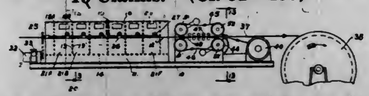
stop on the lower end of said connecting rod and a coiled spring encircling the same, reacting at one end against the intermediate leg and at the other end against said stop, to urge the piston to discharge position.

2,320,141
PLOW HITCH
Louis Kott, Fredericksburg, Tex., assignor to Fredericksburg Implement Co., Fredericksburg, Tex., a partnership
Application September 30, 1942, Serial No. 460,250
3 Claims. (Cl. 97—47)



1. The combination with a tractor including a hydraulic implement control comprising tension and compression links and a draw bar extending between the tension links, of a vertical shaft fixed, at an intermediate point, on the draw bar and having its upper end pivotally connected to the compression link, a sleeve journaled on the lower portion of the shaft, arms mounted for swinging movement on said sleeve, and a tool bar mounted on said arms.

2,320,142
GRINDER MACHINE FOR STRIP STOCK OR THE LIKE
Louis Illmer and Vernon R. Pallas, Cortland, N. Y.; said Pallas assignor to Leota T. Pallas
Application July 14, 1941, Serial No. 402,352
15 Claims. (Cl. 51—150)



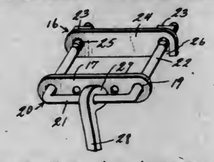
1. A grinder machine comprising a housing equipped with a pair of spaced guideway means, independent partition means demountably piloted by the respective guideway means, said partition means being each adapted to have a common elongated work piece entered therethrough, an abrasive element carried by each such partition means as a self-contained unit for bodily removal therewith, said elements being respectively brought into operative engagement with the work piece to constitute separate cutting zones therealong, means for feeding said elements toward their respective zones, and means for dragging the work piece longitudinally through the aforesaid cutting zones.

2,320,143
PACKAGE
Albin Sven Johnson, Ironwood, Mich.
Application July 9, 1940, Serial No. 344,569
2 Claims. (Cl. 206—56)



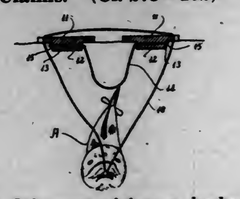
1. A package of the class described comprising a plurality of substantially flat, stacked articles, a wrapper enclosing each article, a tab on one end of the wrapper folded therebeneath, a tab on the other end of the wrapper folded thereover, a wrapper enclosing the stack of wrapped articles, and means integral with the second named wrapper for opening one end portion only thereof for exposing said other ends of the first named wrappers and the second named tabs thereon, the first named tabs being opposed to the second-named tabs on the adjacent faces of the stacked articles and engageable therewith for lifting same as the articles are removed one at a time from the second named wrapper.

2,320,144
AUXILIARY LADDER LEG
Eric Johnson, Brodhead, Wis.
Application October 6, 1942, Serial No. 461,001
2 Claims. (Cl. 228—63)



1. In a supporting structure such as a ladder, scaffold and the like, having a supporting standard, an auxiliary leg for attachment to said standard, comprising an elongated member designed to be disposed against one side of the standard, means carried by the member for sliding engagement with the standard forming a guide, and a clamping unit for frictionally securing the member and standard together against relative movement, comprising an elongated plate disposed transversely of one side of the member remote from the standard and secured to the member and having ends projecting beyond the adjacent sides of the member, said projecting ends having guide apertures, a U-bolt having a yoke portion and spaced parallel legs, said legs being extended through the apertures of said plate whereby the legs are extended across the member and the adjacent standard, the yoke being adjacent to and in parallel relation with the plate, a second plate connected between the legs of the U-bolt and disposed across the side of the standard remote from the member, removable securing means carried by the ends of the U-bolt legs and engaging against the second plate, a lever, and an eccentric head oscillatably supported upon said yoke and bearing against the first plate, said head functioning, upon oscillation of the lever in one direction, to draw the member and standard into firm frictional engagement.

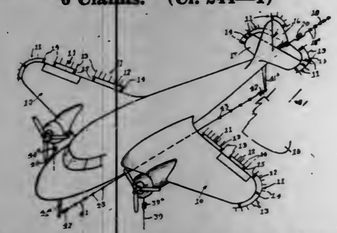
2,320,145
TARGET FISH
Harry J. La Due, Duluth, Minn.
Application June 5, 1940, Serial No. 338,955
15 Claims. (Cl. 273—102)



1. A target fish comprising a body designed

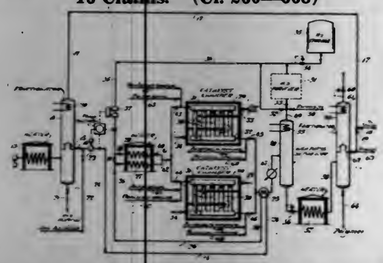
to move through the water and to simulate a fish, a normally inactive means for driving said body through the water, means controlling said driving means to start said driving means in motion, disengageable means operable, when engaged with said controlling means, to actuate the same, and means connected to said body for holding said fish in position beneath the surface of the water when said driving means is not in operation.

2,320,146
SAFETY MEANS FOR AIRCRAFT
John B. Leake, Maywood, Ill.
Application June 22, 1938, Serial No. 215,105
6 Claims. (Cl. 244—1)



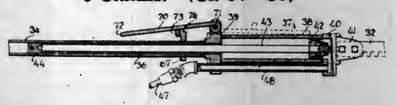
1. The combination with a motor driven aircraft of static dissipating members electrically connected to the craft and disposed in position to be heated by and enveloped by ionized gases from the motor exhaust.

2,320,147
AROMATIZATION
Edwin T. Layng and Louis C. Rubin, Jersey City, N. J., assignors to The M. W. Kellogg Co., Jersey City, N. J., a corporation of Delaware
Application September 13, 1939, Serial No. 294,784
16 Claims. (Cl. 260—668)



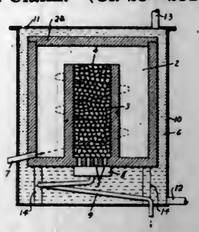
2. A process for converting a naphtha charging stock rich in aliphatic hydrocarbons of from 6 to 12 carbon atoms into hydrogen and a motor fuel or motor fuel component rich in aromatic hydrocarbons involving a cyclic catalytic operation including alternating on-stream and regeneration periods which comprises contacting during the on-stream period said naphtha charging stock in the vapor phase with a dehydrogenating and cyclicizing catalyst at a temperature between 875° F. and 1075° F. maintained by supplying the endothermic heat of reaction to the catalyst contact zone, at a time factor of from 0.1 to 25, where the time factor is the number of hours required to pass one volume of charge measured as liquid through one volume of catalyst space, the time factor being selected within said range relative to the particular temperature maintained so as to effect dehydrogenation and cyclization of said aliphatic hydrocarbons and at a pressure of from 30 pounds per square inch gage to about 450 pounds per square inch gage in the presence of added hydrogen in an amount ranging from 0.4 mols of hydrogen per mol of said charging stock to 9 mols of hydrogen per mol of said charging stock, and removing net produced hydrogen from the process, whereby the feasible on-stream period for said conversion is substantially increased and there is produced from said charging stock a net yield of hydrogen and a high yield of highly aromatic material boiling within the gasoline boiling point range, having a high octane number and an A. P. I. gravity less than the A. P. I. gravity of such portion of said charging stock as boils within the gasoline boiling point range.

2,320,148
TRACTOR POWER LIFTING ARRANGEMENT FOR CULTIVATORS
Alexus C. Lindgren, Chicago, and Carl W. Mott, La Grange, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application July 12, 1940, Serial No. 345,144
6 Claims. (Cl. 97—50)



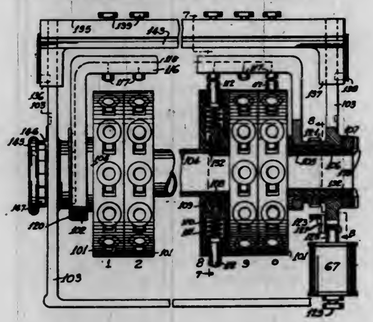
1. In combination, a frame, an implement connected to the frame for movement with respect thereto, an extensible linkage between the implement and the frame to effect movement of the implement upon being extended, and including overlapping parts, one of said parts having an abutment portion, the other of said parts having a latch element hinged thereon, said latch element having a plurality of portions spaced apart in the direction of extension of the linkage and selectively engageable with the abutment portion to retain the linkage in either its extended or unextended form to thereby retain the implement against movement.

2,320,149
PRODUCER OF PROTECTIVE GASES FOR THE HEAT TREATMENT OF METALS
Karl-August Lohausen, Hennigsdorf, Krs. Osthavelland, Germany, assignor to General Electric Company, a corporation of New York
Application October 7, 1940, Serial No. 360,148
In Germany November 11, 1939
1 Claim. (Cl. 23—281)



Apparatus for producing protective atmospheres by combustion of a gaseous mixture of hydrocarbons and air, said apparatus comprising a vertical, cylindrical combustion chamber in which a gaseous mixture of hydrocarbons and air is burned, a cylindrical catalyst chamber located concentrically in said combustion chamber and adapted to contain a catalyst for accelerating the reactions taking place during combustion of hydrocarbons, the said catalyst chamber having an opening at the top thereof communicating directly with said combustion chamber to permit passage of combustion products formed in said combustion chamber into said catalyst chamber and an outlet for the gaseous products of combustion of the bottom thereof, and means for introducing a burning gaseous mixture of hydrocarbons and air tangentially into said combustion chamber comprising an inlet tube tangentially entering the lower portion of said combustion chamber so that the combustion gases leaving the tube within the combustion chamber pass helically around and in heating contact with said catalyst chamber before entering said catalyst chamber.

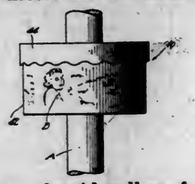
2,320,150
CODE SELECTIVE APPARATUS
Matthew H. Loughridge, Bogota, N. J., William R. Lockridge, administrator of said Matthew H. Loughridge, deceased
Application July 9, 1940, Serial No. 344,493
3 Claims. (Cl. 177—353)



1. Code selective apparatus comprising a scanning system, a group of relays controlled by said scanning system, adjustable apparatus controlling the circuits of said relays so that a predetermined number of selected relays may be operated by said scanning system according to a prearranged code, said apparatus comprising a frame with a row of insulated discs mounted on a shaft for the circuit of each relay, a plurality of contacts radially arranged on each disc, means for securing each contact in an inoperative position, a bar parallel with said shaft sliding on said frame and normally clear of said discs, means for moving said bar to engage said discs, a key on said bar for each disc, means for releasing each contact of the disc to the operative position by the operation of the corresponding key, means for rotating said discs relative to said bar for releasing the contacts, and a bail rotatably mounted on said shaft when said bar is in the normal position and rotating about said discs and an insulated contact on said bail for each disc engaging the released contacts of the discs for continuing the circuit of the selected relays.

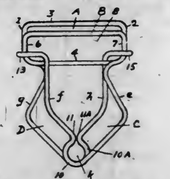
2,320,151
ROTARY ADVERTISING DISPLAY DEVICE
Kenneth A. McConaughy, New York, N. Y.
Application September 20, 1941, Serial No. 411,636
10 Claims. (Cl. 40—33)

1. An advertising device comprising in combination, an annular member, means for supporting said member in a horizontal elevated position, an annular rail, grooved rollers carried by said member in frictional engagement with the inner periphery of said rail, an annular advertising screen secured to and depending from said rail, and a motor driven means operatively



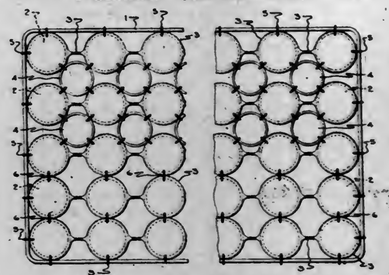
connected to one of said rollers for imparting driving rotation thereto to cause rotation of said advertising screen.

2,320,152
METAL TRIMMING FOR OVERALLS
Fred E. Mefford, Colorado Springs, Colo.
Application November 19, 1942, Serial No. 466,184
12 Claims. (Cl. 24—73)



1. A trimming for garments of the class described, consisting of an integral wire structure having a pair of keepers at the top formed of substantially one and one half coils to provide a take up for shoulder straps, and a pair of cooperating loops depending from said coils with their longitudinal median lines substantially coplanar with the longitudinal median line of the device as a whole, one side of each loop being integral with an end of a coil and the other side slidably connected to the opposite ends of the coils, the loops being imposed one upon the other with each integral side extending laterally beyond the slidably connected side of the other loop to afford clearance for manually swinging said loops inwardly of the device.

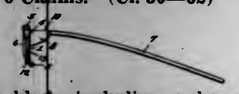
2,320,153
SPRING CONSTRUCTION
Alexander W. Moske, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a corporation of Delaware
Application October 17, 1940, Serial No. 361,501
5 Claims. (Cl. 155—179)



1. In an automobile seat cushion spring, a generally rectangular top border frame, a plurality of laterally extending rows of spiral springs disposed on end within said border frame and encased in fabric pockets, a plurality of laterally extending rows of bare spiral springs disposed on

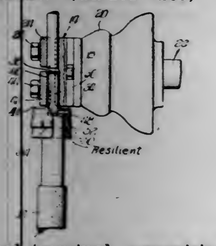
end within said border frame, said rows of bare spiral springs being alternated with certain rows of fabric encased springs, the outer rows of springs being encased, the springs of said bare rows of springs being in nested relation to the springs of said fabric encased rows of springs, said fabric encased springs being spaced laterally a greater distance than from front to back, all of said springs having top coils disposed under normal conditions substantially in a general plane, said top coils being in substantial tangential engagement with one and another, pig rings connecting said top coils together at adjacent points, and pig rings connecting border coils to said border frame, said pig ring connected coils providing a surface constituting an extensible connection between opposite sides of said frame, said connection being extensible due to the sliding of certain of said pig rings on the bare top coils when a load is placed on the top of said top coils, whereby when a load is placed on said top coils, each spring is provided with a greater freedom of individual action than would be obtained if all the coils were pig ringed together in a straight line normal to the sides of said border frame.

2,320,154
SAFETY RAZOR
Robert B. Nunnally, Harlingen, Tex.
Application March 31, 1943, Serial No. 481,340
6 Claims. (Cl. 30—62)



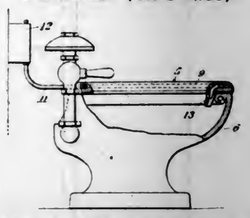
1. A razor blade including a base having a transverse slot adjacent to one edge thereof, said edge constituting a guard, a clamping plate, springs integral with and connecting said plate and base at one edge for urging the plate normally against the base, centering elements extending from those corners of the base remote from the slot, and a handle extending from the base.

2,320,155
ELECTRICAL CONNECTION
Andrew E. Papp, Chicago, Ill., assignor to G & W Electric Specialty Co., Chicago, Ill., a corporation of Illinois
Application November 1, 1940, Serial No. 363,801
3 Claims. (Cl. 173—269)



1. An electrical terminal, comprising a cable having a conductor laid bare at one of its ends, a protective hood fitting over and completely enclosing said conductor and having a yieldable wall to provide for an electrical connection therethrough, said cable being secured to said protective hood by means external thereto, a collar of resilient material embracing said cable adjacent said conductor, and said hood having a skirt overlapping the cable covering and embracing said collar.

2,320,156
SANITARY DEVICE
Goldye S. Perlmutter, Los Angeles, Calif.
Application April 11, 1941, Serial No. 388,174
3 Claims. (Cl. 4—233)



1. In a device of the character described, a toilet seat constructed of porous material and adapted for support on a toilet bowl, a perforated tube extending within said seat, a fluid disinfectant supply connected to said tube for permeating said seat with said disinfectant, said seat formed with a depending lip adapted to extend within said bowl, said tube having an end terminating within said lip whereby to supply said bowl with disinfectant.

2,320,157
CATHETER
Paul A. Raiche, North Providence, R. I., assignor to Davol Rubber Company, a corporation of Rhode Island
Application June 6, 1936, Serial No. 83,948
2 Claims. (Cl. 128—349)



1. An integral one piece inflatable catheter having a bore and a wall recess spaced from the end, the wall of the catheter having a fluid passageway extending longitudinally thereof and communicating with said recess, the wall portion between the wall recess and the end having a discharge opening therethrough communicating with the bore, the catheter having a fluid inlet boss provided with a funnel shaped inlet communicating with said passageway.

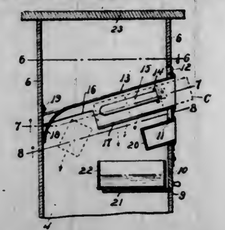
2,320,158
LEATHER BELTING
Homer J. Shivell, Kingsport, Tenn.
Application May 10, 1940, Serial No. 334,299
3 Claims. (Cl. 74—232)



1. The method of preparing a leather adapted for use in belting and the like which comprises removing the grain from the flesh split, stretching the flesh split, and reconstructing the leather by cementing the unstretched grain back onto the stretched flesh split.

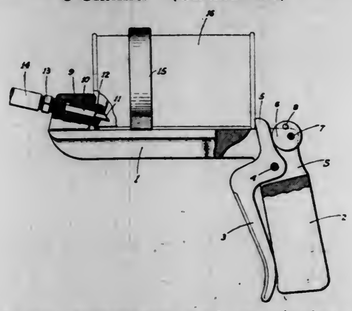
2,320,159
COMBINED DISPLAY RACK, OIL SAVER, AND WASTE CAN RECEPTACLE
Harvey J. Smith, Danville, Va., assignor to W. Ira Barker, Danville, Va.
Application September 19, 1940, Serial No. 357,475
8 Claims. (Cl. 221—69)

1. In apparatus of the character described, a receptacle having front, back and side walls, a chute entering through one of said walls and extending toward the opposite wall for receiving



and retaining, seriatim, at the same time, a plurality of empty oil cans to drain the same, and means to receive the oil drained from said cans.

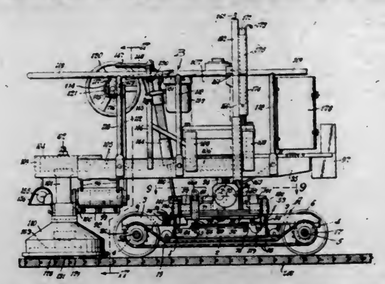
2,320,160
CAN PUNCTURING DEVICE
Ward E. Snowden, Modesto, Calif., assignor to Ansul Chemical Company of California, a corporation of California
Application May 2, 1941, Serial No. 391,557
3 Claims. (Cl. 221—23)



1. A can supporting and puncturing device comprising an elongated body, a rigid can puncturing tube mounted on the body adjacent one end and projecting toward the other end in spaced relation to said body, a hand grip depending from the body at said other end, a trigger pivoted on a transverse axis relative to the body and depending adjacent said hand grip, an upstanding finger on and projecting upwardly from said trigger, said finger being adapted upon swinging of the trigger toward the hand grip to move in a direction to engage and advance a can supported on the body between the puncturing tube and said finger, and a movable locking member mounted on the body and arranged to releasably engage said finger when the latter is disposed in can engaging and advanced position.

2,320,161
CAR FLOOR SURFACING DEVICE
Henry H. Talboys, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 2, 1940, Serial No. 349,799
16 Claims. (Cl. 144—119)

1. In a floor finishing device for freight cars and the like, a base member, means for guiding it for longitudinal movement along the car floor, including adjustable members adapted to engage the inner faces of the side walls of the car, a boom movable about a vertical axis, a finishing head mounted thereon for horizontal and vertical movement, and means for rotating the finishing head, said boom being movable through an arc sufficient to position the finishing head beyond either side of the base member but intermediate the ends of the base member, and means for locking it in adjusted position.



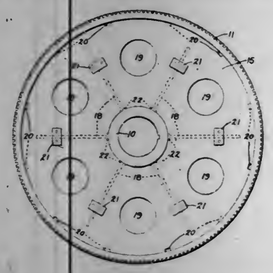
2,320,162
AIR VALVE
Edward P. Zelnis, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application August 2, 1940, Serial No. 350,035
5 Claims. (Cl. 137—122)

1. An air valve comprising a casing having an air vent at one end, a separate sheet metal bottom member at the other end, one face of which forms the exterior face of the bottom of the casing and which acts as the closing member for the bottom of the casing, said member located on the interior of the casing and having a central part which projects inwardly into the casing and an outer peripheral part integral with the central projecting part which projects inwardly into the casing to a greater extent than the central part, and a float in the casing, which normally rests on said central projecting part, the lower end of the float projecting into and being confined within said peripheral projecting part.

2,320,163
FUSION WELDING
Jasper E. Anderson, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Application September 29, 1941, Serial No. 412,913
4 Claims. (Cl. 29—159)

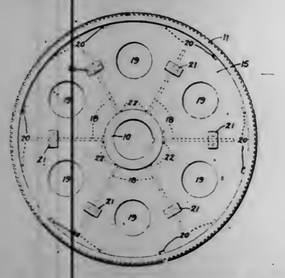
1. The method of welding plates and a stiffening rib for said plates to one another and to a rigid support member, said method comprising

attaching by fusion welds the edges of said plates to said rigid support member and the sides of said plates to the side edges of said rib located therebetween so that one end thereof is spaced from said rigid support member, interposing between the end of said rib and the surface of said rigid support member a joint member having end portions which deflect to accommodate weld contractions and which extend a substantial distance be-



yond the sides of said rib and are spaced from the surface of said rigid support member by gaps that taper inwardly from its opposite ends toward its midportion, attaching the end of said rib to the midportion of said joint member by a fusion weld, and completing the assembly by attaching the opposite ends of said joint member to said rigid support member by fusion welds which span the gaps between said joint member and said rigid support member.

2,320,164
WELDED ASSEMBLY
Jasper E. Anderson, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Original application September 29, 1941, Serial No. 412,913. Divided and this application July 10, 1942, Serial No. 450,443
2 Claims. (Cl. 74—439)

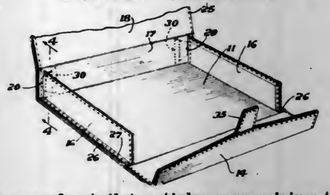


1. A welded assembly comprising a rigid support member, plates having their edges connected by fusion welds to said rigid support member, a rib located between and engaging said plates and having its opposite side edges connected by fusion welds to the sides of said plates, a joint member located between said rigid support member and the adjacent end of said rib, said joint member having end portions that extend from each side of said rib and are spaced from said rigid support member by gaps that taper inwardly from its ends toward its midportion, a fusion weld connecting the end of said rib to the midportion of said joint member, and fusion welds extending across said gaps and connecting the ends of said joint member with said rigid support member.

2,320,165
METHOD OF MANUFACTURING PROTEIN PRODUCTS
Francis C. Atwood, Newtonville, and William Paterek, Brighton, Mass., assignors to Atlantic Research Associates, Inc., Newtonville, Mass., a corporation of Delaware
No Drawing. Application March 7, 1939, Serial No. 260,334
7 Claims. (Cl. 260—120)

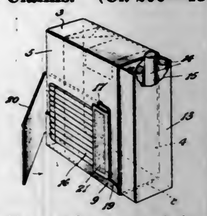
1. A process of manufacturing a protein product which comprises adding a protein precipitating enzyme to an aqueous dispersion of an acid and enzyme precipitable protein, permitting the mixture to stand in a quiescent state to precipitate the protein in the form of a clot, breaking up the clot to form a curd, acidulating the mixture immediately after precipitation and prior to separating the curd from the liquid in which it is precipitated, and separating the protein from the liquid.

2,320,166
CASE TO HOLD TOILET ARTICLES
Berel A. Arnold, Boston, Mass., assignor to Knight Leather Products Co., Inc., Boston, Mass., a corporation
Application April 13, 1942, Serial No. 438,763
6 Claims. (Cl. 229—6)



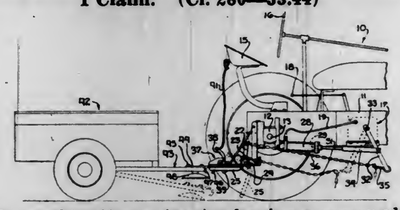
1. A case for toilet articles comprising two side walls, a back and a bottom, said side walls being fastened to said back and spaced inwardly from the outer side edges thereof, said side walls embodying an inner covering having a tongue extension and an outer covering having a tongue extension, said bottom having slots therein at opposite side extremities spaced from the outside edges thereof, said tongue extensions extending through said slots and being attached to said bottom.

2,320,167
CIGARETTE PACKAGE AND MATCH BOOK HOLDER
Charles C. Baldwin, St. Louis, Mo.
Application September 23, 1938, Serial No. 231,445
8 Claims. (Cl. 206—48)



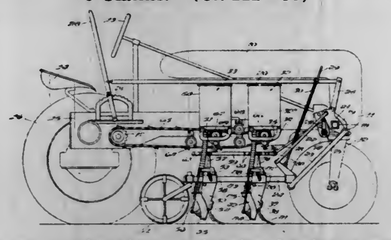
1. A cigarette package container and match holder comprising a blank of sheet material folded to form a container adapted to receive a pack of cigarettes, one end portion of the blank forming a wall for the container and the other end portion of the blank forming a flap overlapping the lower end portion of said wall and formed with a transversely extending tongue engaging through a slit in the wall to releasably secure the flap to the wall, and said wall having a portion cut to form a slit having a U-shaped intermediate portion defining a tongue whereby the folder of a book of matches may be passed through the U-shaped slit and mounted against the outer face of the wall.

2,320,168
TRACTOR
Bert R. Benjamin, Oak Park, and Harry J. Mott, Maywood, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application September 23, 1940, Serial No. 357,906
1 Claim. (Cl. 280—33.44)



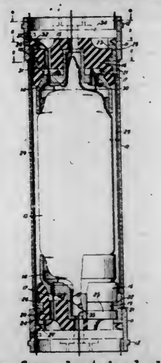
In combination, a tractor having a power plant and a pivotally mounted draw-bar which is adapted to move vertically, a rock-shaft journaled on the tractor, means connecting the power plant and the rock-shaft in such a manner that upon operation of the power plant the rock-shaft is rotated, means connecting the rock-shaft and the draw-bar, a hitch part having an opening, said hitch part secured to the draw-bar, and a member movably associated with the hitch part and extending over the opening in said hitch part and mounted on the tractor in such a manner that upon downward movement of the draw-bar the member will move away from said opening so that said opening may engage an implement and on upward movement of the draw-bar the member will move toward the opening and hold the implement in engagement with said hitch part.

2,320,169
TRACTOR PLANTER
Bert R. Benjamin, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 18, 1941, Serial No. 423,506
9 Claims. (Cl. 111—35)



1. In combination, a tractor having a power take-off mechanism, fertilizer dispensing mechanism connected to the tractor, seed planting mechanism connected to the tractor, hill-drop devices associated with each of the respective fertilizer and seed mechanisms, a check-wire operating device carried by the tractor, chain drive means adapted to be driven by said power take-off mechanism, and said check-wire device and chain drive means being respectively arranged to be selectively connectable to the hill-drop devices for operating the same, whereby said hill-drop device may be operated by either said check-wire device or said drive chain means.

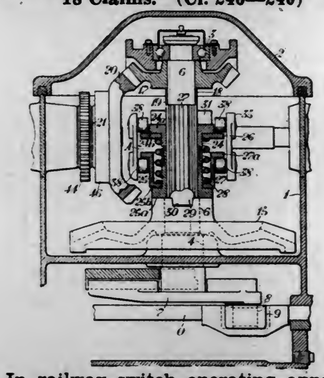
2,320,170
CUSHION MOUNTING FOR ELECTRICAL APPARATUS
Walter M. Bishop, Flushing, N. Y., Charles Depew, Oakland, N. J., and Warren Gronros, New York, and Victor L. Ronci, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 21, 1942, Serial No. 439,880
12 Claims. (Cl. 250—27.5)



1. A mounting for electrical devices comprising a cylindrical casing, hollow spacer members

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2,320,171
RAILWAY SWITCH OPERATING APPARATUS
Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 8, 1941, Serial No. 387,385
18 Claims. (Cl. 246—240)



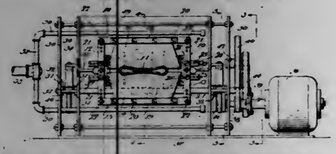
1. In railway switch operating apparatus including means responsive to rotation of a main operating shaft to one extent for unlocking and reversing the switch and to another extent for locking the switch, the combination of manual means and power means for optionally operating said shaft, and selector means for connecting said manual means or said power means with said shaft, said selector means including means for optionally rendering said manual means effective to rotate said shaft to its one or its other extent in response to full stroke operation of said manual means.

2,320,172
TUNNEL KILN
Frank W. Brooke and Philip d'Huc Dressler, Pittsburgh, Pa., assignors to Swindell-Dressler Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 19, 1939, Serial No. 279,794
13 Claims. (Cl. 13—20)



1. A continuous tunnel kiln comprising two side by side goods pathways, a walking beam at the bottom of each pathway adapted to move goods along that pathway in a direction opposite to that at which the other beam moves goods along the other pathway and having transverse passages through its central portion, and kiln heating means adapted to maintain temperatures substantially higher in the central section of the kiln than in its end sections comprising a set of transverse stationary electrical heating elements extending through said transverse passage.

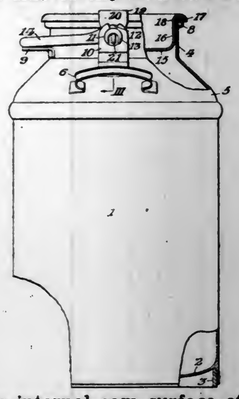
2,320,173
FIRE HOSE WASHER
Robert L. Cotton, Holdenville, Okla.
Application January 10, 1942, Serial No. 426,353
4 Claims. (Cl. 15—40)



2. A fire hose washer comprising a vertically disposed open frame through which the hose being washed passes, said frame having upper, lower and end bars, end plates having inclined slots located at opposite ends of the frame, horizontal guides on the plates, slide plates mounted in the guides, arms connected to the end bars of the frame projecting through said inclined slots in the plates for supporting the frame for reciprocatory movement on the plates, the slots preventing water used in the washer from reaching the slide plates, uprights carried by the slide plates connected to the outer ends of the arms for reciprocating the frame when the slide plates are reciprocated, means for reciprocating the slides plates, brushes for cleaning the edges of the hose carried by the end bars of the frame, brushes for cleaning the sides of the hose carried by the upper and lower bars of the frame, and water spray pipes disposed on opposite sides of the last named brushes for supplying water to both the hose and the brushes.

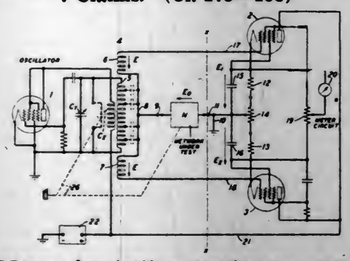
2,320,174
MILK CAN
Isaie J. B. Demers, St. Paul, Minn., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa., a corporation of Delaware
Application July 30, 1940, Serial No. 348,363
5 Claims. (Cl. 220—58)

1. The combination with a milk can comprising a cylindrical body with an annular top cap forming a shoulder and a cylindrical neck of smaller diameter having an annular bead at its open end; of two bearing brackets, having their lower ends rigidly fixed on said shoulder, at respective diametrically opposite sides of said neck, and their upper ends extending in spaced, parallel, relation with the outside of said neck; cylindrical bearings in the upper ends of said brackets, axially alined in diametrical relation to said neck and having respective top slits parallel with their common axis; a bail lever having cylindrical fulcrum trunnions at its respectively opposite ends, in coaxial relation, respectively journaled in said bearings; said trunnions being hollow and slotted and provided with a single internal cam surface formed eccentrically with respect to the cylindrical outer surface; whereby said single internal cam surface effects a clamping down of the can closure when said bail is moved into position at one side of the milk can neck and the



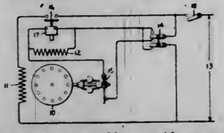
same single internal cam surface effects a lifting up of said can closure when said bail is moved to the opposite side of said milk can neck; a cup shaped closure for said neck, having an outwardly turned annular flange, to engage said neck bead, and a handle bar fixed on said flange in diametrical position; and locking lugs projecting outwardly at the respectively opposite ends of said bar, adapted to be positioned into the top slits in said bearings and trunnion slots and be engaged by, and within, said cams to clamp said closure down in closed position, when said bail lever is turned to clamping position, and to lift and open said closure, when said bail lever is turned to unclamping position.

2,320,175
SYSTEM FOR TESTING RESONANT NETWORKS
Charles E. Dennis, Jackson Heights, N. Y., and Alfred Heinz, Irvington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 16, 1942, Serial No. 443,325
7 Claims. (Cl. 175—183)



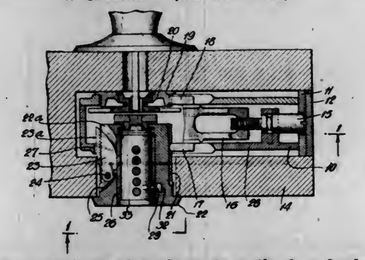
1. Means for testing reactances comprising two vacuum tubes each having an input circuit and an output circuit, a direct current indicator connected for differential action in the output circuits of both tubes, an alternating current source, a transformer comprising a primary and two secondry windings, the primary being connected to the current source and the secondaries being connected in conventional push-pull arrangement with the tube input circuits, admittances effective between the primary winding and the secondary windings, an impedance of given sign inserted in the common leg of the push-pull arrangement, and test terminals connected to said impedance for bridging it with an impedance of opposite sign to be tested.

2,320,176
REVERSIBLE SINGLE PHASE MOTOR
George W. Dunham, Westport, Thomas T. Woodson, Fairfield, and Herbert F. Bariffi, Hamden, Conn., assignors to General Electric Company, a corporation of New York
Application August 6, 1942, Serial No. 453,808
2 Claims. (Cl. 172—279)



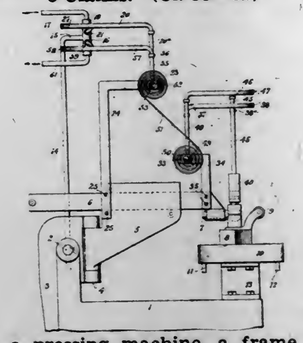
2. A single phase alternating current motor having a rotor, a stator with main and starting windings displaced at an angle to each other, a switch which is responsive to the speed of the motor for opening the starting winding circuit as the motor comes up to speed, a switch in the main winding circuit biased to an open position, a relay responsive to the voltage across the starting winding for closing the last mentioned switch means for reversing one of said windings with respect to the other and a line switch for energizing and deenergizing the motor.

2,320,177
LOCK RETAINER
Abraham H. Golden and Charles Ledin, Stamford, Conn., assignors to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application March 14, 1941, Serial No. 383,254
2 Claims. (Cl. 70—370)



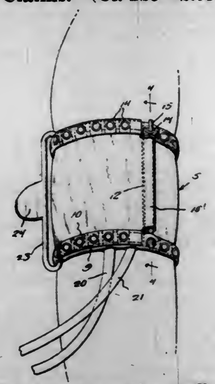
1. In a lock of the class described, a lock casing, a core housing in screw threaded relation to said casing whereby rotation of said core housing adjusts it laterally relatively to said casing, said core housing having an opening extending inwardly from the front end thereof for the insertion of a cylinder lock core endwise therein, a detent movably mounted on said core housing and movable into a slot in said casing to lock said core housing against rotation, a spring pressing said detent out of said slot and inwardly of said core housing whereby a portion of said detent is maintained yieldingly within said opening, a cylinder lock core of the type comprising a cylinder portion and a key plug rotatable in said cylinder portion, said cylinder lock core being inserted endwise into said opening of the core housing as a unit after said core housing is in screw threaded relation to said casing in a particular laterally adjusted position, the said core when so inserted pressing said detent portion out of said opening whereby to move said detent into the slot of said casing to lock the core housing thereafter against rotation from said laterally adjusted position.

2,320,178
PRESSING MACHINE
Samuel Goldstein, New York, N. Y.
Application April 11, 1942, Serial No. 438,560
5 Claims. (Cl. 38—32)



1. In a pressing machine, a frame, an arm swingingly mounted therein, a bar slidably mounted in the arm, a swivel connection between one end of the bar and a pressing iron, a fixed steam inlet, a support carried by the swinging arm, a piece of flattened, spirally wound metal tubing connecting said support with the steam inlet, a second section of similar spirally wound tubing connected to the support and communicating with the first section, said second section being attached at one end to the sliding bar, and a third section of spirally wound tubing establishing communication between the second section and the interior of the pressing iron.

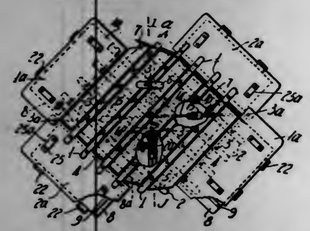
2,320,179
SPHYGMOMANOMETER CUFF OR BAND
Richard B. Gray, Rensselaer, N. Y.
Application September 23, 1942, Serial No. 459,405
4 Claims. (Cl. 128—2.05)



1. In a sphygmomanometer cuff, an elongated flexible double wall strip having a compartment

in a portion thereof to receive an inflatable pouch, a loop shaped member at one end of said strip to permit the other end thereof to pass therethrough for wrapping the strip about a person's limb, eyelets arranged on the strip, and an anchoring rod secured to the last-named end of the strip for insertion in the eyelets for anchoring said strip in wrapped position about the limb.

2,320,180
FOLDING BOAT
Alfredo Heidenreich, Buenos Aires, Argentina
Application May 26, 1939, Serial No. 275,793
In Argentina April 28, 1939
12 Claims. (Cl. 9—11)



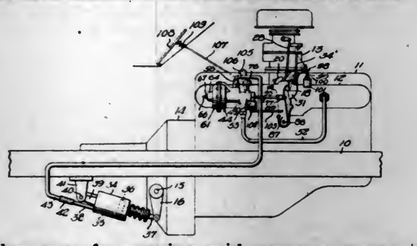
1. A foldable boat comprising a deck made up of spaced parallel lower battens and of spaced parallel upper battens overlying and intersecting the lower battens, the upper and lower battens being interconnected at intersections by pivotal means, and floats operatively connected to the battens by pivotal means.

2,320,181
METHOD FOR THE PRODUCTION OF CAPILLARY ACTIVE AGENTS
Winfrid Hentrich, Dusseldorf-Reisholz, Alfred Kirstahler, Dessau in Anhalt, and Fritz Schlegel, Dusseldorf, Germany; assignors, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland, a corporation of Switzerland
No Drawing. Application July 7, 1938, Serial No. 217,952. In Germany July 10, 1937
6 Claims. (Cl. 260—458)

1. The method for the production of capillary active compounds characterized by condensing higher molecular fatty alcohols with halogenketones of the group consisting of chloroacetone, bromoacetone, bromomethyle - ethyl - keton, ω-chloroacetophenone, ω-chloro - α - propiophenone, α-chloroacetylnaphtalene, subjecting to reduction in the obtained condensation product the keto group to a secondary alcohol group and converting the alcohol group into a group which produces solubility in water.

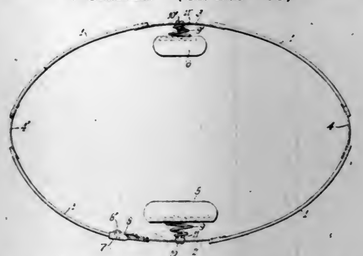
2,320,182
CLUTCH CONTROL MECHANISM FOR MOTOR VEHICLES
Edward G. Hill and Henry W. Hey, Richmond, Va., assignors to Hill Engineering Corporation, Richmond, Va., a corporation of Virginia
Application December 30, 1940, Serial No. 372,410
23 Claims. (Cl. 192—.01)

1. A clutch control mechanism for a motor vehicle including an engine, a transmission, a clutch, a carburetor, and a throttle, comprising a power device connected to the clutch, a control mechanism for said power device, common means for first operating said control mechanism to release the clutch elements for movement toward engagement and later opening said throttle, and means operable under predetermined conditions and when the transmission is in a relative-



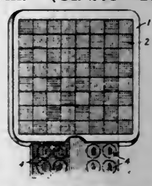
ly low gear for causing said common means to open the engine throttle and accelerate the engine speed prior to engagement of the clutch elements.

2,320,183
ORTHOPEDIC DEVICE
Martin Jungmann, New York, N. Y.
Application April 10, 1942, Serial No. 438,399
7 Claims. (Cl. 128—78)



1. An orthopedic oval device comprising curved, rigid parts, and spring elements arranged between and connected with said rigid parts, a front pad centrally arranged on a spring element of said device and spaced from said device and connected therewith by means of a spring element, and a rear pad arranged centrally and in a diametrically opposite position relative to said front pad, on a spring element of said device and spaced from said device and connected therewith by means of a spring element said front pad and said rear pad being adapted to engage the public bone and the lower part of the sacrum, respectively, the rigid and spring elements forming the oval device being adapted to be worn in spaced relation from the body.

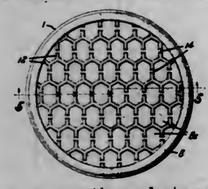
2,320,184
GAME BOARD
Fay S. Kramer, Long Island City, N. Y.
Application March 4, 1942, Serial No. 433,251
1 Claim. (Cl. 273—131)



In a game device, substantially flat holder means comprising an integral card having a transverse strip and at least two legs extending
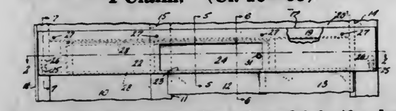
from said transverse strip in parallel and spaced relation and at substantially right angle to said strip forming a substantially U-shaped frame, a top and bottom sheet, at least one of said sheets having a game field thereon, said frame being positioned intermediate said sheets and being attached to the respective inner faces of said sheets and carrier means for removably retaining playing elements for said game fields and frictionally engageable with lateral opposed edges of said legs, said carrier means being adapted to abut against said transverse strip, the free end of said carrier means when engaging said lateral edges of said legs and abutting against said transverse strip being in register with said forward ends of said sheets, at least one of said sheets having a cut-out exposing a portion of said forward end of said carrier means, whereby said free end of said carrier means may be grasped by the hand of the player to withdraw said carrier from its position between said top and bottom sheets.

2,320,185
PHOTOELECTRIC CELL
Anthony H. Lamb, Roselle Park, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application April 3, 1942, Serial No. 437,602
24 Claims. (Cl. 136—89)



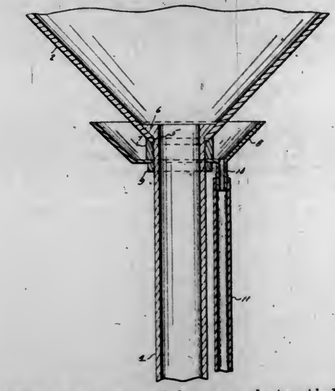
1. A current generating photocell of the type comprising a back electrode, a layer of photosensitive material on said back electrode, and a translucent electrode overlying the photosensitive material layer, characterized by the fact that the outer surface of the photosensitive material layer is non-planar.

2,320,186
COVER FOR ELEVATOR DOOR HANGER MECHANISM
Harry William Larson, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y.
Application April 3, 1941, Serial No. 386,693
1 Claim. (Cl. 16—95)



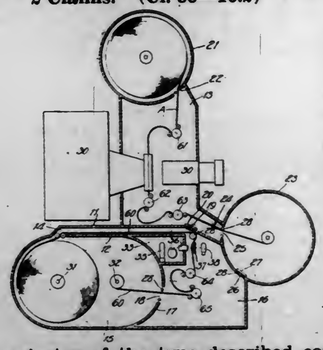
In an elevator structure in which the hanger mechanism for a sliding elevator door is enclosed in an elongated chamber extending horizontally above the elevator door, closure means for said chamber comprising a horizontally elongated cover secured in place over and covering that side of said chamber which faces toward the elevator cab, said cover having an opening therethrough to afford access to the hanger mechanism within said chamber, horizontal guides on said cover adjacent the top and bottom edges of said opening and extending beyond an end of the opening a distance equal to a substantial portion of the length of said opening, a door plate slidably supported by said guides to slide horizontally to and from a closed position in which it covers said opening to an open position at one side of said opening, and spring tongues secured to said door plate and each slidably bearing against one of said guides for yieldingly pressing the door plate against said guides to prevent rattling of the door plate.

2,320,187
FLUSH TANK
William J. Lawler, Milwaukee, Wis., assignor of one-half to William R. McCormick, Milwaukee, Wis.
Application January 3, 1942, Serial No. 425,563
1 Claim. (Cl. 4—252)



A flush tank comprising a substantially conical bottom having an opening in its lower portion, a flush pipe engaged in the opening and including, on one end portion, a substantially conical external flange seated in said bottom, retaining nuts threaded on the pipe beneath the bottom of the tank, a drip pan mounted on the pipe between the nuts, said pan encircling the pipe, and a drain conduit connecting said pan to the flush pipe.

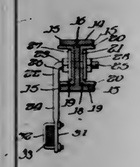
2,320,188
PROJECTOR
Miguel Lopez-Henriquez, New York, N. Y.
Application April 18, 1940, Serial No. 330,279
2 Claims. (Cl. 88—16.2)



1. A projector of the type described comprising a housing divided into upper and lower communicating compartments, means for dividing the lower compartment into two communicating sections, a positive film feed magazine having communication with the upper compartment,

a film take-on magazine having communication with the upper compartment, a picture projecting assembly associated with the upper compartment, a negative film feed and a negative film take-on arranged in one of the sections of the lower compartment, a sound recording and reproducing assembly arranged in the other section of the lower compartment, and a film strip feeding mechanism for feeding simultaneously a positive film from the positive film feed magazine through the upper compartment to the positive film take-on magazine and a negative film from the negative film feed to the negative film take-on in the presence of the sound recording and reproducing assembly, or a single positive film from the positive film feed magazine through the upper and lower compartments to the positive film take-on magazine and in the presence of the sound recording and reproducing assembly.

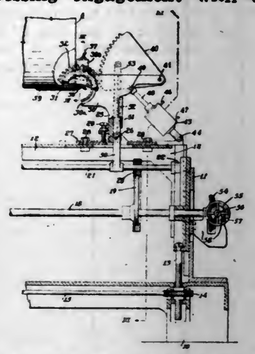
2,320,189
EXTENSIBLE REACH FOR VEHICLES
Gordon G. McNamara, Jr., Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application February 23, 1942, Serial No. 431,953
5 Claims. (Cl. 280—142)



1. A reach structure for a vehicle having front and rear transverse axles, comprising a first reach comprising a longitudinally extending member of I cross-section having upper and lower horizontal flanges and a vertical connecting flange, means securing said member to one axle, a second reach means including a pair of longitudinal channel members, each having a vertical cross-flange and a pair of horizontal end-flanges, said members being arranged in telescopic relation to the first reach member with the channels respectively interfitting with the first member respectively at opposite sides of the connecting flange of the I, means securing said three reach members together, and means securing said pair of reach members to the other axle.

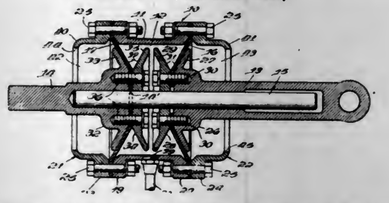
2,320,190
TIRE BUILDING APPARATUS
Edwin Miller, Jeannette, Pa.
Application May 23, 1941, Serial No. 394,843
9 Claims. (Cl. 154—10)

1. Tire-building apparatus comprising a rotatably-supported tire-building drum for receiving the fabric plies of a tire, with the edges of the fabric projecting axially beyond the sides of the drum, in position to receive bead cores of annular shape that are disposed peripherally of the fabric, a roller positioned adjacent to each side of the said drum, with its axis normally extending in the same general direction as the axis of the drum, means for moving the roller into position to press the projecting fabric in a radially-outward direction against the bead core, and means for continuously tilting the roller about a fixed axis and about the adjacent portion of the bead core as a fixed center, while it is maintained in said pressing engagement with the fabric,



through an arcuate path that extends from the side of the drum to the periphery thereof.

2,320,191
DIAPHRAGM PRESSURE MOTOR
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application February 12, 1942, Serial No. 430,655
4 Claims. (Cl. 121—48)

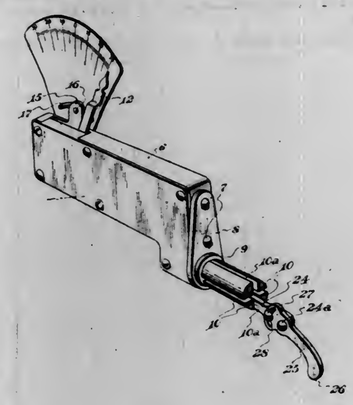


1. In combination, a housing having a chamber, a sleeve member extending within said chamber and having a shaft rigidly carried thereon, a second sleeve member slidably carried by the shaft for horizontal movement with respect to the housing, a flared portion at one end of each of the sleeve members, diaphragms respectively abutting each of the flared portions, a flared collar engaging the inner portions of each of the diaphragms, and threaded means for securing the collars and the diaphragms to the sleeve members, peripheral flanges on each end of the housing, means for respectively securing the diaphragms to the flanges including a pair of annular flanged members enclosing the flared portions on the sleeve members, and conduit means for delivering fluid to and from the chamber formed by the housing and the diaphragms to move the sleeve members with respect to the housing.

2,320,192
TOP CENTER INDICATOR FOR PISTONS
Benjamin F. Palmer, Tulsa, Okla.
Application March 2, 1942, Serial No. 433,102
5 Claims. (Cl. 33—172)

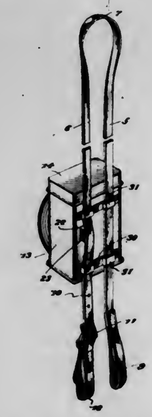
1. A top center indicator adapted to be inserted through a spark plug opening in a cylinder in the path of a piston, said indicator comprising a casing, an expansible member carried by said casing and frictionally supporting the casing in the spark plug opening, a dial carried by the casing, a pointer cooperating with indicia on the dial, a bell crank within the casing, one arm of

the bell crank having a link connection with the pointer, the other arm of the bell crank lever



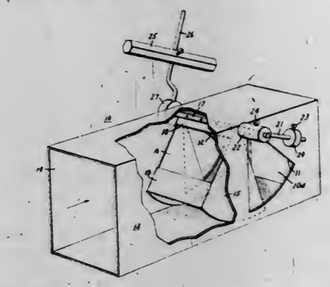
extending through the expansible member and terminating in the path of the piston.

2,320,193
COMBINED SAFETY LIGHT AND ILLUMINATING LAMP
John Thomas Powell and Edwin T. Powell, Washington, D. C.
Application January 13, 1942, Serial No. 426,622
6 Claims. (Cl. 240—59)



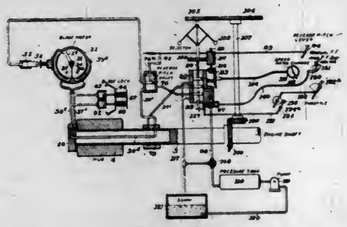
1. A device of the class described comprising a suspension device adapted to be disposed about a person's neck and having spaced straps provided with means for attachment to a support, a light assembly box including an electric lamp and battery slidably mounted for vertical movement as a unit on said straps, and a switch operatively connected with the battery and provided with a projecting portion over which one of said straps extends, said switch being actuated by sliding contact of the said projecting portion with the last mentioned strap for lighting the lamp when said box is moved in one direction and to extinguish the lamp when the box is moved in another direction.

2,320,194
FLUID FLOW CONTROL
Ronald W. Olsen, Bloomfield, N. J., assignor to General Electric Company, a corporation of New York
Application April 29, 1941, Serial No. 390,965
3 Claims. (Cl. 137—152)



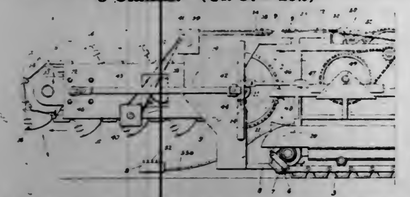
1. A fluid flow control including a duct having a closed end and a pair of opposing lateral fluid flow openings adjacent said end and a flow actuated movable multivane damper having balancing means for regulating the fluid flow in said duct, said damper having a pair of opposing flow regulating vanes, each movable laterally across a corresponding one of said openings to vary the effective area thereof, and a control vane movable substantially along the path of axial fluid flow within said duct for positioning said damper in response to the velocity of said axial fluid flow.

2,320,195
AIRPLANE PROPELLER AND ACTUATING MECHANISM THEREFOR
Arthur G. Rindfleisch, Chicago, Ill., assignor to Bocjl Corporation, Pittsburgh, Pa., a corporation of Delaware
Application February 27, 1940, Serial No. 321,026
33 Claims. (Cl. 170—135.6)



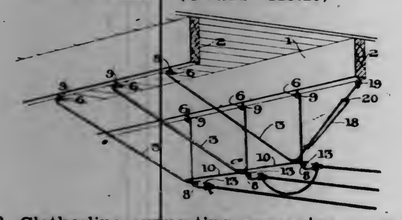
1. For use in operating a variable pitch propeller comprising a hub having axially rotatable blades thereon the mechanism comprising, fluid pressure motor means on the hub for rotating the blades about their axes, fluid circuits to said motor means, one of said circuits being for moving the motor means toward an increased pitch and full-feathered position and the other for moving the blades toward a minimum pitch position, a source of fluid pressure for said circuits, and a selector valve for controlling the flow of pressure from said source to said circuits, said valve being progressively movable from a position to supply fluid under pressure to the first of said circuits, then to the second of said circuits and while moving in the same direction, back to the first of said circuits.

2,320,196
TUNNELING MACHINE
Charles C. Roe, Stockton, Calif., assignor to Eugene F. Smith, Stockton, Calif.
Application June 16, 1941, Serial No. 398,279
8 Claims. (Cl. 37—192)



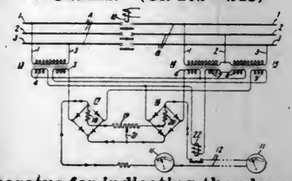
2. A tunneling machine comprising a supporting structure movable along the ground, a cage at the forward end of the structure, vertical pivot connections between the cage and structure, a boom and bucket line unit projecting forwardly from and pivoted in the cage for swinging movement in a vertical plane and lateral swinging with the cage as a unit, means to swing the cage and means to swing the boom vertically irrespective of the swung position of the cage; said last named means including a cable drum on the structure, a cable wound on the drum and extending thence forwardly to a connection with the boom and direction changing pulleys on the structure, cage and boom about which the cable passes disposed so that a pull on the cable will lift the boom, and including a pulley on the structure disposed so that its foremost peripheral edge lies adjacent the axial plane of the cage pivot and an adjacent pulley on the cage laterally offset from said last named pulley and about which the cable then passes.

2,320,197
LINE SUPPORT
John A. Rousculp, Columbus, Ohio
Substituted for abandoned application Serial No. 356,970, September 16, 1940. This application October 8, 1941, Serial No. 414,113
7 Claims. (Cl. 211—119.10)



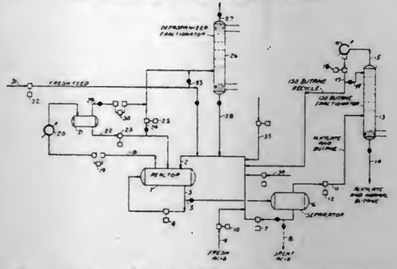
2. Clothesline supporting apparatus comprising spaced sets of supporting members suspended for free swinging movement from a rigid horizontal supporting surface, each of said members being formed from a length of resilient wire and being bent intermediately of the length thereof to provide an eye portion, the latter terminating in angularly disposed arms of unequal length, offset axially registering fulcruming extensions formed at the free ends of said arms and receivable within bearing elements carried by said rigid horizontal surface, means uniting the supporting members of each set in relatively spaced relationship and providing for uniform and joint swinging movement of said members, and means for retaining said members in elevated inactive positions wherein said members are disposed substantially in parallelism with said rigid horizontal surface.

2,320,198
SYNCHRONIZING INDICATOR
Harold T. Seeley, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application May 2, 1942, Serial No. 441,420
3 Claims. (Cl. 172—245)



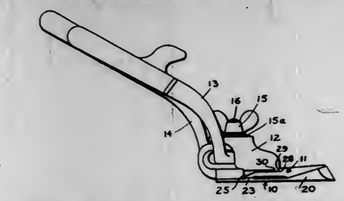
1. Apparatus for indicating the phase relationship between two three-phase alternating current systems comprising means for rectifying the vector sum of the voltages from one pair of different phases of the two systems, other means for rectifying the vector sum of the voltages from another pair of different phases of the two systems, a zero center direct current measuring instrument differentially connected to the two rectifier means for indicating the direction and magnitude of the difference, if any, in said rectified voltages and a phase responsive relay energized jointly from both systems for deenergizing said instrument when the phase relation between said systems is between about 120 and 240 degrees out of phase.

2,320,199
HYDROCARBON CONVERSION
Bernardus Sellmeyer, Leonia, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application November 30, 1940, Serial No. 367,932
12 Claims. (Cl. 260—683.4)



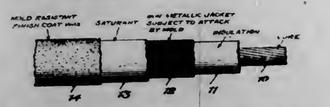
1. A process for alkylating low molecular weight paraffinic hydrocarbons with low molecular weight olefinic hydrocarbons to form paraffinic hydrocarbons which comprises introducing into an alkylation reaction zone sulfuric acid alkylation catalyst and hydrocarbons comprising low molecular weight hydrocarbons suitable as alkylation reactants and lower boiling hydrocarbons unsuitable as alkylation reactants, maintaining said reaction zone at alkylation conditions of temperature and pressure effective to vaporize unreacted hydrocarbons including said lower boiling hydrocarbons to facilitate maintaining the reactants in the reaction zone at the desired reaction temperature, withdrawing said vaporized hydrocarbons from said reaction zone, cooling said vaporized hydrocarbons externally of said reaction zone to condense at least a portion thereof, reintroducing into said reaction zone as condensate a portion of said cooled hydrocarbons, introducing another portion of said cooled hydrocarbons into a fractionating zone, maintaining conditions in said fractionating zone effective to separate said last-mentioned portion of the cooled hydrocarbons into a condensate fraction containing the constituents of said last-mentioned portion of the cooled hydrocarbons which are suitable as reactants in the alkylation reaction and a vapor fraction containing lower boiling hydrocarbons unsuitable as reactants for the alkylation reaction, introducing said condensate fraction into said reaction zone, and withdrawing said vapor fraction from the system.

2,320,200
CLIPPING MACHINE
Anthony Stuller, New York, N. Y.
Application April 9, 1942, Serial No. 438,293
3 Claims. (Cl. 30—208)



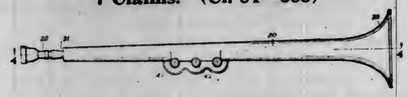
1. A lower blade for a hair clipping device comprising a body having lower support areas in the same plane to facilitate proper positioning while in use and at its front edge a plurality of cutter teeth with their lower edges in said plane and gradually increasing in height from their supported ends to their forward ends, said teeth having cutting side edges at their tops and at their bottoms narrow lower edges.

2,320,201
ELECTRICAL CONDUCTOR
Julius A. Szilard, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application August 3, 1940, Serial No. 350,459
19 Claims. (Cl. 174—121)



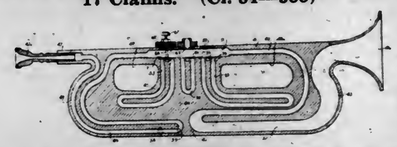
1. An electrical conductor comprising an insulated conducting core and a mold and rot resistant fibrous jacket therefor saturated with the phenolic tarry residue of diphenyl oxide distillation.

2,320,202
MUSICAL INSTRUMENT
Josephus Thompson, Covington, Ohio, assignor of one-third to Grossman Music Company, Cleveland, Ohio, a partnership composed of Julius I. Grossman and Henry S. Grossman
Application June 19, 1941, Serial No. 398,775
7 Claims. (Cl. 84—388)



1. A musical wind instrument composed of an integral one piece body having an upper portion, a lower portion, and front and rear end members connecting the upper and lower portions, the upper portion being formed with a main air passage which at one end extends through the rear end of the upper portion to receive a mouthpiece, thence across the rear end member of the body, along the lower portion of the body, thence across the front end member of the body then rearwardly of the body to a point adjacent to and spaced from the rear end of the upper portion of the body, and then along the upper portion of the body and through the front end of the upper portion of the body to terminate in a bell, said body further having interconnected compensator passages which communicate with the part of the main passage that extends along the lower portion of the body, and manually controlled valves for the compensator passages.

2,320,203
MUSICAL INSTRUMENT
Josephus Thompson, Covington, and Morton S. Brockman, Cleveland, Ohio, assignors of one-sixth to said Thompson and five-sixths to Grossman Music Company
Application May 22, 1942, Serial No. 444,064
17 Claims. (Cl. 84—388)



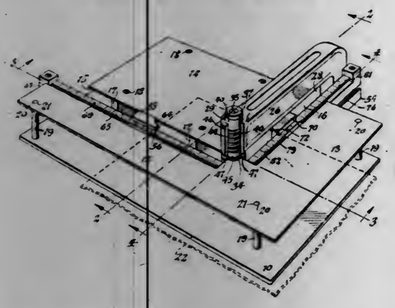
1. A musical instrument, comprising, in combination, a body member including top, bottom, front and rear end portions and having a circuitous air passage therein, the air passage terminating into a mouthpiece at the said rear end portion and into a bell at the said front end portion, the said passage having a substantially straight part thereof extending longitudinally through the said top portion, the body member also having a set of compensator ducts therein opening into the aforesaid straight part, and a set of air valve members mounted on the body member top portion and projecting through the said straight part in a manner permitting the opening or the closing of the said ducts thereat.

2,320,204
METHOD OF STEM CONSTRUCTION FOR VACUUM TUBES
Harry L. Thorson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 21, 1942, Serial No. 427,606
4 Claims. (Cl. 250—27.5)



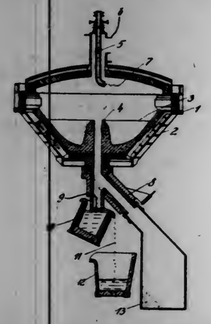
2. The method of forming a lead-in stem of a type which in finished form includes an evacuating tubulation joined to a flare, which method comprises encircling a tubulation-bearing part with a loosely fitting glass sleeve, positioning one or more lead-in conductors in the space between said tubulation-bearing part and said sleeve, fusing the sleeve into engagement with the tubulation-bearing part and the lead-in conductors, and thereafter joining the inner edge of a separately formed flare to an externally accessible surface of the said sleeve.

2,320,205
APPARATUS FOR PERFORATING SHEET MATERIAL
George F. Wales, Kenmore, N. Y.
Application March 27, 1942, Serial No. 436,431
22 Claims. (Cl. 164—94)



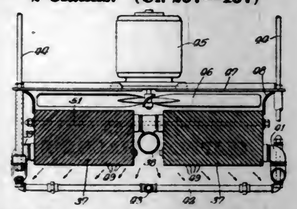
1. A perforating apparatus comprising perforating elements to form a hole in a workpiece, a frame upon which said perforating elements are mounted and which includes a table for supporting the workpiece and provided with a slot, and means for gaging the workpiece including a gage block arranged above the table and adapted to be engaged by the workpiece and provided with a neck projecting downwardly through said slot, a rail mounted on the frame below said table, and means for adjustably connecting said neck with said rail and effecting longitudinal adjustment of said gage block relative to said perforating elements.

2,320,206
REACTION METHOD
Walter Engel and Niels Engel, Copenhagen, Denmark; vested in the Alien Property Custodian
Application January 22, 1940, Serial No. 314,962
In Sweden January 28, 1939
11 Claims. (Cl. 75—40)



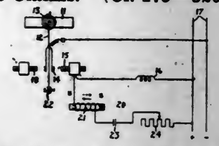
1. The method of reducing a metallic ore, which consists in preparing a bath containing molten metal of the kind contained in said ore and also dissolved carbon, and in adding the ore to the bath in finely divided particles which are so dimensioned in size that they float on the surface of the bath while reaction takes place between the carbon in the bath and a non-metallic constituent of the ore solely at the points of contact between the ore particles and the surface of the bath.

2,320,207
UNIT HEATER
Lyndon F. Wilson, Chicago, Ill., assignor to Wilson Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application January 1, 1942, Serial No. 425,297
2 Claims. (Cl. 257—137)



1. A unit heater comprising in combination a heating unit consisting of a plurality of unit sections arranged in spaced apart groups, means located between the groups for supplying temperature influencing medium to the sections, and a fan arranged to deliver air between said groups and between the sections of each group, all of said sections being provided with heat radiating fins disposed at an angle to the direction of flow of air delivered by said fan, the fins in one group being disposed at an angle with respect to the fins of an adjacent group to thereby divert the air flow from the heating unit in opposite directions.

2,320,208
CONTACT AMPLIFIER
Wilhelm Würth, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application August 16, 1940, Serial No. 352,954
In Germany October 13, 1939
13 Claims. (Cl. 175—320)

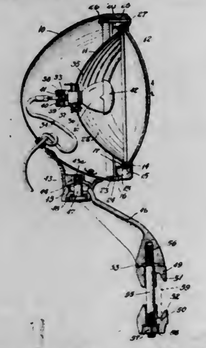


1. In combination, a contact-making instrument having a pair of relatively movable contacts, a device to be controlled by such contacts, a source of current for energizing said device through said contacts, and a contact pressure amplifying circuit shunting said device to be controlled, the said shunt circuit comprising an auxiliary torque-producing device mechanically connected to the contact-making instrument and responsive to the current flow in the shunt circuit, and in series therewith an impedance, the value of which is relatively low upon the application of electromotive force and progressively increases.

2,320,209
VEHICLE LAMP
Gustave F. Bahr, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application April 3, 1940, Serial No. 327,552
7 Claims. (Cl. 240—41.5)

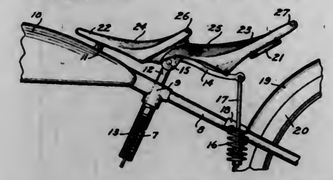
1. In a lamp of the type described, a reflector having a flat annular rim forming a gasket-receiving seat; a gasket disposed on said seat; a lens provided with a flat surface at the rim edge thereof engaging the exposed face of said gasket; a flange formed about the periphery of said seat

and extending normally therefrom a distance sufficient to cover the jointure between the seat and one face of the gasket and the other face of the gasket and lens; an annular cap surrounding the lens at the rim edge thereof and having an inwardly extending annular flange formed with a surface shaped to snugly engage the outer face of said lens; a ring disposed about said reflector and



in engagement with the rear side of said flat rim; and means for securing the ring to said cap whereby the gasket is clamped between the seat of the reflector and the flat surface of the lens and the lens between the gasket and the lens-engaging surface of the annular flange of said cap for the full periphery thereof to form a completely sealed unit.

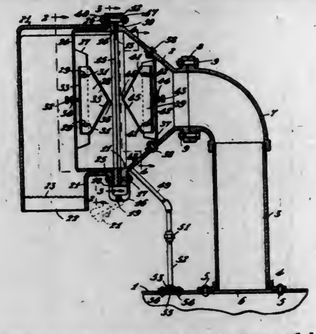
2,320,210
MOTORCYCLE SEAT
Lloyd F. Bender, Waukesha, Wis.
Application November 18, 1940, Serial No. 366,029
5 Claims. (Cl. 155—5.13)



1. A cycle seat, comprising, an elongated resiliently supported main saddle, and an auxiliary saddle removably secured to the front portion of said main saddle, the rear of said auxiliary seat providing a transverse elevated ridge spanning the medial portion of said main saddle.

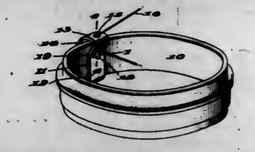
2,320,211
PRESSURE RELIEF DEVICE FOR LOW PRESSURE VESSELS
George T. Bloom, Plainfield, and James G. Burnett, Jersey City, N. J.; said Burnett assignor to said Bloom
Application February 15, 1941, Serial No. 379,124
3 Claims. (Cl. 220—89)

1. In a fluid pressure and vacuum relief device having a relief opening, a substantially flat frangible diaphragm yieldably responsive to varying degrees of fluid pressure thereagainst, means for supporting said diaphragm in sealed relation to said opening, a housing hinged to said supporting means, means including a pair of rupturing and shearing devices respectively arranged on said supporting means and hinged housing in proximate spaced relation on opposite sides of said diaphragm, and means for adjusting said rupturing and shearing devices to vary the degree of proximity of said shearing devices with respect to the frangible diaphragm to cause the



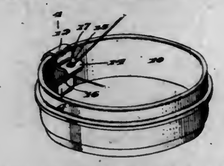
diaphragm to be ruptured and sheared by either of said rupturing and shearing devices in accordance with a predetermined degree of fluid pressure differential exerted against the diaphragm.

2,320,212
RING TRAVELER
Maurice Lee Bolton, Philadelphia, Pa., assignor to U. S. Ring Traveler Co., Providence, R. I., a corporation of Rhode Island
Application December 11, 1942, Serial No. 468,717
4 Claims. (Cl. 57—125)



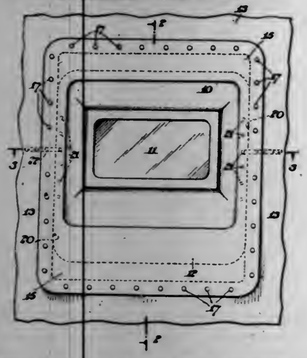
1. A traveler for vertical twister rings comprising a vertical shank, a lip integral with the lower end of the shank, a head portion integral with the upper end of the shank, said head and shank portions each having an opening therethrough through which the material being twisted and wound is passed.

2,320,213
RING TRAVELER
Maurice Lee Bolton, Philadelphia, Pa., assignor to U. S. Ring Traveler Co., Providence, R. I., a corporation of Rhode Island
Application December 11, 1942, Serial No. 468,718
3 Claims. (Cl. 57—125)



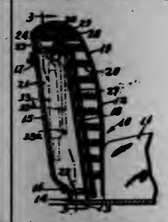
1. A traveler for vertical twister rings comprising a head portion, a foot portion, and a shank portion connecting the head and foot portions and integral therewith, said shank portion having an outwardly bent portion, and means comprising openings through said bent portion for the receipt of the material being twisted and wound.

2,320,214
ADJUSTABLE GLASS HOLDER FOR WELDERS' HELMETS
Frederick M. Bowers, Chester, Pa.
Application February 19, 1942, Serial No. 431,602
3 Claims. (Cl. 2—8)



1. In combination, a welder's helmet having a sight opening, a glass holder having a glass for registering relation with said sight opening, a flange attached to said holder, means forming vertical ways for slidingly mounting said flange on said helmet, and means forming horizontal ways for said flange providing top and bottom clearances allowing a predetermined vertical travel of said flange, said flange riding in said clearances in all positions of said holder, whereby said glass is maintained in front of said sight opening at all times.

2,320,215
CLOTHES COMPARTMENT FOR VEHICLE SEATS
Irving Brenner, Bronx, N. Y.
Application October 17, 1941, Serial No. 415,444
8 Claims. (Cl. 155—190)



4. In a vehicle seat having a back for said seat including a frame, a back wall closing the back of said frame and having a door, a partition wall within said frame dividing off a rear wardrobe chamber, an upholstery face member mounted on the front of said frame and having its springs engaging against said partition wall and means for holding said partition wall in various fixed positions in said frame for controlling the tension of said springs and the capacity of said chamber.

2,320,216
FREIGHT CAR
Miller M. Brister, New York, N. Y.
Application February 3, 1942, Serial No. 429,425
21 Claims. (Cl. 20—23)

2. In a railroad car for the transportation of freight having a plurality of slideable doors on each side thereof, means including a plurality of rotatable members for supporting said doors, a plurality of track members secured to said doors and adapted to be engaged by the rotatable supporting members of the adjacent door, a plurality of track sections in substantial alinement

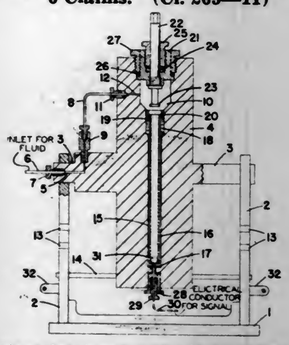


with each other and adapted to be moved into alinement with the track members of the succeeding doors, and means including a rotatable shaft for moving said track sections into alinement with said track members successively in a predetermined sequential order.

2,320,217
KETONIC POLYCARBOXYLIC ACIDS
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 11, 1941, Serial No. 414,599
8 Claims. (Cl. 260—515)

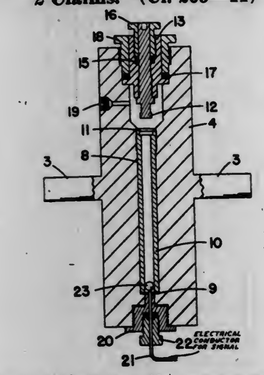
1. As a new compound, an arylaliphatic ketone having a plurality of $-CH_2CH_2COOH$ radicals on an aliphatic carbon atom contiguous to the carbonyl group.

2,320,218
VISCOSIMETER
Stuart E. Buckley, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 24, 1941, Serial No. 384,871
6 Claims. (Cl. 265—11)



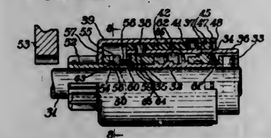
1. A viscosimeter for the determination of the viscosity of a fluid at elevated pressure comprising a cylinder provided with a relatively small diameter axial bore having an enlarged chamber at its upper end and a fluid sealing seat at its lower end, the bore and chamber normally being in open fluid communication, means for introducing fluid to be tested into said enlarged chamber, a tube arranged in said bore adapted to seat on said fluid sealing seat, said tube being of such diameter as to leave an annular space between its outer surface and the wall of the bore, means for normally urging said tube off its seat to thereby establish fluid communication between said annular space, and said enlarged chamber and said tube, means for pressing said tube on its seat and sealing its upper end, and a ball adapted to traverse said tube.

2,320,219
VISCOSIMETER
Stuart E. Buckley and Claude R. Hocott, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
Application March 24, 1941, Serial No. 384,872
2 Claims. (Cl. 265—11)



1. A viscosimeter for the measurement of viscosity at high pressures comprising an elongated cylinder provided with a narrow bore extending for a substantial portion of the length thereof and an enlarged chamber at the open end of said bore, means hermetically closing said enlarged chamber including manipulatable means for sealing off said bore from said chamber, said cylinder being further provided with an inlet for the introduction of fluid under pressure into said chamber, and a ball in said bore adapted to slide therealong.

2,320,220
ENGINE STARTER DRIVE
James E. Buxton, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 19, 1941, Serial No. 403,181
6 Claims. (Cl. 74—7)



1. In an engine starter drive a power shaft, a pinion slidably and rotatably mounted thereon, and means responsive to acceleration of the power shaft for moving the pinion into operative position and then rotating it to crank the engine, said means including a screw shaft fixed to the power shaft, a nut on the screw shaft, a sleeve surrounding the nut and positively connected for rotation therewith, a barrel connected to rotate the pinion surrounding the sleeve, and a band of elastically extensible rubber-like material fixed at its ends to the barrel and sleeve respectively and arranged to wrap down on the sleeve and transmit rotation therefrom to the barrel with a frictional snubbing action.

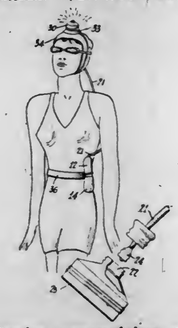
2,320,221
SHOCK ABSORBER
Joseph Chudner, Brooklyn, N. Y.
Application January 8, 1942, Serial No. 426,050
7 Claims. (Cl. 188—102)

1. In a stop mechanism, a rotary element, an abutment arranged on said element so as to rotate therewith and also to be held stationary with respect thereto, means to engage said abutment to hold it stationary, and resilient means loosely mounted with respect to the rotary ele-



ment and which co-operates with said rotary element and the abutment when the latter is held stationary to yieldingly resist and ultimately stop the rotary movement of said element.

2,320,222
SWIMMER'S APPLIANCE
Antonio Crupi, Brooklyn, N. Y.
Application April 6, 1942, Serial No. 437,890
1 Claim. (Cl. 240—59)



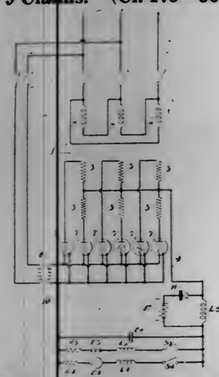
An aquatic device comprising a belt adapted to encircle the waist of a person, a flexible waterproof casing attached to said belt, an electric battery disposed in said casing, said battery having a switch operable by manipulation of the casing, a cap for the person's head, a strap to secure the cap thereon, a transparent dome carried by said cap said dome having an annular base adapted to receive inscriptions, a light bulb and a reflector therefor fixed in said dome, and electric connections between said battery and said light bulb.

2,320,223
USE OF BAUXITE TO IMPROVE THE ODOR OF PETROLATUM
Henry J. Dempsey, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 28, 1940, Serial No. 372,169
3 Claims. (Cl. 196—21)

1. A process of deodorizing petrolatum which comprises reducing the bauxite to a powder of 30 to 60 mesh and heating to a temperature from 900° F. to 1200° F., placing the powdered bauxite into a filter and adding petrolatum heated to a temperature above the melting point at the rate of 1 cc. per minute for about each 38 grams of the bauxite, until the petrolatum appears at the bottom of the filter, the time of contact of the petrolatum and bauxite being at least 10 minutes, allowing the petrolatum to drain from the filter without the addition of any more of the petrolatum, when no more petrolatum is drainable from the bauxite another quantity of petrolatum is added at the same rate until the petrolatum again appears to drain from the bottom of the filter, discontinuing the

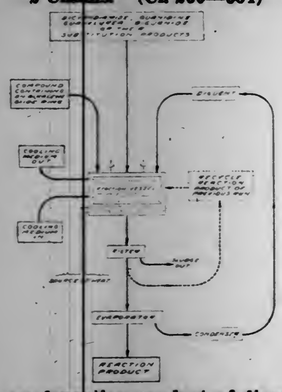
addition of further petrolatum and removing the drainable petrolatum, continuing these intermittent steps until the bauxite is exhausted.

2,320,224
RECTIFIER CIRCUIT
Donald V. Edwards, Montclair, N. J., assignor to Electrons, Inc., a corporation of Delaware
Application April 8, 1942, Serial No. 438,057
9 Claims. (Cl. 175—363)



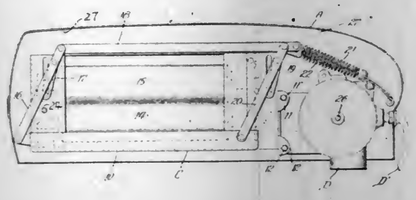
1. A rectifier circuit comprising a source of alternating current connected through two or more rectifying elements to a direct current load circuit having series inductance and variable current consuming load, said load circuit having shunted across it capacitance of a value sufficient to produce the possibility of arc back, an additional rectifying element and a battery in series with each other and so connected across the inductance that the induced voltage generated by a decrease of the rectifier output current causes current to flow through the auxiliary rectifier.

2,320,225
CONDENSATION PRODUCTS OF AMIDINES WITH ALKYLENE OXIDES
Walter P. Ericks, Cos cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application January 30, 1941. Serial No. 376,618
2 Claims. (Cl. 260—564)
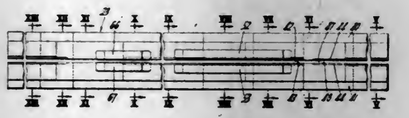


1. The condensation product of dicyandiamide with ethylene oxide obtained by their reaction at a temperature of substantially 106° C. in a sealed pressure bomb.

2,320,226
CLOTHES WRINGER STRUCTURE
Nicholas L. Etten, Waterloo, Iowa
Application March 25, 1940, Serial No. 325,758
4 Claims. (Cl. 68—244)



1. A two part structure constituting an outer covering for the supporting frame, wringer rolls and gear casing of a wringer wherein each of said parts has a continuous flange at the ends and the top thereof, and wherein a portion of the flange at one edge thereof has a recess, the corresponding recesses of complementary flange portions forming an opening of a configuration substantially corresponding to the peripheral surface of a portion of a gear control handle adapted to be received in said opening.

2,320,227
SORTING APPARATUS
Christopher J. Frey, Forest Hills, Long Island, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.
Application June 26, 1941, Serial No. 399,930
10 Claims. (Cl. 209—99)

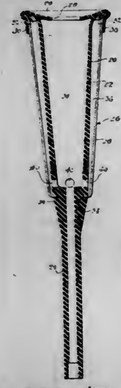


1. Assorting and segregating apparatus for headed elements comprising similar shanks and enlarged head portions of varying size, said apparatus comprising an inclined track having a pair of elongate spaced parallel supporting means providing a slot extending substantially the length of said track only slightly wider than the shanks of said elements, means for introducing an aligned row of said elements to the upper end of said track with their shank portions depending in said slot and their head portions resting on said supporting means, said slot being enlarged at its upper portion whereby heads smaller than said enlargement may drop downward therein when they come into registry with said enlargement in movement along said slot without discharging through said slot and whereby the shank of elements having heads larger than said enlargement are guided in the lower unenlarged portion of said slot, there being channels formed in the opposed faces of said means for receiving the heads of dropped elements and permitting movement of said elements therealong beyond said enlargement, and the lower portion of said slot being formed with an enlargement at the terminus of said channels to permit the final dropping of said lowered elements from said apparatus at a point spaced along said rails from said first mentioned upper enlargement of the slot.

2,320,228
LUBRICANT
Delton R. Frey, East Cleveland, Ohio, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application July 18, 1940, Serial No. 346,219
14 Claims. (Cl. 252—38)

1. A lubricating composition comprising a major proportion of mineral lubricating oil and a minor proportion of an oil-soluble metal oxide of an ester of an aromatic acid with an aliphatic alcohol, which oxide is of the type in which the oxygen of the metal oxide group is directly attached to an aromatic ring.

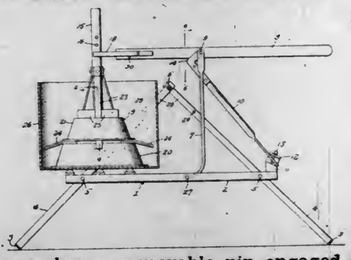
2,320,229
MILKING APPARATUS
Orley R. Frost, Port Huron, Mich.
Application March 18, 1940, Serial No. 324,598
2 Claims. (Cl. 31—84)



1. In a milking apparatus having a source of suction, a teat cup device comprising an elongated, open-ended hollow shell member of relatively inelastic material, an elongated open-ended hollow liner member of relatively elastic material, said liner member having a portion for receiving the teat of a cow and being supported within and sealed to the ends of said shell member and defining an annular, elongated chamber between said shell member and said liner portion, said liner member also having a portion supported without said shell member in communication with said teat-receiving portion for communicating said teat with the suction source, a single groove in the liner member for anchoring the lower portion of said shell member, said groove being of a width so as to provide a fixed mounting for the shell member, said liner member having an annular elastic top portion with a teat aperture and with a plurality of substantially concentric annular grooves therein approximately equidistant from said shell member anchoring means for selectively receiving the upper edge of said shell member whereby to vary the size of said teat aperture by shifting said shell member edge from one groove to another without shifting said lower portion of said shell member from said shell anchoring groove.

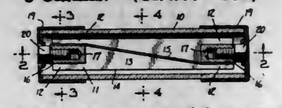
2,320,230
WASHING MACHINE
William Baxter Glisson, Trenton, Tenn.
Application October 6, 1942, Serial No. 460,990
3 Claims. (Cl. 68—122)

1. A washing machine of the character described comprising a stand for supporting a tub, a cross member on said stand, a pair of upwardly converging standards pivotally mounted on the stand, an angular bracket on the cross member, a brace for the standards having one end portion engaged between the bracket and the



cross member, a removable pin engaged in the bracket, said one end portion of the brace and the cross member for detachably securing said brace to the stand, a lever pivotally mounted on the standards, and a pounder mounted on one end portion of said lever.

2,320,231
RENEWABLE CARTRIDGE FUSE
Charles J. Haas, New York, N. Y.
Application March 21, 1941, Serial No. 384,498
5 Claims. (Cl. 200—131)



1. A cartridge fuse comprising an insulating sleeve, end members including metal end caps fitted about the ends of the sleeve and having axially disposed, inwardly extending threaded studs, an insulating member received in the sleeve, and a fuse link having apertured ends bent against the ends of the insulating member and through which the threaded studs extend, the end members having shoulders bearing on the link ends when the studs are threaded tightly in place.

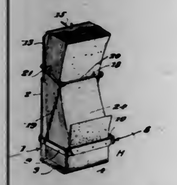
2,320,232
PROCESS OF MAKING 12-KETOSTEARAMIDE
William Edward Hanford and Richard Haven Wiley, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 18, 1940, Serial No. 346,142
3 Claims. (Cl. 260—404)

3. The process which comprises bringing a 12-ketostearic compound selected from the class consisting of the acid, the anhydride, the ester, and the halide into admixture with an excess of anhydrous ammonia under a pressure of between 500 and 1500 lbs./sq. in. and a temperature of about 130° to about 160° C., and recovering from the resulting reaction 12-ketostearamide.

2,320,233
PAPER BAG HOLDER
Horace C. Harrison, Augusta, Ga.
Application December 5, 1941, Serial No. 421,839
4 Claims. (Cl. 211—51)

2. A paper bag holder adapted to be suspended from a support and including a body having walls defining a compartment, an operating plate slid-

ably mounted for vertical movement on one of the walls, said compartment receiving lower end portions of a group of paper bags, a follower pivoted to the body, and means operatively connecting the follower with the operating plate, said body being movable with respect to the



operating plate for shifting the follower and said means whereby said follower will be urged into engagement with a portion of one of the bags for retaining said bag against accidental displacement, said bag being removable from the compartment and from behind the follower.

2,320,234

AROYL FORMHYDROXIMIC ACID HALIDES AND PROCESS OF MAKING THEM

Walter H. Hartung and Nathan Levin, Baltimore, Md., assignors to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland

No Drawing. Application April 23, 1940, Serial No. 331,209

13 Claims. (Cl. 260—566)

10. Dihydroxy-benzoyl formhydroximic acid halides.

2,320,235

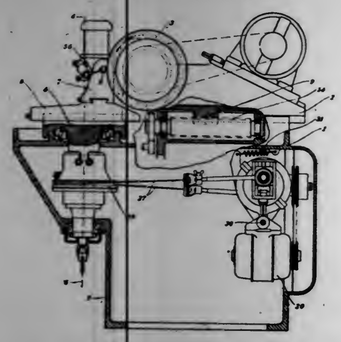
FEEDING DEVICE FOR MACHINE TOOLS

Eric Georg Hjärpe and Ernst Birger Schüberg, Goteborg, Sweden, assignors to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden, a corporation of Sweden

Application December 5, 1940, Serial No. 368,631

In Sweden December 13, 1939

5 Claims. (Cl. 51—97)



1. In a machine tool having a tool head and a work head, means for oscillating one of the heads, a feeding device for causing a relative feeding movement between the tool and the work, and means for operatively connecting the oscillatable head with the feeding device so that the latter is driven in one and the same direction by the alternating movements of the head in opposite directions and with a speed which is proportional to the speeds of said movements; said connecting means comprising a pair of pulleys, an overrunning clutch connecting each of the pulleys with the feeding device, said clutches being substantially free from backlash and being automatically engageable by rotation of the respective pulleys in one and the same direction, and a rope transmission operatively connecting the pulleys with the oscillatable head so that in each direction of movement of the head the pulleys are simultaneously rotated in opposite directions.

2,320,236

POLISHING COMPOSITION

George F. Hogg, Chicago, Ill., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 13, 1940, Serial No. 365,464

6 Claims. (Cl. 106—230)

5. A polishing composition comprising an oil-in-water type emulsion comprising a disperse phase comprising water and an emulsifying agent and a dispersed phase consisting essentially of a polymerized rosin and a wax in amounts such that the ratio of wax to polymerized rosin lies within the range of from about 100 to 1 to about 1 to 1.

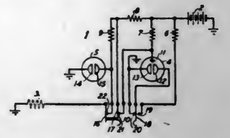
2,320,237

VOLTAGE REGULATOR

Andrew L. Hopper, River Edge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 12, 1940, Serial No. 360,911

9 Claims. (Cl. 171—312)



1. In a voltage regulator connected between a load circuit and a current supply circuit, two cold cathode tubes, a plurality of resistance elements, means for igniting a first one of said tubes from said supply circuit through a first one of said resistance elements and the second of said tubes through a second and a third ones of said resistance elements in series and means for establishing an operating circuit for said first one of said tubes from said supply circuit through a fourth one and said second one of said resistance elements in parallel, for establishing an operating circuit for the second tube from across said first tube through said third resistance element and for energizing the load circuit by the potential drop across said second tube.

2,320,238

AIRCRAFT GUN AND GUNNER'S SEAT MOUNT

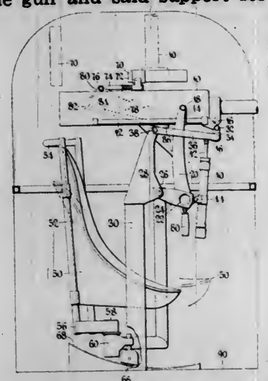
Thomas E. Horncastle, Woodside, Long Island, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.

Application September 24, 1940, Serial No. 358,142

9 Claims. (Cl. 89—37.5)

1. In combination, a support, a frame pivoted upon a substantially horizontal axis to said support, a gunner's seat connected to the frame for movement as a unit therewith about said axis, a gun pivoted to the frame upon an axis parallel to the first mentioned axis and to the opposite

side of the latter from said seat, and means connecting the gun and said support for swinging



the gun about the second mentioned axis when the frame is moved about the first axis.

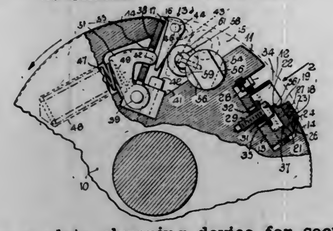
2,320,239

PLATE CLAMP FOR SECURING AND POSITIONING PRINTING PLATES ON PRINTING CYLINDERS

William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York

Application August 3, 1940, Serial No. 350,988

10 Claims. (Cl. 101—415.1)



1. In a plate clamping device for securing a flexible printing plate on the periphery of a cylinder, means for securing an edge of the plate relative to the cylinder, a plurality of first jaw members movably carried by the cylinder and having first jaws to engage the opposite edge of the plate on the cylinder, a plurality of second jaw members each movably supported on a first jaw member and having second jaws cooperating with the first jaws to engage the said opposite edge of the plate on the cylinder, a movable member for operating the second jaw members to open the jaws, and pressure-imparting means operable in opposition to the movable member and continuously coacting with each pair of jaw members for closing the jaws and tensioning the plate when the movable member is moved in a direction to release the jaw members.

2,320,240

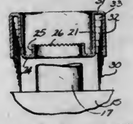
DIE SET ASSEMBLY

Kasimir Janiszewski, Milwaukee, Wis.

Application December 23, 1940, Serial No. 371,252

12 Claims. (Cl. 308—5)

2. In a device of the character described, the combination with an annular bushing and a leader pin reciprocable therein, of an annular lubricating cup having an elongated exterior wall mounted externally on the bushing and having a shorter interior peripheral wall spaced from the leader pin and spaced axially of the leader pin from the end of the bushing, together



with an annular gasket constituting a wick and clamped between the inner wall of said cup and the end of the bushing.

2,320,241

LUBRICATING OIL COMPOSITION

Vance N. Jenkins, Palos Verdes Estates, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application November 21, 1939, Serial No. 305,494

16 Claims. (Cl. 252—32)

1. A lubricating oil which is normally fluid comprising mineral lubricating oil and between about 0.8% and 2.0% of an oil-soluble alkaline earth metal soap of organic acid of the class consisting of gamma and higher position hydroxy aliphatic acids capable of forming lactones, gamma and higher position amino aliphatic acids capable of forming lactams, amino aliphatic acids capable of forming lactims and lactimides, and cyclic hydroxy acids capable of forming lactones, in quantity sufficient to avoid corrosive conditions towards corrosion sensitive alloy bearings without substantial increase in the viscosity of the original lubricating oil.

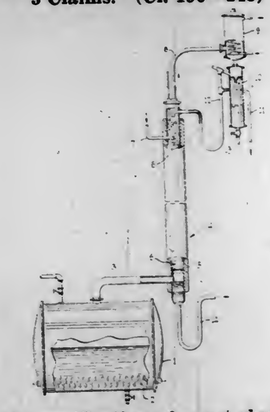
2,320,242

METHOD OF PURIFYING SULPHURIC ACID MIXTURES

Vaman R. Kokatnur, Beechhurst, and Joseph J. Jacobs, Jr., Brooklyn, N. Y., assignors to Autoxygen, Inc., New York, N. Y., a corporation of New York

Application April 10, 1940, Serial No. 328,806

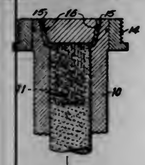
3 Claims. (Cl. 196—148)



1. In the purification of a wet sludge resulting from the treatment of a petroleum distillate with sulphuric acid, the method which comprises supplying the sludge in the form of a stream to the upper portion of a fractionating column, passing upwardly through the fractionating column the vapors of a water-immiscible organic solvent of boiling point approximately 100° to 210° C. that is

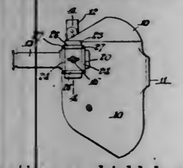
a solvent for the oily material of the sludge but substantially a non-solvent for sulfuric acid, the solvent being adapted to extract oily material from the sludge, condensing the vapors which issue from the top of the column, separating the condensate into a lower aqueous and an upper solvent layer, returning the solvent layer to the upper part of the fractionating column, separating the liquid which collects at the lower end of the column into a lower layer containing sulphuric acid and an upper residual solvent layer containing extracted oily material from the sludge, and then separating the layers from the lower end of the column.

2,320,243
SMOKELESS POWDER COMPOSITION
Bill Harry Mackey, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Original application March 27, 1940, Serial No. 326,162. Divided and this application September 28, 1940, Serial No. 358,774
3 Claims. (Cl. 102—98)



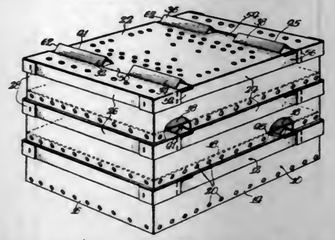
2. In a smokeless powder charge adapted to resist fragmentation upon initiation, a grain pressed to definite dimensions, said grain possessing a random orientation of the particles thereof and having a resistance to impact materially greater than grains of similar composition which have been extruded through a die imparting streamline flow.

2,320,244
ADJUSTABLE HEADGEAR CONNECTION FOR HELMETS
Edmond B. Maillart, Media, Pa., assignor to The Fibre-Metal Products Company, Chester, Pa., a firm composed of John W. Bowers and Charles E. Bowers
Application December 31, 1940, Serial No. 372,556
5 Claims. (Cl. 2—8)



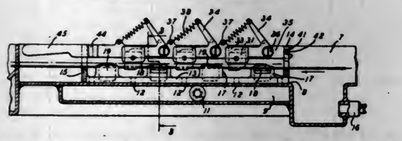
1. In combination, a shield having a window and side apertures, a head band, members respectively traversing said apertures for supporting said shield on said head band, two plates carried by each member on the outside of said shield, means for mounting one plate for sliding action parallel to said window, means for mounting the other plate for sliding action substantially at right angles to said window, each pair of plates being juxtaposed and having overlapping angularly divergent slots to receive one of said members for adjustment of said head band relative to said window, each slot being transverse to the movement of the plate in which it is formed, and means for locking said plates together in any selected adjusted position.

2,320,245
CHICK BOX LID
Kinney I. Miller, Lancaster, Mo.
Application July 7, 1941, Serial No. 401,327
5 Claims. (Cl. 229—6)



1. A box lid structure for use with box bodies having a raised bottom and outer side walls extending below said bottom to a supporting surface comprising a piece of sheet material having a flat top for the lid and vertical side and end walls, hollow upwardly extending reinforcing ribs in parallel alinement extending across the top between opposite sides, said sheet material including tie tongues on the side walls adjacent the outer ends of said respective ribs securing the sides of the ribs together at said outer ends and fixing the lengths of said side walls, the ends of said ribs adjacent the side walls being respectively set inwardly from the line of said side walls a distance not less than the side wall thickness of a box body to permit the lower edges of said box body to rest on said flat top in alinement with the side walls of the next lower box body, said ribs having contact with the underside of the box bottom and providing thereby independent support for said box bottom.

2,320,246
APPARATUS FOR TREATING STRANDS
Vincent A. Rayburn, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 7, 1940, Serial No. 355,879
9 Claims. (Cl. 91—53)

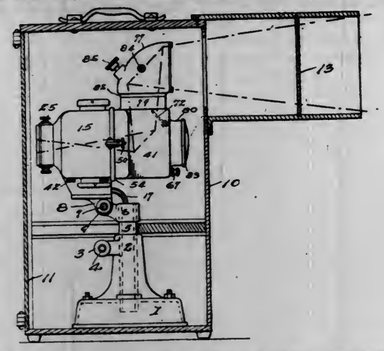


9. An apparatus for treating strand material, comprising a series of alternate stationary and movable dies, said dies being angularly and longitudinally disposed with respect to each other, whereby the movable dies urge a strand passing between the series of dies into contact with the stationary dies.

2,320,247
EPISCOPIC PROJECTOR
Henry Roger, Sandy Hook, Conn.
Application April 1, 1940, Serial No. 327,352
11 Claims. (Cl. 88—24)

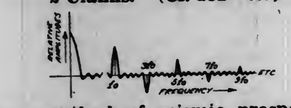
1. In an episcopic projector, the combination with a light protecting housing having a front object-aperture alined with the optical axis of the projector, and means within the housing for illuminating the object-aperture, of a separable casing having a front wall closing the rear end of the housing, said wall having a slotted tubular holder alined with the optical axis and located

in the housing, a focusing rod slidable in a portion of the holder, a projection-objective slidable in the holder, an actuating arm mounted on the



rod and connected with said projection-objective, and control means exterior of the casing for reciprocating the slidable rod.

2,320,248
METHOD FOR SEISMIC SURVEYING
Edwin J. Shimek, Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application January 7, 1942, Serial No. 425,821
2 Claims. (Cl. 181—0.5)



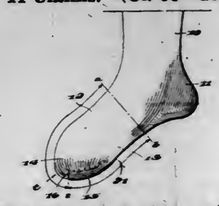
1. In a method of seismic prospecting that comprises creating seismic waves in the earth's surface, detecting the waves after reflection from the interfaces of the substrata by generating corresponding electrical signals and recording the electrical signals in coordination with time that comprises creating seismic waves in the earth's surface by delivering mechanical impulses to the earth's surface at a rate that will produce signals having frequencies falling within predetermined narrow wave bands, selectively detecting said signals, electrically integrating the detected signals and recording the resultant signal in coordination with time.

2,320,249
IRONING PAD
Alva T. Smith, Milwaukee, Wis., assignor to The Sunlite Mfg. Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 26, 1941, Serial No. 404,102
2 Claims. (Cl. 38—140)



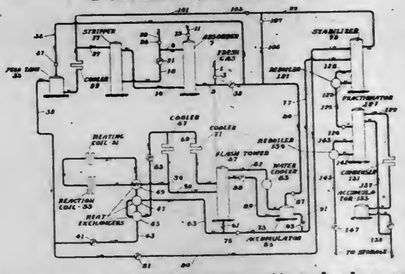
2. In an ironing device, the combination of a pad of resilient material, a cover for said pad, an enclosure for said pad characterized by having heat-reflecting properties and comprising a laminated flexible structure including a layer of fabric to the outer surface of which adjacent said cover is applied in adhesive relation thereto a coating of thermoplastic material, said material having its surface embossed to increase its heat-reflecting properties and tending to prevent adhesion between the same and said cover.

2,320,250
FULL FASHIONED STOCKING AND MANUFACTURE THEREOF
Israel E. Solar, New York, N. Y., assignor to National Hosiery Mills, Inc., a corporation of Indiana
Application October 6, 1941, Serial No. 413,865
11 Claims. (Cl. 66—187)



1. A full fashioned stocking wherein the toe end of the sole and upper foot portions is closed by a line of stitches, the toe looping line being spaced rearwardly of the front extremity of the toe and being located in the sole area of the toe.

2,320,251
THERMAL CONVERSION OF HYDROCARBON GASES
John W. Throckmorton, Wilton, Conn., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application December 28, 1940, Serial No. 372,145
4 Claims. (Cl. 196—10)

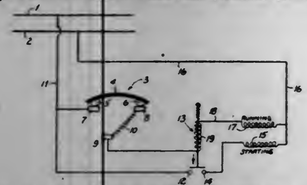


1. In a process for converting hydrocarbon gases into liquid hydrocarbons at elevated temperatures between approximately 900 and 1200° F. at which the reaction products remain in the vapor phase, the steps of reducing the reaction products by indirect heat exchange with charging gases to a temperature close to but not below the dew point thereof and then suddenly reducing the temperature of the partially cooled reaction products below the dew point by direct contact with cooler liquid of such nature that a large portion thereof remains liquid at the temperature to which the reaction products are reduced.

2,320,252
THERMOSTATIC PROTECTIVE CIRCUIT
Victor G. Vaughan, Attleboro, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application January 24, 1941, Serial No. 376,556
4 Claims. (Cl. 172—279)

1. In a motor starting circuit for a motor hav-

ing running and starting windings in parallel across a supply circuit, a relay responsive to current in the running winding and having contacts in the circuit of said starting winding adapted under predetermined current values to close said



contacts, and a thermostat responsive to current flowing to at least one of said motor windings, said thermostat comprising a thermostatic element having contacts only in the circuit of the running winding and carrying the current in said winding.

2,320,253

PROCESS FOR THE PRODUCTION OF FORMALDEHYDE

Herrick R. Arnold, New Castle County, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 8, 1940, Serial No. 322,932

7 Claims. (Cl. 260—603)

1. A process for the production of formaldehyde which comprises catalytically oxidizing methanol at a temperature within the range of about 225° C. to about 450° C. while in contact with a mixture of the oxides of tungsten and molybdenum.

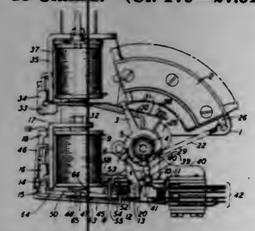
2,320,254

SWITCHING MECHANISM

George E. Atkins, Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 26, 1941, Serial No. 420,477

13 Claims. (Cl. 179—27.51)



1. In a stepping mechanism, a magnet having, a winding, a core and a return pole-piece, a circuit for momentarily energizing said winding, a heavy armature having an aperture, a light armature having an extension located in the center of said aperture so that the magnetic flux produced between said core and pole-piece when the winding is energized by said circuit will be concentrated in a single stream through said armatures, a second circuit for said winding, contact springs for said second circuit and means controlled by said armatures arranged so that when the light armature is attracted by said core, said contact springs are actuated to close said second circuit to continue the energization of said winding and when the heavy armature is fully attracted by said core, said contact springs are separated to open said second circuit to discontinue the energization of said winding.

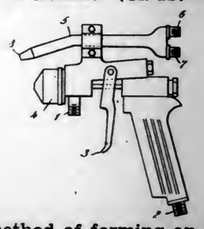
2,320,255

COATING METHOD AND MATERIAL

Raymond F. Bacon, Bronxville, N. Y., and Isaac Bencowitz, Newgulf, Tex., assignors to Texas Gulf Sulphur Company, Houston, Tex., a corporation of Texas

Application June 20, 1940, Serial No. 341,506

6 Claims. (Cl. 117—46)



1. The method of forming an asphalt coating which comprises spraying an asphaltic fluid mixture of asphalt and an inflammable organic compound in the direction of the surface to be coated, and igniting the spray and burning off a part of the inflammable agent, thereby heating the asphalt to a relatively high state of fluidity before it strikes the said surface and forming an asphalt coating which adheres to the surface with great tenacity.

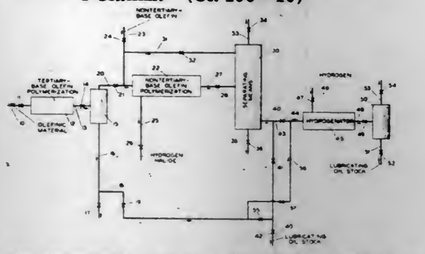
2,320,256

POLYMERIZATION OF OLEFINS

Grant C. Bailey, Dewey, and James A. Reid, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application June 10, 1941, Serial No. 397,472

4 Claims. (Cl. 196—10)



1. An improved process for polymerizing a mixture containing tertiary-base and nontertiary-base olefins to form polymers suitable for use as lubricating oil stock, which comprises polymerizing said mixture in the presence of a metal halide catalyst and in the absence of a hydrogen halide to polymerize substantially only tertiary-base olefins to form polymers suitable for use as lubricating oil stock, removing polymers so formed, and polymerizing unpolymerized olefins of said mixture in the presence of a metal halide catalyst associated with a hydrogen halide to form aliphatic polymers suitable for use as a lubricating oil stock, and recovering also the last said polymers so produced.

2,320,257

PROCESS FOR DRYING NITROSYL CHLORIDE GAS

Herman A. Beekhuis, Jr., Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York

No Drawing. Application March 3, 1939, Serial No. 259,578

12 Claims. (Cl. 23—157)

1. The process for drying a moist nitrosyl chloride gas which comprises passing said gas in direct contact with liquid nitrosyl chloride in amount sufficient to absorb the moisture from the gas and leave therein less than 0.01% total moisture and withdrawing the nitrosyl chloride gas thus treated from contact with the liquid nitrosyl chloride as a substantially dry gas containing less than 0.01% total moisture.

6. The process for obtaining dry, liquid nitrosyl chloride from a moist nitrosyl chloride gas which comprises passing said moist gas in contact with liquid nitrosyl chloride in apparatus constructed of a non-metallic material resistant to corrosion by the moist gas wherein the gas is dried by contact with said liquid nitrosyl chloride without extraction of heat through non-metallic walls of said apparatus by an extraneous cooling agent, thereafter cooling the thus dried gas in contact with heat transfer surfaces of a metallic material resistant to corrosion by the dried gas to condense liquid nitrosyl chloride therefrom, and maintaining at least a portion of the condensed dry, liquid nitrosyl chloride out of contact with said moist gas.

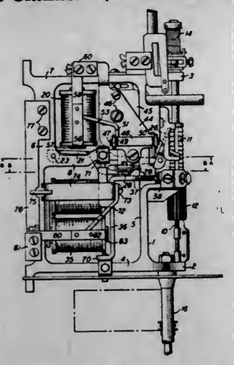
2,320,258

SWITCHING MECHANISM

Vincent F. Bohman, Astoria, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New N. Y., a corporation of New York

Application November 26, 1941, Serial No. 420,449

8 Claims. (Cl. 179—27.52)



1. In a stepping mechanism, a motor magnet, an energizing circuit therefor, a main armature, an auxiliary armature, interrupting contacts, a circuit including said contacts for locking said magnet, means for closing said contacts to lock said magnet operative by said auxiliary armature when said magnet is first energized by said first circuit, and means including said auxiliary armature for opening said locking circuit operative by said main armature when fully attracted.

2,320,259

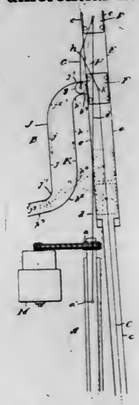
MOTION TRANSMITTING MECHANISM

Bryan Brassell, Santa Rosa, N. Mex.

Application July 15, 1942, Serial No. 451,052

20 Claims. (Cl. 74—25)

1. In motion transmitting mechanism, a power source operative to provide reciprocatory movements of predetermined stroke length with each stroke having its advance at uniform speed and with successive strokes spaced by a time interval, a reciprocatory element operative as an impeller for a work-performing instrumentality, and a control unit operatively interposed between and operatively connected to both the power source and the element and operative by power source movements to control the advancing speed of the element during each stroke, said power source, element and control unit being co-related in operation to provide the following automatic succession of reactions to the uniform speed advance of the power source in a rectilinear path and during each power source stroke: with the element at zero speed position and with the power source active at such uniform speed to thereby render the control unit active in the control of element advance through the stroke, subject the element to power application applied through the unit to start element advance from its zero speed position and under predetermined speed ratio conditions of major differential-in-speed values as



compared with the uniform speed value of the power source and below the latter speed; continue the element advance with progressive decrease of the differential-in-speed value by increase of element speed until the speeds of the power source and the element are similar in value; maintain the similar value speed relationship until reaching the approach zone at the end of the stroke; and then beginning a progressive speed reduction of the element speed by development of and increase of the speed differential values between the speeds of the power source and element until the element speed value becomes of zero speed value, and maintaining the element in its latter value position during power source activity to reverse the direction of reciprocatory advance in the power source for the succeeding stroke.

2,320,260

COLUMBIUM-BEARING AUSTENITIC STEEL AND ARTICLES PRODUCED THEREFROM

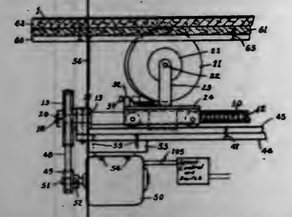
Vere B. Browne, Brackenridge, Pa., assignor to Allegheny Ludlum Steel Corporation, a corporation of Pennsylvania

No Drawing. Application November 22, 1940, Serial No. 366,556

6 Claims. (Cl. 75—128)

1. Austenitic steel which is composed of about 16–20% chromium, about 8–14% nickel, below about 0.2% and a small percentage of columbium ranging from about 6–10 times the carbon contact, and characterized by having a chromium-nickel ratio not over 2:1 and the ability to be subjected to conventional hot working operations at the usual temperatures thereof without the formation of sufficient delta ferrite to cause tearing, cracking and rupturing, the balance thereof being substantially all iron except for the usual impurities in common amounts.

2,320,261
BODY MASSAGING MACHINE
Oscar Thomas Buffalow, Chattanooga, Tenn.
Application February 19, 1940, Serial No. 319,717
2 Claims. (Cl. 128—57)



1. A massage table comprising a table having an opening in the top thereof, a carriage, freely rotating resilient massage rollers carried by the carriage for reciprocating in said opening, a track for said carriage resiliently mounted thereunder for adapting said rollers to contours of the subject's body, said massage rollers being spaced to apply to subject's back on both sides of the spinal column, means for angularly adjusting said rollers with respect to their planes of rotation, means for reciprocating said rollers.

2,320,262
PAINT CAN HANDLE AND BRUSH WIPING ATTACHMENT
Talmage D. Campbell, Ocala, Fla.
Application July 31, 1941, Serial No. 404,930
5 Claims. (Cl. 220—90)

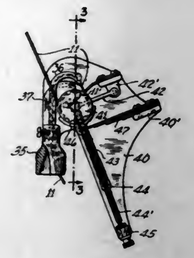


1. A device of the class described including a supporting handle having spaced gripping members for engagement beneath the friction groove of a paint can and offset with respect to the center of said can, clamping members pivotally mounted on the handle and adapted to engage the top of the can at said gripping members and cooperating therewith to prevent displacement of the handle, and a wiping bar carried by the handle and having its intermediate portion extending transversely of the top of the can in spaced relation to the inner wall thereof, said wiping bar being provided with depending loops fitting within the open top of said paint can.

2,320,263
SOLUBLE CUTTING OIL
Ejnar W. Carlson, Roselle Park, and Elmer B. Cyphers, Clark Township, Union County, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 5, 1941, Serial No. 401,218
12 Claims. (Cl. 252—49.5)

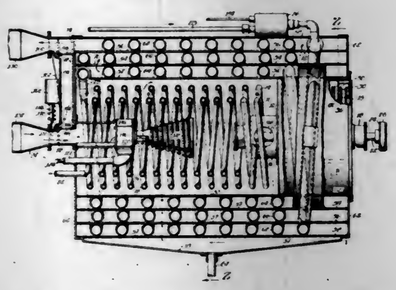
1. An improved alkaline-soluble oil composition comprising a base oil, an emulsifying agent of the oil-in-water type, and an addition agent selected from the class of phenols which are characterized by having at least two alkyl groups attached directly to the phenolic ring.

2,320,264
WIRE TENSIONING DEVICE
Penrose E. Chapman, Sr., St. Louis, Mo.
Original application October 1, 1938, Serial No. 232,715, now Patent No. 2,242,053, dated May 13, 1941. Divided and this application January 21, 1941, Serial No. 375,315
3 Claims. (Cl. 242—155)



1. In a device for automatically controlling the tension on a filament or the like being continuously withdrawn from a source of supply, a rotatably mounted wheel having an axially tapering tread about which the filament is helically trained; and a brake member engageable with the filament to press it against the wheel tread, at least one of the elements being yieldably mounted to provide tension-responsive pressure between the brake member, filament and wheel tread, and the taper of the tread effecting axial slippage of the filament thereon toward the smaller diameter as said filament is supplied to and withdrawn from the tread, whereby the filament is moved across the face of the brake member to distribute the wear thereon.

2,320,265
REFRIGERATING APPARATUS
Leonard F. Clerc, Chicago, Ill.
Application January 22, 1940, Serial No. 314,905
8 Claims. (Cl. 62—115)



1. In a refrigerating system, the combination of a chamber having a space to be cooled, a heat exchanger having generally parallel passageways therethrough for the circulation of air and refrigerant in heat exchange relationship, means to supply a refrigerating medium to said heat exchanger, a blower for circulating air serially through said heat exchanger and said chamber, automatically operable means for limiting the circulation of air by said blower to flow through said heat exchanger during a fixed interval in a refrigerating cycle of predetermined length, and means to heat said heat exchanger while the air is limited to flow therethrough.

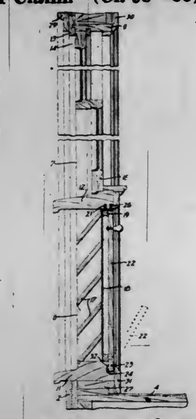
2,320,266
TREATING CORROSIVE OILS
Charles A. Cohen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 27, 1939, Serial No. 311,117
11 Claims. (Cl. 196—44)

1. The process of reducing the color and corrosiveness of acid-treated oils on copper which comprises treating the oil in its neutral state with the anhydrous reaction products of metallic magnesium and an organic compound possessing a replaceable hydrogen selected from the group consisting of an alcohol and a ketone.

2,320,267
TREATING CORROSIVE OILS
Charles A. Cohen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 29, 1939, Serial No. 311,592
10 Claims. (Cl. 196—41)

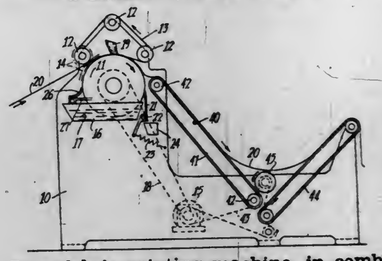
1. The process of improving the color and reducing the corrosiveness of acid-treated oils on copper which comprises treating the oil in its neutral state first with strong alkali, then with a compound having the formula $Me(X)_n$, where Me is a metal selected from the group consisting of aluminum, tin and zinc; X is a radical selected from the group consisting of alkyl, alkoxy, and alkylhalide radicals, n is a number equal to the valence of the metal radical selected and freeing the oils from the products of reaction.

2,320,268
VENTILATOR
Otto Paul Cramer, San Francisco, Calif.
Application November 17, 1939, Serial No. 304,935
1 Claim. (Cl. 98—88)



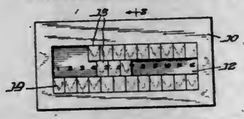
A combined window and ventilator casement fabricated as a unit for installation in a building wall and comprising a pair of uniformly spaced side members connected at their upper ends by a top frame member and at their lower ends by a louver sill, a window sill secured to the side members at a level above the louver sill, said window sill dividing the casement into an upper sash receiving portion and a lower ventilator portion, louver boards extending transversely across the ventilator portion with their ends secured directly to the side members, and a door pivoted at its lower edge upon the inner side of the casement for covering the ventilator portion, the inner edge of the louver sill being recessed to receive the lower edge of the door and provided with a shoulder for limiting opening movement thereof.

2,320,269
TEXTILE PRINTING MACHINE
George W. Darenberg and Donald Shea, Freeport, N. Y., assignors to Phoenix Novelty Textile Printers, New York, N. Y.
Application May 13, 1941, Serial No. 393,158
2 Claims. (Cl. 101—126)



1. In a fabric printing machine, in combination, a stencil, means for applying color through the stencil, a rotary cylinder in contact with which the fabric passes beneath the stencil to receive a print of applied color, said cylinder presenting a smooth surface as a backing in contact with the fabric at the point of color application, means for removing from the surface of said cylinder any color adhering thereto beyond said point of color application, a conveyor having an end adjacent the cylinder for stripping the fabric from the cylinder after printing and means for applying a comminuted material to the surface of said stripper-conveyor.

2,320,270
GAME
Arnold F. Emch, Chicago, Ill.
Application April 30, 1941, Serial No. 391,016
6 Claims. (Cl. 273—132)

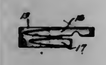


6. Game apparatus of the character described comprising means providing a series of surfaces bearing numbers in arithmetical sequence, and additional characters having a sequence relation when appearing in the same order as the said numbers, means providing a series of positions with which to relate said first-mentioned series of surfaces as in playing a game, means providing relative movement between said first-mentioned means and second-mentioned means without affecting the sequence order thereof and means concealing at least one of said series but permitting at least one member of such concealed series to be exposed at a time at one of said positions.

2,320,271
EDGE TO EDGE SEWING MACHINE ATTACHMENTS
David C. Everitt, Milwaukee, Wis.
Application October 18, 1941, Serial No. 415,510
4 Claims. (Cl. 112—23)

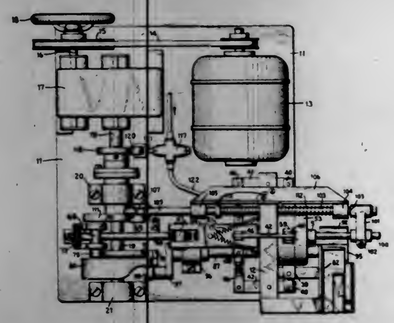
1. In a sewing machine including a thread-

carrying, reciprocating needle having lateral vibrations transverse to the line of feed, a pressure foot having mounting means at one end and having a free end and engageable with braid strands which are divergent forwardly of said foot, said foot at its free end also having a pair of adjacent legs whose under surfaces form work engaging faces, there being a slot between the free end portions of the legs adjacent which the needle reciprocates for sewing operations, the under surfaces of said legs having closely adjacent braid receiving grooves therein extending from the free ends of the legs toward the



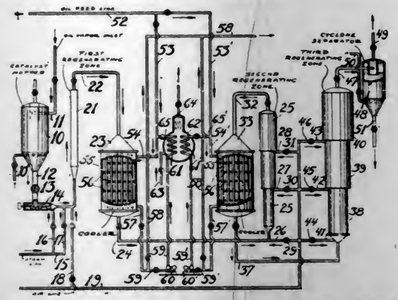
mounted end of the foot, the extent of the grooves toward the mounted end of the foot being separated by a ridge which is in longitudinal alinement with said slot and which terminates at said slot, said ridge forming side walls for both grooves, said slot having a width which is substantially equal to the width of the base of the forward end of the ridge whereby the inner margins of the grooves adjacent the slot are substantially unobstructed to cause strands in the two grooves to be crowded into contact with one another along a line extending midway of the slot and ridge.

2,320,272
NOTCHING MACHINE AND METHOD
John H. Friden, Maplewood, N. J., assignor to The Sun Tube Corporation, Hillside, N. J., a corporation of New Jersey
Application January 21, 1942, Serial No. 427,583
20 Claims. (Cl. 164—47)



18. In a machine of the class described storage means for tubular members, means for retaining said members individually in a position to be operated upon, a shiftable trough arranged to receive such members successively from said storage means and transfer the same to a position alined with said retaining means, a reciprocable member for transferring a tubular member from said trough to said retaining means, said reciprocable member acting to retain said tubular member in association with said retaining means as said member is operated upon, and means for returning said trough to its position for receiving another tubular member from said storage means while said reciprocable member acts to retain the first tubular member, said trough having a yielding portion to enable said return.

2,320,273
REGENERATION OF SOLID CONTACT MATERIAL
Edwin J. Gohr, Summit, and William I. Thompson and Homer Z. Martin, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 16, 1940, Serial No. 335,544
9 Claims. (Cl. 196—52)

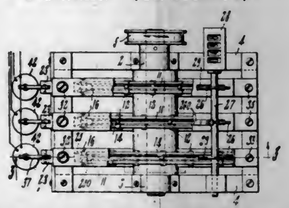


1. A method of regenerating finely divided solid contact material containing combustible deposits which comprises passing the contact material through a plurality of regenerating zones separated one from the other, each zone containing an oxidizing atmosphere, controlling the amount of oxygen in each of said regenerating zones to prevent the temperature from exceeding a desired maximum and cooling the contact material between said regenerating zones.

2,320,274
CONVERSION OF NORMALLY GASEOUS HYDROCARBONS
Everett Gorin, Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 26, 1941, Serial No. 399,943
11 Claims. (Cl. 260—673)

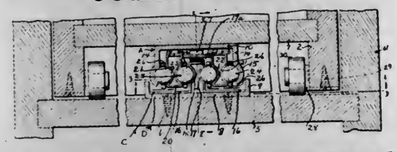
1. The process of manufacturing benzene, ethylene and acetylene from normally gaseous paraffins which comprises halogenating the paraffins in a first stage to form an alkyl halide charge stock containing at least about 20% by volume of alkyl halides and then in a second separate stage pyrolyzing said alkyl halide charge stock at a temperature above about 500° C.

2,320,275
TOTALIZER
Perley F. Grout, Wakefield, Mass.
Application August 7, 1941, Serial No. 405,811
3 Claims. (Cl. 235—91)



1. A totalizer comprising a shaft, a plurality of wheels carried by said shaft, each of said wheels having a peripheral groove, slotted partitions arranged at intervals across said grooves and defining therewith a plurality of pockets, the partitions of the several wheels being out of alinement lengthwise of said shaft, casing means closing off the outer faces of said grooves and having a channel leading from the periphery of each wheel above its axis and a channel leading to said periphery below said first mentioned channel, said first mentioned channel constituting a ball-receiving reservoir, a valve movable to take a ball from said first-mentioned channel and deliver said ball to the other of said channels to pass therefrom into one of said wheel pockets, a second shaft, a star wheel for each of said pocket wheels fixed to said second shaft and positioned to be struck by a ball in any of the pockets of the corresponding wheel to thereby turn said second shaft, a counter actuated by the turning of said second shaft, a guide finger projecting into each of said grooves and in line with the slots of said partitions and between said star wheels and channels and positioned to guide the balls from said groove and conduct them into their respective first-mentioned channels, means for rotating said wheel carrying shaft, and means individual to each valve for actuating said valves.

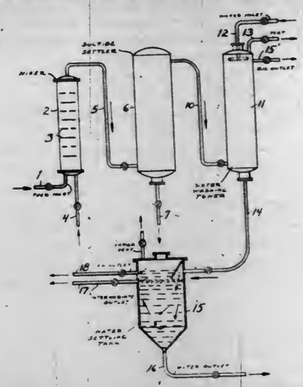
2,320,276
SLIDE DRAWER CONSTRUCTION
Nathan A. Gussack, New York, N. Y.
Application June 14, 1940, Serial No. 340,527
3 Claims. (Cl. 308—6)



1. In combination, a frame which has a horizontal supporting wall, a drawer having a bottom horizontal wall which is located above said supporting wall, said drawer being longitudinally slidable forwardly and rearwardly relative to said supporting wall, a bottom longitudinal member fixed to said supporting wall, said bottom member having upstanding walls which are provided with first longitudinal grooves, additional drawer-supporting longitudinal walls which are slidable forwardly and rearwardly relative to said bottom member, said drawer-supporting longitudinal walls having second longitudinal grooves, said first longitudinal grooves and said second longitudinal grooves being arranged in respective pairs, a retainer located intermediate each said pair of grooves, each said retainer having perforations, each said retainer having balls turnably located in said perforations and also turnably fitting in the grooves of the respective pair of grooves, the bottom member having stops against which the front ends of the retainers can abut to limit the forward movement of said retainers, said drawer-supporting longitudinal walls having lugs which strike the rear ends of the retainers when said drawer-supporting walls are moved forwardly, the longitudinal distance between said stops and said lugs exceeding the lengths of said retainers when said drawer-supporting walls are in their extreme rear position.

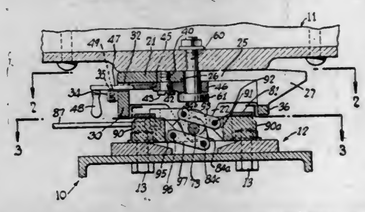
2,320,277
PROCESS OF SWEETENING PETROLEUM DISTILLATES
Minor C. K. Jones, Bound Brook, and Richard C. Brandon, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application October 29, 1941, Serial No. 416,962
8 Claims. (Cl. 196—33)

1. In a process of sweetening hydrocarbon distillate oils containing mercaptans involving the dispersion of metal sulfides in the sweetened distillate product, the step comprising separating



said metal sulfides from the oils with the aid of an aqueous dispersion of a small amount of a polysaccharide.

2,320,278
NONTILTING FIFTH WHEEL
John Johnston, Jersey City, N. J.
Application August 4, 1941, Serial No. 405,336
5 Claims. (Cl. 280—33.1)



1. In combination, a base, a member pivoted to the base, said member being formed with a pair of depending flanges, a pair of parallel brackets mounted on the base, blocks slidably mounted within said brackets, a second pair of brackets on the base and carrying a horizontal shaft parallel to said first brackets and base and disposed between said blocks, a lever on said shaft, a link interconnecting one end of the lever to one of said blocks and a link interconnecting the other end of said lever to the other block, and means to rotate said shaft to move the blocks in opposite directions beneath said flanges.

2,320,279
DETERGENT COMPOSITION
Varton Mardiras Kalusdian, New York, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application March 24, 1938, Serial No. 197,867
16 Claims. (Cl. 252—102)

2. A substantially dry stable salt mixture comprising a stable calcium hypochlorite containing upwards of 50% available chlorine and substantially free of calcium chloride, sodium carbonate in an amount in excess of that necessary to react with all of the calcium present in the mixture, and a synthetic organic water soluble detergent salt which does not produce an insoluble precipitate in the presence of calcium ions.

2,320,280
DETERGENT AND STERILIZING COMPOSITION
Varton Mardiras Kalusdian, New York, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application March 24, 1938, Serial No. 197,868
13 Claims. (Cl. 252—102)

2. A substantially dry stable mixture having improved detergent and sterilizing properties comprising a stable calcium hypochlorite containing upwards of 50% available chlorine and substantially free of calcium chloride, and a synthetic organic water soluble detergent salt which does not produce an insoluble precipitate in the presence of calcium ions.

2,320,281
PROCESS FOR CLEANING RUGS
Varton Mardiras Kalusdian, New York, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application June 2, 1938, Serial No. 211,391
9 Claims. (Cl. 141—1)

2. A process for cleaning rugs which comprises treating the rug with an aqueous solution formed by dissolving in water a stable calcium hypochlorite, sodium carbonate in excess of that necessary to react with all of the calcium present, sodium bicarbonate, and a synthetic organic water soluble detergent salt which does not produce an insoluble precipitate in the presence of calcium ions, and rinsing the thus treated rug.

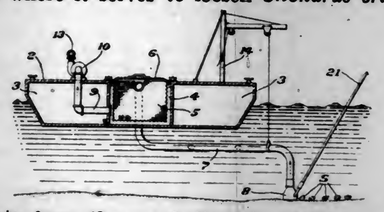
2,320,282
DIAGNOSTIC COMPOSITIONS FOR AMINOARYLSULPHONAMIDES
Jonas Kamlet, Brooklyn, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
No Drawing. Application October 20, 1941, Serial No. 415,773
14 Claims. (Cl. 23—230)

1. Diagnostic compositions comprising in dry solid form a member of the group consisting of the salts of the para-dialkylaminobenzaldehydes with non-oxidizing inorganic acids, a member of the group consisting of citric and tartaric acids, and a water-soluble blue dyestuff.

9. A process for testing for aminoarylsulphonamides in fluids which consists in adding to a measured amount of said fluid a measured amount of a composition as described in claim 1, to produce a color which by comparison with a color standard indicates the quantity of aminoarylsulphonamide in the fluid.

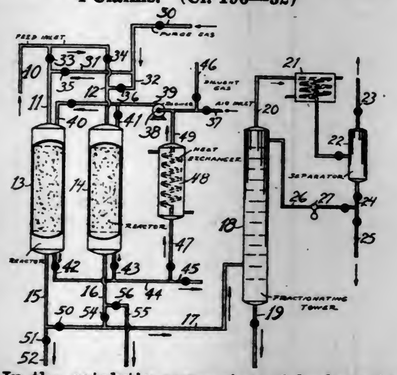
2,320,283
SEA MOSS HARVESTING APPARATUS
Edward R. Knowlton, Rockport, George F. Doucette, Gloucester, and John W. Eager, Fitchburg, Mass.
Application October 17, 1941, Serial No. 415,480
12 Claims. (Cl. 56—9)

1. A harvesting apparatus for gathering sea moss growing on rocks or ledges on the ocean bottom comprising the combination with a barge, of a tank therein, a screening receptacle mounted in said tank, pipe connections leading into said receptacle and adapted to reach a point located a substantial distance below the bottom of the barge, a suction pump connected with said tank to draw water through said tank, said screening receptacle and said pipe connections, and a rake connected with the lower end of said pipe connections in a fixed relationship to said end where it serves to loosen *Chondrus crispis*



plants from the sea bottom in position to be picked up in the current of water flowing upwardly into said receptacle and to be discharged into it thereby.

2,320,284
CATALYTIC CONVERSION
Robert W. Krebs and Edward W. Nicholson, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application August 23, 1939, Serial No. 291,460
4 Claims. (Cl. 196—52)

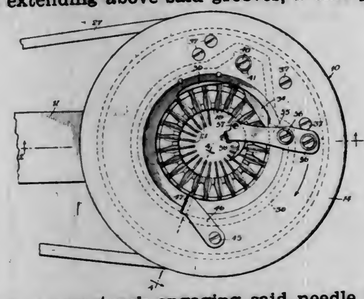


1. In the catalytic conversion of hydrocarbon oils wherein the oil vapors to be converted are passed through a conversion zone containing a conversion catalyst for a predetermined period, after which the flow of oil vapors is discontinued and the conversion zone purged of oil vapors by passing an inert purging gas through the conversion zone; the method of preventing the retention of a stagnant body of oil vapors within the conversion zone during the manipulation of the valves controlling the flow of oil vapors and purging gas which comprises commingling an inert purging gas with the oil vapors passing through the conversion zone during the final stages of the conversion period and thereafter discontinuing the supply of oil vapors passing to the conversion zone while continuing the supply of purging gas to thereby remove volatile constituents from the catalyst within said conversion zone.

2,320,285
KNITTING MACHINE
William J. Kuehnel, Sag Harbor, N. Y., assignor of one-half to John G. G. Merrow, New York, N. Y.
Application May 8, 1942, Serial No. 442,142
6 Claims. (Cl. 66—31)

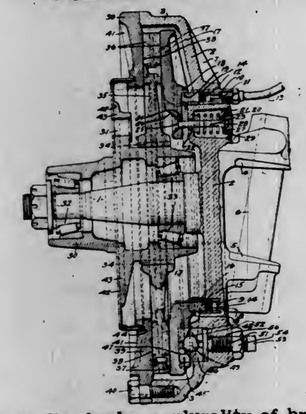
1. A circular knitting machine comprising a

stationary base plate, a plurality of needle grooves radially disposed in said base plate, needles having latches in said grooves with their butts extending above said grooves, a cam plate



having a cam track engaging said needle butts mounted on said stationary plate, the periphery of said cam plate forming a pulley wheel, a belt in said pulley wheel, and a combined yarn feeder and latch opener mounted on said cam plate.

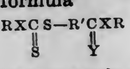
2,320,286
BRAKE CONSTRUCTION AND ADJUSTING MEANS THEREFOR
Homer T. Lambert, St. Joseph, Mich., assignor to The Lambert Brake Corporation, St. Joseph, Mich., a corporation of Michigan
Application November 7, 1941, Serial No. 418,256
4 Claims. (Cl. 188—72)



1. In a disc brake, a plurality of brake members having relative axial and rotative movement, one of said brake members being rotatable by a part to be braked, means for producing relative axial movement of said brake members to cause a braking action by frictional engagement thereof, said last named means including axially spaced opposed cam members having oppositely inclined cam surfaces and a rolling member interposed therebetween, one of said opposed cam members being carried by one of said brake members, and means for axially adjusting the other of said opposed cam members to produce a corresponding axial adjustment of the brake member which carries the opposed cam member, comprising a thrust screw having a flat head on the inner end bearing against the face of the last-mentioned cam member and of a surface area corresponding thereto whereby to exert equi-pressure to the cam member surface in adjustment of the cam member to fixed position relative to the cooperating cam member.

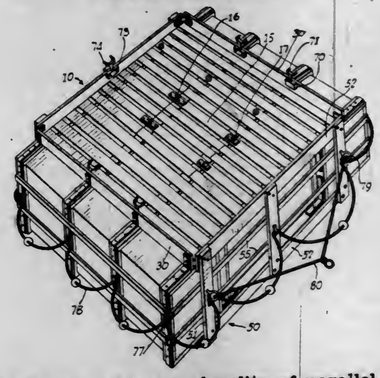
2,320,287
LUBRICATING OIL
Eugene Lieber, Linden, and Louis A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application April 7, 1939, Serial No. 266,532
17 Claims. (Cl. 252—46)

1. An improved lubricant comprising essentially a lubricant and a small quantity of a compound having the formula



in which R and R' are organic radicals, X is an element selected from the class consisting of oxygen, sulfur, selenium and tellurium and Y is an element selected from the class consisting of hydrogen and a negative element of Group VI of the Periodic System.

2,320,288
LIFE RAFT
Nathan G. Margolin, Brooklyn, N. Y., and Walter P. Wells, Nutley, N. J.
Application April 1, 1942, Serial No. 437,218
1 Claim. (Cl. 9—11)

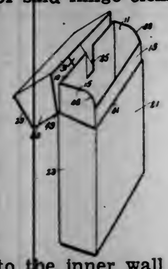


A raft comprising a plurality of parallel, vertical, transverse frames, each frame comprising top and bottom horizontal, parallel members interconnected by vertical end struts and vertical struts disposed inwardly of the end struts, spaced straps securing said end struts to said vertical struts, each strap having end portions projecting in a plane normal to said top and bottom flooring, said frames being interconnected by top and bottom longitudinal flooring, a pair of pontoons mounted on said frames, each pontoon being disposed between the top and bottom members of said frames and the outer struts, and the struts disposed inwardly of the outer struts, the space between the pontoons and the flooring being divided into compartments by transverse bulkheads, said bulkheads being formed with aligned openings, a pair of front and rear end members attached to the front and rear frames, rails secured to said strap end portions, and oarlocks on said rails.

2,320,289
CARTON
Frank A. Marx, Bridgetown, Ohio, assignor to The Richardson Taylor-Globe Corporation, Cincinnati, Ohio, a corporation of Ohio
Application July 14, 1942, Serial No. 450,874
2 Claims. (Cl. 229—44)

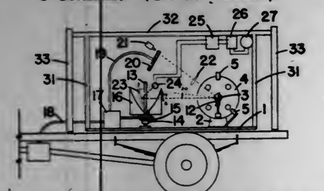
1. In a carton, an inner wall, an outer wall

overlying the inner wall, an integral hinge element formed on the outer wall, the inner wall in that portion thereof overlaid by the hinge element being provided with a notch of a depth equivalent to the width of said hinge element, and a glue



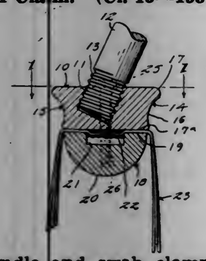
strip applied to the inner wall prior to juxtaposition of said two walls and extending across said inner wall to the inner end only of said notch whereby, upon such juxtaposition, said hinge element is left free for operation relative to the inner wall.

2,320,290
INTEGRATING GRADIOMETER
Eugene M. McNatt, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 8, 1941, Serial No. 405,910
8 Claims. (Cl. 33—141.5)



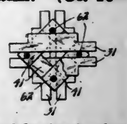
1. In a method for determining variations in elevation of terrain traversed by a vehicle the steps which comprise creating a repeating signal of a frequency proportional to the rate of travel of the vehicle, transmitting to an indicating device a number of repetitions of said signal proportional to the sine of the angle which the longitudinal axis of said vehicle makes with the horizontal, and exposing for observation the repetitions of the signal so transmitted.

2,320,291
MOP AND MOP HANDLE
Max Moskowitz, Bronx, N. Y.
Application September 21, 1942, Serial No. 459,171
1 Claim. (Cl. 15—153)



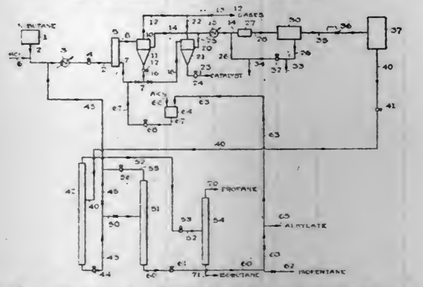
A mop handle and swab clamping structure comprising a handle, an elongated upper clamp secured to said handle, said upper clamp having a flat lower side substantially narrower than the upper side, a pair of outwardly projecting upwardly divergent splash guards integral with the opposite longitudinal edges of said upper clamp, each guard formed with a concave outer side, a lower clamp provided with a flat upper side having a longitudinal channel within which the web of the mop is adapted to engage and also provided with a convex lower side, the upper side of said lower clamp being of a width substantially equal to the width of the lower side of said upper clamp, said channel dividing said lower clamp into a pair of spaced clamping portions confronting the lower flat side of said upper clamp to thereby clamp the swab transversely of the latter at a pair of spaced points with the web loosely engaging in said channel, and a pair of bolts detachably securing said clamps together, said bolts being disposed outwardly of the opposite edges of the swab.

2,320,292
EDUCATIONAL BLOCK
Evan L. Nelson, Austin, Minn.
Application June 27, 1940, Serial No. 342,698
1 Claim. (Cl. 46—25)



A set of building blocks including a plurality of blocks, at least some of which have spaced apertures therethrough, a base unit having apertures therein spaced in conformity with those in said above mentioned apertured blocks, dowel pins inserted in said base unit apertures and adapted to extend outwardly therefrom, certain of said blocks being of such width as to impart a spreading force to groups of pins when slipped between said pins, and said apertured blocks being adapted to receive sets of said pins to retain them against their tendency to spread whereby a substantially rigid structure of frictionally clamped blocks and pins can be formed.

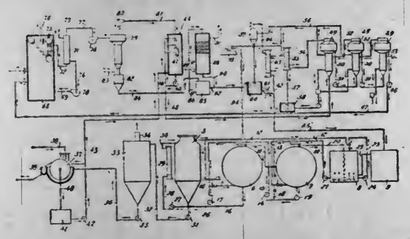
2,320,293
CONVERSION OF PARAFFINIC HYDROCARBONS
Povl Ostergaard, Mount Lebanon, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 3, 1941, Serial No. 413,510
14 Claims. (Cl. 260—683.4)



1. A method of rapidly conducting the conversion of paraffin hydrocarbons into other, branched-chain paraffin hydrocarbons in the liquid phase and in the presence of a liquid aluminum halide-hydrocarbon catalyst, which comprises so thoroughly and intimately contacting

the hydrocarbon reactant material with the catalyst that a mixture is produced which has substantially no tendency to separate in the zone of reaction and which separates slowly by gravity separation after withdrawal from the zone of reaction, withdrawing such mixture from the zone of reaction and introducing it into a first separating vessel and separating the mixture therein into a liquid layer comprising the major part of the reaction product substantially free from catalyst and a liquid layer comprising catalyst containing a substantial amount of reaction product, separately withdrawing the substantially catalyst-free reaction product and the reaction product catalyst mixture from said vessel, recycling the major part of the withdrawn reaction product catalyst mixture to the zone of reaction, introducing a minor part of the withdrawn reaction product catalyst mixture into a second separating vessel and therein effecting a substantially complete separation of catalyst and reaction product, and separately withdrawing the substantially catalyst free reaction product and the thus separated catalyst from said second separating vessel.

2,320,294
SULPHITE PROCESS
George Victor Palmrose and Donald Keith MacBain, Longview, Wash., assignors to Weyerhaeuser Timber Company, Longview, Wash., a corporation of Washington
Application April 23, 1940, Serial No. 331,084
2 Claims. (Cl. 92—11)



1. A cyclic method of treating ligno-cellulosic material which comprises the essential steps of cooking the ligno-cellulosic material under pressure with a solution of magnesium bisulphite containing a substantial excess of free sulphur dioxide, releasing gases during and after the cooking, separating the acid waste liquor from the treated cellulosic material after completion of the cooking operation, evaporating and burning the separated acid waste liquor to produce an ash consisting mainly of magnesium oxide and combustion gases containing sulphur dioxide, adding magnesium compounds and sulphur as required to make up losses of the evaporated liquor during the burning of the waste liquor, making a slurry of the magnesium oxide ash, absorbing the sulphur dioxide in said combustion gases in said slurry to reform magnesium bisulphite to be used in a subsequent cooking operation, condensing the vapor resulting from the evaporation of the waste liquor to separate sulphur dioxide therefrom, absorbing the separated sulphur dioxide in the magnesium bisulphite liquor produced from the ash and the sulphur dioxide of the combustion gases, and returning the reformed magnesium bisulphite containing the absorbed sulphur dioxide for further cooking of ligno-cellulosic material.

2,320,295
TAKE-UP MECHANISM
Harry R. Patterson, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application August 5, 1941, Serial No. 405,524
13 Claims. (Cl. 308—59)

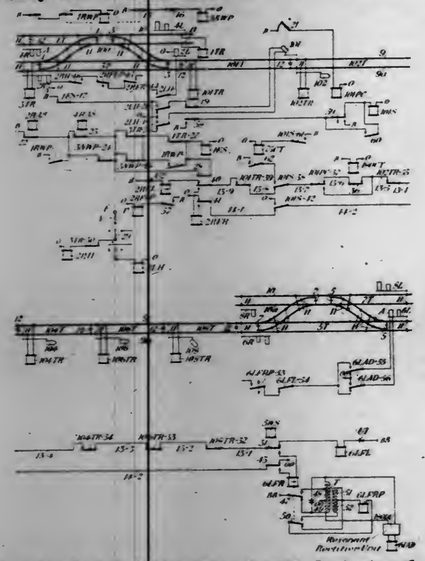


1. In take-up mechanism of the class described, the combination with a frame having spaced-apart parallel guideways and open at one end, of a journal bearing slidable along said guideways, a take-up screw pivoted to said journal bearing for limited angular movement relatively thereto, a retaining device connected to said frame and provided with an opening for receiving said take-up screw, a take-up nut journaled to said retaining device and threaded on said take-up screw to effect travel of the screw and the journal bearing upon rotation of the nut, and means for detachably connecting said retaining device to said frame, said retaining device when detached from said frame being movable bodily with said take-up screw on the latter's pivot to enable a lifting force applied to said screw to elevate the latter and said journal bearing without turning said nut.

2,320,296
RAILWAY TRAFFIC CONTROLLING APPARATUS
John M. Pelikan, Chicago, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 26, 1942, Serial No. 456,175
7 Claims. (Cl. 246—22)

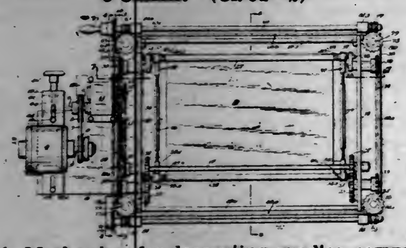
1. In a traffic controlling system for governing traffic movements in both directions over a given stretch of railway track between two interlockings one at each end of said stretch, including a control conductor and a return conductor extending between said interlockings with two sources of current one at each of said interlockings normally connected across said conductors in opposition to each other, including a signal adjacent a first one of said interlockings for governing traffic movements approaching said first interlocking from said stretch of track, including a second signal capable of displaying either a caution or a proceed indication as well as a stop indication in the second interlocking for governing traffic movements toward said first signal, and also including a third signal in said first interlocking for governing traffic movements to said stretch of track, the combination comprising a code following lockout relay connected in series with said control conductor at said first interlocking, a code following traffic relay normally disconnected from said conductors at said

second interlocking, manually controllable means for at times disconnecting the source of current at said second interlocking from said conductors and for connecting said code following traffic relay across said conductors preparatory to clearing said second signal, means for periodically interrupting at a given frequency the current supplied to said conductors at said first interlocking if said first signal is clear, means for periodically interrupting at a second given frequency the current supplied to said conductors



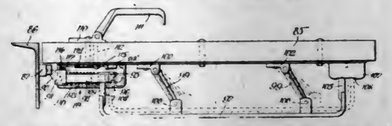
at said first interlocking if said first signal is put to stop by a train approaching said first interlocking from said stretch of track, means controlled by said code following traffic relay for operating said second signal to display the proceed or caution indication according as the current supplied to said conductors at said first interlocking is interrupted at said first or said second frequency, and means controlled by said lockout relay upon becoming energized for opening a control circuit for said third signal.

2,320,297
MACHINE FOR DECORATING COATED CANDIES
George S. Perkins, Kew Gardens, N. Y., assignor to National Equipment Co., New York, N. Y., a copartnership composed of Joseph Greenberg, Herman Greenberg, Samuel Greenberg, and Sidney Greenberg
Application November 6, 1941, Serial No. 418,089
6 Claims. (Cl. 91—2)



1. Mechanism for decorating candles, comprising a movable feed belt which has a planar feed run which is adapted to support said candles, said feed run being movable longitudinally in its own plane in a predetermined feeding direction, four equal crank-members located above said feed run, said crank-members being arranged in cooperating pairs, a support turnably connected to each said pair of crank-members, said supports being spaced longitudinally from each other and being transverse to said feeding direction and being parallel to each other, a flexible decorator whose respective ends are connected to said supports, said decorator depending freely from said supports, drive mechanism for turning said crank-members continuously in the same direction and for moving said feed run continuously in said feeding direction and in unison with the movement of said crank-members, so that said flexible decorator is moved up and down relative to said feed run and said flexible decorator is also moved longitudinally back-and-forth in a direction parallel to said feeding direction, said drive mechanism moving said decorator in said feeding direction and at substantially the same speed as said feed run, when said decorator is in substantially its lowest position.

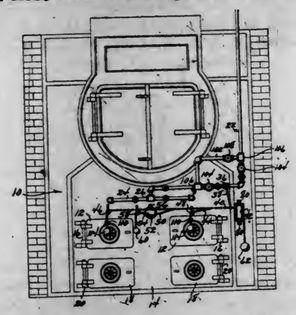
2,320,298
PANIC BOLT
Ellis J. G. Phillips, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a corporation of Illinois
Application August 2, 1940, Serial No. 349,777
19 Claims. (Cl. 292—92)



7. In apparatus of the class described for a door, the combination of a latch bolt on the door for retaining the door closed, said latch bolt being slidable laterally of the door to latched and unlatched positions, a roller arranged to actuate said latch bolt, a bar on the door pivotally mounted thereon on parallel levers for horizontal movement laterally of the door, said bar having an inturned arm engageable with said roller, whereby on movement of said bar laterally of the door said inturned arm actuates said roller to move said latch bolt to unlatched position.

2,320,299
SMOKE PREVENTER
George M. Phillips, Louisville, Ky., and William P. Rutherford, deceased, late of Louisville, Ky., by Susan B. Rutherford, administratrix, Louisville, Ky.
Application September 6, 1941, Serial No. 409,896
1 Claim. (Cl. 110—55)

In a furnace, steam jet means located in the combustion chamber of the furnace, a steam pipe for supplying steam to said jet means, a normally closed valve in said steam supply pipe for controlling the admission of steam to said jet means, a time control device, a flexible pull line operatively connected with said time control device and having a weight attached thereto beneath said time control device, a bracket fixed to each of the fire box doors of the furnace, said brackets having openings, one end of said pull line extending through the opening of one of said brackets and being provided with a weight located below the bracket, a branch pull line connected with said first pull line and extending through the opening of the other of said brackets and provided with a weight located below the bracket, said brackets establishing lost motion connections between said fire box doors and said first and branch pull lines, and an operating connection between said first pull line and said valve to open the valve when either or both of the fire box doors are open, said time control device retarding movement of said first pull line by said first weight after the closing of the fire box doors.



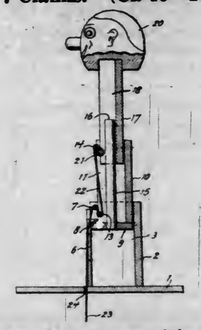
2,320,300
DOLL EYE
Lazurus W. Pollack, New York, N. Y.
Application January 8, 1940, Serial No. 312,827
14 Claims. (Cl. 46—169)

1. Doll eyes, comprising a pair of semi-spherical shells for engaging in the eye sockets of a doll's head, a rod extending transversely between said shells, a bar transversely slidably mounted on the rear of each of said shells, a strip pivotally mounted on each of said bars to pivot in a plane substantially parallel to the longitudinal length of the bar and swivelly and frictionally mounted on the ends of said rod to swivel about the rod under pressures, and means for resiliently supporting said rod.

2,320,301
PREPARATION OF A UREA-FORMALDEHYDE ADHESIVE
Paul O. Powers, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
No Drawing. Application June 8, 1939, Serial No. 278,130
3 Claims. (Cl. 260—69)

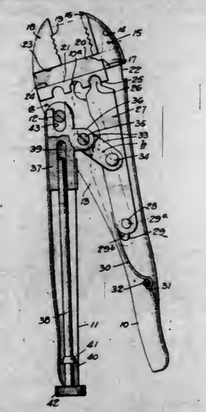
1. The process of making an adhesive, which comprises providing an aqueous solution having a molar ratio of formaldehyde to urea of about 2.2 :1, said formaldehyde being present in the form of an aqueous solution of formaldehyde in water, adjusting the solution to a pH of about 5.5 to 7.0 by the addition of a fixed alkali, heating the mixture to about 140 degrees to 180 degrees F. for about one to three hours while maintaining the pH at about 5.5 to 7.0, adjusting the pH of the reacted mixture to at least 9.0 by addition of a fixed alkali and boiling it without applying vacuum but while maintaining it at a pH of at least 9.0 until it contains about 20% water.

2,320,302
MECHANICAL DISPLAY DEVICE
Adolf Robins, New York, N. Y.
Application February 19, 1943, Serial No. 476,476
7 Claims. (Cl. 46—146)



1. A display device comprising a base, a hollow extension secured thereto and extending upwardly therefrom, a hollow slide in said extension, an inner slide within said first slide, a display member secured on said inner slide, and a cord having one end fixed to said inner slide, and threaded around said first slide and said extension, whereby a pull on the free end of said string will raise said slides.

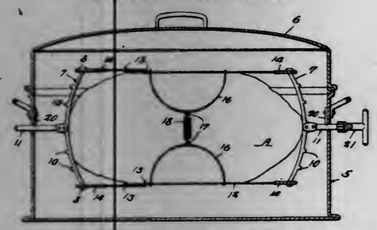
2,320,303
MECHANIC'S TOOL
Clifford O. Ross, Beverly Hills, Calif.
Application April 28, 1941, Serial No. 390,705
10 Claims. (Cl. 81—50)



1. A tool of the class described comprising: a pair of pivotally connected handles; a pair of jaws one of which is fixed to one of said handles; means movably mounting the other of said jaws on said one handle for opening and closing movements relative to the fixed jaw; a lever having a releasable operative connection to said other jaw; means mounting said lever on said one of the handles for pivotal movement to effect actuation of said other jaw, and for movement bodily to an inactive position wherein said operative connection to the other jaw will be disrupted so

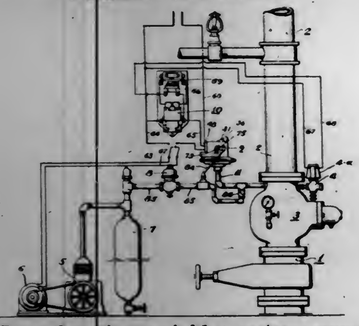
as to free the other jaw for adjustment independent of said lever; and means operatively connecting said lever to said other handle for actuating said lever to impart relative opening and closing movements to the jaws according as relative movement of the handles in one direction or the other is effected.

2,320,304
ROASTER
Louis J. Rosset, Burbank, Calif.
Application April 6, 1942, Serial No. 437,900
8 Claims. (Cl. 53—5)



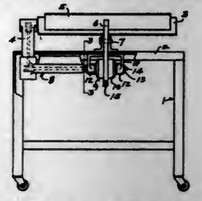
1. A roaster comprising a roasting pan, a rotary meat support mounted within the pan, said meat support embodying curved end members, spaced lugs formed on the outer surfaces of the end members, side members forming a part of the support, each of the side members including longitudinally adjustable sections adapted to cooperate with the end members in adjustably securing the side members and end members together, and yieldable members connecting the side members and adapted to draw the side members toward each other, gripping a roast positioned within the support.

2,320,305
DRY PIPE SPRINKLER SYSTEM
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 7, 1941, Serial No. 418,246
9 Claims. (Cl. 169—17)



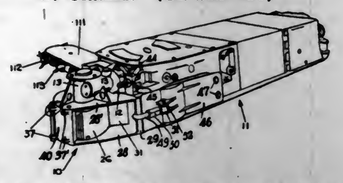
9. In a dry pipe sprinkler system comprising a dry pipe valve and an accelerator for said valve responsive to system pressure, mechanism for supplying air to said system, and control means for said mechanism and said accelerator, said control means comprising an element responsive to system pressure and electric switch actuators for said mechanism and accelerator each operatively connected to said pressure responsive element, one of said switch actuators being closed by an initial movement of said element due to reduction of pressure in the system, and the other of said switch actuators being closed by a greater movement of the element in the same direction.

2,320,306
IRONER
Hugh M. Rumbaugh, Pittsburgh, Pa.
Application March 28, 1940, Serial No. 326,424
1 Claim. (Cl. 38—61)



In an ironer of the character described, a table including a top having openings therein, a cylindrical ironing roll of comparatively small diameter, a first housing rising through one of said openings and supporting said roll above said table, a drive for the roll within the housing, the transverse area of said housing being less than the transverse area of said roll, a heating and ironing shoe, an operating lever rising through the other opening and supporting said shoe above said table, an operating mechanism for said drive and said lever, said mechanism provided with a second housing mounting said first housing and being disposed below the top of said table, said mechanism including an electric motor provided with a shaft actuating the roll drive and having a casing operatively joined with said lever, said casing being fixed to the stator of said motor, and means mounting said casing for reactive angular movement about the axis of said shaft to actuate the lever to move said shoe towards said roll when the motor is energized and when the rotation of said shaft is opposed.

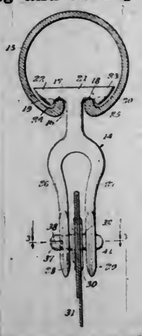
2,320,307
KERF CLEANER OR GUMMER
Arthur Y. Saville, Wakefield, England, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application October 2, 1939, Serial No. 297,541
In Great Britain October 24, 1938
17 Claims. (Cl. 262—30)



12. In a mining machine, the combination with a frame carrying a kerf cutter, of a positive action cuttings cleaner adjacent said kerf cutter for removing cuttings, said cleaner comprising a rotary flight, and means for varying the effective working area of said flight from a maximum to a minimum during each rotation thereof.

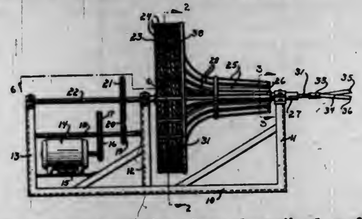
2,320,308
CURTAIN HOOK AND INSTALLATION
Jacob Z. Silverman, Brooklyn, N. Y.
Application August 23, 1941, Serial No. 408,103
14 Claims. (Cl. 16—87.2)

11. A curtain hook having a leg and means for supporting a curtain comprising a stud bar carried by the leg and having a resilient stud



adapted to pass through an aperture and separably engage the walls of an aperture in a curtain grommet or other article.

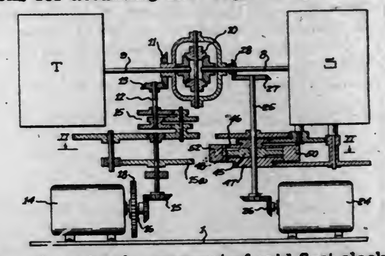
2,320,309
SEWER CLEANING MECHANISM
George A. Smith, Des Moines, Iowa
Application September 3, 1940, Serial No. 355,195
2 Claims. (Cl. 15—104.30)



1. In a device of the class described, a frame, a substantially cylindrical drum having its outer peripheral portion of open cage-like construction and rotatably mounted in said frame, supporting members extending from the periphery of said drum inwardly towards the axis of said drum thence substantially horizontally to form a sleeve-like frame, a tubular member mounted within a portion of the sleeve-like frame, guide bars extending from a point adjacent one end of the said tubular member to a point within the confines of said drum thence outwardly to the periphery of the drum and adjacent the inwardly extending portion of the supoprting members, a ring secured to that portion of the guide bars which is within the confines of the drum and a cable coiled in said drum and extending over the ring and guide bars and through the said tubular member.

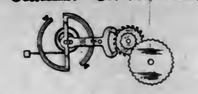
2,320,310
APPARATUS FOR INTEGRATING TIME AND TEMPERATURE
Elliott J. Stoddard, Highland Park, Mich., and Joseph W. Myers, Philadelphia, Pa.; said Stoddard assignor to said Myers
Application August 30, 1938, Serial No. 227,542
7 Claims. (Cl. 73—339)

5. In combination, a totalizing registering means, a first clockwork mechanism whose rate of movement varies in response to variations in temperature, a second clockwork whose rate of movement is substantially constant, said clockworks having the same rate of movement at a certain datum point of temperature, and means responsive to the conjoint operation of said clockworks for actuating said registering means only



when the rate of movement of said first clockwork differs from the rate of movement of said second clockwork.

2,320,311
CONDITION MEASURING APPARATUS
Joseph W. Myers, Philadelphia, Pa.
Application January 20, 1942, Serial No. 427,513
9 Claims. Cl. 73—339)

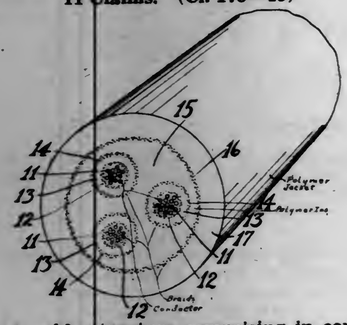


5. In combination, a first driving means having a constant rate of movement, a second driving means having the same rate of movement as said first driving means at a certain datum point but variable in response to a condition and in proportion thereto when the condition varies from such datum point, a driven means operable by said two driving means in proportion to the differential movement of said two driving means, a pair of indicator devices, means for connecting either of said indicator devices to said driven means, a series of coaxial discs having notches in their peripheries and rotatable by said first driving means at different rates so as to bring said notches into alinement periodically on opposite sides of the discs alternately, a pair of arms disposed respectively on opposite sides of said discs and yieldingly urged toward the discs, said arms having lugs adapted to enter said notches when the latter are alined, and means operable by said arms for actuating said connecting means, whereby said indicator devices are alternately connected to said driven means during successive time intervals of predetermined duration.

2,320,312
THICKENED OIL
Robert M. Thomas, Union, and William J. Sparks, Cranford, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application January 4, 1938, Serial No. 183,286
4 Claims. (Cl. 252—48)

1. A thickened mineral oil composition having high stability against breakdown, comprising a mineral oil base stock substantially thickened by the product obtained by the reaction of one part of an iso-olefin polymer of 1,000 to about 50,000 molecular weight with from about ½ to 2 parts by weight of sulfur chloride at a temperature in the range between 100° C. and about 200° C. until said polymer is converted into a product of considerably higher molecular weight containing less than about 1.3% of chemically combined sulfur and less than about 1.5% chemically combined chlorine.

2,320,313
CABLE STRUCTURE
Robert M. Thomas, Union, Irving E. Lightbown, Elizabeth, and William J. Sparks, Cranford, N. J., assignors to Jasco, Incorporated, a corporation of Louisiana
Application January 26, 1939, Serial No. 252,850
11 Claims. (Cl. 178—45)



11. A cable structure comprising in combination a conductor and an insulating material, comprising a high molecular weight interpolymer of isobutylene and butadiene produced at temperatures ranging between —10° C. and —125° C. by the application of aluminum chloride dissolved in an alkyl halide having less than three carbon atoms, the said insulating polymer being characterized by elasticity, high tensile strength, high elongation, high chemical inertness, reactivity with sulfur, a high electrical break-down resistance and a low di-electric constant, the said polymer being subdivided into a plurality of insulating layers and a layer of magnetic material cooperating with said conductor and said insulating material between said layers.

2,320,314
DIFFERENTIAL SPRING SUSPENSION FOR VEHICLES
Allen Trask, St. Paul, Minn.
Application November 29, 1940, Serial No. 367,752
8 Claims. (Cl. 267—8)



1. In a spring suspension, a first member and a second member arranged for relative movement, a first spring yieldably connecting said members, a shock absorbing device having a portion fixed to said first member and having a relatively movable portion adapted for connection with said second member, and a second spring interposed between said relatively movable shock absorber portion and said second member, said second spring having a natural frequency of between two to three times the frequency of said first spring under an equal weight.

2,320,315
SECTIONAL BOTTLE CARRIER
William E. Turner, Chattanooga, Tenn., assignor to O. B. Andrews Company, Chattanooga, Tenn., a corporation of Tennessee
Application July 1, 1940, Serial No. 343,394
2 Claims. (Cl. 229—52)

1. A bottle carrier of the character described comprising a blank folded to define a body including sides and ends, transverse slots formed in the intermediate portion of said ends, slits extending medially through the lower portion of said ends from the slots to the lower edges thereof, the said slits cooperating with said slots to form opposed tabs in the lower portion of each



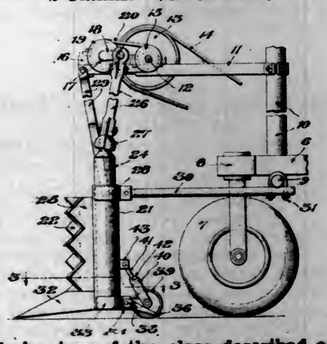
end wall, flaps joined to the lower edges of said sides and foldable inwardly to form a bottom, and an endless band passing under said flaps longitudinally thereof, and in overlapping relation to the joint between the flaps and over said tabs and up through said slots to a point above said body to provide a handle.

2,320,316
ROTARY LOOP-TAKER FOR SEWING MACHINES
James E. Wertz, Ware Shoals, S. C., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 7, 1941, Serial No. 413,915
16 Claims. (Cl. 112—228)



1. In a sewing machine loop-taker including a member having a cylindrical body, and a thread-carrier member having a bearing support in said cylindrical body, one of said members being rotatable relatively to the other member, the improvement which consists in the provision of a wiper-element carried by one of said members and disposed in wiping relation to the proximate face of the other of said members in an area axially displaced from said bearing support.

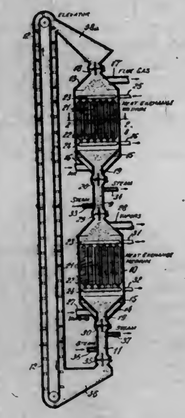
2,320,317
VINE CUTTING MECHANISM
Ross R. Wilson, Billings, Mont.
Application May 29, 1942, Serial No. 445,050
2 Claims. (Cl. 56—247)



1. Mechanism of the class described compris-

ing an upright outer hollow bar having a longitudinal slot, a cutter blade fixed on said bar adjacent to said slot and extending outwardly therefrom, an inner bar housed and reciprocable in said outer bar, a sickle blade fixed to said inner bar and extending outwardly through said slot adjacent to said cutter blade, a fixed support, members mounted to swing upwardly and downwardly on said support, a crank shaft journaled on said members, a pitman operatively connected with said crank shaft and said inner bar, struts connecting said members and said outer bar, and drive means for said crank shaft.

2,320,318
METHOD FOR CATALYTIC CONVERSION
Thomas P. Simpson, John W. Payne, and John A. Crowley, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application July 22, 1942, Serial No. 451,858
16 Claims. (Cl. 196—52)

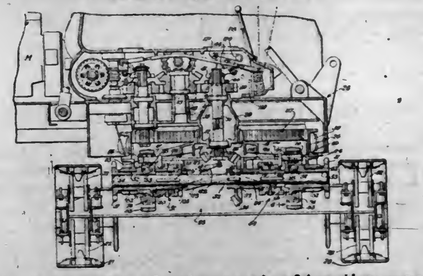


15. A continuous cyclic method for the catalytic conversion of hydrocarbons which comprises: moving active catalyst particles through a conversion zone while contacting same in said conversion zone with a moving stream of hydrocarbons under high temperature conversion conditions whereby the said conversion is effected and the catalyst particles become spent by deposition of carbonaceous material; passing the spent catalyst particles from said conversion zone into a high temperature regenerating zone; moving the spent catalyst particles through said regenerating zone while contacting same with gaseous regenerating agent under regenerating conditions, thereby burning deposited carbonaceous material and generating heat of combustion; controlling the temperature of the catalyst particles so as to maintain efficient regeneration without substantial heat damage by positively extracting part of said heat of combustion, with a heat transfer medium in indirect heat exchange relation with catalyst and at a lower temperature than the combustion temperature, at a rate such that the temperature of the catalyst particles is not permitted to rise to a point where the catalyst will be damaged and is not permitted to drop below an efficient regenerating or combustion temperature; and returning regenerated catalyst particles from said regenerating zone to said conversion zone.

2,320,319
OLEAGINOUS MATERIAL
Howard C. Black, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 20 1941, Serial No. 394,329
23 Claims. (Cl. 99—123)

6. A process for improving the resistance of glycerides to foaming when heated to a high temperature which comprises adding a small amount of a non-toxic, water insoluble, polyvalent metal salt of a higher fatty acid to the glycerides, said amount being not in excess of about 0.5 per cent and sufficient to substantially retard said foaming.

2,320,320
TRACTION BRAKE AND DRIVING MECHANISM
Harold E. Brey, Wauwatosa, and Hilbert E. Swanson, Milwaukee, Wis., assignors to Universal Unit Power Shovel Corporation, West Allis, Milwaukee, Wis., a corporation of Delaware
Original application May 29, 1941, Serial No. 395,704. Divided and this application March 13, 1942, Serial No. 434,546
2 Claims. (Cl. 180—9.2)



1. In a machine having a pair of traction members, driving mechanism for the traction members comprising a common drive shaft, a pair of rotatable elements to be driven from said shaft and each connected to one of the traction members, a brake mechanism for each of said elements normally applied to hold the same against rotation, a shiftable member for each element in all positions having a driving engagement with the element and operable when driven to release said brake mechanism, a clutch formed in part by each member for coupling the member to said drive shaft, a shifting yoke for each member, and manually operable control means for said last mentioned members comprising a rockable crank, a first link connected at one end to said crank and having a lost motion connection with one of said yokes, and a second link connected at one end to said crank and having a lost motion connection with the other of said yokes whereby the control means is operable simultaneously or independently to engage said clutches.

2,320,321
WELT TYPE SHOE
Mark L. Brown, Vanceburg, Ky., assignor to L. V. Marks & Sons Company, Cincinnati, Ohio, a corporation of Ohio
Application August 3, 1940, Serial No. 350,342
2 Claims. (Cl. 12—142)

2. A method of making shoes of the welt type and including the steps of: providing an insole having the forepart cut out to provide an opening

surrounded by a rand having a marginal lip, placing a cushioning pad of greater thickness than the insole in the opening in the insole with the pad extending above and below the upper and lower surfaces of the rand and with the pad's outer edge in contact with the margin of the opening, cementing covering sheets over the top and bottom respectively of the insole and pad, assembling an upper and the insole assembly on a last having a curved bottom, pulling the rand against the curved bottom of the last by attach-



ing the upper to the lip provided on the rand while bending the insole over the curved bottom of the last and at this time attaching a welt strip to the lip and the outer margin of the outer covering sheet to the lip by means of stitching, whereby the pad is compressed tightly within the opening and, thereafter laying, leveling, and attaching a curved outsole on the lasted shoe by securing the outsole to the welt strip with the outsole in engagement with the pad throughout the area of the pad and through the interposed outer covering sheet.

2,320,322
PROCESS OF SEPARATING 2,4 LUTIDINE AND 2,5 LUTIDINE
Francis E. Cislak, Indianapolis, and Orin D. Cunningham, Speedway City, Ind., assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application June 12, 1942, Serial No. 446,844
12 Claims. (Cl. 260—290)

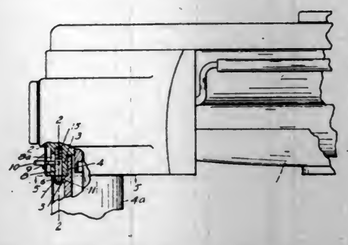
1. The process of separating a mixture containing the bases 2,4-luitdine and 2,5-lutidine, which consists in converting the bases in the mixture into their hydrohalides, and separating the hydrohalides by fractional distillation.

2,320,323
BOTTLE STOPPER WITH APPLICATOR EXTENSION
George Grunberg, New York, N. Y., assignor to The G. G. Patent Company, Cincinnati, Ohio, a corporation of Ohio
Application July 3, 1940, Serial No. 343,828
3 Claims. (Cl. 15—140.3)



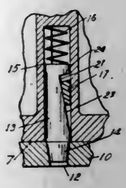
1. In an applicator formed from glass or the like and adapted to be inserted in a bottle of liquid, a solid portion at the upper extremity thereof and a hollow tubular portion depending therefrom, said hollow tubular portion terminating in an opening at the lower extremity thereof, and a plurality of glass bristles positioned in the opening and fused to one another and to the sides of the hollow tubular portion.

2,320,324
WRINGER INDEX ASSEMBLY
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa. a corporation of Pennsylvania
Application January 30 1941, Serial No. 376,641
4 Claims. (Cl. 68—274)



1. In a wringer index assembly having a wringer head member and a post member on which the head member is swiveled, the combination with said post and head of an index mechanism comprising openings in one member each having an undercut portion and a locking element mounted on the other member, and adapted to enter, and be retracted from, the openings, said element having a shoulder resisting, through engagement with the undercut portion of the opening, the release movement of the element from the opening.

2,320,325
INDEXING DEVICE FOR WRINGERS
Walter L. Kauffman II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa. a corporation of Pennsylvania
Application March 24, 1941, Serial No. 384,841
8 Claims. (Cl. 68—274)



1. In an indexing device for wringers having a wringer frame member and a supporting member on which the frame member is swingingly mounted, the combination with said members of an indexing mechanism for locking the members in adjusted position comprising a locking device on one of the members and stationary with relation thereto, and a movable locking device mounted on the other member and movable with relation thereto into and out of engagement with the stationary device, and an actuating element for actuating the movable device and having lost motion relatively to said movable device; and means actuated by the actuating element for fixing the movable device against play, the take-up of the lost-motion in one direction easing the fixed relation for permitting a release movement of the movable device, and the take-up of the lost motion in the opposite direction fixing the movable device against play with one of the members following the setting movement of the movable device.

2,320,326
MANUFACTURE OF HEAT SEALED BAGS
True M. Avery, Glens Falls, N. Y., assignor to Union Bag & Paper Corporation, Hudson Falls, N. Y., a corporation of New Jersey
Application April 29, 1940, Serial No. 332,388
18 Claims. (Cl. 93—18)



12. Apparatus for making heat sealed pleated bags, comprising means including a former for forming a heat sealable strip into a tube having a longitudinal seam and pleats in its edges, a heated seam sealing member operative on said longitudinal seam to heat seal it, laterally spaced heated pleat sealing members operative upon the pleated edges of the tube to heat seal the inner surfaces of the pleats to the inner surfaces of the respectively adjacent opposed walls of the tube on outwardly diverging lines, and a heated bottom sealing member operative on the tube across its width to heat seal the inner surfaces of the opposed walls of the tube to one another and to the opposing inner surfaces of the pleats.

2,320,327
APPLICATION OF SPRAY METAL TO METAL SURFACES
John Frank Meduna, Seattle, Wash., assignor to Metallizing Engineering Co., Inc., Long Island City, N. Y., a corporation of New Jersey
No Drawing. Application August 6, 1942, Serial No. 453,903
11 Claims. (Cl. 117—50)

1. In the method for applying spray metal to a metal surface with a high degree of bond, the improvement which comprises conditioning such metal surface for spray metal bonding by contacting multiple small individual areas of such metal surface with at least one metal electrode, including establishing contact between such metal surface and such metal electrode, electrically heating the contacting surfaces of said electrode and said metal surface by means of an electric current flowing, under conditions of resistance heating, through said contacting surfaces, to firmly bond fused electrode material to said metal surface, and causing small amounts of electrode material to be left deposited on said metal surface, to thereby obtain a surface characterized by an irregular roughness with a multitude of projections with overhanging edges and minute craters with overhanging edges, and thereafter spraying metal onto the metal surface thusly conditioned.

2,320,328
APPLICATION OF SPRAY METAL TO METAL SURFACED SUBSTANTIALLY CYLINDRICAL OBJECTS
John Frank Meduna, Seattle, Wash., assignor to Metallizing Engineering Co., Inc., Long Island City, N. Y., a corporation of New Jersey
No Drawing. Application August 6, 1942, Serial No. 453,904
9 Claims. (Cl. 117—94)

1. In the method for applying spray metal to a metal-surfaced substantially cylindrical object with a high degree of bond, the improvement which comprises conditioning the metal surface of such cylindrical object for spray metal bonding by rotating such object about its axis contacting multiple small areas of the metal surface of said object with a metal electrode while said object is rotating, including, establishing contact between the metal surface of said object and such metal electrode, electrically heating the contacting surfaces of said electrode and said metal surface by means of an electric current flowing, under conditions of resistance heating, through said contacting surfaces while said object is rotating, to firmly bond fused electrode material to said metal surface, and causing small amounts of electrode material to be left deposited on said metal surface along the path of travel of said electrode when in contact with said metal surface while said object is rotating to thereby obtain a surface characterized by an irregular roughness with a multitude of projections with overhanging edges and minute craters with overhanging edges, and thereafter spraying metal onto the metal surface of such cylindrical object thusly conditioned.

2,320,329
SPRAY METAL COATED, METAL SURFACED ARTICLES
John Frank Meduna, Seattle, Wash., assignor to Metallizing Engineering Co., Inc., Long Island City, N. Y., a corporation of New Jersey
No Drawing. Application August 6, 1942, Serial No. 453,905
8 Claims. (Cl. 117—71)

1. A spray metal coated, metal-surfaced article which comprises an article having a metal surface, a layer of spray metal, and, intermediate said metal surface and said layer of spray metal, fused metal deposited upon and integrally bonded to said surface by fusion to said surface and characterized by an irregular surface frozen from semi-liquid state with a multitude of projections with over-hanging edges and minute craters with over-hanging edges, at least the majority of said projections and craters being in interlock with spray metal particles of said layer of spray metal, and at least the majority of said projections being in size and spacing substantially of the same order of magnitude as the size of spray metal particles in the spray metal layer.

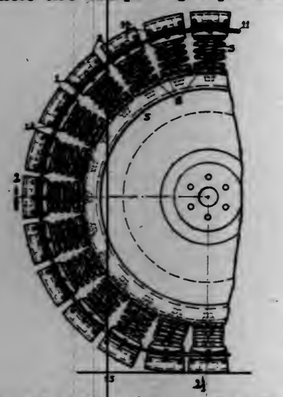
2,320,330
FLAME COLORING MATERIAL
Jonathan P. B. Fiske, Newton, Mass.
Application October 29, 1940, Serial No. 363,240
7 Claims. (Cl. 102—31)



1. A piece of flame coloring material comprised of a flame coloring chemical in combination with a carrier which is solid at room temperature and which liquefies when placed in an open fire, said piece having one side consisting of the carrying material only, and the opposite side consisting of a mixture of said carrier and said chemical.

2,320,331
RESILIENT TIRE
Agnes Jenewein and Herman Spath, New York, N. Y.
Application May 5, 1942, Serial No. 441,766
1 Claim. (Cl. 152—14)

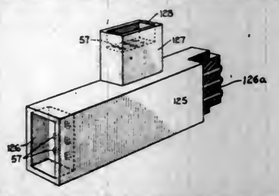
A vehicle tire comprising a plurality of light



weight tread blocks each of which has in each broad side a U-shaped recess, the lower flange side of said recess being convex so that the width of each recess is gradually increased from the center toward the edges of the block; a plurality of plates secured to the rim of the wheel at equal circumferential points, each of said plates carrying a spring to which one of said tread blocks is secured; two resilient rings extending through the recesses on the broad sides of said tread blocks and being adapted to connect said blocks to each other and to hold them in position; and clamps holding said resilient rings in said recesses.

2,320,332
ELECTRICITY CONDUCTOR UNIT
Louis G. Morten, Teaneck, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Original application December 27, 1933, Serial No. 704,189. Divided and this application November 24, 1939, Serial No. 305,767
1 Claim. (Cl. 174—74)

An electricity conductor unit adapted for male and female seriatim interconnection with other conductor units having substantially identical facial configuration and dimension and substantially identical end configurations, comprising a body of rigid insulation material having fixed therein a plurality of electricity conductors arranged in mutually spaced insulated relationship and terminating at the ends of said body in electricity conductor means adapted for electrical connection with electricity conductors of adjacent units, said body of rigid insulation material having at one end a deep polygonal socket formation disposed symmetrically with respect to the body of the unit and characterized by external walls which are co-planar continuations of the walls of the main body of the unit, and at another end with a polygonal extension portion symmetrical with the body of the unit and having an external configuration matching the configuration of the socket and a length of extension equal to the



depth of the socket, the lateral walls of said polygonal extension being inwardly offset with respect to the walls of the main body of the unit to an extent equal to the thickness of the walls of the socketed end, and each of said extension walls being in the plane of the corresponding wall of the socketed end whereby the surfaces of the polygonal extension of one unit will be in contact with the socket walls of an adjacent unit at all relative positions of insertion of the extension into said socket.

2,320,333
GUN BORING TOOL
Henry C. Pierle, Cincinnati, Ohio; The Central Trust Company, executor and trustee of said Henry C. Pierle, deceased, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application May 8, 1942, Serial No. 442,169
2 Claims. (Cl. 77—58)

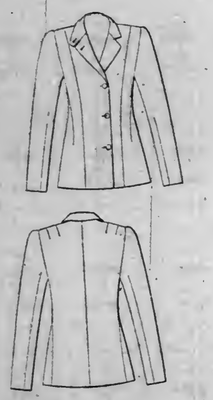


1. In a boring tool holder, a body, tool bits fixed on said body, bore engaging members movable on said body for engagement with the bore being machined in said work piece, coolant passageways in said body for distributing coolant fluid to said tool bits, means in said body movable to adjust said work engaging members relative to said bore, and means whereby the fluid pressure for effecting cooling of said tool bits simultaneously effects movement of said adjusting means for said bore engaging portions of said tool holder so as to maintain continued contact of said work engaging plungers with the bore of said work piece during the cutting operation.

DESIGNS

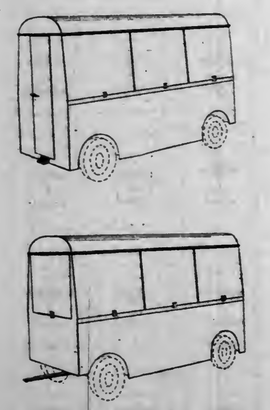
MAY 25, 1943

135,710
DESIGN FOR A JACKET
Helen C. Cookman, New York, N. Y.
Application March 9, 1943, Serial No. 109,703
Term of patent 7 years



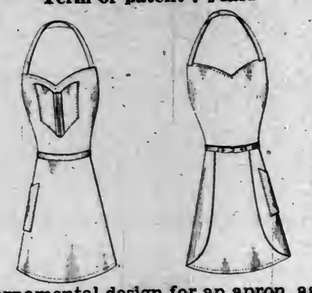
The ornamental design for a jacket, as shown.

135,711
DESIGN FOR A TRAILER
Richard J. Elkus, San Francisco, Calif.
Application December 14, 1942, Serial No. 109,036
Term of patent 7 years



The ornamental design for a trailer, as shown.

135,712
DESIGN FOR AN APRON
Muriel King, Pleasantville, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
Application March 30, 1943, Serial No. 109,868
Term of patent 7 years



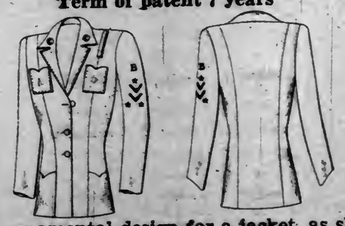
The ornamental design for an apron, as shown.

135,713
DESIGN FOR A DRESS
Muriel King, Pleasantville, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
Application March 30, 1943, Serial No. 109,869
Term of patent 7 years



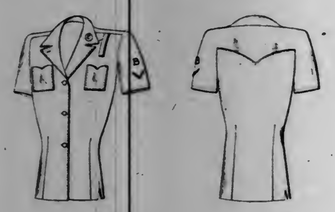
The ornamental design for a dress, as shown.

135,714
DESIGN FOR A JACKET
Muriel King, Pleasantville, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
Application March 30, 1943, Serial No. 109,870
Term of patent 7 years



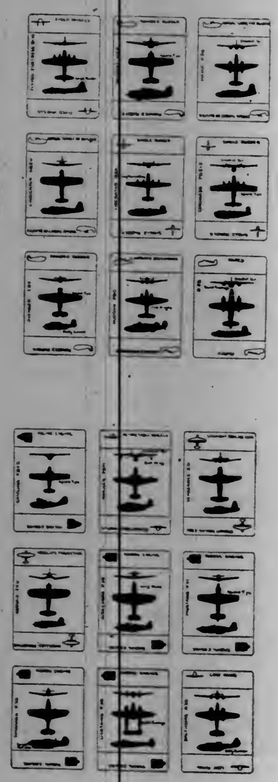
The ornamental design for a jacket, as shown.

135,715
DESIGN FOR A BLOUSE
Muriel King, Pleasantville, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
Application March 30, 1943, Serial No. 109,871
Term of patent 7 years

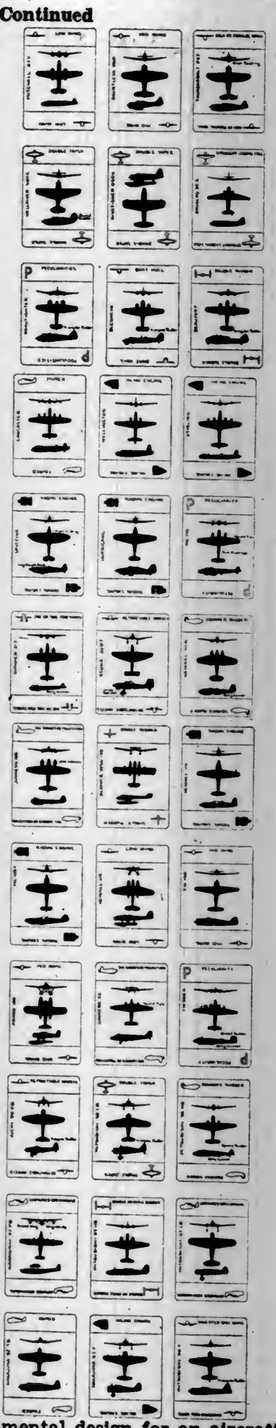


The ornamental design for a blouse, as shown.

135,716
DESIGN FOR AN AIRCRAFT RECOGNITION CARD DECK
Robert G. Willard, United States Navy, Washington, D. C.
Application December 28, 1942, Serial No. 109,147
Term of patent 3½ years

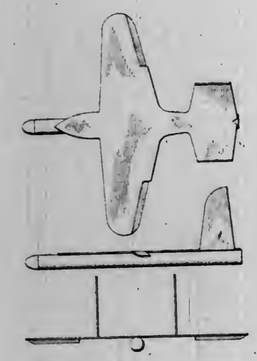


135,716—Continued



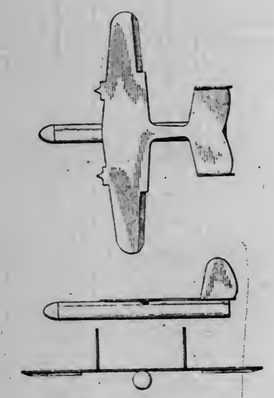
The ornamental design for an aircraft recognition card deck, as shown and described.

135,717
DESIGN FOR A TOY AIRPLANE
Sidney J. Peers, Skokie, Ill., assignor to Chicago Musical Instrument Co., Chicago, Ill., a corporation of Illinois
Application March 1, 1943, Serial No. 109,641
Term of patent 3½ years



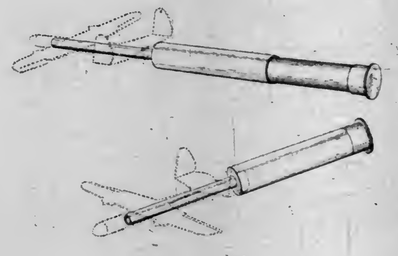
The ornamental design for a toy airplane, substantially as shown.

135,718
DESIGN FOR A TOY AIRPLANE
Sidney J. Peers, Skokie, Ill., assignor to Chicago Musical Instrument Co., Chicago, Ill., a corporation of Illinois
Application March 1, 1943, Serial No. 109,642
Term of patent 3½ years



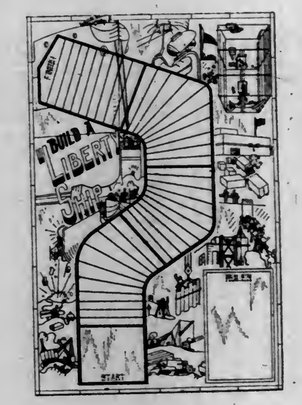
The ornamental design for a toy airplane, substantially as shown.

135,719
DESIGN FOR A COMBINED TOY AIRPLANE AND PROJECTOR THEREFOR
Sidney J. Peers, Skokie, Ill., assignor to Chicago Musical Instrument Co., Chicago, Ill., a corporation of Illinois
Application March 1, 1943, Serial No. 109,643
Term of patent 3½ years



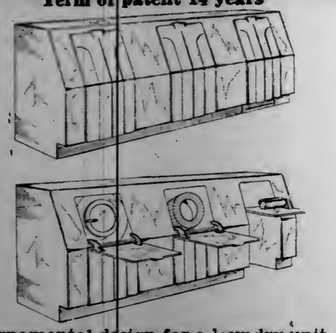
The ornamental design for a combined toy airplane and projector therefor, substantially as shown and described.

135,720
DESIGN FOR A GAME BOARD
Charles H. Reed, Cambridge, Mass.
Application November 6, 1942, Serial No. 108,711
Term of patent 3½ years



The ornamental design for a game board, substantially as shown and described.

135,721
DESIGN FOR A LAUNDRY UNIT
William J. Russell, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application October 29, 1942, Serial No. 108,632
Term of patent 14 years



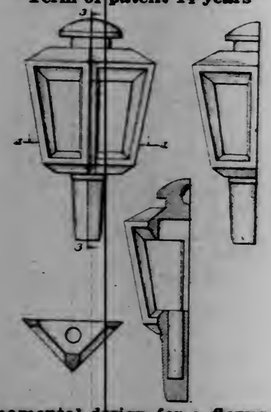
The ornamental design for a laundry unit, substantially as shown and described.

135,722
DESIGN FOR A FLIGHT PLOTTING INSTRUMENT
Ernest G. Vetter, Elmira, N. Y., assignor to Jardur Import Company, a copartnership consisting of Lillian R. Klepper and Beatrice K. Klepper, New York, N. Y.
Application February 22, 1943, Serial No. 109,609
Term of patent 7 years



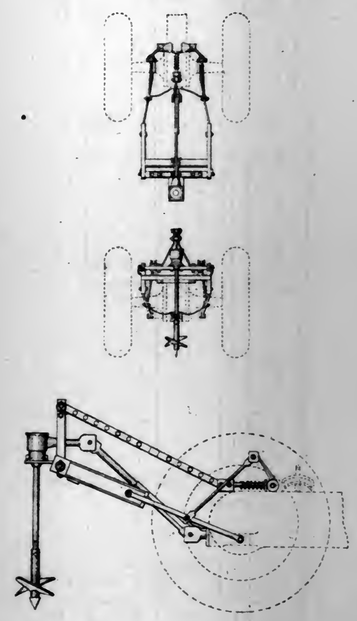
The ornamental design for a flight plotting instrument, substantially as shown.

135,723
DESIGN FOR A FLOWER HOLDER
Lewis P. Weil, Cynwyd, Pa.
Application March 12, 1943, Serial No. 109,742
Term of patent 14 years



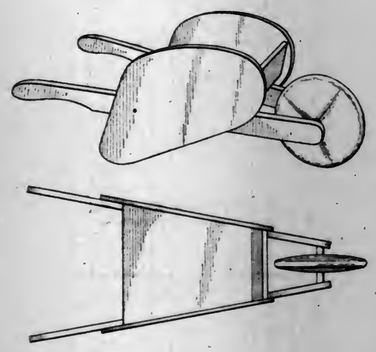
The ornamental design for a flower holder, as shown.

135,724
DESIGN FOR A POST HOLE DIGGING ATTACHMENT
Marshall S. Anderson, Denver, Colo., assignor to McCarty-Sherman Distributing Corporation, Denver, Colo., a corporation of Colorado
Application August 26, 1942, Serial No. 108,043
Term of patent 7 years



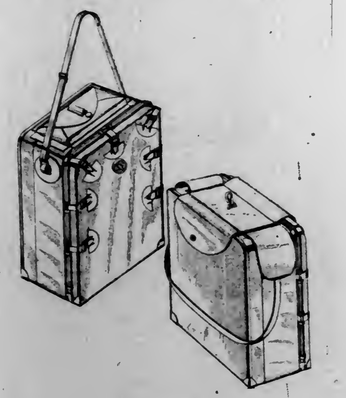
The ornamental design for a post hole digging attachment, as shown and described.

135,725
DESIGN FOR A TOY WHEELBARROW
Verle C. Kenney, Chagrin Falls, Ohio
Application July 13, 1942, Serial No. 107,521
Term of patent 7 years



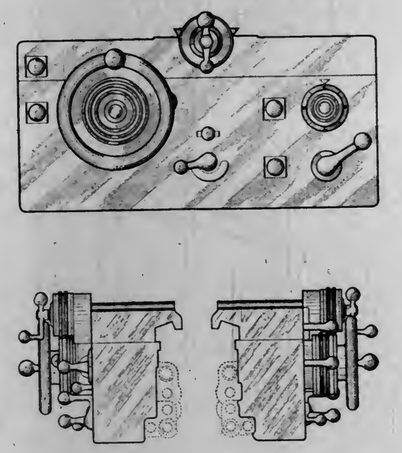
The ornamental design for a toy wheelbarrow, substantially as shown.

135,726
DESIGN FOR A WATERTIGHT BAG
Hans Georg Morner, New York, N. Y.
Application April 23, 1943, Serial No. 110,024
Term of patent 14 years



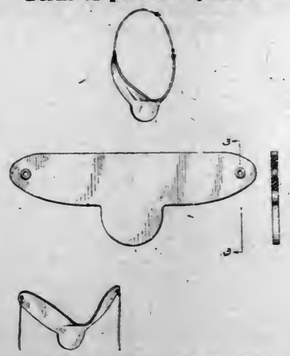
The ornamental design for a watertight bag, as shown.

135,727
DESIGN FOR A LATHE APRON
Jesse Srofe, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application April 21, 1942, Serial No. 106,651
Term of patent 14 years



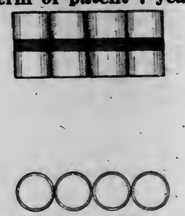
The ornamental design for a lathe apron, substantially as shown and described.

135,728
DESIGN FOR A CHIN STRAP
Dolletta M. Ackerman, Los Angeles, Calif., assignor to Pauline Davis, Los Angeles, Calif.
Application December 2, 1941, Serial No. 104,431
Term of patent 7 years



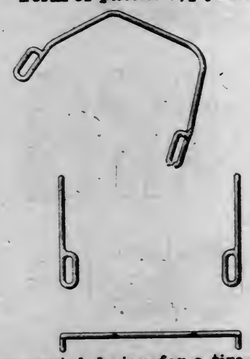
The ornamental design for a chin strap, as shown.

135,729
DESIGN FOR A PLASTIC UNIT FOR USE ON HANDBAGS OR THE LIKE
Ida Jolles, New York, N. Y.
Application March 17, 1943, Serial No. 109,771
Term of patent 7 years



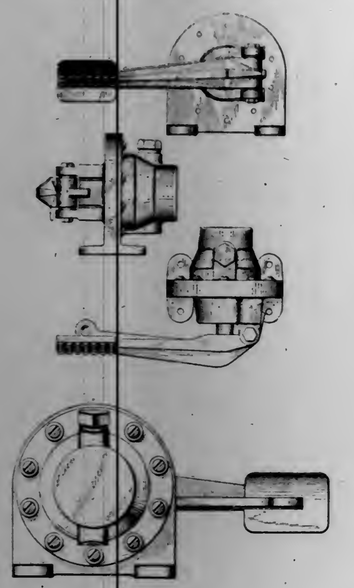
The ornamental design for a plastic unit for use on handbags or the like, substantially as shown.

135,730
DESIGN FOR A TIRE CHAIN APPLYING DEVICE OR SIMILAR ARTICLE
Walter H. Kaltreider, York, Pa.
Application December 8, 1941, Serial No. 104,540
Term of patent 3½ years



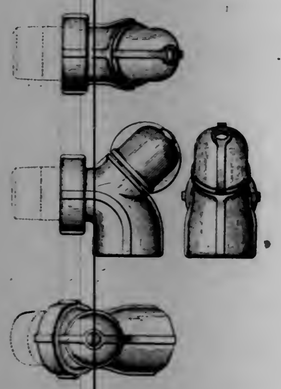
The ornamental design for a tire chain applying device or similar article, as shown.

135,731
DESIGN FOR A COMPRESSOR FOR A HYDRAULIC BRAKE UNIT OR THE LIKE
Howard A. Benzel, Marilla, N. Y., assignor to Scott Aviation Corporation, Lancaster, N. Y., a corporation of New York
Application December 21, 1942, Serial No. 109,081
Term of patent 7 years



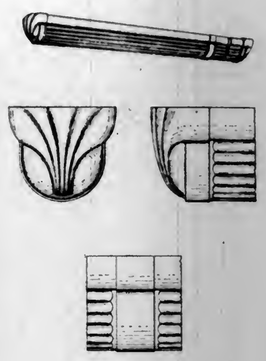
The ornamental design for a compressor for a hydraulic brake unit or the like, as shown.

135,732
DESIGN FOR A RADIATOR VALVE
Carl R. Stone, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 25, 1942, Serial No. 106,699
Term of patent 14 years



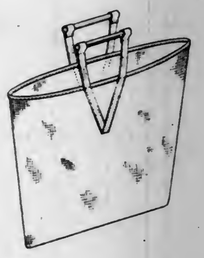
The ornamental design for a radiator valve, as shown and described.

135,733
DESIGN FOR A LUMINAIRE
Carl F. Haas and Elroy W. Yungman, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application May 13, 1942, Serial No. 106,884
Term of patent 14 years



The ornamental design for a luminaire, as shown and described.

135,734
DESIGN FOR A BAG
Alfred Merwin Hickman, Paterson, and Gladys Byrd Shield, Ridgewood, N. J.
Application February 12, 1942, Serial No. 105,780
Term of patent 3½ years



The ornamental design for a bag, substantially as shown and described.

135,735
DESIGN FOR A DRESS
Murry Grossman, New York, N. Y.
Application April 12, 1943, Serial No. 109,952
Term of patent 14 years



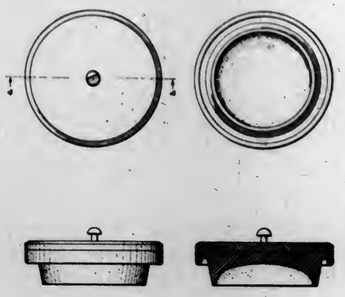
The ornamental design for a dress, substantially as shown.

135,736
DESIGN FOR A WOMAN'S CAP
Morris Paul, Worcester, Mass.
Application January 20, 1943, Serial No. 109,293
Term of patent 14 years



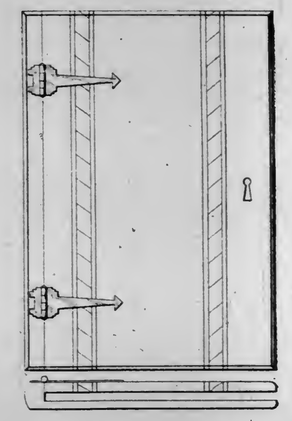
The ornamental design for a woman's cap, substantially as shown.

135,737
DESIGN FOR A RUPTURE PAD
Al H. Hoffman, Azusa, Calif.
Application March 13, 1943, Serial No. 109,749
Term of patent 14 years



The ornamental design for a rupture pad, as shown.

135,738
DESIGN FOR A BOOK COVER
George R. Penn, Danville, Va.
Application March 16, 1943, Serial No. 109,765
Term of patent 14 years



The ornamental design for a book cover, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Alert Products Co. (See Coan, N. C.)

Allen & Sandilands, Poterville, Calif. Fresh citrus fruits. Serial No. 459,250; May 25. Class 46.

American Art Alloys, Inc., Kokomo, Ind. Table hollow ware. Serial No. 458,136; May 25. Class 13.

American Molasses Company, New York, N. Y. Periodicals pertaining to food products. Serial No. 459,044; May 25. Class 38.

Animal Foods Company. (See Coan, N. C.)

Bamberger, L., & Co., Newark, N. J. Lunch kits, picnic baskets, mothproof bags, etc. Serial No. 459,145; May 25. Class 2.

Bardinet, Ltd., New York, N. Y. Alcoholic cordials. Serial No. 459,292; May 25. Class 49.

Bar-None Sales Co. (See Coan, N. C.)

Battery Life-O-Matic Products. (See Rowlett, V. H.)

Beasley, Virgil E., doing business as The V. E. Beasley Mfg. Co., San Antonio, Tex. Preparation for the treatment for loose dandruff. Serial No. 459,253; May 25. Class 6.

Beattie Products, Inc., New York, N. Y. Pyrophoric, catalytic, and pilot cigarette lighters. Serial No. 458,929; May 25. Class 34.

Borgfeldt, Geo., Corporation, New York, N. Y. Toy dishes. Serial No. 459,506; May 25. Class 22.

Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Acetophenetidin; acetylcholine bromide; acetylsalicylic acid; etc. Serial No. 456,303; May 25. Class 6.

Bryan Full Fashioned Mills, Inc., Chattanooga, Tenn. Hosiery. Serial No. 446,613; May 25. Class 39.

Celotex Corporation, The, Chicago, Ill. Building blocks. Serial No. 449,639; May 25. Class 12.

Charis Corporation, Allentown, Pa. Corsets and foundation garments. Serial No. 459,163; May 25. Class 39.

Chrysler Corporation, Highland Park, Mich., and Dayton, Ohio. Ventilating prefabricated duct sections, panels for forming ducts, duct connectors, etc. Serial No. 453,888; May 25. Class 34.

Coan, N. C., doing business as Animal Foods Company, Alert Products Co., Bar-None Sales Co., Delight Dog Food Co., and Hi-Test Products Co., San Jose, Calif., and Houston, Tex. Foods in concentrated and dehydrated, packaged form. Serial No. 454,776; May 25. Class 46.

Cohn-Hall-Marx Co., New York, N. Y. Cotton, rayon, and/or silk piece goods or combinations thereof. Serial No. 459,167; May 25. Class 42.

Colony Bags, Inc., New York, N. Y. Ladies' handbags. Serial No. 458,527; May 25. Class 3.

Colonial Mills, Inc., New York, N. Y. Rayon piece goods. Serial No. 459,329; May 25. Class 42.

Combustion Control Corporation, Cambridge, Mass. Electric apparatus. Serial No. 457,198; May 25. Class 21.

Conley & Stone, Atlanta, Ga. Paper weight souvenir. Serial No. 458,933; May 25. Class 50.

Cooper's, Incorporated, Kenosha, Wis. Sport shirts and sweaters for men and boys. Serial No. 458,111; May 25. Class 39.

Davidson Manufacturing Corporation, Chicago, Ill. Counter etch used in removing oxides and foreign matter from the grained surfaces of lithograph plates. Serial No. 459,730; May 25. Class 6.

Davidson Manufacturing Corporation, Chicago, Ill. Solution used for making a lithographic plate photosensitive. Serial No. 459,731; May 25. Class 6.

Davidson Manufacturing Corporation, Chicago, Ill. Solution used to clean blankets and rollers used in printing machines. Serial No. 459,732; May 25. Class 6.

Davidson Manufacturing Corporation, Chicago, Ill. Preparation used to preserve lithographic plates. Serial No. 459,733; May 25. Class 6.

Davidson Manufacturing Corporation, Chicago, Ill. Fountain etches employed in the lithographic process. Serial No. 459,734; May 25. Class 6.

Delight Dog Food Co. (See Coan, N. C.)

Detrick, M. H., Company, Chicago, Ill. Blocks or tile employed for the construction of walls and arches, etc. Serial No. 457,090; May 25. Class 12.

Di-Noc-Cramer Corporation, Cleveland, Ohio. Metallic sheets having a light sensitive coating thereon. Serial Nos. 458,752–4; May 25. Class 26.

Dunhill, Alfred, Limited, London, England. Tobacco pipes, cigar holders and cigarette holders. Serial No. 456,866; May 25. Class 8.

Dunhill, Alfred, Limited, London, England. Tobacco, cigars and cigarettes. Serial No. 456,867; May 25. Class 17.

Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Calipers, compasses, dividers, etc. Serial No. 459,262; May 25. Class 26.

Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Combination ventilators and deck plates, hood ventilators, porthole air scoops, etc. Serial No. 459,263; May 25. Class 34.

Durocher, Lee Andrew, doing business as Norco Refrigerator & Radio Sales, Norco, La. Electrically operated time controlled indicator. Serial No. 451,490; May 25. Class 26.

Edgewood Farms, Inc., Ridgefield, N. J. Grass seeds. Serial No. 459,217; May 25. Class 1.

Eskimo Pie Corporation, Bloomfield, N. J. Ice cream. Serial No. 451,105; May 25. Class 46.

Evans-Winter-Hebb, Inc., Detroit, Mich. Electrical equipment. Serial No. 455,204; May 25. Class 21.

Fastener Corporation, Chicago, Ill. Hand operated tools. Serial No. 451,230; May 25. Class 37.

Filmite Oil Corporation, Milwaukee, Wis. Cutting lubricants. Serial No. 459,464; May 25. Class 15.

Firestone Tire & Rubber Company, The, Akron, Ohio. Latex cups, picnic jugs, vacuum bottles, etc. Serial No. 458,068; May 25. Class 2.

Firth-Sterling Steel Company, McKeesport, Pa. Tool and die steels. Serial Nos. 459,219–20; May 25. Class 14.

Fisher Scientific Company, Pittsburgh, Pa. Transparent plastic boxes. Serial No. 459,284; May 25. Class 2.

Forstmann Woolen Co., The, Passaic, N. J. Woolen piece goods. Serial No. 459,285; May 25. Class 42.

Frankfort Distilleries, Incorporated, Louisville, Ky. Whiskey. Serial No. 458,757; May 25. Class 49.

Gem Products, Inc., Milwaukee, Wis. Shoe polishes and cleaners. Serial No. 458,534; May 25. Class 4.

General Tire & Rubber Company, The, Akron, Ohio. Retreads for pneumatic tires. Serial No. 458,838; May 25. Class 35.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Vulcanizing cement. Serial No. 458,983; May 25. Class 5.

Gottesman, S., New York, N. Y. Woolens, silks, cottons, etc., in the piece. Serial No. 456,670; May 25. Class 42.

Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. Serial No. 457,913; May 25. Class 6.

Harlequin Corporation, The, New York, N. Y. Ophthalmic mountings and lenses and parts thereof. Serial No. 458,878; May 25. Class 26.

Hart, Schaffner & Marx, Chicago, Ill. Men's and boys' suits, coats, overcoats, etc. Serial No. 459,415; May 25. Class 39.

Hi-Test Products Co. (See Coan, N. C.)

Household Products Co., Chicago, Ill. Coffee substitute. Serial No. 459,267; May 25. Class 46.

Hurff, Edgar F., Company, Swedesboro, N. J. Canned tomato juice. Serial No. 458,965; May 25. Class 46.

Inertol Company, Inc., Newark, N. J. Waterproofing and protective coating for concrete, steel, wood, etc. Serial No. 458,071; May 25. Class 16.

Irvington Varnish & Insulator Co., Irvington, N. J. Flexible extruded plastic tubing. Serial No. 459,370; May 25. Class 35.

Johnson, S. C., & Son, Inc., Racine, Wis. Aqueous and nonaqueous wax emulsions for waterproofing. Serial No. 458,811; May 25. Class 4.

Katz, Hyman, doing business as Katz Screen & Weatherstrip Co., Baltimore, Md. Storm window. Serial No. 459,048; May 25. Class 12.

Katz Screen & Weatherstrip Co. (See Katz, Hyman.)

Kayser, Julius, & Co., New York, N. Y. Hosiery, anklets, and protective socks. Serial No. 458,100; May 25. Class 39.

King Features Syndicate, Inc., New York, N. Y. Newspaper section or department. Serial No. 458,102; May 25. Class 38.

Koch, George, Sons, Inc., Evansville, Ind. Flower pots and flower baskets. Serial No. 457,439; May 25. Class 2.

Mandel, Max, New York, N. Y. Shirtings and fabrics. Serial No. 459,245; May 25. Class 42.

Marilyn Shoe Company, Milwaukee, Wis. Shoes. Serial No. 459,310; May 25. Class 39.

Markets, Inc., Oakland, Calif. Canned fruits. Serial No. 451,900; May 25. Class 46.

McKeon Canning Co., Inc., Burbank, Calif. Canned vegetables. Serial No. 459,524; May 25. Class 46.

Meik Bros. Proprietary Limited, Collingwood, near Melbourne, Australia. Razor strops and machines, and parts thereof. Serial No. 459,548; May 25. Class 23.

Mid-West Mushroom Company, Kansas City, Mo. Canned mushrooms. Serial No. 441,708; May 25. Class 46.

Mills, S. W., doing business as S. W. Mills Liniment Co., Omaha, Nebr. Liniment. Serial No. 458,989; May 25. Class 6.

Mothtone Company, The, Needham, Mass. Moth-proofing paints. Serial No. 459,227; May 25. Class 16.
Norco Refrigerator & Radio Sales. (See Durocher, Lee A.)
Pacific Mills, Boston, Mass. Rayon piece goods. Serial No. 458,866; May 25. Class 42.
Pacific Mills, Lawrence and Boston, Mass. Sheets and pillowcases. Serial No. 459,375; May 25. Class 42.
Park Knitwear Co. Inc., New York, N. Y. Women's sweaters, bathing suits, and jackets. Serial No. 458,847; May 25. Class 39.
Penn Yan Boats, Incorporated, Penn Yan, N. Y. Boats. Serial No. 458,465; May 25. Class 19.
Pfister Hybrid Corn Company, El Paso, Ill. Seed corn. Serial Nos. 447,146–8; May 25. Class 1.
Pfister Hybrid Corn Company, El Paso, Ill. Seed corn. Serial No. 447,152; May 25. Class 1.
Pfister, Lester, El Paso, Ill. Seed corn. Serial Nos. 447,154–6; May 25. Class 1.
Pfister, Lester, El Paso, Ill. Seed corn. Serial No. 447,159; May 25. Class 1.
Pfister, Lester, El Paso, Ill. Seed corn. Serial Nos. 447,161–2; May 25. Class 1.
Physicians Pharmacal Company, Oklahoma City, Okla. Medicinal and pharmaceutical preparations, in capsules. Serial No. 459,130; May 25. Class 6.
Physicians Pharmacal Company, Oklahoma City, Okla. Medicinal and pharmaceutical preparations, in compressed tablet form. Serial No. 459,131; May 25. Class 6.
Phillips Petroleum Company, Bartlesville, Okla. Gasoline. Serial No. 458,972; May 25. Class 15.
Ply-Mold Corporation, Glendale, Calif. Trailers and airplane wings and control surfaces. Serial No. 459,133; May 25. Class 19.
Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Men's outer shirts, hats, bath and lounging robes, etc. Serial No. 458,950; May 25. Class 39.
Reenforcing backs for brake shoes. American Brake Shoe and Foundry Company. Serial Nos. 457,964–5; May 25. Class 19.
Richardson Company, The, Lockland, Ohio. Articles and molded plastic parts. Serial No. 437,014; May 25. Class 21.
Rickerfor & Saladino, doing business as Rickey-Sal All-In-One, New Orleans, La. Nonalcoholic concentrated liquid product. Serial No. 458,952; May 25. Class 45.
Rickey-Sal All-In-One. (See Rickerfor & Saladino.)
Rogers Diesel and Aircraft Corporation, New York, N. Y. Electric generators and switchboards. Serial No. 458,120; May 25. Class 21.
Rowlett, Y. H., doing business as Battery Life-O-Matic Products, Kansas City, Mo. Composition of chemicals for treating batteries. Serial No. 457,864; May 25. Class 6.
Serv-Agen Corp., Philadelphia, Pa. Preparation of flour, salt, burnt sugar, etc., for the making of gravy. Serial No. 459,273; May 25. Class 46.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Package including V-mail stationery, writing fluid, etc. Serial No. 459,087; May 25. Class 37.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Piece goods. Serial No. 459,178; May 25. Class 42.
Sociedad Auxiliar Fabril, Agricola & Comercial S. A., Buenos Aires, Argentina. Yerba Mate. Serial No. 458,664; May 25. Class 46.
Sprague Specialties Company, North Adams, Mass. Electrical condensers. Serial No. 459,209; May 25. Class 21.
Squilller, Samuel, McKees Rocks, Pa. Electric motor driven air compressor pumps. Serial No. 458,049; May 25. Class 21.
Standard Chemical Products, Inc., Hoboken, N. J. Chemical preparation in paste and liquid form. Serial No. 455,485; May 25. Class 6.
Stetson China Company, Chicago, Ill. Dishes, cups, saucers, etc. Serial No. 457,258; May 25. Class 30.
Strauss, Ignaz, Co., Inc., New York, N. Y. Pottery candy boxes, pottery fern dishes, pottery flower bowls, etc. Serial No. 458,797; May 25. Class 30.
Ulrich Manufacturing Corporation, Shelbyville, Ill. Tools. Serial No. 444,812; May 25. Class 23.
Vega Aircraft Corporation, Burbank, Calif. Airplanes and structural parts. Serial Nos. 455,808–9; May 25. Class 19.
Wilt, Chas. T., Company, Chicago, Ill. Traveling bags. Serial No. 459,184; May 25. Class 3.
Wyner, I. A., & Co. Inc., New York, N. Y. Piece goods. Serial No. 458,606; May 25. Class 42.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott, Hall & Co., Boston, Mass. Canned fish. 173,753; renewed Oct. 2, 1943.
Allied Chemical & Dye Corporation. (See National Aniline & Chemical Dye Corporation.)
Alox Manufacturing Company, The. (See Frier, John.)
American Art Alloys, Inc., Kokomo, Ind. Knives, forks and other table flatware. 401,616; May 25; Serial No. 458,135; published Mar. 9, 1943. Class 23.
American Art Alloys, Inc., Kokomo, Ind. Knives, forks, and other tableware. 401,617–18; May 25; Serial Nos. 458,139–40; published Mar. 9, 1943. Class 23.
American Brake Shoe and Foundry Company, The. (See Ramapo Ajax Corporation, assignor.)
American Hard Rubber Company, Hempstead and New York, to American Hard Rubber Company, New York, N. Y. Combs. 172,348; renewed Aug. 28, 1943.
American Machine and Foundry Co., Brooklyn, to American Machine and Foundry Co., New York, N. Y. Cigar, cigarette, and hoisting machinery and parts thereof, sickle bars, etc. 168,740; renewed May 29, 1943.
American Machine and Metals, Inc. (See Troy Laundry Machinery Co. Ltd.)
American Manufacturing Company, Boston, Mass., and Brooklyn, to American Manufacturing Company, Brooklyn, N. Y. Rope, cord, and twine. 168,701; renewed May 29, 1943.
American Reader's Library, The. (See Bagg, John S.)
American Steam Gauge & Valve Manufacturing Company, Boston, Mass., assignor, by mesne assignments, to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Indicating gauges, recording gauges, indicating thermometers, etc. 173,417; renewed Sept. 25, 1943.
American Varnish Company, The, Chicago, Ill. Paint enamels. 173,708–9; renewed Oct. 2, 1943.
Apollo Shirt Company, New York, N. Y. Men's shirts, undershirts, and sweaters. 401,591; May 25; Serial No. 457,803; published Mar. 9, 1943. Class 39.
Ardrich Company, The, London, England. Wines. 401,525; May 25; Serial No. 454,048; published Mar. 9, 1943. Class 47.
Arizona Citrus Growers' Co., Phoenix, Ariz., by change of name, to Arizona Citrus Growers. Fresh citrous fruits. 170,516; renewed July 17, 1943.
Armstrong Cork Company, Pittsburgh, to Armstrong Cork Company, Lancaster, Pa. Gaskets, washers, packing, etc. 168,204; renewed May 15, 1943.
Armstrong Cork Company, Pittsburgh, to Armstrong Cork Company, Lancaster, Pa. Closure and seals for bottles, and cork or cork composition. 169,154; renewed June 12, 1943.
Art-Mor Togs Inc., New York, N. Y. Ladies' and misses' coveralls, slack suits, caps, etc. 401,549; May 25; Serial No. 456,763; published Feb. 16, 1943. Class 39.
Associated Research Incorporated, Chicago, Ill. Electrical measuring instruments, specifically apparatus for determining the voltage at which electrical insulation breaks down. 401,603; May 25; Serial No. 457,941; published Mar. 16, 1943. Class 26.
Associated Research Incorporated, Chicago, Ill. Electrical measuring instruments, specifically instruments for measuring the resistance of electrical grounding connection to the earth. 401,604; May 25; Serial No. 457,942; published Mar. 16, 1943. Class 26.
Associated Research Incorporated, Chicago, Ill. Electrical measuring instruments, specifically instruments for measuring the electrical resistance of electrical insulation. 401,605; May 25; Serial No. 457,943; published Mar. 16, 1943. Class 26.
Athletic Supply Company, The, Toledo, Ohio. Basketball goal nets. 401,614; May 25; Serial No. 458,110; published Mar. 16, 1943. Class 22.
Augusta Knitting Corporation, Utica, N. Y. Men's and women's sportswear. 401,502; May 25; Serial No. 447,502; published Dec. 16, 1941. Class 39.
Avon Products, Inc., New York, N. Y. Sets, comprising handkerchiefs and perfume. 401,651; May 25. Class 50.
Bab'nart. (See Heyman, Arthur.)
Bagg, John S., doing business as The American Reader's Library, Chicago, Ill. Books. 401,648; May 25. Class 38.
Ballinger, W. A., & Co., San Francisco, Calif. Mops and mop heads. 401,534–6; May 25; Serial Nos. 455,388–90; published Mar. 16, 1943. Class 29.
Barber, W. H., Company, Minneapolis, Minn. Corrosion and rust preventive for cooling systems of internal combustion engines. 401,588; May 25; Serial No. 457,696; published Mar. 16, 1943. Class 6.
Bastian-Morley Co., La Porte, Ind., by change of name to Bastian-Morley Co., Inc. Gas water heaters. 169,235; renewed June 12, 1943.
Bastian-Morley Co., La Porte, Ind., by change of name to Bastian-Morley Co., Inc. Gas water heaters. 171,605; renewed Aug. 7, 1943.
Bauer, Eddie, Seattle, Wash. Men's and women's spectator and active sportswear, and sleeping bags and robes. 401,626; May 25. Class 39.
Beach-Comber, Don E. R. G., Beverly Hills, Calif. Shrimp batter and shrimp sauce. 401,655; May 25. Class 46.

Bemis Bro. Bag Company, St. Louis, Mo. Cotton, burlap, and paper bags. 173,156; renewed Sept. 18, 1943.
Berlé, Joseph L., New York, N. Y. Brassière. 401,585; May 25; Serial No. 457,649; published Mar. 2, 1943. Class 39.
Bernard, James L., Jr., doing business as Communication Products Co., Jersey City, N. J. Electro-chemical apparatus for the dehydration of air and for supplying air under pressure. 401,581; May 25; Serial No. 457,536; published Mar. 16, 1943. Class 21.
Bertlyn Corporation, New York, N. Y. Hats for women and misses. 401,575; May 25; Serial No. 457,490; published Feb. 23, 1943. Class 39.
Blue Mountain Textile Corporation, New York, N. Y. Mufflers. 401,565; May 25; Serial No. 457,269; published Feb. 16, 1943. Class 39.
Blue Suds Company, Detroit, Mich. Washing compound. 401,662; May 25. Class 4.
Bonewitz, Paul W., doing business as P. W. Bonewitz Company, assignor to The Rex Company, Burlington, Iowa. Acid cleaner composition. 401,505–6; May 25; Serial Nos. 449,882–3; published Mar. 16, 1943. Class 4.
Borden Company, The, New York, N. Y. Fluid milk. 401,504; May 25; Serial No. 448,934; published Mar. 3, 1942. Class 46.
Boyden-Hansen, F. E., Co., Ltd., Alameda, Calif. Honey. 401,595; May 25; Serial No. 457,847; published Mar. 16, 1943. Class 46.
Bregstein, Bernard, Brooklyn, N. Y. Ladies' and misses' slips. 401,669; May 25. Class 39.
Bressler, Sara, New York, N. Y. Ladies' dresses. 401,639; May 25. Class 39.
Brouwer, Stephen J., Milwaukee, Wis. Shoes. 401,527; May 25; Serial No. 454,131; published Sept. 18, 1942. Class 39.
Brown, Max E., doing business as Budget Merchandise Brokers, New York, N. Y. Ladies' and misses' underwear, housecoats, sweaters, etc. 401,660; May 25. Class 39.
Budget Merchandise Brokers. (See Brown, Max E.)
Cady-Parker Medicine Co., Valdosta and Waycross, Ga. Preparation for the treatment of asthma, hayfever, coughs, etc. 401,537; May 25; Serial No. 455,413; published Mar. 16, 1943. Class 6.
Cannon Shoe Company, Baltimore, Md. Shoes. 401,516; May 25; Serial No. 451,546; published May 19, 1942. Class 39.
Carpenter Steel Company, The, Reading, Pa. Steel in bars, billets, and shapes. 401,649–50; May 25. Class 14.
Carson Pirie Scott & Company, Chicago, Ill. Men's sweaters. 401,518; May 25; Serial No. 451,926; published May 19, 1942. Class 39.
Cashmere Corporation of America, The, Cleveland, Ohio. Knitted woolen sweaters, cardigans, and pull-overs. 401,642; May 25. Class 39.
Chance, A. B., Company, Centralia, Mo. Grounding clamps, grounding rods, grounding cluster supports, etc. 401,576; May 25; Serial No. 457,493; published Mar. 16, 1943. Class 13.
Chase Bag Company, The. (See Milwaukee Bag Co.)
Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Ontario, Canada. Exothermic metallurgical copper alloying materials. 401,540; May 25; Serial No. 455,787; published Mar. 16, 1943. Class 1.
Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Ontario, Canada. Exothermic metallurgical iron alloying materials. 401,541; May 25; Serial No. 455,788; published Mar. 16, 1943. Class 1.
Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Ontario, Canada. Exothermic metallurgical nickel alloying materials. 401,542; May 25; Serial No. 455,789; published Mar. 16, 1943. Class 1.
Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Ontario, Canada. Exothermic metallurgical silicon alloying materials. 401,543; May 25; Serial No. 455,790; published Mar. 16, 1943. Class 1.
Church Bulletin, Inc., The, New York, N. Y. Church bulletin. 173,611; renewed Oct. 2, 1943.
Cole Laboratories, Inc., Long Island City, N. Y. Chemical product in liquid form used as a cleanser. 401,579; May 25; Serial No. 457,521; published Mar. 16, 1943. Class 4.
Columbia Recording Corporation, New York, N. Y. Phonograph records and record blanks. 401,627; May 25. Class 36.
Communication Products Co. (See Bernard, James L., Jr.)
Conrad, Incorporated, St. Louis, Mo. Liqueurs. 401,563; May 25; Serial No. 457,184; published Mar. 2, 1943. Class 49.
Cook Electric Company, Chicago, Ill. Apparatus in telephone systems. 401,532; May 25; Serial No. 455,016; published Mar. 16, 1943. Class 21.
Cook, Ralph, Cedar Lake, Ind. Column, scripts for monologues, dialogues, dramatic sketches, etc. 401,556; May 25; Serial No. 457,029; published Mar. 2, 1943. Class 38.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 401,611–13; May 25; Serial Nos. 458,092–4; published Mar. 16, 1943. Class 6.
Currick & Leiken Co. Inc., New York, N. Y. Vests and jackets for men, women, and children. 401,519; May 25; Serial No. 452,240; published Mar. 16, 1943. Class 39.
Curtis 1000 Incorporated, St. Paul, Minn. Correspondence and mailing envelopes. 401,530; May 25; Serial No. 454,247; published Mar. 16, 1943. Class 37.
Davis, E. E., doing business as E. E. Davis Packing Co., Phoenix, Ariz. Fresh vegetables. 401,607; May 25; Serial No. 457,970; published Mar. 16, 1943. Class 46.
Davison-Paxon Company, Atlanta, Ga. Shoes. 401,621; May 25. Class 39.
Decorata Mfg. Co. (See O'Neill, Peter L.)
Dennison Klothes Incorporated, New York, N. Y. Women's suits, coats, skirts, etc. 401,632; May 25. Class 39.
Dexter Company, The, Fairfield, Iowa. Laundry washing machines. 401,647. May 25. Class 24.
De Zon, Florie E., Detroit, Mich. Preparation for the treatment of hair and scalp. 172,363; renewed Aug. 28, 1943.
Dickinson, John & Co., Limited, London, to John Dickinson & Co., Limited, Hemel Hempstead, England. Paper. 23,516, re-renewed Aug. 22, 1943.
Di Santo, Joseph, doing business as Di Santo & Company, Duluth, Minn. Butter. 401,679. May 25. Class 46.
Dodd & Struthers, Des Moines, Iowa, assignors to West Dodd Lightning Conductor Corporation, Goshen, Ind. Lightning rods. 164,634; renewed Feb. 27, 1943.
Dodd, West, Lightning Conductor Corporation. (See Dodd & Struthers, assignors.)
Doniger, David D., & Co., New York, N. Y. Men's and boys' sports coats. 401,653; May 25. Class 39.
Downy Products Company, Orange, N. J. Abrasive pads. 401,566; May 25; Serial No. 457,274; published Mar. 16, 1943. Class 4.
Dyersburg Cotton Products, Inc., Dyersburg, Tenn. Outer garments for infants and children. 401,654; May 25. Class 39.
Eagle Chemical Co. (See Schlesinger, Joseph H., D. D. S.)
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. 401,500–1; May 25; Serial Nos. 445,387–8; published Mar. 16, 1943. Class 6.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic color enlargements. 401,520; May 25; Serial No. 452,718; published Dec. 8, 1942. Class 38.
Economics Laboratory, Incorporated, St. Paul, Minn. Cleansing compound. 401,571; May 25; Serial No. 457,388; published Mar. 16, 1943. Class 4.
Elrex Watch Company, Inc., New York, N. Y. Watches. 401,551; May 25; Serial No. 456,868; published Mar. 16, 1943. Class 27.
Ely & Walker Dry Goods Company, St. Louis, Mo. Men's wearing apparel. 401,544; May 25; Serial No. 455,819; published Feb. 23, 1943. Class 39.
Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Lead pencil. 173,745; renewed Oct. 2, 1943.
Famous Blouses, Inc., New York, N. Y. Ladies' and misses' suits, blouses and dresses. 401,507; May 25; Serial No. 449,977; published Mar. 10, 1942. Class 39.
Faurot Protective Identification System, Inc., New York, N. Y. Solid and fluid finger printing inks, ink-pads, and printing materials. 401,652; May 25. Class 11.
Fawcett Publications, Inc., Greenwich, Conn. Publication. 401,631; May 25. Class 38.
Field Publications, Brooklyn, N. Y. Series of cartoons. 401,569; May 25; Serial No. 457,333; published Mar. 9, 1943. Class 38.
Film-O-Seal Company, Kansas City, Mo. A compound for forming an air-sealing coating over the inside of pneumatic tires and tubes. 401,657; May 25. Class 5.
First Texas Chemical Manufacturing Company, Dallas, Tex. Medicinal preparation. 174,045; renewed Oct. 2, 1943.
Fisba Fabrics, Inc., New York, N. Y. Cotton piece goods. 401,531; May 25; Serial No. 454,632; published Mar. 16, 1943. Class 42.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 401,553; May 25; Serial No. 456,940; published Mar. 16, 1943. Class 42.
Fredericksen Company, Saginaw, Mich., by change of name to Saginaw Bearing Company. Bearing metal, packing metal, brass castings, etc. 171,832; renewed August 14, 1943.
Frier, John, doing business as The Alox Manufacturing Company, St. Louis, Mo. Shoe laces. 401,546; May 25; Serial No. 456,385; published Mar. 16, 1943. Class 40.
Geigy Company, Inc., New York, N. Y. Dyes for textile purposes. 401,597; May 25; Serial No. 457,875; published Mar. 16, 1943. Class 6.
Geisha Robe Co., New York, N. Y. Misses' and junior misses' bath and lounging robes. 401,674; May 25. Class 39.
General Mills, Inc. (See Red Star Milling Company, The, assignor.)
General Mills, Inc. (See Sperry Flour Co., assignor.)
Germanow-Simon Machine Co., Rochester, N. Y. Machines for applying watch crystals. 168,176; renewed May 15, 1943.

Gilbert Shoe Co., Thienville, Wis. Children's shoes. 401,602; May 25; Serial No. 457,933; published Mar. 16, 1943. Class 39.

Given Bros. Shoe Co., El Paso, Tex. Men's shoes. 401,568; May 25; Serial No. 457,313; published Feb. 16, 1943. Class 39.

Globe Grain & Milling Co., Los Angeles, Calif., assignor to Pillsbury Mills Company, Minneapolis, Minn. Wheat flour. 167,124–5; renewed Apr. 24, 1943.

Graham, Robt. J., Cashmere, assignor to A. Z. Wells, Wenatchie, Wash. Fresh boxed apples. 173,963; renewed Oct. 2, 1943.

Gutmann, Carl, & Co., New York, N. Y. Women's and misses' panties, chemises, step-ins., etc. 401,665; May 25. Class 39.

Hall-Neal Furnace Co., Indianapolis, Ind. Motor driven oil burners. 401,508; May 25; Serial No. 450,161; published Mar. 16, 1943. Class 34.

Hamilton Manufacturing Company, Two Rivers, Wis., and Rahway, N. J. Cabinet mechanical clothes dryers. 401,589; May 25; Serial No. 457,704; published Mar. 16, 1943. Class 24.

Harrison, Robert, New York, N. Y. Pictorial magazine. 401,592; May 25; Serial No. 457,810; published Mar. 9, 1943. Class 38.

Heller, B., & Company, Chicago, Ill. Chemical preparation for facilitating the scalding of hogs. 172,556; renewed Sept. 11, 1943.

Heller, B., & Company, Chicago, Ill. Coloring for food and confectionery. 172,574; renewed Sept. 11, 1943.

Heller, B., & Company, Chicago, Ill. Chemical preparation. 172,579; renewed Sept. 11, 1943.

Heyman, Arthur, doing business as Bab'nart, Oakland, assignor to Joe Koret, San Francisco, Calif. Women's skirts. 401,629; May 25. Class 39.

Horvath, John, Passaic, N. J. Palliative for the treatment of asthma, catarrh of the liver and lungs, and hemorrhoids. 401,609; May 25; Serial No. 458,038; published Mar. 16, 1943. Class 6.

Hove, Leland H., doing business as Hove Engineering Co., Minneapolis, Minn. Spring steel bearing races for internal combustion engine distributors. 401,573; May 25; Serial No. 457,472; published Mar. 16, 1943. Class 21.

Howards Fifth Ave., Inc., New York, N. Y. Women's collars, vestees, dickeys, and scarves. 401,671; May 25. Class 39.

Hyman, L., & Sons, New York, N. Y. Paper products. 401,561; May 25; Serial No. 457,153; published Mar. 16, 1943. Class 37.

Industrial Tape Corporation, New Brunswick, N. J. Pressure sensitive adhesive tapes. 401,116; May 25; Serial No. 458,116; published Mar. 16, 1943. Class 5.

Industrial Tape Corporation, New Brunswick, N. J. Pressure sensitive adhesive tapes. 401,619; May 25; Serial No. 458,154; published Mar. 16, 1943. Class 5.

International Corset Company, Aurora, Ill. Corsets, brassières, and combination corsets and brassières. 173,834; renewed Oct. 2, 1943.

International Shoe Co., St. Louis, Mo. Boots and shoes of leather, fabric and/or combinations thereof. 401,600; May 25; Serial No. 457,915; published Mar. 16, 1943. Class 39.

Jackson, Ida., doing business as Jackson of London Products, New York, N. Y. Preparation for removing spots and liquid, heat, water and paint marks, and for cleaning finished surfaces. 401,517; May 25; Serial No. 451,717; published Mar. 16, 1943. Class 4.

Jantzen Knitting Mills, Portland, Oreg. Foundation garments. 401,644; May 25. Class 39.

Jennings, Leroy G., New York, N. Y. Medicinal salves for the relief of nasal, throat, and chest irritations. 401,574; May 25; Serial No. 457,473; published Mar. 16, 1943. Class 6.

Kansas City Star Company. (See Nelson-Kirkwood, Laura, assignor.)

Kay, Murray, New York, N. Y. Men's, women's and children's coveralls, overalls, and play suits. 401,641; May 25. Class 39.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 173,719; renewed Oct. 2, 1943.

Kleinert, I. B., Rubber Company, New York, N. Y. Slippers. 401,509; May 25; Serial No. 450,231; published Mar. 2, 1943. Class 39.

Klipstein, Tobias, Inc., New York, N. Y. Ladies' and misses' coats and suits. 401,512; May 25; Serial No. 450,542; published Mar. 31, 1942. Class 39.

Koret, Joe. (See Heyman, Arthur, assignor.)

Lazier, J. F., Manufacturing Company, Incorporated, St. Louis, Mo. Soft drink. 173,989; renewed Oct. 2, 1943.

Lesch, Rudolph, Fine Arts, Incorporated, New York, N. Y. Prints, etchings, wood blocks, etc. 401,643; May 25. Class 38.

Liggett & Myers Tobacco Company, New York, N. Y. Smoking tobacco. 401,584; May 25; Serial No. 455,597; published Mar. 16, 1943. Class 17.

Lindsay Co-operative Citrus Association, Lindsay, Calif. Fresh citrous fruits. 173,496; renewed Sept. 25, 1943.

Lindsay Co-operative Citrus Association, Lindsay, Calif. Fresh citrous fruits. 173,826; renewed Oct. 2, 1943.

Little, Edward W., Indianapolis, Ind. Animal beds. 401,675; May 25. Class 3.

Logan, Hugh H., doing business as Logan Manufacturing Company, Glendale, Calif. Shower bath equipment. 401,545; May 25; Serial No. 456,191; published Mar. 16, 1943. Class 13.

Lynchburg Hosiery Mills. (See May Hosiery Mills, Incorporated.)

M. & M. Limited, Newark, N. J. Candy. 401,503; May 25; Serial No. 447,846; published Mar. 16, 1943. Class 46.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Electric contacts. 401,580; May 25; Serial No. 457,525; published Mar. 16, 1943. Class 21.

Mandel, Manne H., doing business as Mandel Mfg. Co., St. Louis, Mo. Juniors' and misses' dresses, blouses, slacks, etc. 401,645; May 25. Class 39.

Manhattan Shirt Company, The, New York, N. Y. Neckties. 401,557; May 25; Serial No. 457,065; published Mar. 2, 1943. Class 39.

Manning, Maxwell & Moore, Incorporated. (See American Steam Gauge & Valve Manufacturing Company, assignor.)

Marks and Spencer Sales Corporation, New York, N. Y. Men's outer shirts; women's dresses; men's half hose, etc. 401,533; May 25; Serial No. 455,376; published Feb. 23, 1943. Class 39.

May Hosiery Mills, Incorporated, Burlington, N. C., to Lynchburg Hosiery Mills, Lynchburg, Va., successor. Hosiery, underwear, and outer garments. 173,346; renewed Sept. 25, 1943.

Mayflower Dress Co., Inc., New York, N. Y. Ladies', misses', girls', and juniors' dresses. 401,676; May 25. Class 39.

McCall & Company, Limited, Gerrards Cross, England. Ox tongues preserved in tins. 401,528; May 25; Serial No. 454,145; published Mar. 16, 1943. Class 46.

McCormick & Co., Incorporated, Baltimore, Md. Imitation food flavoring extracts. 401,606; May 25; Serial No. 457,960; published Mar. 16, 1943. Class 46.

McDonnell, Everett N., doing business as McDonnell & Miller, Chicago, Ill. Electric switches, electric flow switches, liquid level responsive pump control electric switches, and electrical parts thereof. 401,570; May 25; Serial No. 457,340; published Mar. 16, 1943. Class 21.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Dentifrices, and mouth wash and gargle. 401,634; May 25. Class 6.

Meyer, Joseph, H. Bros., Brooklyn, N. Y. Reproductions of precious and semi-precious gems and stones. 171,300; renewed Aug. 7, 1943.

Miller Cereal Mills, Incorporated, Omaha, Nebr. Dog food. 401,590; May 25; Serial No. 457,766; published Mar. 16, 1943. Class 46.

Miller & Paine, Inc., Lincoln, Nebr. Candies and candied fruit. 173,890; renewed Oct. 2, 1943.

Millstein, Dan, Inc., New York, N. Y. Ladies' and misses' coats and suits. 401,559; May 25; Serial No. 457,138; published Mar. 16, 1943. Class 39.

Milton Manufacturing Company, The, Milton, Pa. Bolts, rivets and spikes. 173,705; renewed Oct. 2, 1943.

Milwaukee Bag Co., Milwaukee, Wis., to The Chase Bag Company, New York, N. Y., successor. Cloth mailing bags. 170,300; renewed July 10, 1943.

Mineral Mining Corporation, Lancaster, S. C. Mold and core washes and foundry facings. 401,640; May 25. Class 1.

Moseley, Benjamin, Company, Incorporated, Needham, Mass. Sweaters. 166,618; renewed Apr. 10, 1943.

National Aniline & Chemical Company, Incorporated, by merger to Allied Chemical & Dye Corporation, New York, N. Y. Chemical preparations. 173,271; renewed Sept. 18, 1943.

National Audubon Society, New York, N. Y. Magazine and a supplement. 401,623; May 25. Class 38.

National Machine Products Company, Detroit, Mich. Lock-nuts. 401,511; May 25; Serial No. 450,338; published Mar. 16, 1943. Class 13.

National Telephone Supply Company, The, Cleveland, Ohio. Connecting devices or sleeves for electric wires and cables. 401,593; May 25; Serial No. 457,813; published Mar. 16, 1943. Class 21.

National Telephone Supply Company, The, Cleveland, Ohio. Metal cable hangers. 401,637; May 25. Class 21.

Naumkeag Steam Cotton Company, Salem, Mass. Cotton piece goods. 173,391; renewed Sept. 25, 1943.

Nelson, William R. (See Nelson-Kirkwood, Laura, trustee.)

Nelson-Kirkwood, Laura, trustee of the estate of William R. Nelson, deceased, assignor to Kansas City Star Company, The, Kansas City, Mo. Newspapers. 173,601; renewed Oct. 2, 1943.

Nolan Co., The, Greenville, Pa. Preparation for eczema, salt rheum, impetigo, etc. 168,445; renewed May 22, 1943.

Ogus, Rabinovich & Ogus, Inc., New York, N. Y. Ladies' hats. 401,633; May 25. Class 39.

Oil Specialties & Refining Co., Inc., Brooklyn, N. Y. Metal polish. 401,608; May 25; Serial No. 457,989; published Mar. 16, 1943. Class 4.

Oliver & Kaufman, New York, N. Y. Textile fabrics, in the piece, in the bolt, and as removable and non-removable slipcovers. 401,596; May 25; Serial No. 457,861; published Mar. 9, 1943. Class 42.

O'Neill, John I. (See O'Neill, Peter L., assignor.)

O'Neill, Peter L., doing business as Decorata Mfg. Co., assignor to John I. O'Neill, Jersey City, N. J. Paints and finishing compounds. 166,374; renewed Apr. 3, 1943.

Oxtex Corporation, Newark, N. J. Artificial leather. 401,550; May 25; Serial No. 456,804; published Mar. 16, 1943. Class 50.

Padan, Wiley, Douglaston, N. Y. Cartoon feature. 401,670; May 25. Class 38.

Palliser, Leonard, New York, N. Y. Identification bracelet. 401,638; May 25. Class 28.

Parsons Ammonia Company, Inc., New York, N. Y. Ammonia substitute. 401,554; May 25; Serial No. 456,960; published Mar. 16, 1943. Class 6.

Pastene, P., & Co., Inc., Boston, Mass., assignor to Pastene & Co., Inc., New York, N. Y. Canned peeled tomatoes and tomato sauce. 173,741; renewed Oct. 2, 1943.

Penaljo, Inc., St. Louis, Mo. Men's, women's, and children's shoes. 401,548; May 25; Serial No. 456,722; published Jan. 12, 1943. Class 39.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Spotting compounds having bleaching properties. 401,582; May 25; Serial No. 457,565; published Mar. 16, 1943. Class 6.

Pestless Products Company. (See Vaughn, Clyde.)

Petro-Chem Development Company, New York, N. Y. Fluid burning furnaces. 401,526; May 25; Serial No. 454,103; published Mar. 16, 1943. Class 34.

Picard, Fred A., doing business as F. A. Picard, New York, N. Y. Ladies' wearing apparel. 401,558; May 25; Serial No. 457,104; published Feb. 23, 1943. Class 39.

Picardy Mills, Inc., Brooklyn, N. Y. Gloves. 401,562; May 25; Serial No. 457,172; published Feb. 23, 1943. Class 39.

Pillsbury Flour Mills Company. (See Globe Grain & Milling Co., assignor.)

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Caustic soda, soda ash, liquid chlorine, etc. 401,529; May 25; Serial No. 454,237; published Mar. 16, 1943. Class 6.

Portage Shoe Manufacturing Co. (See Weyenberg Shoe Manufacturing Company.)

Precision Scientific Co., Chicago, Ill. Laboratory equipment. 401,577; May 25; Serial No. 457,509; published Mar. 16, 1943. Class 26.

Putney, Stephen, Shoe Company, Richmond, Va. Shoes. 401,659; May 25. Class 39.

Quaker Oats Company, The, Chicago, Ill. Poultry feed. 172,671; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Poultry feed. 172,760; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Wheat flour. 172,761; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Rolled oats and wheat food. 172,768; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Wheat flour. 172,801; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Rolled oats and oatmeal. 172,969; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Horse feed. 172,983; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Rolled oats. 173,012; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Mixed stock feed. 173,028; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Horse feed. 173,029; renewed Sept. 11, 1943.

Quaker Oats Company, The, Chicago, Ill. Stock feed. 173,030; renewed Sept. 11, 1943.

Ramapo Ajax Corporation, assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Track switches, switch stands, switch plates, and parts thereof. 173,737; renewed Oct. 2, 1943.

Rawlings Manufacturing Company, St. Louis, Mo. Baseballs, gloves, and mits. 173,740; renewed Oct. 2, 1943.

Raybestos Company, The, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. High pressure sheet packing. 167,731; renewed May 8, 1943.

Raybestos-Manhattan, Inc. (See Raybestos Company, assignor.)

Red Star Milling Company, The, Wichita, Kans., assignor to General Mills, Inc., Minneapolis, Minn. Wheat flour. 172,472; renewed Aug. 28, 1943.

Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters. 401,598; May 25; Serial No. 457,882; published Mar. 9, 1943. Class 39.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic rubber. 401,560; May 25; Serial No. 457,144; published Mar. 16, 1943. Class 1.

Remington Rand Inc., Buffalo, N. Y. Guides for card and correspondence indexes. 401,567; May 25; Serial No. 457,285; published Mar. 16, 1943. Class 37.

Rex Company, The. (See Bonewitz, Paul W., assignor.)

Ries, Park J., doing business as Reis Camera Co., Hollywood, Calif. Tripod heads employed as an adjustable mounting for cameras, telescopes, surveying instruments and other forms of scientific apparatus. 401,552; May 25; Serial No. 456,902; published Mar. 16, 1943. Class 26.

Riseman, Matthews, Inc., Boston, Mass. Ladies' dresses. 401,635; May 25. Class 39.

Roe, William G., Winter Haven, Fla. Fresh citrous and deciduous fruits. 172,065; renewed Aug. 21, 1943.

Roe, William G., Winter Haven, Fla. Fresh citrous fruits. 173,710; renewed Oct. 2, 1943.

Röhm & Haas Company, Philadelphia, Pa. Synthetic resinous materials in the form of sheets, rods, tubes, or molding compounds. 401,555; May 25; Serial No. 457,011; published Mar. 16, 1943. Class 1.

Rosen & Stutman Dress Co., Boston, Mass. Women's dresses, coats, dress and jacket ensembles, etc. 401,668; May 25. Class 39.

Rosenblums, Los Angeles, Calif. Men's and ladies' suits, sport coats, and topcoats, etc. 401,677; May 25. Class 39.

Rust Master Chemical Corporation, Boston, Mass. Stop leak compounds. 401,513; May 25; Serial No. 450,551; published Mar. 16, 1943. Class 6.

S & M Tire & Auto Supply Co., Minneapolis, Minn. Pneumatic rubber tires. 401,630; May 25. Class 35.

Sachs, Morris B., Chicago, Ill. Men's and boys' suits and overcoats and ladies' coats, suits, dresses, etc. 401,624–5; May 25. Class 39.

Sachs, Morris B., Chicago, Ill. Men's and boys' suits and overcoats, and ladies' coats, suits, dresses, etc. 401,628; May 25. Class 39.

Sacks, Joseph A. (See Whitehead, Daisy, Knitting Co.)

Sacks, Joseph A., doing business as Daisy Whitehead Knitting Co., New York, N. Y. Women's, misses', and children's hosiery. 401,664; May 25. Class 39.

Safetee Glass Company, Philadelphia, Pa. Laminated glass. 401,663; May 25. Class 33.

Saginaw Bearing Company. (See Fredericksen Company.)

Schlesinger, Joseph H., D. D. S., doing business as Eagle Chemical Co., New York, N. Y. Liquid adapted for neutralization of acids exuding from dental cement. 401,572; May 25; Serial No. 457,434; published Mar. 16, 1943. Class 6.

Schonbrunn, S. A., & Co., Inc., New York, N. Y. Coffee. 401,658; May 25. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Phonographs, phonograph needles, and disk-record albums. 167,620; renewed May 1, 1943.

Selby Shoe Company, The, Portsmouth, Ohio. Shoes. 401,522; May 25; Serial No. 453,041; published Feb. 16, 1943. Class 39.

Selby Shoe Company, The, Portsmouth, Ohio. Shoes. 401,523; May 25; Serial No. 453,043; published Feb. 16, 1943. Class 39.

Selby Shoe Company, The, Portsmouth, Ohio. Shoes. 401,564; May 25; Serial No. 457,191; published Mar. 2, 1943. Class 39.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Glass bottles. 401,497; May 25; Serial No. 438,998; published Mar. 2, 1943. Class 33.

Silk Screen Supplies, Inc., Brooklyn, N. Y. Stencil-cloth. 401,515; May 25; Serial No. 451,368; published Mar. 2, 1943. Class 42.

Soap-'N-Towl, Inc., Brocton, N. Y. Toilet kits consisting of soap-treated cloth and towels. 401,672; May 25. Class 4.

Sociedad Anonima Vinedos y Bodegas Arizu, Buenos Aires, Argentina. Brandy, anisette, liqueurs, etc. 401,498; May 25; Serial No. 443,436; published Mar. 2, 1943. Class 49.

Society of Chemical Industry in Basle, Basel, Switzerland. Preparations containing active hormonal compounds. 401,510; May 25; Serial No. 450,289; published Mar. 16, 1943. Class 6.

Southland Manufacturing Co., Inc., Wilmington, N. C. Men's and boys' outer shirts, pajamas, underwear and shorts. 401,666; May 25. Class 39.

Sperry Flour Co., San Francisco, Calif., assignor, by mesne assignments, to General Mills Inc., Minneapolis, Minn. Wheat flour. 172,638; renewed Sept. 11, 1943.

Standard Paper Manufacturing Company, Richmond, Va. Blotting paper. 170,525; renewed July 17, 1943.

Sterns, Limited, London, England. Medicated preparations. 401,620; May 25; Serial No. 458,202; published Mar. 16, 1943. Class 6.

Style Form Brassiere Co., Inc., New York, N. Y. Bandeaux, brassières, and girdles. 401,636; May 25. Class 39.

Super Togs Co., New York, N. Y. Shoe socks. 401,673; May 25. Class 39.

Terrebonne Bulb Corporation, New Orleans, La. Plant bulbs. 401,538; May 25; Serial No. 455,714; published Mar. 16, 1943. Class 1.

Times Telephoto Equipment Inc., New York, N. Y. Electrosensitive recording and copying paper, etc. 401,601; May 25; Serial No. 457,923; published Mar. 16, 1943. Class 21.

Toewear Hosiery, Inc., Norristown, Pa. Hosiery. 171,199; renewed July 31, 1943.

Tribune Company, Chicago, Ill. Newspaper and newspaper supplements. 172,059; renewed Aug. 21, 1943.

Trojan Middy Co., Inc., Troy, N. Y. Middies, smocks, and children's dresses. 173,652; renewed Oct. 2, 1943.

Troy Laundry Machinery Co., Ltd., Chicago, Ill. to American Machine and Metals, Inc., New York, N. Y., successor. Ironing machines. 164,132; renewed Feb. 13, 1943.

Tune-Dex, Inc., New York, N. Y. Series of thematic index cards employing the use of music on one side of the card and information on the other side. 401,587; May 25; Serial No. 457,692; published Mar. 16, 1943. Class 38.

United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 173,869; renewed Oct. 2, 1943.
United Mills, Inc., Mount Gilead, N. C. Ladies' underwear, slips, bed jackets, and nightgowns. 401,678; May 25. Class 39.
U. S. Manufacturing Corporation, Decatur, Ill. Implements. 172,577; renewed Sept. 11, 1943.
U. S. Manufacturing Corporation, Decatur, Ill. Fly swatters, and implements for killing insects. 172,889; renewed Sept. 11, 1943.
U. S. Manufacturing Corporation, Decatur, Ill. Fly swatters, and implements for killing insects. 172,890–1; renewed Sept. 11, 1943.
Van, Billy B., doing business as Billy B. Van Sales Company, Newport, N. H. Toilet soap. 401,610; May 25; Serial No. 458,054; published Mar. 16, 1943. Class 4.
Van Erp, William, doing business as Dirk van Erp, San Francisco, Calif. Art metal work. 401,656; May 25. Class 28.
Vaughan, William C., Minor Hill, Tenn. Preparation for the treatment of athlete's foot, exzema, boils, etc. 401,594; May 25; Serial No. 457,843; published Mar. 16, 1943. Class 6.
Vaughn, Clyde, doing business as Pestless Products Company, Pasadena, Calif. Fertilizer. 401,499; May 25; Serial No. 444,949; published Mar. 16, 1943. Class 10.
Vivaudou, Jean, & Co. Inc., New York, N. Y. Moth exterminating preparation. 401,599; May 25; Serial No. 457,904; published Mar. 16, 1943. Class 6.
Walgreen Co., Chicago, Ill. Tooth brushes. 401,586; May 25; Serial No. 457,646; published Mar. 16, 1943. Class 29.
Waltham Watch Company, Waltham, Mass. Measuring, recording, and indicating devices and parts thereof. 401,524; May 25; Serial No. 453,285; published Mar. 16, 1943. Class 26.
Weco Products Company, Chicago, Ill. Handkerchiefs. 401,539; May 25; Serial No. 455,776; published Feb. 16, 1943. Class 39.
Welfit Brassiere Corporation, New York, N. Y. Ladies' foundations, brassières, and girdles. 401,661; May 25. Class 39.
Wells, A. Z. (See Graham, Robt. J., assignor.)
Western Industrial Engineering Co., Los Angeles, Calif. Magnetic inspection apparatus. 401,578; May 25; Serial No. 457,520; published Mar. 16, 1943. Class 26.
Weyenberg Shoe Manufacturing Company, doing business as Portage Shoe Manufacturing Co., Milwaukee, Wis. Men's leather shoes. 401,622; May 25. Class 39.
White, Murray, Company, Boston, Mass. Dresses for misses and women. 401,646; May 25. Class 39.
Whitehead, Daisy, Knitting Co. (See Sacks, Joseph A.)
Whitehead, Daisy, Knitting Co. to Joseph A. Sacks, doing business as Daisy Whitehead Knitting Co., New York, N. Y., successor. Hosiery. 173,508; renewed Sept. 25. 1943.
Wimelbacher & Rice, New York, N. Y. Leather and fabric gloves. 401,583; May 25; Serial No. 457,568; published Mar. 16, 1943. Class 39.
Wood & Hyde Company, Gloversville, N. Y. Glove leather. 401,547; May 25; Serial No. 456,501; published Mar. 16, 1943. Class 1.
Wood, T. W., & Sons, Richmond, Va. Scratch food for fowl. 173,336; renewed Sept. 25, 1943.
Wool Industries Research Association, Leeds, England. Wearing apparel. 401,514; May 25; Serial No. 451,354; published Mar. 16, 1943. Class 39.
Worcester Cap Company, Boston, Mass. Caps. 401,521; May 25; Serial No. 452,916; published July 14, 1942. Class 39.
Zuckerman & Kraus, Inc., New York, N. Y. Ladies' and misses' suits, coats, and dresses. 401,667; May 25. Class 39.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Bulbs, Plant. Terrebonne Bulb Corporation. 401,538; May 25; Serial No. 455,714; published Mar. 16, 1943.
Exothermic metallurgical copper alloying materials. Chromium Mining & Smelting Corporation. 401,540; May 25; Serial No. 455,787; published Mar. 16, 1943.
Exothermic metallurgical iron alloying materials. Chromium Mining & Smelting Corporation. 401,541; May 25; Serial No. 455,788; published Mar. 16, 1943.
Exothermic metallurgical nickel alloying materials. Chromium Mining & Smelting Corporation. 401,542; May 25; Serial No. 455,789; published Mar. 16, 1943.
Exothermic metallurgical silicon alloying materials. Chromium Mining & Smelting Corporation. 401,543; May 25; Serial No. 455,790; published Mar. 16, 1943.
Leather, Glove. Wood & Hyde Company. 401,547; May 25; Serial No. 456,501; published Mar. 16, 1943.
Resinous materials in the form of sheets, rods, tubes, or molding compounds, Synthetic. Röhm & Haas Company. 401,555; May 25; Serial No. 457,011; published Mar. 16, 1943.
Rubber, Synthetic. Reichhold Chemicals, Inc. 401,560; May 25; Serial No. 457,144; published Mar. 16, 1943.
Washes and foundry facings, Mold and core. Mineral Mining Corporation. 401,640; May 25.

CLASS 2

Bags, Cloth mailing. Milwaukee Bag Co. 170,300; renewed July 10, 1943.
Cotton, burlap, and paper bags. Bemis Bro. Bag Company. 173,156; renewed Sept. 18, 1943.

CLASS 3

Beds, Animal. E. W. Little. 401,675; May 25.

CLASS 4

Acid cleaner composition. P. W. Bonewitz. 401,505–6; May 25; Serial Nos. 449,882–3; published Mar. 16, 1943.
Chemical product in liquid form used as a cleanser. Cole Laboratories, Inc. 401,579; May 25; Serial No. 457,521; published Mar. 16, 1943.
Cleansing compound. Economics Laboratory, Incorporated. 401,571; May 25; Serial No. 457,388; published Mar. 16, 1943.
Kits consisting of soap-treated cloth and towels, Toilet. Soap-'N-Towl, Inc. 401,672; May 25.
Pads, Abrasive. Downy Products Company. 401,566; May 25; Serial No. 457,274; published Mar. 16, 1943.
Polish, Metal. Oil Specialties & Refining Co. 401,608; May 25; Serial No. 457,989; published Mar. 16, 1943.
Preparation for removing spots and liquor, heat, etc., and for cleaning finished surfaces. I. Jackson. 401,517; May 25; Serial No. 451,717; published Mar. 16, 1943.
Soap, Toilet. B. B. Van. 401,610; May 25; Serial No. 458,054; published Mar. 16, 1943.
Washing compound. Blue Suds Company. 401,662; May 25.

CLASS 5

Adhesive tapes, Pressure sensitive. Industrial Tape Corporation. 401,116; May 25; Serial No. 458,116; published Mar. 16, 1943.
Adhesive tapes, Pressure sensitive. Industrial Tape Corporation. 401,619; May 25; Serial No. 458,154; published Mar. 16, 1943.
Compound for forming an air-sealing coating over the inside of pneumatic tires and tubes, A. Film-O-Seal Company. 401,657; May 25.

CLASS 6

Ammonia substitute. Parsons Ammonia Company. 401,554; May 25; Serial No. 456,960; published Mar. 16, 1943.
Chemical preparation. B. Heller & Company. 172,579; renewed Sept. 11, 1943.
Chemical preparation for facilitating the scalding of hogs. B. Heller & Company. 172,556; renewed Sept. 11, 1943.
Chemical preparations. National Aniline & Chemical Company. 173,271; renewed Sept. 18, 1943.
Coloring for food and confectionery. B. Heller & Company. 172,574; renewed Sept. 11, 1943.
Compounds having bleaching properties, Spotting. Pennsylvania Salt Manufacturing Company. 401,582; May 25; Serial No. 457,565; published Mar. 16, 1943.
Compounds, Stop leak. Rust Master Chemical Corporation. 401,513; May 25; Serial No. 450,551; published Mar. 16, 1943.
Corrosion and rust preventive for cooling systems of internal combustion engines. W. H. Barber Company. 401,588; May 25; Serial No. 457,696; published Mar. 16, 1943.
Dentifrices, and mouth wash and gargle. Wm. S. Merrell Company. 401,634; May 25.
Dyes for textile purposes. Geigy Company. 401,597; May 25; Serial No. 457,875; published Mar. 16, 1943.
Liquid adapted for neutralization of acids exuding from dental cement. J. H. Schlesinger, D. D. S. 401,572; May 25; Serial No. 457,434; published Mar. 16, 1943.
Medicated preparations. Sterns, Limited. 401,620; May 25; Serial No. 458,202; published Mar. 16, 1943.
Medicinal preparation. First Texas Chemical Manufacturing Company. 174,045; renewed Oct. 2, 1943.
Medicinal salves for the relief of nasal, throat, and chest irritations. L. G. Jennings. 401,574; May 25; Serial No. 457,473; published Mar. 16, 1943.
Moth exterminating preparation. Jean Vivaudou & Co. Inc. 401,599; May 25; Serial No. 457,904; published Mar. 16, 1943.
Palliative for the treatment of asthma, catarrh of the liver and lungs, and hemorrhoids. J. Horvath. 401,609; May 25; Serial No. 458,038; published Mar. 16, 1943.
Photographic chemicals. Eastman Kodak Company. 401,500–1; May 25; Serial Nos. 445,387–8; published Mar. 16, 1943.

Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 401,611–13; May 25; Serial Nos. 458,092–4; published Mar. 16, 1943.
Preparation for eczema, salt rheum, impetigo, etc. Nolan Co. 168,445; renewed May 22, 1943.
Preparation for the treatment of asthma, hay fever, coughs, etc. Cady-Parker Medicine Co. 401,537; May 25; Serial No. 455,413; published Mar. 16, 1943.
Preparation for the treatment of athlete's foot, eczema, boils, etc. W. C. Vaughan. 401,594; May 25; Serial No. 457,843; published Mar. 16, 1943.
Preparation for the treatment of hair and scalp. Florie E. De Zon. 172,363; renewed Aug. 28, 1943.
Preparations containing active hormonal compounds. Society of Chemical Industry in Basle. 401,510; May 25; Serial No. 450,289; published Mar. 16, 1943.
Soda, soda ash, liquid chlorine, Caustic. Pittsburgh Plate Glass Company. 401,529; May 25; Serial No. 454,237; published Mar. 16, 1943.

CLASS 7

Rope, cord and twine. American Manufacturing Company. 168,701; renewed May 29, 1943.

CLASS 10

Fertilizer. C. Vaughn. 401,499; May 25; Serial No. 444,949; published Mar. 16, 1943.

CLASS 11

Inks, ink-pads and printing materials, Solid and fluid finger printing. Faurot Protective Identification System, Inc. 401,652; May 25.

CLASS 13

Bolts, rivets and spikes. Milton Manufacturing Company. 173,705; renewed Oct. 2, 1943.
Clamps, grounding rods, grounding cluster supports, etc., Grounding. A. B. Chance Company. 401,576; May 25; Serial No. 457,493; published Mar. 16, 1943.
Lock-nuts. National Machine Products Company. 401,511; May 25; Serial No. 450,338; published Mar. 16, 1943.
Shower bath equipment. H. H. Logan. 401,545; May 25; Serial No. 456,191; published Mar. 16, 1943.

CLASS 14

Metal, packing metal, brass castings, etc., Bearing. Fredericksen Company. 171,832; renewed Aug. 14, 1943.
Steel in bars, billets and shapes. Carpenter Steel Company. 401,649–50; May 25.

CLASS 16

Enamels, Paint. American Varnish Company. 173,708–9; renewed Oct. 2, 1943.
Paints and finishing compounds. P. L. O'Neill. 166,374; renewed Apr. 3, 1943.

CLASS 17

Tobacco, Smoking. Liggett & Myers Tobacco Company. 401,584; May 25; Serial No. 455,597; published Mar. 16, 1943.

CLASS 21

Apparatus in telephone systems. Cook Electric Company. 401,532; May 25; Serial No. 455,016; published Mar. 16, 1943.
Bearing races for internal combustion engine distributors, Spring steel. L. H. Hove. 401,573; May 25; Serial No. 457,472; published Mar. 16, 1943.
Connecting devices or sleeves for electric wires and cables. National Telephone Supply Company. 401,593; May 25; Serial No. 457,813; published Mar. 16, 1943.
Contacts, Electric. P. R. Mallory & Co. 401,580; May 25; Serial No. 457,525; published Mar. 16, 1943.
Electro-chemical apparatus for the dehydration of air and for supplying air under pressure. J. L. Bernard, Jr. 401,581; May 25; Serial No. 457,536; published Mar. 16, 1943.
Electrosensitive recording and copying paper, etc. Times Telephoto Equipment Inc. 401,601; May 25; Serial No. 457,923; published Mar. 16, 1943.
Hangers, Metal cable. National Telephone Supply Company. 401,637; May 25.
Lightning rods. Dodd & Struthers. 164,634; renewed Feb. 27, 1943.
Switches, electric flow switches liquid level responsive pump control electric switches, and electrical parts thereof. E. N. McDonnell. 401,570; May 25; Serial No. 457,340; published Mar. 16, 1943.

CLASS 22

Baseballs, ball-players' gloves and mits. Rawlings Manufacturing Company. 173,740; renewed Oct. 2, 1943.
Basketball goal nets. Athletic Supply Company. 401,614; May 25; Serial No. 458,110; published Mar. 16, 1943.

CLASS 23

Cigar, cigarette, and hoisting machinery and parts thereof, sickle bars, etc. American Machine and Foundry Co. 168,740; renewed May 29, 1943.
Knives, forks and other table flatware. American Art Alloys, Inc. 401,616; May 25; Serial No. 458,135; published Mar. 9, 1943.
Knives, forks, and other tableware. American Art Alloys, Inc. 401,617–18; May 25; Serial Nos. 458,139–40; published Mar. 9, 1943.
Machines for applying watch crystals. Germanow-Simon Machine Co. 168,176; renewed May 15, 1943.
Switches, switch stands and plates, and parts thereof, Track. Ramapo Ajax Corporation. 173,737; renewed Oct. 2, 1943.

CLASS 24

Dryers, Cabinet mechanical clothes. Hamilton Manufacturing Company. 401,589; May 25; Serial No. 457,704; published Mar. 16, 1943.
Ironing machines. Troy Laundry Machinery Co. Ltd. 164,132; renewed Feb. 13, 1943.
Washing machines, Laundry. Dexter Company. 401,647; May 25.

CLASS 26

Electrical measuring instruments, specifically apparatus for determining the voltage at which electrical insulation breaks down. Associated Research Incorporated. 401,603; May 25; Serial No. 457,941; published Mar. 16, 1943.
Electrical measuring instruments, specifically instruments for measuring the electrical resistance of electrical insulation. Associated Research Incorporated. 401,605; May 25; Serial No. 457,943; published Mar. 16, 1943.
Electrical measuring instruments, specifically instruments for measuring the resistance of electrical grounding connection to the earth. Associated Research Incorporated. 401,604; May 25; Serial No. 457,942; published Mar. 16, 1943.
Gauges, recording gauges, indicating, thermometers, etc., Indicating. American Steam Gauge & Valve Manufacturing Company. 173,417; renewed Sept. 25, 1943.
Laboratory equipment. Precision Scientific Co. 401,577; May 25; Serial No. 457,509; published Mar. 16, 1943.
Magnetic inspection apparatus. Western Industrial Engineering Co. 401,578; May 25; Serial No. 457,520; published Mar. 16, 1943.
Measuring, recording and indicating devices, and parts thereof. Waltham Watch Company. 401,524; May 25; Serial No. 453,285; published Mar. 16, 1943.
Tripod heads employed as an adjustable mounting for cameras, telescopes, surveying instruments and other forms of scientific apparatus. P. J. Ries. 401,552; May 25; Serial No. 456,902; published Mar. 16, 1943.

CLASS 27

Watches. Elrex Watch Company. 401,551; May 25; Serial No. 456,868; published Mar. 16, 1943.

CLASS 28

Art metal work. W. van Erp. 401,656; May 25.
Bracelet, Identification. L. Palliser. 401,638; May 25.
Reproductions of precious and semiprecious gems and stones. Joseph H. Meyer Bros. 171,300; renewed Aug. 7, 1943.

CLASS 29

Brushes, Tooth. Walgreen Co. 401,586; May 25; Serial No. 457,646; published Mar. 16, 1943.
Mops and mop heads. W. A. Ballinger & Co. 401,534–6; May 25; Serial Nos. 455,388–90; published Mar. 16, 1943.

CLASS 33

Bottles, Glass. Sharp & Dohme, Incorporated. 401,497; May 25; Serial No. 438,998; published Mar. 2, 1943.
Glass, Laminated. Safetee Glass Company. 401,663; May 25.

CLASS 34

Furnaces, Fluid burning. Petro-Chem Development Company. 401,526; May 25; Serial No. 454,103; published Mar. 16, 1943.
Heaters, Gas water. Bastian-Morley Co. 169,235; renewed June 12, 1943.
Heaters, Gas water. Bastian-Morley Co. 171,605; renewed Aug. 7, 1943.
Oil burners, Motor driven. Hall-Neal Furnace Co. 401,508; May 25; Serial No. 450,161; published Mar. 16, 1943.

CLASS 35

Gaskets, washers, packing, etc. Armstrong Cork Company. 168,204; renewed May 15, 1943.
Packing, High pressure sheet. Raybestos Company. 167,731; renewed May 8, 1943.
Tires, Pneumatic rubber. S & M Tire & Auto Supply Co. 401,630; May 25.

CLASS 36

Phonograph records and record blanks. Columbia Recording Corporation. 401,627; May 25.
Phonographs, phonograph needles, and disk-record albums. Sears, Roebuck and Co. 167,620; renewed May 1, 1943.

CLASS 37

Envelopes, Correspondence and mailing. Curtis 1000 Incorporated. 401,530; May 25; Serial No. 454,247; published Mar. 16, 1943.
Guides for card and correspondence indexes. Remington Rand Inc. 401,567; May 25; Serial No. 457,285; published Mar. 16, 1943.
Paper. J. Dickinson & Co., Limited. 23,516; re-renewed Aug. 22, 1943.
Paper, Blotting. Standard Paper Manufacturing Company. 170,525; renewed July 17, 1943.
Paper products. L. Hyman & Sons. 401,561; May 25; Serial No. 457,153; published Mar. 16, 1943.
Pencil, Lead. Eberhard Faber Pencil Company. 173,745; renewed Oct. 2, 1943.

CLASS 38

Books. J. S. Bagg. 401,648; May 25.
Bulletin, Church. Church Bulletin, Inc. 173,611; renewed Oct. 2, 1943.
Cards employing the use of music on one side of the card and information on the other. Series of thematic index. Tune-Dex, Inc. 401,587; May 25; Serial No. 457,692; published Mar. 16, 1943.
Cartoon feature. W. Padan. 401,670; May 25.
Cartoons, Series of. Field Publications. 401,569; May 25; Serial No. 457,333; published Mar. 9, 1943.
Column, scripts for monologues, dialogues, dramatic sketches, etc. R. Cook. 401,556; May 25; Serial No. 457,029; published Mar. 2, 1943.
Magazine, Pictorial. R. Harrison. 401,592; May 25; Serial No. 457,810; published Mar. 9, 1943.
Magazine and a supplement. National Audubon Society. 401,623; May 25.
Newspaper. Tribune Company. 172,059; renewed Aug. 21, 1943.
Newspapers. L. Nelson-Kirkwood. 173,601; renewed Oct. 2, 1943.
Photographic color enlargements. Eastman Kodak Company. 401,520; May 25; Serial No. 452,718; published Dec. 8, 1942.
Prints, etchings, wood blocks, etc. Rudolph Lesch Fine Arts, Incorporated. 401,643; May 25.
Publication. Fawcett Publications, Inc. 401,631; May 25.

CLASS 39

Apparel, Ladies' wearing. F. A. Picard. 401,558; May 25; Serial No. 457,104; published Feb. 23, 1943.
Apparel, Men's wearing. Ely & Walker Dry Goods Company. 401,544; May 25; Serial No. 455,819; published Feb. 23, 1943.
Apparel, Wearing. Wool Industries Research Association. 401,514; May 25; Serial No. 451,354; published Mar. 16, 1943.
Bandeaux, brassières, and girdles. Style Form Brassiere Co. 401,636; May 25.
Bath and lounging robes, Misses' and junior misses'. Geisha Robe Co. 401,674; May 25.
Boots and shoes of leather, fabric and/or combinations thereof. International Shoe Co. 401,600; May 25; Serial No. 457,915; published Mar. 16, 1943.
Brassière. J. L. Berlé. 401,585; May 25; Serial No. 457,649; published Mar. 2, 1943.
Caps. Worcester Cap Company. 401,521; May 25; Serial No. 452,916; published July 14, 1942.
Coats and suits, Ladies' and misses'. Dan Millstein, Inc. 401,559; May 25; Serial No. 457,138; published Mar. 16, 1943.
Coats and suits, Ladies' and misses'. Tobias Klipstein Inc. 401,512; May 25; Serial No. 450,542; published Mar. 31, 1942.
Coats, Men's and boys' sports. David D. Doniger & Co. 401,653; May 25.
Collars, vestees, dickeys, and scarves, Women's. Howards Fifth Ave., Inc. 401,671; May 25.
Corsets, brassières, and combination corsets and brassières. International Corset Company. 173,834; renewed Oct. 2, 1943.
Coveralls, overalls, and play suits. M. Kay. 401,641; May 25.
Coveralls, slack suits, caps, etc., Ladies' and misses'. Art-Mor Togs Inc. 401,549; May 25; Serial No. 456,763; published Feb. 16, 1943.
Dresses, blouses, slacks, Juniors' and misses'. M. H. Mandel. 401,645; May 25.
Dresses, coats, dress and jacket ensembles, etc., Women's. Rosen & Stutman Dress Co. 401,668; May 25.
Dresses for misses and women. Murray White Company. 401,646; May 25.
Dresses, Ladies'. Matthews, Riseman, Inc. 401,635; May 25.
Dresses, Ladies'. S. Bressler. 401,639; May 25.
Dresses, Ladies', misses', girls', and juniors'. Mayflower Dress Co. 401,676; May 25.
Foundations, brassières, and girdles, Ladies'. Welfit Brassiere Corporation. 401,661; May 25.
Garments for infants and children, Outer. Dyersburg Cotton Products, Inc. 401,654; May 25.
Garments, Foundation. Jantzen Knitting Mills. 401,644; May 25.
Gloves. Picardy Mills, Inc. 401,562; May 25; Serial No. 457,172; published Feb. 23, 1943.
Gloves, Leather and fabric. Wimelbacher & Rice. 401,583; May 25; Serial No. 457,568; published Mar. 16, 1943.
Handkerchiefs. Weco Products Company. 401,539; May 25; Serial No. 455,776; published Feb. 16, 1943.
Hats for women and misses. Bertlyn Corporation. 401,575; May 25; Serial No. 457,490; published Feb. 23, 1943.
Hats, Ladies'. Ogus, Rabinovich & Ogus, Inc. 401,633; May 25.
Hosiery. Daisy Whitehead Knitting Co. 173,508; renewed Sept. 25, 1943.
Hosiery. Toewear Hosiery, Inc. 171,199; renewed July 31, 1943.
Hosiery. United Hosiery Mills Corporation. 173,869; renewed Oct. 2, 1943.
Hosiery, underwear, and outer garments. May Hosiery Mills, Incorporated. 173,346; renewed Sept. 25, 1943.
Hosiery, Women's, misses' and children's. J. A. Sacks. 401,664; May 25.
Middies, smocks, and children's dresses. Trojan Middy Co. 173,652; renewed Oct. 2, 1943.
Muffiers. Blue Mountain Textile Corporation. 401,565; May 25; Serial No. 457,269; published Feb. 16, 1943.
Neckties. Manhattan Shirt Company. 401,557; May 25; Serial No. 457,065; published Mar. 2, 1943.
Panties, chemises, step-ins, etc., Women's and misses'. Carl Gutmann & Co. 401,665; May 25.
Shirts, pajamas, underwear and shorts, Men's and boys' outer. Southland Manufacturing Co. 401,666; May 25.
Shirts, undershirts, and sweaters, Men's. Apollo Shirt Company. 401,591; May 25; Serial No. 457,803; published Mar. 9, 1943.
Shirts; women's dresses; men's half hose; etc., Men's outer. Marks and Spencer Sales Corporation. 401,533; May 25; Serial No. 455,376; published Feb. 23, 1943.
Skirts, Women's. A. Heyman. 401,629; May 25.
Shoes. Cannon Shoe Company. 401,516; May 25; Serial No. 451,546; published May 19, 1942.
Shoes. Selby Shoe Company. 401,522; May 25; Serial No. 453,041; published Feb. 16, 1943.
Shoes. Selby Shoe Company. 401,523; May 25; Serial No. 453,043; published Feb. 16, 1943.
Shoes. Selby Shoe Company. 401,564; May 25; Serial No. 457,191; published Mar. 2, 1943.
Shoes. S. J. Brouwer. 401,527; May 25; Serial No. 454,131; published Sept. 8, 1942.
Shoes. Davison-Paxon Company. 401,621; May 25.
Shoes. Stephen Putney Shoe Company. 401,659; May 25.
Shoes, Children's. Gilbert Shoe Co. 401,602; May 25; Serial No. 457,933; published Mar. 16, 1943.
Shoes, Men's. Given Bros. Shoe Co. 401,568; May 25; Serial No. 457,313; published Feb. 16, 1943.
Shoes, Men's leather. Weyenberg Shoe Manufacturing Company. 401,622; May 25.
Shoes, Men's, women's, and children's. Penaljo, Inc. 401,548; May 25; Serial No. 456,722; published Jan. 12, 1943.
Slippers. I. B. Kleinert Rubber Company. 401,509; May 25; Serial No. 450,231; published Mar. 2, 1943.
Slips, Ladies' and misses'. B. Bregstein. 401,669; May 25.
Socks, Shoe. Super Togs Co. 401,673; May 25.
Spectator and active sportswear, sleeping bags and robes, Men's and women's. E. Bauer. 401,626; May 25.
Sportswear. Augusta Knitting Corporation. 401,502; May 25; Serial No. 447,502; published Dec. 16, 1941.
Suits and overcoats and ladies' coats, suits, dresses, etc., Men's and boys'. M. B. Sachs. 401,624–5; May 25.
Suits and overcoats, and ladies' coats, suits, dresses, etc., Men's and boys'. M. B. Sachs. 401,628; May 25.
Suits, blouses, and dresses, Ladies' and misses'. Famous blouses, Inc. 401,507; May 25; Serial No. 449,977; published Mar. 10, 1942.
Suits, coats, and dresses, Ladies' and misses'. Zuckerman & Kraus, Inc. 401,667; May 25.
Suits, coats, skirts, etc., Women's. Dennison Klothes Incorporated. 401,632; May 25.
Suits, sport coats, and topcoats, etc., Men's and ladies'. Rosenblums. 401,677; May 25.
Sweaters. B. Moseley Company. 166,618; renewed Apr. 10, 1943.
Sweaters, cardigans, and pull-overs, Knitted woolen. Cashmere Corporation of America. 401,642; May 25.
Sweaters, Men's. Carson Pirie Scott & Company. 401,518; May 25; Serial No. 451,926; published May 19, 1942.
Sweaters, Women's and girls'. Renart Sportswear Corp. 401,598; May 25; Serial No. 457,882; published Mar. 9, 1943.
Underwear, housecoats, sweaters, etc., Ladies' and misses'. M. E. Brown. 401,660; May 25.
Underwear, slips, bed jackets, and nightgowns, Ladies'. United Mills, Inc. 401,678; May 25.
Vests and jackets for men, women, and children. Currick & Leiken Co. Inc. 401,519; May 25; Serial No. 452,240; published Mar. 16, 1943.

CLASS 40

Combs. American Hard Rubber Company. 172,348; renewed Aug. 28, 1943.
Shields, Dress. I. B. Kleinert Rubber Company. 173,719; renewed Oct. 2, 1943.
Shoe laces. J. Frier. 401,546; May 25; Serial No. 456,385; published Mar. 16, 1943.

CLASS 42

Cotton piece goods. Fisba Fabrics, Inc. 401,531; May 25; Serial No. 454,632; published Mar. 16, 1943.
Cotton piece goods. Naumkeag Steam Cotton Company. 173,391; renewed Sept. 25, 1943.
Stencil cloth. Silk Screen Supplies, Inc. 401,515; May 25; Serial No. 451,368; published Mar. 2, 1943.
Textile fabrics, in the piece, in the bolt, and as removable and nonremovable slipcovers. Oliver & Kaufman. 401,596; May 25; Serial No. 457,861; published Mar. 9, 1943.
Woolen piece goods. Forstmann Woolen Co. 401,553; May 25; Serial No. 456,940; published Mar. 16, 1943.

CLASS 45

Drink, Soft. J. F. Lazier Manufacturing Company. 173,989; renewed Oct. 2, 1943.

CLASS 46

Apples, Fresh boxed. R. J. Graham. 173,963; renewed Oct. 2, 1943.
Batter and shrimp sauce, Shrimp. Don E. R. G. Beachcomber. 401,655; May 25.
Butter. J. Di Santo. 401,679; May 25.
Candies and candied fruit. Miller & Paine, Inc. 173,890; renewed Oct. 2, 1943.
Candy. M. & M. Limited. 401,503; May 25; Serial No. 447,846; published Mar. 16, 1943.
Canned fish. Abbott, Hall & Co. 173,753; renewed Oct. 2, 1943.
Canned peeled tomatoes and tomato sauce. P. Pastene & Co. 173,741; renewed Oct. 2, 1943.
Coffee. S. A. Schonbrunn & Co. 401,658; May 25.
Feed, Horse. Quaker Oats Company. 172,983; renewed Sept. 11, 1943.
Feed, Horse. Quaker Oats Company. 173,029; renewed Sept. 11, 1943.
Feed, Mixed stock. Quaker Oats Company. 173,028; renewed Sept. 11, 1943.
Feed, Poultry. Quaker Oats Company. 172,671; renewed Sept. 11, 1943.
Feed, Poultry. Quaker Oats Company. 172,760; renewed Sept. 11, 1943.
Feed, Stock. Quaker Oats Company. 173,030; renewed Sept. 11, 1943.
Flour, Wheat. Globe Grain & Milling Co. 167,124–5; renewed Apr. 24, 1943.
Flour, Wheat. Quaker Oats Company. 172,761; renewed Sept. 11, 1943.
Flour, Wheat. Quaker Oats Company. 172,801; renewed Sept. 11, 1943.
Flour, Wheat. Red Star Milling Company. 172,472; renewed Aug. 28, 1943.
Flour, Wheat. Sperry Flour Co. 172,638; renewed Sept. 11, 1943.
Food, Dog. Miller Cereal Mills, Incorporated. 401,590; May 25; Serial No. 457,766; published Mar. 16, 1943.
Food flavoring extracts, Imitation. McCormick & Co. 401,606; May 25; Serial No. 457,960; published Mar. 16, 1943.
Food for fowl, Scratch. T. W. Wood & Sons. 173,336; renewed Sept. 25, 1943.
Fruits, Fresh citrous. Arizona Citrus Growers' Co. 170,516; renewed July 17, 1943.
Fruits, Fresh citrous. Lindsay Co-operative Citrus Association. 173,496; renewed Sept. 25, 1943.
Fruits, Fresh citrous. Lindsay Co-operative Citrus Association. 173,826; renewed Oct. 2, 1943.
Fruits, Fresh citrous. W. G. Roe. 173,710; renewed Oct. 2, 1943.
Fruits, Fresh citrous and deciduous. William G. Roe. 172,065; renewed Aug. 21, 1943.
Honey. F. E. Boyden-Hansen Co. 401,595; May 25; Serial No. 457,847; published Mar. 16, 1943.
Milk, Fluid. Borden Company. 401,504; May 25; Serial No. 448,934; published Mar. 3, 1942.
Oats and oatmeal, Rolled. Quaker Oats Company. 172,969; renewed Sept. 11, 1943.
Oats and wheat food, Rolled. Quaker Oats Company. 172,768; renewed Sept. 11, 1943.
Oats, Rolled. Quaker Oats Company. 173,012; renewed Sept. 11, 1943.
Tongues preserved in tins, Ox. McCall & Company. 401,528; May 25; Serial No. 454,145; published Mar. 16, 1943.
Vegetables, Fresh. E. E. Davis. 401,607; May 25; Serial No. 457,970; published Mar. 16, 1943.

CLASS 47

Wines. Ardrich Company. 401,525; May 25; Serial No. 454,048; published Mar. 9, 1943.

CLASS 49

Brandy, anisette, liqueurs, etc. Sociedad Anonima Vinedos y Bodegas Arizu. 401,498; May 25; Serial No. 443,436; published Mar. 2, 1943.
Liqueurs. Conrad, Incorporated. 401,563; May 25; Serial No. 457,184; published Mar. 2, 1943.

CLASS 50

Closures and seals for bottles, and cork or cork composition. Armstrong Cork Company. 169,154; renewed June 12, 1943.
Fly swatters, and implements for killing insects. U. S. Manufacturing Corporation. 172,889–91; renewed Sept. 11, 1943.
Implements. U. S. Manufacturing Corporation. 172,577; renewed Sept. 11, 1943.
Leather, Artificial. Oxtex Corporation. 401,550; May 25; Serial No. 456,804; published Mar. 16, 1943.
Sets, comprising handkerchiefs and perfume. Avon Products, Inc. 401,651; May 25.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

American Felt Company. (See Boeddinghaus, Hugo, assignor.)

Boeddinghaus, Hugo, Newburgh, assignor to American Felt Company, New York, N. Y. Material for shoe stiffeners. Re. 22,320; May 25.

Charlebois, Antoine. (See McMahan, E. E., and Charlebois.)

Cutler-Hammer, Inc. (See Newman, John M., assignor.)

Fisher, Raymond C., Tacoma, Wash. Electrical musical instrument. Re. 22,321; May 25.

Goodridge, Edward S., Port Washington, assignor to Induction Heating Corporation, New York, N. Y. Induction heating device. Re. 22,322; May 25.

Induction Heating Corporation. (See Goodridge, Edward S., assignor.)

McMahan, Eddy E., Los Angeles, Calif., and A. Charlebois, Bellingham, Wash.; said E. E. McMahan assignor to W. D. McMahan, Port Angeles, Wash. Mechanical poulary picker. Re. 22,323; May 25.

McMahan, Ward D. (See McMahan, E. E., assignor and Charlebois.)

Minneapolis-Moline Power Implement Company. (See Seaholm, John P., assignor.)

Newman, John M., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Control system. Re. 22,324; May 25.

O'Boyle, Charles M., Wilmington, Del. Protector. Re. 22,325; May 25.

Rundell, Theodore W., Abington, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. Re. 22,326; May 25.

Seaholm, John P., Moline, Ill., assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Disk harrow. Re. 22,327; May 25.

Westinghouse Electric & Manufacturing Company. (See Rundell, Theodore W., assignor.)

LIST OF DESIGN PATENTEES

Ackerman, Dolletta M., assignor to P. Davis, Los Angeles, Calif. Chin strap. 135,728; May 25.

Anderson, Marshall S., assignor to McCarty-Sherman Distributing Corporation, Denver, Colo. Post hole digging attachment. 135,724; May 25.

Benzel, Howard A., Marilla, assignor to Scott Aviation Corporation, Lancaster, N. Y. Compressor for a hydraulic brake unit or the like. 135,731; May 25.

Celanese Corporation of America. (See King, Muriel, assignor.)

Chicago Musical Instrument Co. (See Peers, Sidney J., assignor.)

Cookman, Helen C., New York, N. Y. Jacket. 135,710; May 25.

Crane Co. (See Stone, Carl R., assignor.)

Davis, Pauline. (See Ackerman, Dolletta M., assignor.)

Elkus, Richard J., San Francisco, Calif. Trailer. 135,711; May 25.

Grossman, Murry, New York, N. Y. Dress. 135,735; May 25.

Haas, Carl F., and E. W. Yungman, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company. Luminaire. 135,733; May 25.

Hickman, Alfred Merwin, Paterson, and G. B. Shield, Ridgewood, N. J. Bag. 135,734; May 25.

Hoffman, Al H., Azusa, Calif. Rupture pad. 135,737; May 25.

Jardur Import Company. (See Vetter, Ernest G., assignor.)

Jolles, Ida, New York, N. Y. Plastic unit for use on handbags or the like. 135,729; May 25.

Kaltreider, Walter H., York, Pa. Tire chain applying device or similar article. 135,730; May 25.

Kenney, Verle C., Chagrin Falls, Ohio. Toy wheelbarrow. 135,725; May 25.

King, Muriel, Pleasantville, N. Y., assignor to Celanese Corporation of America. Apron. 135,712; May 25.

King, Muriel, Pleasantville, N. Y., assignor to Celanese Corporation of America. Dress. 135,713; May 25.

King, Muriel, Pleasantville, N. Y., assignor to Celanese Corporation of America. Jacket. 135,714; May 25.

King, Muriel, Pleasantville, N. Y., assignor to Celanese Corporation of America. Blouse. 135,715; May 25.

Le Blond, R. K., Machine Tool Company, The. (See Srofe, Jesse, assignor.)

McCarty-Sherman Distributing Corporation. (See Anderson, Marshall S., assignor.)

Morner, Hans G., New York, N. Y. Watertight bag. 135,726; May 25.

Paul, Morris, Worcester, Mass. Woman's cap. 135,736; May 25.

Peers, Sidney J., Skokie, assignor to Chicago Musical Instrument Co., Chicago, Ill. Toy airplane. 135,717; May 25.

Peers, Sidney J., Skokie, assignor to Chicago Musical Instrument Co., Chicago, Ill. Toy airplane. 135,718; May 25.

Peers, Sidney J., Skokie, assignor to Chicago Musical Instrument Co., Chicago, Ill. Combined toy airplane and projector therefor. 135,719; May 25.

Penn, George R., Danville, Va. Book cover. 135,738; May 25.

Reed, Charles H., Cambridge, Mass. Game board. 135,720; May 25.

Russell, William J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Laundry unit. 135,721; May 25.

Scott Aviation Corporation. (See Benzel, Howard A., assignor.)

Shield, Gladys B. (See Hickman, A. M., and Shield.)

Srofe, Jesse, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe apron. 135,727; May 25.

Stone, Carl R., assignor to Crane Co., Chicago, Ill. Radiator valve. 135,732; May 25.

Vetter, Ernest G., Elmira, assignor to Jardur Import Company, New York, N. Y. Flight plotting instrument. 135,722; May 25.

Weil, Lewis P., Cynwyd, Pa. Flower holder. 135,723; May 25.

Westinghouse Electric & Manufacturing Company. (See Haas, C. F., and Yungman, assignors.)

Westinghouse Electric & Manufacturing Company. (See Russell, William J., assignor.)

Willard, Robert G., U. S. Navy, Washington, D. C. Aircraft recognition card deck. 135,716; May 25.

Yungman, Elroy W. (See Haas, C. F., and Yungman.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abegg & Reinhold Co. Ltd. (See Speckert, Siegfried, assignor.)
Abramsen, Gudrun, administratrix. (See Abramsen, Petter B.)
Abramsen, Petter B., deceased, by G. Abramsen, Dormont, Pa., administratrix. Cross roll apparatus. 2,319,785; May 25.
Acquistapace, Dante, et al. (See Hawkins, Hoke M., assignor.)
Adler, Benjamin H., Chicago, Ill. Sign. 2,319,910; May 25.
Aero Inventions Inc., et al. (See Danforth, Louis D., assignor.)
Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air compressor. 2,319,911; May 25.
Akin, Charles C. (See Danforth, Louis D., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Hjärpe, E. G., and Schüberg, assignors.)
Aktiengesellschaft fuer Technische Studien. (See Keller, Curt, assignor.)
Alien Property Custodian. (See Engel, Walter and N.)
Alien Property Custodian. (See Loder, Johan.)
Alien Property Custodian. (See Yanovsky, Stephan.)
All American Aviation, Inc. (See Ray, James G., assignor.)
Allegheny Ludlum Steel Corporation. (See Browne, Vere B., assignor.)
Allied Chemical & Dye Corporation. (See Kerr, Earl G., assignor.)
Allis-Chalmers Manufacturing Company. (See Tanke, Willard H., assignor.)
American Cyanamid Company. (See Ericks, Walter P., assignor.)
American Liquid Gas Corporation. (See Bodine, Albert G., Jr., assignor.)
American Machine and Metals, Inc. (See Davis, Archibald H., Jr., assignor.)
American Steel and Wire Company of New Jersey, The. (See Brickman, Alan E., assignor.)
American Steel and Wire Company of New Jersey. (See Harris, Arch W., assignor.)
American Steel and Wire Company of New Jersey, The. (See Reardon, Eugene J., assignor.)
Anderson Box Company. (See Ferguson, Kenneth C., assignor.)
Anderson, Jasper E., Saugus, Mass., assignor to General Electric Company. Fusion welding. 2,320,163; May 25.
Anderson, Jasper E., Saugus, Mass., assignor to General Electric Company. Welded assembly. 2,320,164; May 25.
Anderson, Perle J., Portland, N. Y. Cultivator tool. 2,320,024; May 25.
Anderson, William T., Jr., Newark, and H. Laub, Millburn Township, assignors to Hanovia Chemical and Manufacturing Company, Newark, N. J. Electrical discharge device. 2,319,912; May 25.
Andrews, O. B., Company. (See Turner, William E., assignor.)
Ansul Chemical Company of California. (See Snowden, Ward E., assignor.)
Arabol Manufacturing Company, The. (See Lee, W. M., and Erikson, assignors.)
Armour and Company. (See Hoffman, H. D., and Zeigler, assignors.)
Armour and Company. (See Ralston, A. W., and Hoffman, assignors.)
Armstrong Cork Company. (See Powers, Paul G., assignor.)
Arnold, Berel A., assignor to Knight Leather Products Co., Inc., Boston, Mass. Case to hold toilet articles. 2,320,166; May 25.
Arnold, Herrick R., New Castle County, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of formaldehyde. 2,320,253; May 25.
Arrow-Hart & Hegeman Electric Co., The. (See Galt, P. T., Jr., and Schleicher, assignors.)
Art Metal Construction Company. (See Larson, H. W., assignor.)
Atkins, George E., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,320,254; May 25.
Atlantic Research Associates, Inc. (See Atwood, F. C., and Paterek, assignors.)
Atlas Underwear Company, The. (See Ullman, Martin, assignor.)
Atwood, Francis C., Newtonville, and W. Paterek, Brighton, assignors to Atlantic Research Associates, Inc., Newtonville, Mass. Manufacturing protein products. 2,320,165; May 25.

Auto Research Corporation. (See Kocher, Edward H., assignor.)
Autogiro Company of America. (See Pullin, Cyril G., assignor.)
Autoinotive Maintenance Machinery Co. (See Zimmerman, Herman W., assignor.)
Autoxygen, Inc. (See Kokatnur, V. R., and Jacobs, Jr., assignors.)
Avedikian, Souren Z., Baltimore, Md. Producing a stable, complex compound for use as a flour bleaching agent and as a convenient source of nitrogen oxides. 2,320,058; May 25.
Avery, Harold T., Oakland, Calif., assignor to Marchant Calculating Machine Company. Calculating machine. 2,320,025; May 25.
Avery, True M., Glens Falls, assignor to Union Bag & Paper Corporation, Hudson Falls, N. Y. Manufacture of heat sealed bags. 2,320,326; May 25.
Avila, Frank W., Fort Wayne, Ind., assignor to International Harvester Company. Power transmission mechanism. 2,320,116; May 25.
Ayers, Edgar H., Schenectady, N. Y., assignor to General Electric Company. Electric control means. 2,320,117; May 25.
Backus, Thomas, assignor to Fuller Manufacturing Company, Kalamazoo, Mich. Driving mechanism. 2,319,784; May 25.
Bacon, Raymond F., Bronxville, N. Y., and I. Bencowitz, Newgulf, assignors to Texas Gulf Sulphur Company, Houston, Tex. Coating method and material. 2,320,255; May 25.
Bahr, Gustave F., assignor to Casco Products Corporation, Bridgeport, Conn. Vehicle lamp. 2,320,209; May 25.
Bailey, Edmund I., Toledo, Ohio, assignor to Petrolite Corporation, Ltd., Wilmington, Del. Apparatus for treating oil. 2,320,059; May 25.
Bailey, Grant C., Dewey, and J. A. Reid, Bartlesville, Okla., assignors to Phillips Petroleum Company. Polymerization of olefins. 2,320,256; May 25.
Baldwin, Charles C., St. Louis, Mo. Cigarette package and match book holder. 2,320,167; May 25.
Baldwin, Curtis C. (See Dooley, G. W., and Baldwin, Ernest W. and C. C.)
Baldwin, Ernest W. (See Dooley, G. W., and Baldwin, Ernest W. and C. C.)
Bariffi, Herbert F. (See Dunham, G. W., Woodson, and Bariffi.)
Barker, Ira W. (See Smith, Harvey J., assignor.)
Barlow, Blanche B., Los Angeles, and J. D. Haynes, Tustin, Calif., assignors, by mesne assignments, of one-half to F. S. Hollister and one-half to C. H. Breon. Soil treatment and composition therefor. 2,320,060; May 25.
Barnett, Henry E. (See Young, Robert F., assignor.)
Barrett, Edward R., assignor to Gar Wood Industries, Inc., Detroit, Mich. Compound hoist. 2,319,840; May 25.
Bate, J. Warren, Rockford, Ill. Brush. 2,319,841; May 25.
Baumgarten, Paul, assignor to Rudson-Wood Inc., New York, N. Y. Vegetable and fruit parer. 2,320,061; May 25.
Bausch & Lomb Optical Company. (See Stegeman, Raymond F. E., assignor.)
Bausch & Lomb Optical Company. (See Straat, Harold W., assignor.)
Beech Aircraft Corporation. (See Wells, T. A., and Gaty, assignors.)
Beekhuis, Herman A., Jr., Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y. Drying nitrosyl chloride gas. 2,320,257; May 25.
Bell, Millard R., Cuyahoga Falls, and C. S. Stebbins, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for preventing the accumulation of ice. 2,319,968; May 25.
Bell Telephone Laboratories, Incorporated. (See Atkins, George E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bishop, W. M., Depew, Gronros, and Ronci, assignors.)
Bell Telephone Laboratories, Incorporated. (See Bohman, Vincent F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Depew, C., Gronros, and Ronci, assignors.)
Bell Telephone Laboratories, Incorporated. (See Hall, Nathan I., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hight, Stuart C, assignor.)
Bell Telephone Laboratories, Incorporated. (See Holden, W. H. T., Hubbard, Lewis, Malthaner, and Sprague, assignors.)
Bell Telephone Laboratories, Incorporated. (See Hopper, Andrew L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Marrison, Warren A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mathes, Robert C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Wise, Raymond O., assignor.)
Bell Telephone Laboratories, Incorporated. (See Yager, William A., assignor.)
Bencowitz, Isaac. (See Bacon, R. F., and Bencowitz.)
Bender, Lloyd F., Waukesha, Wis. Motorcycle seat. 2,320,210; May 25.
Bendix Aviation Corporation. (See Buxton, James E., assignor.)
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Tractor planter. 2,320,169; May 25.
Benjamin, Bert R., Oak Park, and H. J. Mott, Maywood, Ill., assignors to International Harvester Company. Tractor. 2,320,168; May 25.
Benson, Ronald C., Merchantville, and W. F. Plume, Audubon, N. J., assignors to Philadelphia Gear Works, Inc., Philadelphia, Pa. Valve control. 2,319,842; May 25.
Bentley, Oliver D. H., Norfolk, assignor to B. F. Sturtevant Company, Boston, Mass. Thrust bearing. 2,319,913; May 25.
Berlin, Donovan R., Eggertsville, and W. O. Watson, Kenmore, N. Y., assignors to Curtiss-Wright Corporation. Engine cowling support. 2,319,843; May 25.
Besemer, Paul J., assignor to The Upjohn Company, Kalamazoo, Mich. Bottle labeling machine. 2,319,969; May 25.
Best Foods, Inc., The. (See Borkowski, C. J., and Schille, assignors.)
Binks, Melvin J. (See Bryan, H. L., and Binks.)
Binks, Melvin J., River Forest, assignor to J. H. Keeney & Co., Inc., Chicago, Ill. Bumper switch unit for ball rolling games. 2,319,786; May 25.
Birkenmaier, Theodore, assignor to W. H. Matthews Corporation, St. Louis, Mo. Time-delay switch recloser. 2,320,026; May 25.
Bishop, Walter M., Flushing, N. Y., C. Depew, Oakland, N. J., W. Gronros, New York, and V. L. Ronci, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cushion mounting for electrical apparatus. 2,320,170; May 25.
Black and Decker Manufacturing Company, The. (See Wilhide, Glenn C., assignor.)
Black, Edward L., U. S. Army, Fort Benning, Ga. Sight training picture device. 2,319,787; May 25.
Black, Henry A., Santa Barbara, Calif. Fuel container. 2,319,844; May 25.
Black, Howard C., assignor to Industrial Patents Corporation, Chicago, Ill. Oleaginous material. 2,320,319; May 25.
Blaker, David G., Webb City, Okla., assignor to Phillips Petroleum Company. Hydrocarbon conversion and catalyst therefor. 2,320,118; May 25.
Blanding, William A., Jr., Belding, Mich. Building block. 2,319,914; May 25.
Bliss, E. W., Company. (See Durbin, Stanley H., assignor.)
Bliss, E. W., Company. (See Nash, Leonard W., assignor.)
Bliss, E. W., Company. (See Seidel, A., and Schloz, assignors.)
Blizard, George M., Saint John, New Brunswick, Canada. Fuel feeding apparatus for furnaces. 2,320,062; May 25.
Bloom, George T., Plainfield, and J. G. Burnett, Jersey City, N. J.; said Burnett assignor to said Bloom. Pressure relief device for low pressure vessels. 2,320,211; May 25.
Bloomer, Ward J., Westfield, and W. J. Zahniser, Bayonne, N. J., assignors to The Lummus Company, New York, N. Y. Refining of cottonseed oil. 2,319,970; May 25.
Bocjl Corporation. (See Rindfleisch, Arthur G., assignor.)
Bodine, Albert G., Jr., Burbank, assignor to American Liquid Gas Corporation, Los Angeles, Calif. Full range fuel mixer. 2,319,971; May 25.
Bohman, Vincent F., Astoria, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,320,258; May 25.
Bole, Charles A. (See Ramsay, W. S., and Bole.)
Bolston, Harry M., Revere, Mass. Clamping device for template and stock used in shaping cutting dies. 2,319,915; May 25.
Bolton, Maurice L., Philadelphia, Pa., assignor to U. S. Ring Traveler Co., Providence, R. I. Ring traveler. 2,320,212; May 25.
Bolton, Maurice L., Philadelphia, Pa., assignor to U. S. Ring Traveler Co., Providence, R. I. Ring traveler. 2,320,213; May 25.
Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch operating apparatus. 2,320,171; May 25.
Borkowski, Casimer J., Chicago, and J. L. Schille, Berwyn, Ill., assignors to The Best Foods, Inc., New York, N. Y. Preparation and use of catalyst. 2,320,063; May 25.
Bowers, Frederick M., Chester, Pa. Adjustable glass holder for welders' helmets. 2,320,214; May 25.
Bradberry, Henrietta, Chicago, Ill. Bed rack. 2,320,027; May 25.
Brandon, Richard C. (See Jones, M. C. K., and Brandon.)
Brassell, Bryan, Santa Rosa, N. Mex. Motion transmitting mechanism. 2,320,259; May 25.
Breitenstein, Charles T., assignor to R. T. Moloney, Chicago, Ill. Electric razor. 2,319,916; May 25.
Brenkert, Karl, assignor to Brenkert Light Projection Company, Detroit, Mich. Oil-relieved Geneva movement. 2,320,064; May 25.
Brenkert Light Projection Company. (See Brenkert, Karl, assignor.)
Brennan, Helen E. (See Fowler, Elbert, assignor.)
Brenner, Irving, Bronx, N. Y. Clothes compartment for vehicle seats. 2,320,215; May 25.
Breon, C. H., et al. (See Barlow, B. B., and Haynes, assignors.)
Brewster Aeronautical Corporation. (See Frey, Christopher J., assignor.)
Brewster Aeronautical Corporation. (See Horncastle, Thomas E., assignor.)
Brewster, Percy D., Holmdel, N. J. Converting photographic images into color. 2,320,028; May 25.
Brey, Harold E., Wauwatosa, and H. E. Swanson, assignors to Universal Unit Power Shovel Corporation, West Allis, Milwaukee, Wis. Traction brake and driving mechanism. 2,320,320; May 25.
Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey. Pavement joint. 2,319,972; May 25.
Briscoe, Charles F., Compton, and H. L. Graham, Taft, Calif. Toilet ventilator. 2,320,065; May 25.
Brister, Miller M., New York, N. Y. Freight car. 2,320,216; May 25.
Bristol Company, The. (See Bristol, Franklin B., assignor.)
Bristol, Franklin B., Middlebury, assignor to The Bristol Company, Waterbury, Conn. Self-balancing circuit mechanism. 2,320,066; May 25.
Brockman, Morton S. (See Thompson, J., and Brockman.)
Broderhausen, Loren, Evansville, Ind. Saw attachment for electric drills. 2,319,973; May 25.
Brooke, Frank W., and P. d'H. Dressler, assignors to Swindell-Dressler Corporation, Pittsburgh, Pa. Tunnel kiln. 2,320,172; May 25.
Brown Instrument Company, The. (See Caldwell, John A., assignor.)
Brown, Mark L., Vanceburg, Ky., assignor to L. V. Marks & Sons, Company, Cincinnati, Ohio. Welt type shoe. 2,320,321; May 25.
Browne, Vere B., Brackenridge, Pa., assignor to Allegheny Ludlum Steel Corporation. Columbium-bearing austenitic steel and articles produced therefrom. 2,320,260; May 25.
Bruneau, Jacques F., Hagerstown, Md. Game. 2,319,917; May 25.
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. 9,9-di-(γ aminopropyl)-fluorene. 2,320,029; May 25.
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Ketonic polycarboxylic acids. 2,320,217; May 25.
Bryan, Hubert L., Dallas, Tex., and M. J. Binks, River Forest, Ill. Remote selector and control system. 2,319,788; May 25.
Buckeye Traction Ditcher Company, The. (See Van Voorhis, William G., assignor.)
Buckley, Stuart E., Houston, Tex., assignor to Standard Oil Development Company. Viscosimeter. 2,320,218; May 25.
Buckley, Stuart E., and C. R. Hocott, Houston, Tex., assignors to Standard Oil Development Company. Viscosimeter. 2,320,219; May 25.
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Buffalow, Oscar T., Chattanooga, Tenn. Body massaging machine. 2,320,261; May 25.
Burgess Cellulose Company. (See Schorger, Arlie W., assignor.)
Burks, John T., East Carondelet, Ill. Mechanical wrench. 2,320,119; May 25.
Burman, Gunnar. (See Johnson, Oscar, assignor.)
Burnett, James G. (See Bloom, G. T., and Burnett.)
Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Container. 2,319,974; May 25.
Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Cup dispensing carton. 2,319,975; May 25.
Buxton, James E., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter drive. 2,320,220; May 25.
Caldwell, John A., assignor to The Brown Instrument Company, Philadelphia, Pa. Instrument casing. 2,319,845; May 25.
Calvert, William C., Chicago, Ill., assignor to Wingfoot Corporation, Wilmington, Del. Rubber hydrochloride film. 2,319,918; May 25.
Campbell, Talmage D., Ocala, Fla. Paint can handle and brush wiping attachment. 2,320,262; May 25.
Campbell, William P., Newark, assignor to Hercules Powder Company, Wilmington, Del. Dehydroabietinal and producing. 2,319,976; May 25.

Cape, Arthur T., and A. Gaxiola, Santa Cruz, Calif., assignors to Coast Metals, Inc., Canton, Ohio. Method of forming heat resistant ferrous alloys. 2,319,977; May 25.
Carbide and Carbon Chemicals Corporation. (See Clark, J. W., and Wilson, assignors.)
Carbide and Chemicals Corporation. (See Doolittle, Arthur K., assignor.)
Carborundum Company. (See Kirchner, Henry P., assignor.)
Careaga, Suzanne E., et al. (See Hawkins, Hoke M., assignor.)
Carling Turbine Blower Co. (See Carlson, Axel W., assignor.)
Carlson, Axel W., assignor to Carling Turbine Blower Co., Worcester, Mass. Turbine rotor. 2,319,846; May 25.
Carlson, Ejnar W., Roselle Park, and E. B. Cyphers, Clark Township, Union County, N. J., assignors to Standard Oil Development Company. Soluble cutting oils. 2,320,263; May 25.
Carter Carburetor Corporation. (See Korte, A. C., and Lannert, assignors.)
Casco Products Corporation. (See Bahr, Gustave F., assignor.)
Castor, Wilbur W. (See Groff, C. H., and Castor.)
Caughren, Harry J., Osakis, Minn. Carrier for small game. 2,320,067; May 25.
Celanese Corporation of America. (See Moss, William H., assignor.)
Central Trust Company, The, executor and trustee. (See Pierle, Henry C.)
Chambers, Torrence H., Ardmore, Pa. Television. 2,319,789; May 25.
Chance, A. B., Company. (See Hubbard, David C., assignor.)
Chance, A. B., Company. (See Kerby, Lowell J., assignor.)
Chandler & Price Company, The. (See Rupp, William C., assignor.)
Chapman, Penrose E., Sr., St. Louis, Mo. Wire tensioning device. 2,320,264; May 25.
Chisholm-Ryder Company. (See de Back, William, assignor.)
Chromogen, Incorporated. (See Gáspár, Béla, assignor.)
Chromogen, Incorporated. (See Michaelis, Walter, assignor.)
Chudner, Joseph, Brooklyn, N. Y. Shock absorber. 2,320,221; May 25.
Cislak, Francis E., Indianapolis, and O. D. Cunningham, Speedway City, assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Process of separating 2,4 lutidine and 2,5 lutidine. 2,320,322; May 25.
City Engineering Company, The. (See Wilson, D. I., and Quinn, assignors.)
Clanton, Earl S., Fresno, Calif. Nonslip holder for cake soap. 2,319,847; May 25.
Clark, Jared W., Charleston, W. Va., and A. L. Wilson, Pittsburgh, Pa., assignors to Carbide and Carbon Chemicals Corporation. Preparing branched-chain aliphatic secondary amines. 2,319,848; May 25.
Clark, Lynn J., assignor to Inland Container Corporation, Indianapolis, Ind. Covered shipping and display box. 2,319,919; May 25.
Clerc, Leonard F., Chicago, Ill. Refrigerating apparatus. 2,320,265; May 25.
Coast Metals, Inc. (See Cape, A. T., and Gaxiola, assignor.)
Cochran, Avery M., U. S. Army, Colorado Springs, Colo. Stove. 2,319,790; May 25.
Coes, Loring, Jr., Brookfield, assignor to Norton Company, Worcester, Mass. Abrasives. 2,319,791; May 25.
Coes, Loring, Jr., Brookfield, assignor to Norton Company, Worcester, Mass. Abrasives. 2,319,792; May 25.
Coes, Loring, Jr., Brookfield, assignor to Norton Company, Worcester, Mass. Abrasives. 2,319,793; May 25.
Coes, Loring, Jr., Brookfield, assignor to Norton Company, Worcester, Mass. Abrasives. 2,319,794; May 25.
Coffin, Jack O., Salt Lake City, Utah. Automatic coal stoking machine. 2,319,795; May 25.
Cohen, Charles A., Elizabeth, N. J., assignor to Standard Oil Development Company. Treating corrosive oils. 2,320,267; May 25.
Cohen, Charles A., Elizabeth, N. J., assignor to Standard Oil Development Company. Treating corrosive oils. 2,320,266; May 25.
Collender, Gustave A., Los Angeles, Calif. Road vehicle mounting. 2,319,978; May 25.
Collins, Raymond R., Southport, Conn., and J. A. Gibb, Northport, assignors to The Lummus Company, New York, N. Y. Conveyer. 2,319,979; May 25.
Colonial Radio Corporation. (See Forbes, Henry C., assignor.)
Columbia Broadcasting System, Inc. (See Dyer, John N., assignor.)
Consolidated Quarries Corp. (See Severinghaus, Nelson, assignor.)
Continental Can Company. (See Pearson, Paul E., assignor.)
Continental Optical Company. (See Duckwall, Frank E., assignor.)
Cook, M. B., Company, The. (See Leonard, Charles J., assignor.)
Cooper, Theodore, Trumbull, assignor to International Silver Company, Meriden, Conn. Apparatus for forming characters and designs on silver-plated flatware. 2,319,796; May 25.
Copeland, Charles V., Davenport, Iowa, and F. S. Schrage, Rock Island, Ill., assignors, by mesne assignments, to Joshua Hendy Iron Works, Sunnyville, Calif. Rotary pump. 2,319,776; May 25.
Corning Glass Works. (See Gray, David E., assignor.)
Cotton, Robert L., Holdenville, Okla. Fire hose washer. 2,320,173; May 25.
Coyne, William R. (See Holmes, W. G., Coyne, and Lagaard.)
Crabbe, Lindsay T., assignor to Phoenix Metal Cap Co. Inc., Chicago, Ill. Closure for jars and the like. 2,319,849; May 25.
Cramer, Otto P., San Francisco, Calif. Ventilator. 2,320,268; May 25.
Crebbs, Earl R., San Francisco, Calif. Rewind core and endpiece. 2,320,068; May 25.
Cresswell, Charles T., Montreal, Quebec, and T. W. Harrison, Toronto, Ontario, Canada. Double glazed sash and fastening means therefor. 2,320,069; May 25.
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crowley, John A., Jr. (See Simpson, T. P., Payne, and Crowley, Jr.)
Crupi, Antonio, Brooklyn, N. Y. Swimmer's appliance. 2,320,222; May 25.
Cunningham, Orin D. (See Cislak, F. E., and Cunningham.)
Curtiss-Wright Corporation. (See Berlin, D. R., and Watson, assignors.)
Cutler, Wallace M., Gloucester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening-supplying apparatus. 2,319,797; May 25.
Cyphers, Elmer B. (See Carlson, E. W., and Cyphers.)
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymers of an unsaturated alkyd resin and a poly-(halogenoallyl) ester. 2,319,798; May 25.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymers of an unsaturated alkyd resin and a poly-(1-halogeno-allyl) ester. 2,319,799; May 25.
Dressler, Philip d'H. (See Brooke, F. W., and Dressler.)
Dreyfuss, Henry, New York, N. Y., assignor to Eversharp, Inc., Chicago, Ill. Ornamental tubing. 2,319,802; May 25.
Duckwall, Frank E., assignor to Continental Optical Company, Inc., Indianapolis, Ind. Apparatus and method for producing one-piece multifocal lens blanks and lenses. 2,319,922; May 25.
Dunham, George W., Westport, T. T. Woodson, Fairfield, and H. F. Bariffi, Hamden, Conn., assignors to General Electric Company. Reversible single phase motor. 2,320,176; May 25.
Danforth, Louis D., assignor of one-twelfth to S. R. Smith, two-twelfths to G. C. Lambert, three-twelfths to W. R. Ferguson, four-twelfths to H. A. Irwin, Los Angeles, Calif., and one-sixth to Aero Inventions Inc., Los Vegas, Nev. Diaphragm lock nut. 2,320,030; May 25.
Danworth, Louis D., assignor of one-twelfth to S. R. Smith, two-twelfths to G. C. Lambert, three-twelfths to W. R. Ferguson, and four-twelfths to H. A. Irwin, Los Angeles, Calif. Lock nut including its construction. 2,320,031; May 25.
Danforth, Louis D., assignor to C. C. Akin, Los Angeles, Calif. Lock nut. 2,320,032; May 25.
Darenberg, George W., and D. Shea, Freeport, assignors to Phoenix Novelty Textile Printers, New York, N. Y. Textile printing machine. 2,320,269; May 25.
Datsko, Jack, Los Angeles, Calif. Cigarette holder. 2,319,850; May 25.
Davis, Archibald H., Jr., Rock Island, Ill., assignor to American Machine and Metals, Inc., New York, N. Y. Filling nozzle with automatic shutoff. 2,320,033; May 25.
Davol Rubber Company. (See Raiche, Paul A., assignor.)
De Back, William, assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y. Apparatus for packing foodstuffs in cans. 2,319,900; May 25.
Deere & Company. (See Silver, Walter H., assignor.)
Demers, Isaie J. B., St. Paul, Minn., assignor to John Wood Manufacturing Company, Inc., Conshocken, Pa. Milk can. 2,320,174; May 25.
Dempsey, Henry J., Elizabeth, N. J., assignor to Standard Oil Development Company. Use of bauxite to improve the odor of petrolatum. 2,320,223; May 25.
Dennis, Charles E., Jackson Heights, N. Y., and A. Heinz, Irvington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. System for testing resonant networks. 2,320,175; May 25.
Denton, Jess R., Brevard, N. C., assignor to Ecusta Paper Corporation. Improving the quality of paper. 2,319,800; May 25.
Depew, Charles. (See Bishop, W. M., Depew, Gronros, and Ronci.)

Depew, Charles, Ookland, N. J., W. Gronros, New York, and V. L. Ronci, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,320,120; May 25.
Derham, Philip A., and J. H. Newport, Jr., Rosemont, Pa., assignors to Victor Metal Products Corporation, Brooklyn, N. Y. Combined cap and auxiliary container. 2,320,070; May 25.
Des Jardins, Edmund L., Chicago, Ill. Safety razor. 2,319,980; May 25.
Despard, Victor R., assignor to Pass & Seymour, Inc., Solvay Station, Syracuse, N. Y. Duplex convenience outlet. 2,319,801; May 25.
Devereaux, William C., Detroit, Mich. Latch mechanism. 2,319,851; May 25.
D'Ianni, James D., assignor to Wingfoot Corporation, Akron, Ohio. Method of preparing halogenated carboxylic acid esters. 2,320,034; May 25.
Dispenser Corporation of America. (See Leonard, Ralph N., assignor.)
Dohe, Ernest F., and W. J. Wilson, Omaha, Nebr. Railway truck pedestal structure. 2,319,920; May 25.
Dole Valve Company, The. (See Zelnis, Edward P., assignor.)
Dooley, George W., E. W. and C. C. Baldwin, Ottawa, Kans. Power shovel. 2,319,921; May 25.
Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Coating composition. 2,319,852; May 25.
Doucette, George F. (See Knowlton, E. R., Doucette, and Eager.)
Dough-King, Inc. (See Holmes, W. G., Coyne, and Lagaard, assignors.)
Dow Chemical Company, The. (See Wiley, Ralph M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Arnold, Herrick R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hanford, W. E., and Wiley, assignors.)
Du Pont, E. I., de Nemours & Company. (See Leekley, Robert M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Mackey, Bill H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Olson, Carl M., assignor.)
Durbin, Stanley H., assignor to E. W. Bliss Company, Brooklyn, N. Y. Mechanism for operating switches. 2,320,121; May 25.
Durham, Hobart N., Manhasset, N. Y., assignor to The Goss Printing Press Company, Chicago, Ill. Printing method and means. 2,319,853; May 25.
Dwyer, Frank W., Chicago, Ill. Draft gauge. 2,320,122; May 25.
Dyer, John N., Stamford, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Television. 2,319,803; May 25.
Dyer, John N., Stamford, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Television. 2,319,804; May 25.
Dyer, John N., Stamford, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Television. 2,319,805; May 25.
Eager, John W. (See Knowlton, E. R., Doucette, and Eager.)
Ecusta Paper Corporation. (See Denton, Jesse R., assignor.)
Edwards, Donald V., Montclair, N. J., assignor to Electrons, Inc. Rectifier circuit. 2,320,224; May 25.
Electrolux Corporation. (See Hansson, Erik O. H., assignor.)
Electrons, Inc. (See Edwards, Donald V., assignor.)
Elling, William E., Metuchen, N. J. Gravity davit. 2,319,854; May 25.
Emch, Arnold F., Chicago, Ill. Game. 2,320,270; May 25.
Emulsions Process Corporation. (See Torrington, William P., assignor.)
Engel, Niels. (See Engel, Walter and N.)
Engel, Walter and N., Copenhagen, Denmark; vested in the Alien Property Custodian. Reaction method. 2,320,206; May 25.
Ericks, Walter P., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Condensation products of amidines with alkylene oxides. 2,320,225; May 25.
Erikson, Carl R. (See Lee, W. M., and Erikson.)
Erland af Kleen, Nils, Stockholm, Sweden. Absorption or adsorption refrigerating apparatus. 2,319,806; May 25.
Etten, Nicholas L., Waterloo, Iowa. Clothes wringer structure. 2,320,226; May 25.
Everitt, David C., Milwaukee, Wis. Edge to edge sewing machine attachments. 2,320,271; May 25.
Eversharp, Inc. (See Dreyfuss, Henry, assignor.)
Eversharp, Inc. (See Moore, Fred P., assignor.)
Farnham, Ralph A. (See Wood, G. S., and Farnham.)
Farnham, Sherman B., Schenectady, N. Y., assignor to General Electric Company. Protection of alternating current electric systems. 2,320,123; May 25.
Farrell, John D., assignor to The Foote Company, Inc., Nunda, N. Y. Tower unit for concrete mixers and the like. 2,319,807; May 25.
Ferguson, Kenneth C., assignor to Anderson Box Company, Indianapolis, Ind. Complete stickless stapleless chick box. 2,319,924; May 25.
Ferguson, W. Reid, et al. (See Danforth, Louis D., assignor.)
Fernholz, Erhard, Princeton, and H. E. Stavely, Highland Park, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Sterol derivatives and producing same. 2,319,808; May 25.
Ferrex Corporation. (See Frothingham, Donald M., assignor.)
Fibre-Metal Products Company, The. (See Maillart, Edmond B., assignor.)
Finnell System, Inc. (See Finnell, Walter S., assignor.)
Finnell, Walter S., Elkhart, Ind., assignor to Finnell System Inc. Pad. 2,319,923; May 25.
Fiske, Jonathan P. B., Newton, Mass. Apparatus for making flame coloring sticks. 2,319,778; May 25.
Fiske, Jonathan P. B., Newton, Mass. Flame coloring material. 2,320,330; May 25.
Fitzgerald, James H., Westfield, N. J. Pump for concrete and the like. 2,319,981; May 25.
Flanagan, John E., Chicago, Ill. Automatic bowling alley mechanism. 2,319,925; May 25.
Foote Company, The. (See Farrell, John D., assignor.)
Forbes, Henry C., Eggertsville, assignor to Colonial Radio Corporation, Buffalo, N. Y. Radio receiver for horizontally polarized waves. 2,320,124; May 25.
Ford Motor Company. (See Kramer, Clarence F., assignor.)
Forsberg, Carl T., New York, N. Y. Carrier and system for launching motor torpedo boats. 2,319,855; May 25.
Fowler, Elbert, East Cleveland, assignor of one-half to Helen Eaton Brennan, Cleveland, Ohio. Rotary pump. 2,319,856; May 25.
Fralinger, Charles A., East Chicago, Ind. Door. 2,319,982; May 25.
Francis, Carleton S., Jr., Chestnut Hill, Pa., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Making and treating textiles and the products produced. 2,319,809; May 25.
Frede, Charles F. (See Schleicher, E. J., and Frede.)
Fredericksburg Implement Co. (See Kott, Louis, assignor.)
Frey, Christopher J., Forest Hills, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Sorting apparatus. 2,320,227; May 25.
Frey, Delton R., East Cleveland, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio. Lubricant. 2,320,228; May 25.
Fridén, John H., Maplewood, assignor to The Sun Tube Corporation, Hillside, N. J. Notching machine and method. 2,320,272; May 25.
Frost, Orley R., Port Huron, Mich. Milking apparatus. 2,320,229; May 25.
Frothingham, Donald M., Noroton, Conn., assignor to Ferrex Corporation, New York, N. Y. Apparatus for extruding metals. 2,320,071; May 25.
Fuller Manufacturing Company. (See Backus, Thomas, assignor.)
Furman, Sol, Brooklyn, N. Y. Convertible skirt, cape, and umbrella device. 2,319,983; May 25.
G & W Electric Specialty Co. (See Papp, Andrew E., assignor.)
Galt, Paul T., Jr., Hartford, and H. E. Schleicher, West Hartford, assignors to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn. Alternating switch. 2,319,810; May 25.
Gáspár, Béla, Hollywood, Calif., assignor to Chromogen, Incorporated. Photographic material and process for producing the same. 2,319,984; May 25.
Gaty, John P. (See Wells, T. A., and Gaty.)
Gaxiola, Antone. (See Cape, A. T., and Gaxiola.)
Gaynor, Edwin G., Fairfield, assignor to The Wheeler Insulated Wire Company, Bridgeport, Conn. Two button switch. 2,320,072; May 25.
Gemmer Manufacturing Company. (See Pulleyblank, Harper E., assignor.)
Genasci, Clarence, Menlo Park, Calif. Drum cleaning machine. 2,319,985; May 25.
General Cable Corporation. (See Szilard, Julius A., assignor.)
General Electric Company. (See Anderson, Jasper E., assignor.)
General Electric Company. (See Ayers, Edgar H., assignor.)
General Electric Company. (See D'Alelio, Gaetano F., assignor.)
General Electric Company. (See Dunham, G. W., Woodson and Bariffi, assignor.)
General Electric Company. (See Farnham, Sherman B., assignor.)
General Electric Company. (See Lohausen, Karl-August, assignor.)
General Electric Company. (See Olsen, Ronald W., assignor.)
General Electric Company. (See Pellett, Fred G., assignor.)
General Electric Company. (See Seeley, Harold T., assignor.)
General Electric Company. (See Thorson, Harry L., assignor.)
General Electric Company. (See Würth, Wilhelm, assignor.)

General Mills, Inc. (See James, Thomas R., assignor.)
General Motors Corporation. (See Gould, Richard E., assignor.)
General Motors Corporation. (See Kaufman, Daniel L., assignor.)
General Motors Corporation. (See McCormick, Francis H., assignor.)
General Motors Corporation. (See Stickel, Carl A., assignor.)
General Steel Castings Corporation. (See Schleicher, E. J., and Frede, assignors.)
George, Roscoe H., and W. M. Hesselberth, West Lafayette, Ind., assignors to Radio Corporation of America. Cathode ray tube. 2,319,811; May 25.
Gibb, John A. (See Collins, R. R., and Gibb.)
Gibb, John A., New Rochelle, assignor to The Lummus Company, New York, N. Y. Bubble deck. 2,320,073; May 25.
Gilman Fanfold Corporation. (See Hope, William H., Jr., assignor.)
Glisson, William Baxter, Trenton, Tenn. Washing machine. 2,320,230; May 25.
Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
Gohr, Edwin J., Summit, W. I. Thompson and H. Z. Martin, Elizabeth, N. J., assignors to Standard Oil Development Company. Regeneration of solid contact material. 2,320,273; May 25.
Golden, Abraham H., and C. Ledin, assignors to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock retainer. 2,320,177; May 25.
Goldmerstein, Isaac, New York, N. Y. Heat saving shield for windows. 2,320,125; May 25.
Goldstein, Samuel, New York, N. Y. Pressing machine. 2,320,178; May 25.
Golnick, John, Richmond, Va. Body and fender tool. 2,320,074; May 25.
Goodman Manufacturing Company. (See McCullough, William T., assignor.)
Goodrich, B. F., Company, The. (See Bell, M. R., and Stebbins, assignors.)
Goodrich, B. F., Company, The. (See Spicer, Alvin W., assignor.)
Goodrich, B. F., Company, The. (See Young, Harvey L., assignor.)
Gorin, Everett, Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Conversion of normally gaseous hydrocarbons. 2,320,274; May 25.
Goss Printing Press Company, The. (See Durham, Hobart N., assignor.)
Gould, Richard E., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,320,035; May 25.
Grace, Bruce R., Auckland, New Zealand. Rangefinder for measuring and indicating the distance between two points. 2,320,075; May 25.
Graham, Harvey L. (See Briscoe, C. F., and Graham.)
Gram, Carl F., Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Apparatus for treating and drying thread. 2,319,812; May 25.
Gray, David E., assignor to Corning Glass Works, Corning, N. Y. Roof and roofing material. 2,319,857; May 25.
Gray, Richard B., Rensselaer, N. Y. Sphygmomanometer cuff or band. 2,320,179; May 25.
Groff, Charles H., Crafton, and W. W. Castor, Mount Lebanon, Pa., assignors to Stoner-Mudge, Inc. Preparation of coating compound from drying oil and phenol-aldehyde resins. 2,320,126; May 25.
Gronros, Warren. (See Depew, C., Gronros, and Ronci.)
Gronros, Warren. (See Bishop, W. M., Depew, Gronros, and Ronci.)
Grosse, Aristid V., Bronxville, N. Y., and J. M. Mavity, assignors to Universal Oil Products Company, Chicago, Ill. Separation of polynuclear from mononuclear aromatics. 2,319,813; May 25.
Grossman Music Company. (See Thompson, Josephus, assignor.)
Grossman Music Company. (See Thompson, J., and Brockman, assignors.)
Grout, Perley F., Wakefield, Mass. Totalizer. 2,320,275; May 25.
Grow, Harlow B., Freeport, N. Y. Controlling combustion engines. 2,319,858; May 25.
Grumke, Earl W. (See Kirby, J. N., and Grumke.)
Grunberg, George, New York, N. Y., assignor to The G. G. Patent Company, Cincinnati, Ohio. Bottle stopper with applicator extension. 2,320,323; May 25.
Gulf Oil Corporation. (See Ostergaard, Povl, assignor.)
Gulf Research & Development Company. (See Lutz, W. A., and Pool, assignors.)
Gussack, Nathan A., New York, N. Y. Slide drawer construction. 2,320,276; May 25.
Haas, Charles J., New York, N. Y. Renewable cartridge fuse. 2,320,231; May 25.
Hachmuth, Karl H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbons. 2,320,127; May 25.
Hale, Andrew, Akron, Ohio. Process and apparatus for the preparation of rubber compounds. 2,319,859; May 25.
Hall, David G., Newport, England. Appliance for mixing and distributing liquid disinfectants or other fluids. 2,320,128; May 25.
Hall, Jesse P., Bartow, Fla., assignor to Industrial Patents Corporation, Chicago, Ill. Vibrating screen. 2,319,901; May 25.
Hall, Nathan I., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selecting system. 2,320,076; May 25.
Hancock Oil Company of California. (See Hancock, William T., assignor.)
Hancock, William T., assignor to Hancock Oil Company of California, Long Beach, Calif. Cracking of light petroleum stocks. 2,319,926; May 25.
Hanford, William E., and R. H. Wiley, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making 12-ketostearamide. 2,320,232; May 25.
Hann, William E., Detroit, Mich. Radio aerial. 2,319,860; May 25.
Hanovia Chemical and Manufacturing Company. (See Anderson, W. T., Jr., and Laub, assignors.)
Hansen, Elbin C., Los Angeles, Calif. Ant poison container. 2,320,077; May 25.
Hanson, Curtis O., Berkeley, Calif. Fork. 2,319,986; May 25.
Hansson, Erik Oskar H., Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del. Suction nozzle. 2,319,927; May 25.
Harmon, Robert R., Charlottesville, Va., assignor to Peabody Engineering Corporation, New York, N. Y. Gas and liquid contact apparatus. 2,319,814; May 25.
Harpootlian, Carnig A., assignor to Modern Accessories Inc., New York, N. Y. Interchangeable covering member. 2,320,078; May 25.
Harris, Arch W., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Metal coating. 2,320,129; May 25.
Harris, Frank O., Minneapolis, Minn. Guard for grinding wheels. 2,320,130; May 25.
Harris, Roy E., San Jose, Calif. Producing natural fruit juices and of eliminating cannery waste. 2,320,036; May 25.
Harrison, Horace C., Augusta, Ga. Paper bag holder. 2,320,233; May 25.
Harrison, Thomas W. (See Cresswell, C. T., and Harrison.)
Harshberger, Russell P., Chicago, Ill. Razor. 2,319,815; May 25.
Hart, Harold W., Glendale, Calif. Drinking cup for fowl. 2,319,928; May 25.
Hartung, Walter H., and N. Levin, Baltimore, Md., assignors to Sharp & Dohme, Incorporated, Philadelphia, Pa. Aroyl formhydroximic acid halides and making them. 2,320,234; May 25.
Hartwig, Arthur H., Michigan City, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Center sill turnover fixture. 2,320,079; May 25.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Production of refined solvents. 2,319,987; May 25.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Production of solvents. 2,319,988; May 25.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Production of solvents. 2,319,989; May 25.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Production of solvents. 2,319,990; May 25.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Production of solvents. 2,319,991; May 25.
Hawaiian Pineapple Company, Limited. (See Stanley, Albert E., assignor.)
Hawkins, Hoke M., Los Alamos, assignor of one-third to G. M. Scott, one-tenth to D. Acquistapace, Santa Maria, and five per cent to S. E. Careaga, Los Alamos, Calif. Cigarette extinguisher and ash tray. 2,319,861; May 25.
Haynes, Joseph D. (See Barlow, B. B., and Haynes.)
Heald, Eugene H., Jr., Bellevue, Pa. Rotary steel rail base stop clip. 2,319,862; May 25.
Heidenreich, Alfredo, Buenos Aires, Argentina. Folding boat. 2,320,180; May 25.
Heinz, Alfred. (See Dennis, C. E., and Heinz.)
Helmer, Oscar M., assignor to Eli Lilly and Company, Indianapolis, Ind. Therapeutic pressor composition and preparing it. 2,319,902; May 25.
Hemphill Company. (See Smith, William L., Jr., assignor.)
Hendy, Joshua, Iron Works. (See Copeland, C. V., and Schrage, assignors.)
Hentrich, Winfrid, Dusseldorf-Reisholz, A. Kirstahler, Dessau in Anhalt, and F. Schlegel, Dusseldorf, Germany, assignors, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland. Production of capillary active agents. 2,320,181; May 25.
Hercules Powder Company. (See Campbell, William P., assignor.)
Hercules Powder Company. (See Hogg, George F., assignor.)

Hercules Powder Company. (See Speicher, John K., assignor.)
Hesselberth, Wilfred M. (See George, R. H., and Hesselberth.)
Hey, Henry W. (See Hill, E. G., and Hey.)
Hight, Stuart C., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric crystal element. 2,320,080; May 25.
Hight, Stuart C., South Ohange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric crystal apparatus. 2,320,131; May 25.
Hill Engineering Corporation. (See Hill, E. G., and Hey, assignors.)
Hill, Edward G., and H. W. Hey, assignors to Hill Engineering Corporation, Richmond, Va. Clutch control mechanism for motor vehicles. 2,320,182; May 25.
Hjarpe, Eric G., and E. B. Schuberg, assignors to Aktiebolaget Svenska Kullagerfabriken, Goteberg, Sweden. Feeding device for machine tools. 2,320,235; May 25.
Hocott, Claude R. (See Buckley, S. E., and Hocott.)
Hoe, R. & Co. (See Huck, William F., assignor.)
Hoffman, Everett J. (See Ralston, A. W., and Hoffman.)
Hoffman, Harold D., Park Ridge, and A. H. Zeigler, Evanston, assignors to Armour and Company, Chicago, Ill. Treating natural oils and fats. 2,319,929; May 25.
Hoffman Specialty Company. (See Simpson, William K., assignor.)
Hoffmann, Victor A., Harvey, Ill. Flush tank. 2,320,132; May 25.
Hogg, George F., Chicago, Ill., assignor to Hercules Powder Company, Wilmington, Del. Polishing composition. 2,320,236; May 25.
Holden, William H. T., Woodside, N. Y., F. A. Hubbard, Maplewood, N. J., B. F. Lewis, Bayside, W. A. Malthaner, New York, N. Y., and V. G. Sprague, Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. 2,320,081; May 25.
Hollister, F. S., et al. (See Barlow, B. B., and Haynes, assignors.)
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom for weaving ladder tape. 2,319,863; May 25.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tension for shuttles. 2,319,864; May 25.
Holmes, Walter G., W. R. Coyne, and A. S. T. Lagaard, assignors to Dough-King, Inc., Minneapolis, Minn. Doughnut machine. 2,320,037; May 25.
Homoelle, Frank H., London, Ohio. Overalls and other garments. 2,319,930; May 25.
Hope, William H., Jr., Lewiston, assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y. Carbon control for writing machines. 2,320,038; May 25.
Hopper, Andrew L., River Edge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage regulator. 2,320,237; May 25.
Horncastle, Thomas E., Woodside, Long Island, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Aircraft gun and gunner's seat mount. 2,320,238; May 25.
Horwitz, Harold H., assignor to R. G. Horwitz, Chicago, Ill. Dishwasher. 2,320,133; May 25.
Horwitz, Rose G. (See Horwitz, Harold H., assignor.)
Houdaille-Hershey Corporation. (See Jandus, Herbert S., assignor.)
Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Operating tool for high tension electric lines. 2,319,992; May 25.
Hubbard, Francis A. (See Holden, W. H. T., Hubbard, Lewis, Malthaner, and Sprague.)
Huck, William F., Richmond Hill, assignor to R. Hoe & Co., Inc., New York, N. Y. Plate clamp for securing and positioning printing plates on printing cylinders. 2,320,239; May 25.
Huddle, Edwin F., Elmwood Park, Ill., assignor to International Harvester Company. Harvester. 2,320,134; May 25.
Huey, Harold I., Saylesville, and W. W. Russell, East Providence, assignors to Sayles Finishing Plants, Inc., Saylesville, R. I. Producing patterned cellulosic fabric. 2,319,903; May 25.
Hull, Charles J. (See Osborne, F. H., and Hull.)
Hyman, Benjamin M., Moline, Ill., assignor to International Harvester Company. Corn picker. 2,320,135; May 25.
Illmer, Louis, and V. R. Pallas, Cortland, N. Y., said Pallas, assignor to Leota T. Pallas. Grinder machine for strip stock or the like. 2,320,142; May 25.
Industrial Patents Corporation. (See Black, Howard C., assignor.)
Industrial Patents Corporation. (See Hall, Jesse P., assignor.)
Industrial Patents Corporation. (See Walter, Charles T., assignor.)
Inland Container Corporation. (See Clark, Lynn J., assignor.)
International Harvester Company. (See Avila, Frank W., assignor.)
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Benjamin, B. R., and Mott, assignors.)
International Harvester Company. (See Huddle, Edwin F., assignor.)
International Harvester Company. (See Hyman, Benjamin M., assignor.)
International Harvester Company. (See Lindgren, A. C., and Mott, assignors.)
International Harvester Company. (See McNamara, Gordon G., Jr., assignor.)
International Harvester Company. (See Mott, Carl W., assignor.)
International Paper Company. (See Wood, G. S., and Farnham, assignors.)
International Silver Company. (See Cooper, Theodore, assignor.)
Ireland, Murray, assignor to McGraw Electric Company, Elgin, Ill. Shock absorber. 2,319,997; May 25.
Irwin, Henry A., et al. (See Danforth, Louis D., assignor.)
Jacobs, Henry R., Evanston, Ill. Measuring instrument. 2,319,932; May 25.
Jacobs, Joseph J., Jr. (See Kokatnur, V. R., and Jacobs.)
Jaecker, John H., Massillon, Ohio. Wire grinder. 2,319,998; May 25.
James, Thomas R., Minneapolis, Minn., assignor to General Mills, Inc. Device for spraying loose material. 2,319,865; May 25.
Jandus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Automobile wheel locking assembly. 2,319,931; May 25.
Janiszewski, Kasimir, Milwaukee, Wis. Die set assembly. 2,320,240; May 25.
Jaros, Lawrence, assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Gas range burner. 2,319,866; May 25.
Jasco, Incorporated. (See Thomas, R. M., and Sparks, assignors.)
Jasco, Incorporated. (See Thomas, R. M., Lightbown, and Sparks, assignors.)
Jeffrey Manufacturing Company, The. (See Patterson, Harry R., assignor.)
Jeffrey Manufacturing Company, The. (See Saville, Arthur Y., assignor.)
Jenewein, Agnes, and H. Spath, New York, N. Y. Resilient tire. 2,320,331.
Jenkins, Vance N., Palos Verdes Estates, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricating oil composition. 2,320,241; May 25.
Jennings, Richard V., Ann Arbor, Mich. Sailboat. 2,319,999; May 25.
Jobert, Arthur H., assignor to The New Britain Machine Company, New Britain, Conn. Automatic stocking means for bar machines. 2,320,039; May 25.
Johnsen, Bjornulf, Summit, N. J. Fluid dispensing device. 2,319,867; May 25.
Johnson, Albin S., Ironwood, Mich. Package. 2,320,143; May 25.
Johnson, Elsa M., administratrix. (See Johnson, Oscar.)
Johnson, Eric, Brodhead, Wis. Auxiliary ladder leg. 2,320,144; May 25.
Johnson, Oscar, deceased, by E. M. Johnson, Bayside, Long Island, administratrix, assignor of three-eighths to G. Burman, New York, N. Y. Wrench. 2,320,083; May 25.
Johnson Service Company. (See Otto, Carl A., assignor.)
Johnston, John, Jersey City, N. J. Nontilting fifth wheel. 2,320,278; May 25.
Jones, Minor C. K., Bound Brook, and R. C. Brandon, Elizabeth, N. J., assignors to Standard Oil Development Company. Sweetening petroleum distillates. 2,320,277; May 25.
Juliot, Joseph, assignor to Northern Wisconsin Manufacturing Co., Pepin, Wis. Harrow. 2,320,000; May 25.
Jundt, George A., Chicago, Ill. Can holder and dispenser. 2,320,084; May 25.
Jungmann, Martin, New York, N. Y. Orthopaedic device. 2,320,183; May 25.
Kalusdian, Varton M., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Detergent composition. 2,320,279; May 25.
Kalusdian, Varton M., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Detergent and sterilizing composition. 2,320,280; May 25.
Kalusdian, Varton M., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Cleaning rugs. 2,320,281; May 25.
Kamlet, Jonas, Brooklyn, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind. Diagnostic compositions for aminoarylsulphonamides. 2,320,282; May 25.
Kammerer, Archer W., Fullerton, Calif. Well drilling bit. 2,320,136; May 25.
Kammerer, Archer W., Fullerton, Calif. Rotary drill bit. 2,320,137; May 25.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer index assembly. 2,320,324; May 25.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Indexing device for wringers. 2,320,325; May 25.
Kaufman, Daniel L., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,319,993; May 25.
Keeney, J. H., & Co. (See Binks, Melvin J., assignor.)
Keller, Curt, assignor to Aktiengesellschaft fuer Technische Studien, Zurich, Switzerland. Overload working method for thermal power plants. 2,319,995; May 25.

Kellogg, M. W., Co., The. (See Layng, E. T., and Rubin, assignors.)
Kellogg, M. W., Company, The. (See Sellmeyer, Bernardus, assignor.)
Kerby, Lowell J., Owosso, Mich., assignor to A. B. Chance Company, Centralia, Mo. Tool for applying armor to transmission line conductors. 2,319,996; May 25.
Kerr, Earl G., Leonia, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation., Process of making adhesive tapes. 2,319,933; May 25.
Ketchum, William R., Phoenix, Ariz. Refining and preserving citrus fruit juices. 2,319,994; May 25.
Kidder, Willie G., Los Angeles, Calif. Slenderizing, non-ride-up garment. 2,319,779; May 25.
Killaire, Frederick, Windsor, Ontario, Canada, assignor to Northern Engineering Works, Detroit, Mich. Control unit. 2,319,868; May 25.
Kirby, Julian N., and E. W. Grumke, assignors to St. Paul Machinery Manufacturing Company, St. Paul, Minn. Drum cleaning device for carving machine structures. 2,320,138; May 25.
Kirchner, Henry P., assignor to Carborundum Company, Niagara Falls, N. Y. Flexible abrasive article. 2,320,139; May 25.
Kirstahler, Alfred. (See Hentrich, W., Kirstahler, and Schiegel.)
Knight Leather Products Co. (See Arnold, Berel A., assignor.)
Knowlton, Edward R., Rockport, G. F. Doucette, Gloucester, and J. W. Eager, Fitchburg, Mass. Sea moss harvesting apparatus. 2,320,283; May 25.
Kocher, Edward H., Boonton, N. J., assignor to Auto Research Corporation. Lubrication. 2,320,140; May 25.
Kokatnur, Vaman R., Beechhurst, and J. J. Jacobs, Jr., Brooklyn, assignors to Autoxygen, Inc., New York, N. Y. Purifying sulphuric acid mixtures. 2,320,242; May 25.
Korte, Alfred C., and K. Lannert, assignors to Carter Carburetor Corporation, St. Louis, Mo. Electric fuel pump. 2,319,944; May 25.
Kott, Louis, assignor to Fredericksburg Implement Co., Fredericksburg, Tex. Plow hitch. 2,320,141; May 25.
Kramer, Clarence P., Birmingham, assignor to Ford Motor Company, Dearborn, Mich. Windshield. 2,319,869; May 25.
Kramer, Fay S., Long Island City, N. Y. Game board. 2,320,184; May 25.
Krebs, Robert W., and E. W. Nicholson, Baton Rouge, La., assignors to Standard Oil Development Company. Catalytic conversion. 2,320,284; May 25.
Kuehnel, William J., Sag Harbor, assignor of one-half to J. G. G. Merrow, New York, N. Y. Knitting machine. 2,320,285; May 25.
Kupka, Edward, Buckley, Wash. Chain saw. 2,320,082; May 25.
La Due, Harry J., Duluth, Minn. Target fish. 2,320,145; May 25.
Lagaard, Alexander S. T. (See Holmes, W. G., Coyne, and Lagaard.)
Lamb, Anthony E., Roselle Park, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Photoelectric cell. 2,320,185; May 25.
Lambert Brake Corporation, The. (See Lambert, Homer T., assignor.)
Lambert, G. C., et al. (See Danforth, Louis, D., assignor.)
Lambert, Homer T., assignor to The Lambert Brake Corporation, St. Joseph, Mich. Brake construction and adjusting means therefor. 2,320,286; May 25.
Land, Edwin H., Boston, Mass., assignor to Polaroid Corporation, Dover, Del. Light polarizer and manufacture. 2,319,816; May 25.
Landis, Henry N., assignor to La Salle Steel Company, Chicago, Ill. Steel product and the manufacture thereof. 2,320,040; May 25.
Lannert, Kenneth. (See Korte, A. C., and Lannert.)
Larsen, Sigrid T., Minneapolis, Minn. Boat bailer. 2,319,870; May 25.
Larson, Harry W., assignor to Art Metal Construction Company, Jamestown, N. Y. Cover for elevator door hanger mechanism. 2,320,186; May 25.
La Salle Steel Company. (See Landis, Henry N., assignor.)
Latta Syndicate Limited. (See Tull, Alan G., assignor.)
Laub, Hans. (See Anderson, W. T., Jr., and Laub.)
Lawler, William J., assignor of one-half to W. R. McCormick, Milwaukee, Wis. Flush tank. 2,320,187; May 25.
Lawson Machine and Tool Co. (See Walker, Ralph H., assignor.)
Layng, Edwin T., and L. C. Rubin, assignors to The M. W. Kellogg Co., Jersey City, N. J. Aromatization. 2,320,147; May 25.
Leach, Ralph W. E. (See Ritchie, Bradford S., assignor.)
Leake, John B., Maywood, Ill. Safety means for aircraft. 2,320,146; May 25.
Le Blond, R. K., Machine Tool Company, The. (See Pierle, Henry C., assignor.)
Ledin, Charles. (See Golden, A. H., and Ledin.)
LeDuc, Marc, Antioch, Calif. Production of a metarsenite. 2,319,777; May 25.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Truck bolster suspension. 2,320,085; May 25.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Railway truck and brake mechanism therefor. 2,320,086; May 25.
Lee, William M., Kew Gardens, and C. R. Erikson, assignor to The Arabol Manufacturing Company, New York, N. Y. Chemical composition. 2,320,087; May 25.
Leekley, Robert M., Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Water-alcohol solutions of amino acid-diamine-dibasic acid interpolymers. 2,320,088; May 25.
Leonard, Charles J., assignor to The M. B. Cook Company, Chicago, Ill. Eraser guard. 2,319,871; May 25.
Leonard, Ralph N., Crystal Lake, assignor to Dispenser Corporation of America, Chicago, Ill. Receptacle for empty bottles. 2,319,872; May 25.
Levin, Nathan. (See Hartung, W. H., and Levin.)
Lewis, Benjamin F. (See Holden, W. H. T., Hubbard, Lewis, Malthaner, and Sprague.)
Lichty, Joy G., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Acyl acrylamide and its preparation. 2,320,089; May 25.
Lichty, Joy G., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Diacyl acrylamide and its preparation. 2,320,090; May 25.
Lieber, Eugene, Linden and L. A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating oil. 2,320,287; May 25.
Lightbown, Irving E. (See Thomas, R. M., Lightbown and Sparks.)
Lilly, Eli, and Company. (See Helmer, Oscar M., assignor.)
Lindgren, Alexus C., Chicago, and C. W. Mott, La Grange, Ill., assignors to International Harvester Company. Tractor power lifting arrangement for cultivators. 2,320,148; May 25.
Linz, William W., Chicago, Ill. Resilient body. 2,319,873; May 25.
Lockheed Aircraft Corporation. (See Price, Nathan C., assignor.)
Lockridge, William P., administrator. (See Loughridge, Matthew H.)
Loder, Johan, Wassenaar, Netherlands; vested in the Alien Property Custodian. Price computing and indicating mechanism. 2,320,091; May 25.
Lohausen, Karl-August, Hennigsdorf, Krs. Osthaveland, Germany, assignor to General Electric Company. Producer of protective gases for the heat treatment of metals. 2,320,149; May 25.
Lohrman, William P., New Castle, Pa. Metal coating machine. 2,319,817; May 25.
Lone Star Gas Company. (See Martin, James W., assignor.)
Lopez-Henriquez, Miguel, New York, N. Y. Projector. 2,320,188; May 25.
Loughridge, Matthew H., Bogota, N. J., deceased; William R. Lockridge, administrator. Code selective apparatus. 2,320,150; May 25.
Lovell Manufacturing Company. (See Kauffman, Walter L., II, assignor.)
Lower, Nathan M., Erie, Pa. Automatic stoker. 2,319,935; May 25.
Lubri-Zol Corporation, The. (See Frey, Delton R., assignor.)
Lummus Company, The. (See Bloomer, W. J., and Zahniser, assignors.)
Lummus Company, The. (See Collins, R. R., and Gibb, assignors.)
Lummus Company, The. (See Gibb, John A., assignor.)
Lundvall, John S., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Floor structure for railroad cars. 2,320,001; May 25.
Lutz, William A., Oakmont, and J. W. Pool, Akron, Ohio, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Petroleum lubricating jelly. 2,320,002; May 25.
Lyon, George A., Allenhurst, N. J., assignor to Lyon Incorporated, Detroit, Mich. Fender scuff plate. 2,319,936; May 25.
Lyon Incorporated. (See Lyon, George A., assignor.)
Mackey, Bill H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Smokeless powder composition. 2,320,243; May 25.
Madan, Edward K., Maplewood, N. J. Curtain hanger. 2,320,003; May 25.
Maillart, Edmond B., Media, assignor to The Fibre-Metal Products Company, Chester, Pa. Adjustable headgear connection for helmets. 2,320,244; May 25.
Malthaner, William A. (See Holden, W. H. T., Hubbard, Lewis, Malthaner, and Sprague.)
Marchant Calculating Machine Company. (See Avery, Harold T., assignor.)
Marchant, Guy O., et al. (See Walker, Jay P., assignor.)
Margolin, Meyer, Elgin, Ill. Resilient insole. 2,319,818; May 25.
Margolin, Nathan G., Brooklyn, N. Y., and W. P. Wells, Nutley, N. J. Life raft. 2,320,288; May 25.
Marin, Louis H. (See Marinsky, Davis, assignor.)
Marinsky, Davis, assignor, by mesne assignments, of one-half to said D. Marinsky and one-half to L. H. Marin, Bronx, N. Y. Tape construction for separable fasteners. 2,319,874; May 25.

Markey, Roscoe I., East Orange, assignor to Pollak Manufacturing Company, Arlington, N. J. Joint for exhaust pipes. 2,319,939; May 25.
Markins, Obert D., Harrisonville, Ohio. Poultry restraining device. 2,319,938; May 25.
Marks, L. V., & Sons Company. (See Brown, Mark L., assignor.)
Marrison, Warren A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gravitational force measuring apparatus. 2,319,940; May 25.
Martin, Homer Z. (See Gohr, E. J., Thompson, and Martin.)
Martin, James W., assignor to Lone Star Gas Company, Dallas, Tex. Liquefied gas vaporizer. 2,319,819; May 25.
Marx, Frank A., Bridgetown, assignor to The Richardson Taylor-Globe Corporation, Cincinnati, Ohio. Carton. 2,320,289; May 25.
Mathes, Robert C., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching contact. 2,319,937; May 25.
Mathieson Alkali Works, Inc., The. (See Kalusdian, Varton M., assignor.)
Matthews, W. N. Corporation. (See Birkenmaier, Theodore, assignor.)
Maulsby, Leon K., and J. A. McGrann, San Antonio, Tex.; said McGrann assignor to said Maulsby. Nut-cracking machine. 2,319,820; May 25.
Mavity, Julian M. (See Grosse, A. V., and Mavity.)
McAvity, T., & Sons Ltd. (See Stirling, Frederick D., assignor.)
McBain, Donald Keith. (See Palmrose, G. V., and McBain.)
McBee Company, The. (See Welk, Nelson S., assignor.)
McConaughy, Kenneth A., New York, N. Y. Rotary advertising display device. 2,320,151; May 25.
McCormick, Francis H., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,320,041; May 25.
McCormick, William R. (See Lawler, William J., assignor.)
McCullough, William T., assignor to Goodman Manufacturing Company, Chicago, Ill. Slack or cuttings removing device. 2,320,004; May 25.
McGrann, John A. (See Maulsby, L. K., and McGrann.)
McGraw Electric Company. (See Ireland, Murray, assignor.)
McGraw Electric Company. (See Scharf, Frank W., assignor.)
McLean, William A., Geneva, N. Y. Mixing device. 2,319,821; May 25.
McMahan, William W., assignor to Wingfoot Corporation, Akron, Ohio. Tire filling means. 2,320,042; May 25.
McMullan, Charlie M. (See Swanger, Charles W., assignor.)
McNamara, Gordon G., Jr., Chicago, Ill., assignor to International Harvester Company. Extensible reach for vehicles. 2,320,189; May 25.
McNatt, Eugene M., Tulsa, Okla., assignor to Standard Oil Development Company. Integrating gradiometer. 2,320,290; May 25.
McNeal, Donald L., Wilkinsgurg, deceased; R. H. McNeal, executrix, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control mechanism. 2,319,941; May 25.
McNeal, Ruth H., executrix. (See McNeal, Donald L.)
Mechanics Engineering Company. (See Merriman, Henry H., assignor.)
Meduna, John F., Seattle, Wash., assignor to Metallizing Engineering Co., Inc., Long Island City, N. Y. Application of spray metal to metal surfaces. 2,320,327; May 25.
Meduna, John F., Seattle, Wash., assignor to Metallizing Engineering Co., Inc., Long Island City, N. Y. Application of spray metal to metal surfaced substantially cylindrical objects. 2,320,328; May 25.
Meduna, John F., Seattle, Wash., assignor to Metallizing Engineering Co., Inc., Long Island City, N. Y. Spray metal coated, metal surfaced articles. 2,320,329; May 25.
Mefford, Fred E., Colorado Springs, Colo. Metal trimming for overalls. 2,320,152; May 25.
Merck & Co. (See Treacy, Cyril S., assignor.)
Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)
Merkle, Ralph S., Emporium, Pa., assignor to Sylvania Electric Products Inc. Radio tube holder and extractor. 2,320,043; May 25.
Merriman, Henry H., assignor to Mechanics Engineering Company, Jackson, Mich. Wrench. 2,320,044; May 25.
Merrow, John G. G. (See Kuehnel, William J., assignor.)
Metallizing Engineering Co. (See Meduna, John F., assignor.)
Metals & Controls Corporation. (See Vaughan, Victor G., assignor.)
Michaelis, Walter, Brussels-Forest, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated. Process and article for use in the manufacture of combined picture and sound films. 2,320,005; May 25.
Michel, David, assignor to Rothmoor Corporation, Chicago, Ill. Garment with detachable neckpiece. 2,319,875; May 25.
Mikeska, Louis A. (See Lieber, E., and Mikeska.)
Miles Laboratories, Inc. (See Kamlet, Jonas, assignor.)
Miller, Carl F., Corning, N. Y., assignor to Sylvania Electric Products Inc. Electron discharge tube. 2,320,045; May 25.
Miller, Clarke C., Edwardsville, assignor to Standard Oil Company, Chicago, Ill. Coal spray composition. 2,319,942; May 25.
Miller, Edwin, Jeannette, Pa. Tire building apparatus. 2,320,190; May 25.
Miller, Eseck C., Newark, N. J., assignor to Scholl Mfg. Co., Inc., New York, N. Y. Machine for making adhesive pads. 2,320,092; May 25.
Miller, Kinney I., Lancaster, Mo. Chick box lid. 2,320,245; May 25.
Minneapolis-Moline Power Implement Company. (See Seaholm, John P., assignor.)
Minnesota Mining & Manufacturing Company. (See Tierney, Hubert J., assignor.)
Modern Accessories Inc. (See Harpootlian, Carnig A., assignor.)
Moloney, Raymond T. (See Breitenstein, Charles T., assignor.)
Moody, Warren L., and S. J. Wagar, Richmond, Va. Composition for improving the absorbing properties of fabrics and the like. 2,319,822; May 25.
Moore, Francis L., Phoenix, Ariz. Container. 2,320,006; May 25.
Moore, Fred P., assignor to Eversharp, Inc., Chicago, Ill. Mechanical pencil. 2,319,823; May 25.
Moore, Ralph W. E., Pittsburgh, Pa., assignor to National Electric Products Corporation. Electrical busway. 2,320,093; May 25.
Morten, Louis G., Teaneck, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Electricity conductor unit. 2,320,332; May 25.
Moske, Alexander W., assignor to Reynolds Spring Company, Jackson, Mich. Spring construction. 2,320,153; May 25.
Moskowitz, Max, Bronx, N. Y. Mop and mop handle. 2,320,291; May 25.
Moss, William H., London, England, assignor to Celanese Corporation of America. Preparation of aromatic sulphonamide-phenol-dihalide reaction products. 2,319,876; May 25.
Mott, Carl W. (See Lindgren, A. C., and Mott.)
Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Diaphragm pressure motor. 2,320,191; May 25.
Mott, Harry J. (See Benjamin, B. R., and Mott.)
Murphy, Gerald, Milwaukee, Wis., assignor to The United States Printing & Lithograph Company, Cincinnati, Ohio. Making labels. 2,319,783; May 25.
Myers, Joseph W. (See Stoddard, E. J., and Myers.)
Myers, Joseph W., Philadelphia, Pa. Condition measuring apparatus. 2,320,311; May 25.
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
Nash-Kelvinator Corporation. (See Swart, Richard H., assignor.)
Nash, Leonard W., Damascus, Ohio, assignor to E. W. Bliss Company, Brooklyn, N. Y. Apparatus for handling material. 2,320,094; May 25.
National Blank Book Company. (See Schade, Frank S., assignor.)
National Blank Book Company. (See Schade, John, assignor.)
National Electric Products Corporation. (See Moore, Ralph W. E., assignor.)
National Equipment Co. (See Perkins, George S., assignor.)
National Hosiery Mills, Inc. (See Solar, Israel E., assignor.)
Nelson, Evan L., Austin, Minn. Educational block. 2,320,292; May 25.
New Britain Machine Company, The. (See Jobert, Arthur H., assignor.)
Newport, Jesse H., Jr. (See Derham, P. A., and Newport.)
Nicholson, Edward W. (See Drebs, R. W., and Nicholson.)
Nordberg Manufacturing Company. (See Talboys, Henry H., assignor.)
Nordstrom, Sven J., Lafayette, Calif., assignor to Merco Nordstrom Valve Company, Pittsburgh, Pa. Pressure balanced plug valve. 2,319,943; May 25.
North American Rayon Corporation. (See Gram, Carl F., assignor.)
Northern Engineering Works. (See Killaire, Frederick, assignor.)
Northern Wisconsin Manufacturing Co. (See Juliot, Joseph, assignor.)
Norton Company. (See Coes, Loring, Jr., assignor.)
Notar, Joseph C., assignor to Rapids Equipment Company, Inc., Cedar Rapids, Iowa. Trailer hitch. 2,320,046; May 25.
Nunnally, Robert R., Harlingen, Tex. Safety razor. 2,320,154; May 25.

Nygaard, Edwin M., and O. M. Reiff, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method of desulphurizing oils. 2,320,047; May 25.

Olsen, Ronald W., Bloomfield, N. J., assignor to General Electric Company. Fluid flow control. 2,320,194; May 25.

Olson, Carl M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Titanium oxide production. 2,319,824; May 25.

Ormond, John J., assignor of two-thirds to J. D. Ramsey, Boston, Mass. Making printing members. 2,319,944; May 25.

Ornstein, Georg, Stockholm, Sweden. Method and apparatus for indicating dissolved oxygen in aqueous liquids. 2,320,005; May 25.

Osborne, Fred H. Snyder, and C. J. Hull, Buffalo, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Selector mechanism for automatic phonographs. 2,319,946; May 25.

Osborne, Fred H., Snyder, and T. M. Wright, North Tonawanda, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Remote control system. 2,319,945; May 25.

Oshei, Reed J., and R. C. Timm, assignors to Trico Products Corporation, Buffalo, N. Y. Sleet blade. 2,319,904; May 25.

Ostergaard, Povl, Mount Lebanon, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Conversion of paraffinic hydrocarbons. 2,320,293; May 25.

Oswood, Elmer S., Minneapolis, Minn. Weed cutter for outboard motors. 2,319,947; May 25.

Otto, Carl A., assignor to Johnson Service Company, Milwaukee, Wis. Damper. 2,320,007; May 25.

Pallas, Vernon R. (See Illmer, L., and Pallas.)

Palmer, Benjamin F., Tulsa, Okla. Top center indicator for pistons. 2,320,192; May 25.

Palmer, Robert T., Sharon, assignor to B. F. Sturtevant Company, Boston, Mass. Air conditioning system utilizing refrigeration. 2,319,905; May 25.

Palmrose, George W., and D. K. MacBain, assignors to Weyerhaeuser Timber Company, Longview, Wash. Sulphite process. 2,320,294; May 25.

Papp, Andrew E., assignor to G & W Electric Specialty Co., Chicago, Ill. Electrical connection. 2,320,155; May 25.

Parson, Leo R., Oskaloosa, Iowa. Crankcase servicing device. 2,320,048; May 25.

Pass & Seymour, Inc. (See Despard, Victor R., assignor.)

Patent, G. G., Company, The. (See Grunberg, George, assignor.)

Paterek, William. (See Atwood, F. C., and Paterek.)

Patterson, Harry R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Take-up mechanism. 2,320,295; May 25.

Payne, John W. (See Simpson, T. P., Payne, and Crowley.)

Peabody Engineering Corporation. (See Harmon, Robert R., assignor.)

Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Metal container side seam packing strip applying apparatus. 2,319,825; May 25.

Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Machine for flanging can bodies having solderless side seams. 2,320,049; May 25.

Pelikan, John M., Chicago, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,320,296; May 25.

Pellett, Fred G., Alplaus, N. Y., assignor to General Electric Company. Laminated mica. 2,319,780; May 25.

Pellett, Fred G., Alplaus, N. Y., assignor to General Electric Company. Adhesive compositions. 2,319,826; May 25.

Perkins, George S., Kew Gardens, assignor to National Equipment Co., New York, N. Y. Machine for decorating coated candies. 2,320,297; May 25.

Perlmutter, Goldye S., Los Angeles, Calif. Sanitary device. 2,320,156; May 25.

Perry, Hadwen C., Hyde Park, Mass. Sectional shelving. 2,319,877; May 25.

Persson, Eric S., Malmo, Sweden. Operating means for windows. 2,320,096; May 25.

Peterson, Walker F., Baltimore, Md. Deflector ring. 2,320,050; May 25.

Petrolite Corporation, Ltd. (See Bailey, Edmund I., assignor.)

Petrolite Corporation, Ltd. (See Roberts, Claudius H. M., assignor.)

Philadelphia Gear Works, Inc. (See Benson, R. C., and Plume, assignors.)

Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,319,878; May 25.

Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Panic bolt. 2,320,298; May 25.

Phillips, Georme M., and W. P. Rutherford, deceased, by Susan B. Rutherford, administratrix, Louisville, Ky. Smoke preventer. 2,320,299; May 25.

Phillips Petroleum Company. (Bailey, G. C., and Reid, assignors.)

Phillips Petroleum Company. (See Blaker, David G., assignor.)

Phillips Petroleum Company. (See Hachmuth, Karl H., assignor.)

Phillips Petroleum Company. (See Robinson, Homer B., assignor.)

Phoenix Metal Cap Co. Inc. (See Crabbe, Lindsay T., assignor.)

Phoenix Novelty Textile Printers. (See Darenberg, G. W., and Shea, assignors.)

Pierce, John B., Foundation. (See Marten, Louis G., assignor.)

Pierle, Henry C., deceased, The Central Trust Company, executor and trustee, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Gun boring tool. 2,320,333; May 25.

Pierson, Harold L., assignor to E. P. Reed & Co., Rochester, N. Y. Shoe and its manufacture. 2,319,879; May 25.

Pinney, H. H. (See Williamson, Larkin R., assignor.)

Pitzer, Edgar C., assignor to Standard Oil Company, Chicago, Ill. Catalytic process of treating hydrocarbons. 2,319,948; May 25.

Ploeger, Clyde E., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,820,097; May 25.

Plume, William F. (See Benson, R. C., and Plume.)

Polaroid Corporation. (See Land, Edwin H., assignor.)

Pollack, Lazurus W., New York, N. Y. Doll eye. 2,320,300; May 25.

Pollak Manufacturing Company. (See Markey, Roscoe I., assignor.)

Pool, John W. (See Lutz, W. A., and Pool.)

Powell, Edwin T. (See Powell, John T., and E. T.)

Powell, John T. and E. T., Washington, D. C. Combined safety light and illuminating lamp. 2,320,193; May 25.

Powers, Paul O., assignor to Armstrong Cork Company, Lancaster, Pa. Preparation of a urea-formaldehyde adhesive. 2,320,301; May 25.

Press Wireless, Inc. (See Zurian, Philip D., assignor.)

Price, Nathan C., Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Solenoid operated valve. 2,320,008; May 25.

Pulleyblank, Harper E., assignor to Gemmer Manufacturing Company, Detroit, Mich. Steering gear. 2,319,880; May 25.

Pullin, Cyril G., Genista, Newton Mearns, Scotland, assignor to Autogiro Company of America, Willow Grove, Pa. Rotary wing aircraft. 2,319,781; May 25.

Pullman-Standard Car Manufacturing Company. (See Hartwig, Arthur H., assignor.)

Pure Oil Company, The. (See Throckmorton, John W., assignor.)

Quinn, John W. (See Wilson, D. I., and Quinn.)

Quisling, Sverre, Madison, Wis. Cosmetic coloring composition. 2,320,098; May 25.

Radio Corporation of America. (See George, R. H., and Hesselberth, assignor.)

Raiche, Paul A., North Providence, R. I., assignor to Davol Rubber Company. Catheter. 2,320,157; May 25.

Ralston, Anderson W., and E. J. Hoffman, assignor to Armour and Company, Chicago, Ill. Inorganic plastic products and preparing the same. 2,320,009; May 25.

Ralston, Anderson W., and E. J. Hoffman, assignors to Armour and Company, Chicago, Ill. Lime and plaster products and preparing the same. 2,320,010; May 25.

Ramsay, William S., Canton, and G. A. Bole, Columbus, assignors to The Stark Brick Company, Canton, Ohio. Vapor-glazed ceramic product and producing same. 2,320,099; May 25.

Ramsey, Joseph D. (See Ormond, John J., assignor.)

Rapids Equipment Company. (See Notar, Joseph C., assignor.)

Ray, James G., Pittsburgh, Pa., assignor to All American Aviation, Inc., Wilmington, Del. Aircraft pickup and delivery apparatus. 2,319,881; May 25.

Rayburn, Vincent A., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating strands. 2,320,246; May 25.

Reagan, Lester C., and W. Zalatorius, Chicago Ill.; said Zalatorius assignor to said Reagan. Photocopy machine. 2,319,882; May 25.

Reardon, Eugene J., East Haven, Conn., assignor to The American Steel and Wire Company of New Jersey. Manufacturing wire rope and the like. 2,319,827; May 25.

Reed, E. P., & Co. (See Pierson, Harold L., assignor.)

Reid, James A. (See Bailey, G. C., and Reid.)

Reiff, Orland M. (See Mygaard, E. M., and Reiff.)

Reilly Tar & Chemical Corporation. (See Cislak, F. E., and Cunningham, assignors.)

Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)

Reynolds, Damian L., Burlingame, Calif. Repeating mechanism. 2,320,011; May 25.

Reynolds Spring Company. (See Moske, Alexander W., assignor.)

Riall, Troy A., Silvis, Ill. Carburetor. 2,320,012; May 25.

Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)

Richardson Taylor-Globe Corporation, The. (See Marx, Frank A., assignor.)

Rindfleisch, Arthur G., Chicago, Ill., assignor to Bocji Corporation, Pittsburgh, Pa. Airplane propeller and actuating mechanism therefor. 2,320,195; May 25.

Ritchie, Bradford S., Norwood, assignor to R. W. E. Leach, Winchester, Mass. Water soluble adhesive. 2,319,883; May 25.

Robbins, Grover C., Blowing Rock, N. C. Chimney cap. 2,319,884; May 25.

Roberts, Claudius H. M., Palos Verdes Estates, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Process and composition for treatment of emulsions. 2,319,885; May 25.

Robertson, Robert R., Chicago, Ill. Road joint rope seal. 2,319,949; May 25.

Robins, Adolf, New York, N. Y. Mechanical display device. 2,320,302; May 25.

Robinson, Homer B., Webb City, Okla., assignor to Phillips Petroleum Company. Automatic disconnector apparatus. 2,320,051; May 25.

Rodriguez, Joseph A., Houston, Tex. Mat. 2,320,052; May 25.

Roe, Charles C., assignor to Eugene F. Smith, Stockton, Calif. Tunneling machine. 2,320,196; May 25.

Roger, Henry, Sandy Hook, Conn. Episcopic projector. 2,320,247; May 25.

Rohweder, Charles R., Belmont, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Wire uncoiling apparatus. 2,319,828; May 25.

Ronci, Victor L. (See Bishop, W. M., Depew, Gronros, and Ronci.)

Ronci, Victor L. (See Depew, C., Gronros, and Ronci.)

Ross, Clifford O., Beverly Hills, Calif. Mechanic's tool. 2,320,303; May 25.

Rosset, Louis J., Burbank, Calif. Roaster. 2,320,304; May 25.

Rothmoor Corporation. (See Michel, David, assignor.)

Rourke, Robert U., assignor to Waterhouse Company, Webster, Mass. Adjustable pointer. 2,319,872; May 25.

Rousculp, John A., Columbus, Ohio. Line support. 2,320,197; May 25.

Rowe, Raymond N., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Contact mechanism for electric switches. 2,319,906; May 25.

Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Dry pipe sprinkler system. 2,320,305; May 25.

Rubin, Louis C. (See Layng, E. T., and Rubin.)

Rudson-Wood Inc. (See Baumgarten, Paul, assignor.)

Rumbaugh, Hugh M., Pittsburgh, Pa. Ironer. 2,320,306; May 25.

Rupp, William C., Parma, assignor to The Chandler & Price Company, Cleveland, Ohio. Platen printing press. 2,320,100; May 25.

Russell, Julian G., North Chattanooga, Tenn., assignor, by mesne assignments, to Union Special Machine Company, Chicago, Ill. Needle holder. 2,319,829; May 25.

Russell, William W. (See Huey, H. I., and Russell.)

Rutherford, Susan P., administratrix. (See Phillips, G. M., and Rutherford (W. P.).)

Rutherford, William P., administrator. (See Phillips, G. M., and Rutherford (W. P.).)

St. Paul Machinery Manufacturing Company. (See Kirby, J. H., and Grumke, assignors.)

Sampsel, Arthur V., Mendota, assignor to Sears, Roebuck and Co., Chicago, Ill. Liquid metering device. 2,319,830; May 25.

Sandstrom, Robert V., Detroit, Mich. Method and composition for producing crystalline coatings. 2,319,886; May 25.

Saville, Arthur Y., Wakefield, England, assignor to The Jeffrey Manufacturing Company. Kerf cleaner or gummer. 2,320,307; May 25.

Sayles Finishing Plants, Inc. (See Huey, H. I., and Russell, assignors.)

Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Expansible post binder. 2,320,101; May 25.

Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Binder for catalog and the like. 2,320,102; May 25.

Scharf, Frank W., assignor to McGraw Electric Company, Elgin, Ill. Electric iron. 2,320,013; May 25.

Schell, Charles J., Cincinnati, Ohio. Strap lock. 2,320,014; May 25.

Schille, Jacob L. (See Borkowski, C. J., and Schille.)

Schlegel, Fritz. (See Hentrich, W., Kirstahler and Schlegel.)

Schleicher, Emil J., St. Louis, and C. F. Frede, University City, Mo., assignors to General Steel Castings Corporation, Granite City, Ill. Pneumatic-hydraulic pressure device. 2,319,950; May 25.

Schleicher, Harold E. (See Galt, P. T., Jr., and Schleicher.)

Schloz, Arthur H. (See Seidel, A., and Schloz.)

Schoenberger, W. J., Company, The. See Jaros, Lawrence, assignor.)

Scholl Mfg. Co. (See Miller, Eseck C., assignor.)

Schorger, Arlie W., Madison, Wis., assignor to Burgess Cellulose Company, Freeport, Ill. Thermoplastic lignocellulosic product and method of making the same. 2,319,951; May 25.

Schorger, Arlie W., Madison, Wis., assignor to Burgess Cellulose Company, Freeport, Ill. Thermoplastic lignocellulosic product and making the same. 2,319,952; May 25.

Schrage, Frederick S. (See Copeland, C. V., and Schrage.)

Schüberg, Ernst. (See Härpe, E. G., and Schüberg.)

Scott, George M., et al. (See Hawkins, Hoke M.)

Scott, Winfield, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Heat stabilizer for polymers of vinyl chloride. 2,319,953; May 25.

Scott, Winfield, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Heat stabilizer for vinyl compounds. 2,319,954; May 25.

Sealholm, John P., Moline, Ill., assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Disk harrow. 2,320,015; May 25.

Sears, Roebuck and Co. (See Sampsel, Arthur V., assignor.)

Seeley, Harold T., Lansdowne, Pa., assignor to General Electric Company. Synchronizing indicator. 2,320,198; May 25.

Seidel, Adolph, and A. H. Schloz, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y. Knuckle joint press. 2,320,103; May 25.

Sellmeyer, Bernardus, Leonia, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J. Hydrocarbon conversion. 2,320,199; May 25.

Servel, Inc. (See Ploeger, Clyde E., assignor.)

Severinghaus, Nelson, Lithonia, assignor to Consolidated Quarries Corp., Decatur, Ga. Safety device for elevating equipment. 2,320,016; May 25.

Sharp & Dohme, Incorporated. (See Hartung, W. H., and Levin, assignors.)

Shea, Donald. (See Darenberg, G. W., and Shea.)

Shimek, Edwin J., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Seismic surveying. 2,320,248; May 25.

Shivell, Homer J., Kingsport, Tenn. Leather belting. 2,320,158; May 25.

Shoup, Ransom F., Ardmore, assignor to The Shoup Voting Machine Corporation, Philadelphia, Pa. Voting machine. 2,320,105; May 25.

Shoup Voting Machine Corporation, The. (See Shoup, Ransom F., assignor.)

Silver, Walter H., assignor to Deere & Company, Moline, Ill. Damming cultivator. 2,319,899; May 25.

Silverman, Jacob Z., Brooklyn, N. Y. Curtain hook and installation. 2,320,308; May 25.

Simpson, Thomas P., J. W. Payne and J. A. Crowley, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Catalytic conversion. 2,320,318; May 25.

Simpson, William K., assignor to Hoffman Specialty Company, Waterbury, Conn. Adaptor for vent valves. 2,320,104; May 25.

Singer Manufacturing Company, The. (See Wertz, James E., assignor.)

Smith, Alva T., assignor to The Sunlite Mfg. Company, Milwaukee, Wis. Ironing pad. 2,320,249; May 25.

Smith, Eugene F. (See Roe, Charles C., assignor.)

Smith, George A., Des Moines, Iowa. Sewer cleaning mechanism. 2,320,309; May 25.

Smith, Harvey J., assignor to W. I. Barker, Danville, Va. Combined display rack, oil saver, and waste can receptacle. 2,320,159; May 25.

Smith, Samuel R., et al. (See Danforth, Louis D., assignor.)

Smith, William L., Jr., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Fabric and method of knitting. 2,319,955; May 25.

Snowden, Ward E., Modesto, assignor to Ansul Chemical Company of California. Can puncturing device. 2,320,160; May 25.

Snyder, James E., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Packaging process cheese and the like. 2,319,956; May 25.

Socnoy-Vacuum Oil Company. (See Gorin, Everett, assignor.)

Socony-Vacuum Oil Company. (See Nygaard, E. M., and Reiff, assignors.)

Socony-Vacuum Oil Company. (See Shimek, Edwin J., assignor.)

Socony-Vacuum Oil Company. (See Simpson, T. P., Payne, and Crowley., assignors.)

Solar, Israel E., New York, N. Y., assignor to National Hosiery Mills, Inc. Full fashioned stocking and manufacture thereof. 2,320,250; May 25.

Solvay Process Company, The. (See Beekhuis, Herman A., Jr., assignor.)

South, Joseph A., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Purification of oil. 2,320,106; May 25.

Southern Wood Preserving Company. (See Harvey, Jacquelin E., Jr., assignor.)

Sparks, William J. (See Thomas, R. M., and Sparks.)

Sparks, William J. (See Thomas, R. M., Lightbown, and Sparks.)

Spath, Herman. (See Jenewein, A., and Spath.)

Speckert, Siegfried, Southgate, assignor to Abegg & Reinhold Co. Ltd., Vernon, Calif. Aligning connection for drill collars. 2,320,107; May 25.

Speicher, John K., Newark, assignor to Hercules Powder Company, Wilmington, Del. Coated paper. 2,319,957; May 25.

Spicer, Alvin W., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for preventing the accumulation of ice. 2,320,017; May 25.

Sprague, Vinton G. (See Holden, W. H. T., Hubbard, Lewis, Malthaner, and Sprague.)

Squibb, E. R., & Sons. (See Fernholz, E., and Stavely, assignors.)

Stack, Alvilda L., executrix. (See Stack, James R.)

Stack, James R., Pittsburgh, Pa., deceased, Alvilda L. Stack, Montpelier, Vt., executrix. Hydrometallurgical process for the recovery of tin. 2,319,887; May 25.

Standard Catalytic Company. (See Woerner, Alfred, assignor.)

Standard Oil Company. (See Miller, Clarke C., assignor.)

Standard Oil Company. (See Pitzer, Edgar C., assignor.)

Standard Oil Development Company. (See Buckley, Stuart E., assignor.)

Standard Oil Development Company. (See Buckley, S. E., and Hocott, assignors.)

Standard Oil Development Company. (See Carlson, E. W., and Cyphers, assignors.)

Standard Oil Development Company. (See Cohen, Charles A., assignor.)

Standard Oil Development Company. (See Dempsey, Henry J., assignor.)

Standard Oil Development Company. (See Drebs, R. W., and Nicholson, assignors.)

Standard Oil Development Company. (See Gohr, E. J., Thompson, and Martin, assignors.)

Standard Oil Development Company. (See Jones, M. C. K., and Brandon, assignor.)

Standard Oil Development Company. (See Lieber, E., and Mikeska, assignors.)

Standard Oil Development Company. (See McNatt, Eugene M., assignor.)

Stanley, Albert E., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii. Method and apparatus for treating pineapples. 2,320,054; May 25.

Stark Brick Company, The. (See Ramsey, W. S., and Bole, assignors.)

Stavely, Homer F. (See Fernholz, E., and Stavely.)

Stebbins, Charles S. (See Bell, M. R., and Stebbins.)

Stegeman, Raymond F. E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic instrument. 2,319,888; May 25.

Stickel, Carl A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,320,055; May 25.

Stirling, Frederick D., assignor to T. McAvity & Sons Ltd., Montreal, Quebec, Canada. Blow-off valve. 2,319,907; May 25.

Stoddard, Elliott J., Highland Park, Mich., and J. W. Myers, Philadelphia, Pa., said Stoddard assignor to said Myers. Apparatus for integrating time and temperature. 2,320,319; May 25.

Stoner-Mudge, Inc. (See Groff, C. H., and Castor, assignors.)

Straat, Harold W., Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Refractometer. 2,319,889; May 25.

Stuller, Anthony, New York, N. Y. Clipping machine. 2,320,200; May 25.

Sturtevant, B. F., Company. (See Bentley, Oliver D. H., assignor.)

Sturtevant, B. F., Company. (See. Palmer, Robert T., assignor.)

Suloff, Paul D., assignor to Wingfoot Corporation, Akron, Ohio. Motor drive. 2,320,053; May 25.

Sunlite Mfg. Company, The. (See Smith, Alva T., assignor.)

Sun Tube Corporation, The. (See Fridén, John H., assignor.)

Sutherland Paper Company. (See Buttery, Kenneth T., assignor.)

Swanger, Charles W. Texarkana, Tex., assignor of one-half to C. M. McMullian, Texarkana, Ark. Pole cutting machine. 2,320,056; May 25.

Swanson, Hilbert E. (See Brey, H. E., and Swanson.)

Swart, Richard H., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,319,890; May 25.

Swindell-Dressler Corporation. (See Brooke, F. W., and Dressler, assignors.)

Sylvania Electric Products Inc. (See Merkle, Ralph S., assignor.)

Sylvania Electric Products Inc. (See Miller, Carl F., assignor.)

Sylvania Industrial Corporation. (See Francis, Carleton S., Jr., assignor.)

Sylvania Industrial Corporation. (See Wallach, Roger N., assignor.)

Synchro-Start Products, Inc. (See Williams, William J., assignor.)

Szilard, Julius A., Rome, assignor to General Cable Corporation, New York, N. Y. Electrical conductor. 2,320,201; May 25.

Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Car floor surfacing device. 2,320,161; May 25.

Tanke, Willard H., La Crosse, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor mower. 2,320,057; May 25.

Taylor, Isabel D., Detroit, Mich. Sleeping bag. 2,319,958; May 25.

Telander, Carl W., Randolph, Mass. Calculating apparatus. 2,319,891; May 25.

Texas Company, The. (See South, Joseph A., assignor.)

Texas Gulf Sulphur Company. (See Bacon, R. F., and Bencowitz, assignors.)

Thomas, Frank B., Akron, Ohio. Coupling for rods or shafts. 2,319,892; May 25.

Thomas, Robert M., Union and W. J. Sparks, Cranford, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Thickened oils. 2,320,312; May 25.

Thomas, Robert M., Union, I. E. Lightbown, Elizabeth, and W. J. Sparks, Cranford, N. J., assignors to Tasco, Incorporated. Cable structure. 2,320,313; May 25.

Thompson, Josephus, Covington, assignor of one-third to Grossman Music Company, Cleveland, Ohio. Musical instrument. 2,320,202; May 25.

Thompson, Josephus, Covington, and M. S. Brockman, Cleveland, Ohio, assignors of one-sixth to said Thompson and five-sixths to Grossman Music Company. Musical instrument. 2,320,203; May 25.

Thompson, William I. (See Gohr, E. J., Thompson and Martin.)

Thorson, Harry L., Schenectady, N. Y., assignor to General Electric Company. Stem construction for vacuum tubes. 2,320,204; May 25.

Throckmorton, John W., Wilton, Conn., assignor to The Pure Oil Company, Chicago, Ill. Thermal conversion of hydrocarbon gases. 2,320,251; May 25.

Tierney, Hubert J., Mahtomedi, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesive. 2,319,959; May 25.

Timm, Roy C. (See Oshel, R. J., and Timm.)

Torrington, William P., assignor to Emulsions Process Corporation, New York, N. Y. Yeast-treating process. 2,319,831; May 25.

Trask, Allen, St. Paul, Minn. Differential spring suspension for vehicles. 2,320,314; May 25.

Treacy, Cyril S., Cranford, assignor to Merck & Co., Inc., Rahway, N. J. Producing halogenated cresols. 2,319,960; May 25.

Trico Products Corporation. (See Oshel, R. J., and Timm, assignors.)

Trochim, Louis L., Vallejo, Calif. Pipe hanger. 2,319,832; May 25.

Troy, Constantine T., Towanda, Pa. Leather grading machine. 2,319,833; May 25.

Trumbull Electric Manufacturing Company. (See Rowe, Raymond N., assignor.)

Tull, Alan G., assignor to Latta Syndicate Limited, London, England. Color photography. 2,320,108; May 25.

Tull, Alan G., Purley, assignor to Latta Syndicate Limited, London, England. Production of photographic color images. 2,320,109; May 25.

Turner, William E., assignor to O. B. Andrews Company, Chattanooga, Tenn. Sectional bottle carrier. 2,320,315; May 25.

Tuttle, William G., Oakland, Calif. Derrick frame. 2,319,893; May 25.

Ullman, Martin, New York, N. Y., assignor to The Atlas Underwear Company, Piqua, Ohio. Folding box. 2,320,018; May 25.

"Unichem" Chemikalien Handels A.-G. (See Hentrich, W., Kirstahler and Schlegel, assignors.)

Union Asbestos & Rubber Company. (See Lundvall, John S., assignor.)

Union Bag & Paper Corporation. (See Avery, True M., assignor.)

Union Oil Company of California. (See Jenkins, V. N., assignor.)

Union Special Machine Company. (See Russell, Julian G., assignor.)

Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)

Union Switch and Signal Company, The. (See Pelikan, John M., assignor.)

United Shoe Machinery Corporation. (See Cutler, Wallace, assignor.)

United Shoe Machinery Corporation. (See Rohweder, Charles R., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Printing & Lithograph Company, The. (See Murphy, Gerald, assignor.)

U. S. Ring Traveler Co. (See Bolton, Maurice L., assignor.)

Universal Oil Products Company. (See Grosse, A. V., and Mavity, assignors.)

Universal Unit Power Shovel Corporation. (See Brey, H. E., and Swanson, assignors.)

Upjohn Company, The. (See Besemer, Paul J., assignor.)

Vandercook & Sons. (See Vandercook, Edward O., and D. D., assignors.)

Vandercook, David D. (See Vandercook, Edward O. and D. D.)

Vandercook, Edward O., Kenilworth, and D. D. Vandercook, Evanston, assignors to Vandercook & Sons, Chicago, Ill. Proof press. 2,319,961; May 25.

Van Voorhis, William G., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Crawler drive mechanism. 2,320,019; May 25.

Vaughan, Victor G., assignor to Metals & Controls Corporation, Attleboro, Mass. Thermostatic protective circuit. 2,320,252; May 25.

Victor Metals Products Corporation. (See Derham, P. A., and Newport, assignors.)

Vokes, Cecil G., London, England. Filter. 2,319,894; May 25.

Wagar, Stanley J. (See Moody, W. L., and Wagar.)

Wales, George F., Kenmore, N. Y. Apparatus for perforating sheet material. 2,320,205; May 25.

Walker, George A., Brunswick, Mo. Electric indicator for typewriters. 2,320,110; May 25.

Walker, Jay P., assignor of forty per cent to Guy O. Marchant, and six per cent to C. G. Wells, Tulsa, Okla. Methods of and means for treating and/or dehydrating oil, gas, and water mixtures, such as flow from oil wells. 2,319,962; May 25.

Walker, Ralph H., Saugus, assignor to Lawson Machine and Tool Co., Malden, Mass. Turret. 2,319,895; May 25.

Wallach, Roger N., Briarcliff Manor, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Treating textiles. 2,319,834; May 25.

Wallis, Lionel S., Birmingham, England. Spring mattress and the like. 2,320,020; May 25.

Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Container filling and weighing apparatus. 2,319,908; May 25.

Ware, Foster, San Francisco, Calif. Life preserver and distress signal. 2,320,111; May 25.

Waterhouse Company. (See Rourke, Robert U., assignor.)

Watson, William O. (See Berlin, D. R., and Watson.)

Welk, Nelson S., assignor to The McBee Company, Athens, Ohio. Counting mechanism actuator. 2,320,021; May 25.

Wells, C. G., et al. (See Walker, Jay P., assignor.)

Wells, Theodore A., and J. P. Gaty, assignors to Beech Aircraft Corporation, Wichita, Kans. Means to accelerate setting of glue. 2,320,022; May 25.

Wells, Walter P. (See Margolin, Nathan G.)

Wertz, James E., Ware Shoals, S. C., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Rotary loop-taker for sewing machines. 2,320,316; May 25.

Western Electric Company. (See Dennis, C. E., and Heinz, assignors.)

Western Electric Company. (See Rayburn, Vincent A., assignor.)

Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)

Westinghouse Air Brake Company, The. (See McNeal, Donald L., assignor.)

Weston Electrical Instrument Corporation. (See Lamb, Anthony H., assignor.)

Weyerhaeuser Timber Company. (See Palmrose, G. V., and McBain, assignors.)

Wheeler Insulated Wire Company, The. (See Gaynor, Edwin G., assignor.)

Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Storage of supercooled normally crystalline polymeric material. 2,320,112; May 25.

Wiley, Richard H. (See Hanford, W. E., and Wiley.)

Wilhide, Glenn C., Baltimore County, assignor to The Black and Decker Manufacturing Company, Towson, H. Pinney, Shaker Heights, Ohio. Boiler construction. 2,320,113; May 25.

Williams, William J., assignor to Synchro-Start Products, Inc., Toledo, Ohio. Automatic controlling system for engines. 2,319,835; May 25.

Williamson, Larkin R., Brooklyn, N. Y., assignor to H. H. Pinney, Shaker Heights, Ohio. Boiler construction. 2,320,114; May 25.

Wilson, Alexander L. (See Clark, J. W., and Wilson.)

Wilson, Delbert I., and J. W. Quinn, assignors to The City Engineering Company, Dayton, Ohio. Manually operated screw machine. 2,319,963; May 25.

Wilson Engineering Corporation. (See Wilson, Lyndon F., assignor.)

Wilson, Frank C., Arcade, N. Y. Hydraulic press. 2,319,964; May 25.

Wilson, Lyndon F., assignor to Wilson Engineering Corporation, Chicago, Ill. Unit heater. 2,320,207; May 25.

Wilson, Ross R., Billings, Mont. Vine cutting mechanism. 2,320,317; May 25.

Wilson, William J. (See Dohe, E. F., and Wilson.)

Wingfoot Corporation. (See Calvert, William C., assignor.)

Wingfoot Corporation. (See D'Ianni, James D., assignor.)

Wingfoot Corporation. (See Lichty, Joy G., assignor.)

Wingfoot Corporation. (See McMahan, William W., assignor.)

Wingfoot Corporation. (See Scott, Winfield, assignor.)

Wingfoot Corporation. (See Snyder, James E., assignor.)

Wingfoot Corporation. (See Suloff, Paul D., assignor.)

Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for cutting sheet material. 2,319,896; May 25.

Wise, Raymond O., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Variable frequency bridge stabilized oscillator. 2,319,965; May 25.

Woerner, Alfred, Leuna, Germany, assignor to Standard Catalytic Company. Catalytically cracking hydrocarbon oils. 2,319,836; May 25.

Womack, David R., United States Navy. Adjustable nose splint. 2,319,837; May 25.

Wood, Gar, Industries, Inc. (See Barrett, Edward R., assignor.)

Wood, Guy S., and R. A. Farnham, Herkimer, assignors to International Paper Company, New York, N. Y. Molded pulp article. 2,319,966; May 25.

Wood, John, Manufacturing Company, Inc. (See Demers, Isaie J. B., assignor.)

Woodson, Thomas T. (See Dunham, G. W., Woodson and Bariffi.)

Wright, Theodore M. (See Osborne, F. H., and Wright.)

Wurlitzer, Rudolph, Company, The. (See Osborne, F. H., and Hull.))

Wurlitzer, Rudolph, Company, The. (See Osborne, F. H., and Wright, assignors.)

Würth, Wilhelm, Berlin, Germany, assignor to General Electric Company. Contact amplifier. 2,320,208; May 25.

Yager, William A., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Dielectric material. 2,319,838; May 25.

Yale & Towne Manufacturing Company, The. (See Golden, A. H., and Ledin, assignors.)

Yanovsky, Stephan, Brussels, Belgium, vested in the Alien Property Custodian. Recoil-operated machine gun fire control mechanism. 2,319,839; May 25.

Yavdynsky, Julius A., New York, N. Y. Airship. 2,319,967; May 25.

Young, Douglas, Inc. (See Young, Lewis D., assignor.)

Young, Harvey L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for removing the stresses from plastic sheeting. 2,320,115; May 25.

Young, Lewis D., Providence, R. I., assignor to Douglas Young, Inc. Package. 2,319,909; May 25.

Young, Robert F., Smithdale, assignor of one-half to Henry E. Barnett, Summit, Miss. Vehicle door operating means. 2,319,897; May 25.

Zahniser, Walter J. (See Bloomer, W. J., and Zahniser.)

Zalatorius, Walter. (See Reagan, L. C., and Zalatorius.)

Zeigler, Albert H. (See Hoffman, H. D., and Zeigler.)

Zelnis, Edward P., assignor to The Dole Valve Company, Chicago, Ill. Air valve. 2,320,162; May 25.

Zimmerman, Herman W., Highland Park, assignor to Automotive Maintenance Machinery Co., North Chicago, Ill. Torque measuring wrench. 2,320,023; May 25.

Zurian, Philip D., Hicksville, N. Y., assignor to Press Wireless, Inc., Chicago, Ill. Telephoto method and apparatus. 2,319,898; May 25.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Control system. J. M. Newman. Re. 22,324; May 25.
Electrical musical instrument. R. C. Fisher. Re. 22,321; May 25.
Harrow, Disk. J. P. Seaholm. Re. 22,327; May 25.
Heating device, Induction. E. S. Goodridge. Re. 22,322; May 25.
Material for shoe stiffeners. H. Boeddinghaus. Re. 22,320; May 25.
Poultry picker, Mechanical. E. E. McMahan and A. Charlebois. Re. 22,323; May 25.
Protector. C. M. O'Boyle. Re. 22,325; May 25.
Refrigeration apparatus. T. W. Rundell. Re. 22,326; May 25.

LIST OF DESIGN INVENTIONS

Apron. M. King. 135,712; May 25.
Apron, Lathe. J. Srofe. 135,727; May 25.
Bag. A. M. Hickman. 135,734; May 25.
Bag, Watertight. H. G. Morner. 135,726; May 25.
Blouse. M. King. 135,715; May 25.
Cap, Woman's. M. Paul. 135,736; May 25.
Card deck, Aircraft recognition. R. G. Willard. 135,716; May 25.
Compressor for a hydraulic brake unit or the like. H. A. Benzel. 135,731; May 25.
Cover, Book. G. R. Benn. 135,738; May 25.
Digging attachment, Post hole. M. S. Anderson. 135,724; May 25.
Dress. M. Grossman. 135,735; May 25.
Dress. M. King. 135,713; May 25.
Flight plotting instrument. E. G. Vetter. 135,722; May 25.
Game board. C. H. Reed. 135,720; May 25.
Holder, Flower. L. P. Weil. 135,723; May 25.
Jacket. H. C. Cookman. 135,710; May 25.
Jacket. M. King. 135,714; May 25.
Laundry unit. W. J. Russell. 135,721; May 25.
Luminaire. C. F. Haas and E. W. Yungman. 135,733; May 25.
Pad, Rupture. A. H. Hoffman. 135,737; May 25.
Plastic unit for use on handbags or the like. I. Jolles. 135,729; May 25.
Strap, Chin. D. M. Ackerman. 135,728; May 25.
Tire chain applying device or similar article. W. H. Kaltreider. 135,730; May 25.
Toy airplane. S. J. Peers. 135,717–18; May 25.
Toy airplane and projector therefor, Combined. S. J. Peers. 135,719; May 25.
Toy wheelbarrow. V. C. Kenney. 135,725; May 25.
Trailer. R. J. Elkus. 135,711; May 25.
Valve, Radiator. C. R. Stone. 135,732; May 25.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF MAY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article, Flexible. H. P. Kirchner. 2,320,139; May 25.
Abrasives. L. Coes, Jr. 2,319,791–4; May 25.
Absorption or adsorption refrigerating apparatus. N. Erland Af Kleen. 2,319,806; May 25.
Acid mixtures, Purifying sulphuric. V. R. Kokatnur and J. J. Jacobs, Jr. 2,320,242; May 25.
Actuator, Counting mechanism. N. S. Welk. 2,320,021; May 25.
Acyl acrylamide and its preparation. J. G. Lichty. 2,320,089; May 25.
Adaptor for vent valves. W. K. Simpson. 2,320,104; May 25.
Adhesive. H. J. Tierney. 2,319,959; May 25.
Adhesive, Preparation of a urea-formaldehyde. P. O. Powers. 2,320,301; May 25.
Adhesive tapes, Making. E. G. Kerr. 2,319,933; May 25.
Adhesive, Water soluble. B. S. Ritchie. 2,319,883; May 25.
Adhesive compositions. F. G. Pellett. 2,319,826; May 25.
Adjustable glass holder for welders' helmets. F. M. Bowers. 2,320,214; May 25.
Adjustable pointer. R. U. Rourke. 2,319,782; May 25.
Air conditioning system utilizing refrigeration. R. T. Palmer. 2,319,905; May 25.
Aircraft pickup and delivery apparatus. J. G. Ray. 2,319,881; May 25.
Airship. J. A. Yavdynsky. 2,319,967; May 25.
Air valve. E. P. Zelnis. 2,320,162; May 25.
Alternating switch. P. T. Galt, Jr. and H. E. Schleicher. 2,319,810; May 25.
Amplifier, Contact. Würth, Wilhelm, Berlin, Germany, assignor to General Electric Company. 2,320,208; May 25.
Ant poison container. E. C. Hansen. 2,320,077; May 25.
Apparatus and method for producing one-piece multifocal lens blanks and lenses. F. E. Duckwall. 2,319,922; May 25.
Apparatus for extruding metals. D. McL. Frothingham. 2,320,071; May 25.
Apparatus for forming characters and designs on silver-plated flatware. T. Cooper. 2,319,796; May 25.
Apparatus for handling material. L. W. Nash, 2,320,094; May 25.
Apparatus for integrating time and temperature. E. J. Stoddard and J. W. Myers. 2,320,310; May 25.
Apparatus for making flame coloring sticks. J. P. B. Fiske. 2,319,778; May 25.
Apparatus for packing foodstuffs in cans. W. de Back. 2,319,900; May 25.
Apparatus for perforating sheet metal. G. F. Wales. 2,320,205; May 25.
Apparatus for preventing the accumulating of ice. M. R. Bell and C. S. Stebbins. 2,319,968; May 25.
Apparatus for preventing the accumulation of ice. A. W. Spicer. 2,320,017; May 25.
Apparatus for treating and drying thread. C. F. Gram. 2,319,812; May 25.
Apparatus for treating oil. E. I. Bailey. 2,320,059; May 25.
Apparatus for treating strands. V. A. Rayburn. 2,320,246; May 25.
Appliance for mixing and distributing liquid disinfectants or other fluids. D. G. Hall. 2,320,128; May 25.
Appliance, Swimmer's. A. Crupi. 2,320,222; May 25.
Application of spray metal to metal surfaces. J. F. Meduna. 2,320,327; May 25.
Aromatization. E. T. Layng and L. C. Rubin. 2,320,147; May 25.
Attachment for electric drills, Saw. L. Broderhausen. 2,319,973; May 25.
Automatic coal stoking machine. J. O. Coffin. 2,319,795; May 25.
Automatic controlling system for engines. W. J. Williams. 2,319,835; May 25.
Automatic disconnector apparatus. H. B. Robinson. 2,320,051; May 25.
Automatic stocking means for bar machines. A. H. Jobert. 2,320,039; May 25.
Bag: *See*—
Sleeping bag.
Bauxite to improve the odor of petrolatum, Use of. H. J. Dempsey. 2,320,223; May 25.
Bearing: *See*—
Thrust bearing.
Bed rack. H. Bradberry. 2,320,027; May 25.
Belting, Leather. H. J. Shivell. 2,320,158; May 25.
Binder, Expansible post. F. S. Schade. 2,320,101; May 25.
Binder for catalog and the like. J. Schade. 2,320,102; May 25.
Bit: *See*—
Rotary drill bit.
Well drilling bit.
Blade, Sleet. R. J. Oshel and R. C. Timm. 2,319,904; May 25.
Block: *See*—
Building block.
Educational block.
Blow-off valve. F. D. Stirling. 2,319,907; May 25.
Board: *See*—
Game board.
Boat bailer. S. T. Larsen. 2,319,870; May 25.
Boat, Folding. A. Heidenreich. 2,320,180; May 25.
Body and fender tool. J. Golnick. 2,320,074; May 25.
Body massaging machine. O. T. Buffalow. 2,320,261; May 25.
Boiler construction. L. R. Williamson. 2,320,114; May 25.
Bottle carrier, Sectional. W. E. Turner. 2,320,315; May 25.
Bowling alley mechanism, Automatic. J. E. Flanagan. 2,319,925; May 25.
Box: *See*—
Complete stickless staple-less chick box.
Folding box.
Covered shipping and display box.
Brake and driving mechanism, Traction. H. E. Brey and H. E. Swanson. 2,320,320; May 25.
Brake construction and adjusting means therefor. H. T. Lambert. 2,320,286; May 25.
Brake control mechanism. D. L. McNeal. 2,319,941; May 25.
Branched-chain aliphatic secondary amines, Preparing. J. W. Clark and A. L. Wilson. 2,319,848; May 25.
Brush. J. W. Bate. 2,319,841; May 25.
Building block. W. A. Blanding, Jr. 2,319,914; May 25.
Bumper switch unit for ball rolling games. M. J. Binks. 2,319,786; May 25.
Burner: *See*—
Gas range burner.
Cable structure. R. M. Thomas, I. E. Lightbown, and W. J. Sparks. 2,320,313; May 25.
Calculating apparatus. C. W. Telander. 2,319,891; May 25.
Calculating machine. H. T. Avery. 2,320,025; May 25.
Can: *See*—
Milk can.
Cap: *See*—
Chimney cap.
Cap and auxiliary container, Combination. P. A. Derham and J. H. Newport, Jr. 2,320,070; May 25.
Capillary active agent, Production of. W. Hentrich, A. Kirstahler, and F. Schlegel. 2,320,181; May 25.
Car: *See*—
Freight car.
Carbon control for writing machines. W. H. Hope, Jr. 2,320,038; May 25.
Carburetor. T. A. Riall. 2,320,012; May 25.
Carrier: *See*—
Bottle carrier.
Carrier and system for launching motor torpedo boats. C. T. Forsberg. 2,319,855; May 25.
Carrier for small game. H. J. Caughren. 2,320,067; May 25.
Carton. F. A. Marx. 2,320,289; May 25.
Carton, Cup dispensing. K. T. Buttery. 2,319,975; May 25.
Case to hold toilet articles. B. A. Arnold. 2,320,166; May 25.
Casing, Instrument. J. A. Caldwell. 2,319,845; May 25.
Catalytic conversion. R. W. Krebs and E. W. Nicholson. 2,320,284; May 25.
Catalytic conversion. T. P. Simpson, J. W. Payne, and J. A. Crowley, Jr. 2,320,318; May 25.
Catalysts, Preparation and use of. C. J. Borkowski and J. L. Schille. 2,320,063; May 25.
Catheter. P. A. Raiche. 2,320,157; May 25.
Cathode ray tube. R. H. George, and W. M. Hesselberth. 2,319,811; May 25.
Cell, Photoelectric. A. H. Lamb. 2,320,185; May 25.
Ceramic product, and producing same, Vapor-glazed. W. S. Ramsay and G. A. Bole. 2,320,099; May 25.
Chain saw. E. Kupka. 2,320,082; May 25.
Cheese and the like, Packaging process. J. E. Snyder. 2,319,956; May 25.
Chemical composition. W. M. Lee and C. R. Erikson. 2,320,087; May 25.
Chimney cap. G. C. Robbins. 2,319,884; May 25.

Cigarette extinguisher and ash tray. H. M. Hawkins. 2,319,861; May 25.
Cigarette holder. J. Datsko. 2,319,850; May 25.
Cigarette package and match book holder. C. C. Baldwin. 2,320,167; May 25.
Circuit: *See*—
Rectifier circuit.
Thermostatic protective circuit.
Circuit mechanism. Self-balancing. F. B. Bristol. 2,320,066; May 25.
Clamping device for template and stock used in shaping cutting dies. H. M. Bolston. 2,319,915; May 25.
Cleaner or gummer, Kerf. A. Y. Saville. 2,320,307; May 25.
Clip: *See*—
Rotary steel rail base stop clip.
Clipping machine. A. Stuller. 2,320,200; May 25.
Closure for jars and the like. L. T. Crabbe. 2,319,849; May 25.
Clothes compartment for vehicle seats. I. Brenner. 2,320,215; May 25.
Clutch control mechanism for motor vehicles. E. G. Hill and H. W. Hey. 2,320,182; May 25.
Coal spray composition. C. C. Miller. 2,319,942; May 25.
Coating composition. A. K. Doolittle. 2,319,852; May 25.
Coating, Metal. A. W. Harris. 2,320,129; May 25.
Coating method and material. R. F. Bacon and I. Bencowitz. 2,320,255; May 25.
Code selective apparatus. M. H. Loughridge. 2,320,150; May 25.
Coloring material, Flame. J. P. B. Fiske. 2,320,330; May 25.
Color photography. A. G. Tull. 2,320,108; May 25.
Complete stickless staplesss chick box. K. C. Ferguson. 2,319,924; May 25.
Compositions for aminoarylsulphonamides, Diagnostic. J. Kamlet. 2,320,282; May 25.
Composition for improving the absorbing properties of fabrics and the like. W. L. Moody and S. J. Wagar. 2,319,822; May 25.
Composition, Polishing. G. F. Hogg. 2,320,236; May 25.
Compressor, Air. B. S. Aikman. 2,319,911; May 25.
Computing and indicating mechanism, Price. J. Loder. 2,320,091; May 25.
Condensation products of amidines with alkylene oxides. W. P. Ericks. 2,320,225; May 25.
Condition measuring apparatus. J. W. Myers. 2,320,311; May 25.
Connection for drill collars, Aligning. S. Speckert. 2,320,107; May 25.
Contact mechanism for electric switches. R. N. Rowe. 2,319,906; May 25.
Container: *See*—
Ant poison container.
Cap and auxiliary container.
Fuel container.
Container. K. T. Buttery. 2,319,974; May 25.
Container. F. L. Moore. 2,320,006; May 25.
Control mechanism, Recoil-operated machine gun fire. S. Yanovsky. 2,319,839; May 25.
Control unit. F. Killaire. 2,319,868; May 25.
Converting photographic images into color. P. D. Brewster. 2,320,028; May 25.
Conveyer. R. R. Collins and J. A. Gibb. 2,319,979; May 25.
Corn picker. B. M. Hyman. 2,320,135; May 25.
Cosmetic coloring composition. S. Quisling. 2,320,098; May 25.
Coupling for rods or shafts. F. B. Thomas. 2,319,892; May 25.
Cover for elevator door hanger mechanism. H. W. Larson. 2,320,186; May 25.
Covered shipping and display box. L. J. Clark. 2,319,919; May 25.
Crawler drive mechanism. W. G. Van Voorhis 2,320,019; May 25.
Cresols, Producing halogenated. C. S. Treacy. 2,319,960; May 25.
Cross roll apparatus. P. B. Abramsen. 2,319,785; May 25.
Crystalline coatings, Method and composition for producing. R. V. Sandstrom. 2,319,886; May 25.
Cultivator, Damming. W. H. Silver. 2,319,899; May 25.
Cultivator tool. P. J. Anderson. 2,320,024; May 25.
Cup for fowl, Drinking. H. W. Hart. 2,319,928; May 25.
Curtain hanger. E. K. Madan. 2,320,003; May 25.
Curtain hook and installation. K. Z. Silverman. 2,320,308; May 25.
Cutter for outboard motors, Weed. E. S. Oswood. 2,319,947; May 25.
Cutting machine, Pole. C. W. Swanger. 2,320,056; May 25.
Cutting mechanism, Vine. R. R. Wilson. 2,320,317; May 25.
Damper. C. A. Otto. 2,320,007; May 25.
Davit, Gravity. W. E. Elling. 2,319,854; May 25.
Deck, Bubble. J. A. Gibb. 2,320,073; May 25.
Deflector ring. W. F. Peterson. 2,320,050; May 25.
Dehydroabietinal and producing. W. P. Campbell. 2,319,976; May 25.
Derrick frame. W. G. Tuttle. 2,319,893; May 25.
Detergent and sterilizing composition. V. M. Kalusdian. 2,320,280; May 25.
Detergent composition. V. M. Kalusdian. 2,320,279; May 25.
Device for carving machine structures, Drum cleaning. J. N. Kirby and E. W. Grumke. 2,320,138; May 25.
Device, Wire tensioning. P. E. Chapman, Sr. 2,320,264; May 25.
Diacyl acrylamide and its preparation. J. G. Lichty. 2,320,090; May 25.
Diaphragm lock nut. L. D. Danforth. 2,320,030; May 25.
Diaphragm pressure motor. C. W. Mott. 2,320,191; May 25.
Die set assembly. K. Janiszewski. 2,320,240; May 25.
Dielectric material. W. A. Yager. 2,319,838; May 25.
Differential spring suspension for vehicles. A. Trask. 2,320,314; May 25.
Dishwasher. H. H. Horwitz. 2,320,133; May 25.
Display device, Mechanical. A. Robins. 2,320,302; May 25.
Display device, Rotary advertising. K. A. McConaughy. 2,320,151; May 25.
Display rack, oil saver and waste can receptacle, Combined. H. J. Smith. 2,320,159; May 25.
Doll eye. L. W. Pollack. 2,320,300; May 25.
Domestic appliance. F. H. McCormick. 2,320,041; May 25.
Door. C. A. Fralinger. 2,319,982; May 25.
Door operating means. R. F. Young. 2,319,897; May 25.
Doughnut machine. W. G. Holmes, W. R. Coyne, and A. S. T. Lagaard. 2,320,037; May 25.
Draft gauge. F. W. Dwyer. 2,320,122; May 25.
Driving mechanism. T. Backus. 2,319,784; May 25.
Drum cleaning machine. C. Genasci. 2,319,985; May 25.
Educational block. E. L. Nelson. 2,320,292; May 25.
Electric control means. E. H. Ayers. 2,320,117; May 25.
Electric fuel pump. A. C. Korte and K. Lannert. 2,319,934; May 25.
Electric iron. F. W. Scharf. 2,320,013; May 25.
Electric systems, Protection of alternating current. S. B. Farnham. 2,320,123; May 25.
Electrical busway. R. W. E. Moore. 2,320,093; May 25.
Electrical conductor. J. A. Szilard. 2,320,201; May 25.
Electrical connection. A. E. Papp. 2,320,155; May 25.
Electrical discharge device. W. T. Anderson, Jr., and H. Laub. 2,319,912; May 25.
Electricity conductor unit. L. G. Morten. 2,320,332; May 25.
Electron discharge device. C. Depew, W. Gronros, and V. L. Ronci. 2,320,120; May 25.
Electron discharge tube. C. F. Miller. 2,320,045; May 25.
Engine cowling support. D. R. Berlin and W. O. Watson. 2,319,843; May 25.
Engine starter drive. J. E. Buxton. 2,320,220; May 25.
Engines, Controlling combustion. H. B. Grow. 2,319,858; May 25.
Eraser guard. C. J. Leonard. 2,319,871; May 25.
Extensible reach for vehicles. G. G. McNamara, Jr. 2,320,189; May 25.
Fabric and method of knitting. W. L. Smith, Jr. 2,319,955; May 25.
Fastening supplying apparatus. W. M. Cutler. 2,319,797; May 25.
Feeding device for machine tools. E. G. Hjärpe and E. B. Schüberg. 2,320,235; May 25.
Filling and weighing apparatus, Container. C. T. Walter. 2,319,908; May 25.
Filter. C. G. Vokes. 2,319,894; May 25.
Fire hose washer. R. L. Cotton. 2,320,173; May 25.
Fixture, Center sill turnover. A. H. Hartwig. 2,320,079; May 25.
Floor structure for railroad cars. J. Lundvall. 2,320,001; May 25.
Floor surfacing device, Car. H. H. Talboys. 2,320,161; May 25.
Fluid dispensing device. B. Johnsen. 2,319,867; May 25.
Fluid flow control. R. W. Olsen. 2,320,194; May 25.
Flush tank. V. A. Hoffmann. 2,320,132; May 25.
Flush tank. W. J. Lawler. 2,320,187; May 25.
Folding box. M. Ullman. 2,320,018; May 25.
Fork. C. O. Hanson. 2,319,986; May 25.
Formaldehyde, Production of. H. R. Arnold. 2,320,253; May 25.
Forming heat resistant ferrous alloys. A. T. Cape and A. Gaxiola. 2,319,977; May 25.
Frame: *See*—
Derrick frame.
Freight car. M. M. Brister. 2,320,216; May 25.
Fruit juices, Refining and preserving citrus. W. R. Ketchum. 2,319,994; May 25.
Fuel container. H. A. Black. 2,319,844; May 25.
Fuel feeding apparatus for furnaces. G. McA. Blizard. 2,320,062; May 25.
Full range fuel mixer. A. G. Bodine, Jr. 2,319,971; May 25.
Fuse, Renewable cartridge. C. J. Haas. 2,320,231; May 25.
Game. J. F. Bruneau. 2,319,917; May 25.

Game. A. F. Emch. 2,320,270; May 25.
Game board. F. S. Kramer. 2,320,184; May 25.
Garment. Slenderizing non-ride-up. W. G. Kidder. 2,319,779; May 25.
Garment with detachable neckpiece. D. Michel. 2,319,875; May 25.
Gas and liquid contact apparatus. R. R. Harmon. 2,319,814; May 25.
Gas, Process for drying nitrosyl chloride. H. A. Beekhuis, Jr. 2,320,257; May 25.
Gas range burner. L. Jaros. 2,319,866; May 25.
Gases for the heat treatment of metals, Producer of protective. K.-A. Lohausen. 2,320,149; May 25.
Gases, Thermal conversion of hydrocarbon. J. W. Throckmorton. 2,320,251; May 25.
Gauge: *See*—
Draft gauge.
Gear: *See*—
Steering gear.
Geneva movement, Oil-relieved. K. Brenkert. 2,320,064; May 25.
Glue, Accelerate setting of. T. A. Wells and J. P. Gaty. 2,320,022; May 25.
Grading machine, Leather. C. T. Troy. 2,319,833; May 25.
Gradiometer, Integrating. E. M. McNatt. 2,320,290; May 25.
Grinder machine for strip stock or the like. L. Ilmer and V. R. Pallas. 2,320,142; May 25.
Grinder, Wire. J. H. Jaecker. 2,319,998; May 25.
Guard for grinding wheels. F. O. Harris. 2,320,130; May 25.
Gun and gunner's seat mount, Aircraft. T. E. Horncastle. 2,320,238; May 25.
Gun boring tool. H. C. Pierle. 2,320,333; May 25.
Halides and making them, Arol formhydroximic acid. W. H. Hartung and N. Levin. 2,320,234; May 25.
Halogenated carboxylic acid esters, Preparing. J. D. D'Ianni. 2,320,034; May 25.
Handle: *See*—
Mop or mop handle.
Hanger: *See*—
Curtain hanger.
Pipe hanger.
Harrow. J. Juliot. 2,320,000; May 25.
Harrow, Disk. J. P. Senholm. 2,320,015; May 25.
Harvester. E. F. Huddle. 2,320,134; May 25.
Harvesting apparatus, Sea moss. E. R. Knowlton, G. F. Doucette, and J. W. Eager. 2,320,283; May 25.
Headgear connection for helmets, Adjustable. E. B. Maillart. 2,320,244; May 25.
Heat stabilizer for polymers of vinyl chloride. W. Scott. 2,319,953; May 25.
Heat stabilizer for vinyl compounds. W. Scott. 2,319,954; May 25.
Heater: *See*—
Unit heater.
Hitch, Plow. L. Kott. 2,320,141; May 25.
Hitch, Trailer. J. C. Notar. 2,320,046; May 25.
Hoist, Compound. E. R. Barrett. 2,319,840; May 25.
Holder: *See*—
Cigarette package and match book holder.
Cigarette holder.
Needle holder.
Paper bag holder.
Holder and dispenser, Can. G. A. Jundt. 2,320,084; May 25.
Holder and extractor, Radio tube. R. S Merkle. 2,320,043; May 25.
Holder for cake soap, Nonslip. E. S. Clanton. 2,319,847; May 25.
Hydraulic press. F. C. Wilson. 2,319,964; May 25.
Hydrocarbon conversion. B. Sellmeyer. 2,320,199; May 25.
Hydrocarbon conversion and catalyst therefor. D. G. Blaker. 2,320,118; May 25.
Hydrocarbons, Catalytic process of treating. E. C. Pitzer. 2,319,948; May 25.
Hydrocarbons, Conversion of normally gaseous. E. Gorin. 2,320,274; May 25.
Hydrocarbons, Conversion of paraffinic. P. Ostergaard. 2,320,293; May 25.
Hydrocarbons, Treatment of. K. H. Hachmuth. 2,320,127; May 25.
Hydrometallurgical process for the recovery of tin. J. R. Stack. 2,319,887; May 25.
Index assembly, Wringer. W. L. Kauffman, II. 2,320,324; May 25.
Indexing device for wringers. W. L. Kauffman, II. 2,320,325; May 25.
Indicator: *See*—
Synchronizing indicator.
Indicator for pistons, Top center. B. F. Palmer. 2,320,192; May 25.
Indicator for typewriters, Electric. G. A. Walker. 2,320,110; May 25.
Insole, Resilient. M. Margoline. 2,319,818; May 25.
Instrument, Musical. J. Thompson. 2,320,202; May 25.
Instrument, Musical. J. Thompson and M. S. Brockman. 2,320,203; May 25.
Interchangeable covering member. C. A. Harpootlian. 2,320,078; May 25.
Interpolymers of an unsaturated alkyd resin and a poly-(halogenoallyl) ester. G. F. D'Alelio. 2,319,798; May 25.
Interpolymers of an unsaturated alkyd resin and a poly-(1-halogenoallyl) ester. G. F. D'Alelio. 2,319,799; May 25.
Iron: *See*—
Electric iron.
Ironer. H. M. Rumbaugh. 2,320,306; May 25.
Ironing pad. A. T. Smith. 2,320,249; May 25.
Joint: *See*—
Pavement joint.
Joint for exhaust pipes. R. I. Markey. 2,319,939; May 25.
Ketonic polycarboxylic acids. H. A. Bruson. 2,320,217; May 25.
Kiln, Tunnel. F. W. Brooke and P. d'H. Dressler. 2,320,172; May 25.
Knitting machine. W. J. Kuehnel. 2,320,285; May 25.
Knuckle joint press. A. Seidel and A. H. Schloz. 2,320,103; May 25.
Labeling machine, Bottle. P. J. Besemer. 2,319,969; May 25.
Labels, Making. G. Murphy. 2,319,783; May 25.
Ladder leg, Auxiliary. E. Johnson. 2,320,144; May 25.
Laminated mica. F. G. Pellett. 2,319,780; May 25.
Lamp: *See*—
Safety light and illuminating lamp.
Vehicle lamp.
Latch mechanism. W. C. Devereaux. 2,319,851; May 25.
Lid, Chick box. K. I. Miller. 2,320,245; May 25.
Life preserver and distress signal. F. Ware. 2,320,111; May 25.
Light polarizer and manufacture. E. H. Land. 2,319,816; May 25.
Lime and plastic products and preparing the same. A. W. Ralston and E. J. Hoffman. 2,320,010; May 25.
Line support. J. A. Rousculp. 2,320,197; May 25.
Liquid metering device. A. V. Sampsel. 2,319,830; May 25.
Lock: *See*—
Strap lock.
Lock nut. L. D. Danforth. 2,320,032; May 25.
Lock nut, including its construction. L. D. Danforth. 2,320,031; May 25.
Locking assembly, Automobile wheel. H. S. Jandus. 2,319,931; May 25.
Loom for weaving ladder tape. E. R. Holmes. 2,319,863; May 25.
Lubricant. D. R. Frey. 2,320,228; May 25.
Lubrication. E. H. Kocher. 2,320,140; May 25.
Machine for cutting sheet material. E. E. Winkley. 2,319,896; May 25.
Machine for decorating coated candies. G. S. Perkins. 2,320,297; May 25.
Machine for flanging can bodies having solderless side seams. P. E. Pearson. 2,320,049; May 25.
Machine for making adhesive pads. E. C. Miller. 2,320,092; May 25.
Manually operated screw machine. D. I. Wilson and J. W. Quinn. 2,319,963; May 25.
Manufacture of heat sealed bags. T. M. Avery. 2,320,326; May 25.
Manufacturing wire rope and the like. E. J. Reardon. 2,319,827; May 25.
Mat. J. A. Rodriguez. 2,320,052; May 25.
Material, Regeneration of solid contact. E. J. Gohr, W. I. Thompson and H. Z. Martin. 2,320,273; May 25.
Measuring apparatus, Gravitational force. W. A. Marrison. 2,319,940; May 25.
Measuring instrument. H. R. Jacobs. 2,319,932; May 25.
Mechanical wrench. J. T. Burks. 2,320,119; May 25.
Mechanic's tool. C. O. Ross. 2,320,303; May 25.
Mechanism for operating switches. S. H. Durbin. 2,320,121; May 25.
Metal coating machine. W. P. Lohrman. 2,319,817; May 25.
Method and apparatus for indicating dissolved oxygen in aqueous liquids. G. Ornstein. 2,320,095; May 25.
Method and apparatus for removing the stresses from plastic sheeting. H. L. Young. 2,320,115; May 25.
Method and apparatus for treating pineapples. A. E. Stanley. 2,320,054; May 25.
Milk can. I. J. B. Demers. 2,320,174; May 25.
Milking apparatus. O. R. Frost. 2,320,229; May 25.
Mixer: *See*—
Fuel range fuel mixer.
Mixing device. W. A. McLean. 2,319,821; May 25.
Mop and mop handle. M. Moskowitz. 2,320,291; May 25.
Motion transmitting mechanism. B. Brassell. 2,320,259; May 25.
Motor: *See*—
Diaphragm pressure motor.
Reversible single phase motor.
Motor construction, Portable electric tool. G. C. Wilhide. 2,320,113; May 25.
Motor drive. P. D. Suloff. 2,320,053; May 25.

Motorcycle seat. L. F. Bender. 2,320,210; May 25.
Mounting: *See*—
Road vehicle mounting.
Mounting for electrical apparatus, Cushion. W. M. Bishop, C. Depew, W. Gronros, and V. L. Ronci. 2,320,170; May 25.
Mower, Tractor. W. H. Tanke. 2,320,057; May 25.
Natural fruit juices and eliminating cannery waste, Producing. R. E. Harris. 2,320,036; May 25.
Needle holder. J. G. Russell. 2,319,829; May 25.
9,9-di(γ-aminopropyl)-fluorene. H. A. Bruson. 2,320,029; May 25.
Nonfiltering fifth wheel. J. Johnston. 2,320,278; May 25.
Notching machine and method. J. H. Fridén. 2,320,272; May 25.
Nozzle, Suction. E. O. H. Hansson. 2,329,927; May 25.
Nozzle with automatic shutoff, Filling. A. H. Davis, Jr. 2,320,033; May 25.
Nut, Diaphragm lock. L. D. Danforth. 2,320,030; May 25.
Nutcracking machine. L. K. Maulsby and J. A. McGrann. 2,319,820; May 25.
Nut, Lock. L. D. Danforth. 2,320,032; May 25.
Oil composition, Lubricating. V. N. Jenkins. 2,320,241; May 25.
Oils, Desulphurizing. E. M. Nygaard and O. M. Reiff. 2,320,047; May 25.
Oil, gas and water mixtures such as flow from oil wells, Treating and/or dehydrating. J. P. Walker. 2,319,962; May 25.
Oil, Lubricating. B. Lieber and L. A. Mikeska. 2,320,287; May 25.
Oil, Purification of. J. A. South. 2,320,106; May 25.
Oil, Refining of cottonseed. W. J. Bloomer and W. J. Zahniser. 2,319,970; May 25.
Oil, Thickened. R. M. Thomas and W. J. Sparks. 2,320,312; May 25.
Oils and fats, Treating natural. H. D. Hoffman and A. H. Zeigler. 2,319,979; May 25.
Oils, Catalytically cracking hydrocarbon. A. Woerner. 2,319,836; May 25.
Oils, Soluble cutting. E. W. Carlson and E. B. Cyphers. 2,320,263; May 25.
Oils, Treating corrosive. C. A. Cohen. 2,320,266–7; May 25.
Oleaginous material. H. C. Black. 2,320,319; May 25.
Olefins, Polymerization of. G. C. Bailey and J. A. Reid. 2,320,256; May 25.
Operating means for windows. E. S. Persson. 2,320,096; May 25.
Ophthalmic instrument. R. F. E. Stegeman. 2,319,888; May 25.
Orthopedic device. M. Jungmann. 2,320,183; May 25.
Oscillator, Variable frequency bridge stabilized. R. O. Wise. 2,319,965; May 25.
Outlet, Duplex convenience. V. R. Despard. 2,319,801; May 25.
Overalls and other garments. F. H. Homoelle. 2,319,930; May 25.
Package. A. S. Johnson. 2,320,143; May 25.
Package. L. D. Young. 2,319,909; May 25.
Pad: *See*—
Ironing pad.
Pad. W. S. Finnell. 2,319,923; May 25.
Paint can handle and brush wiping attachment. T. D. Campbell. 2,320,262; May 25.
Panic bolt. E. J. G. Phillips. 2,320,298; May 25.
Paper bag holder. H. C. Harrison. 2,320,233; May 25.
Paper, Coated. J. K. Speicher. 2,319,957; May 25.
Paper, Improving the quality of. J. R. Denton. 2,319,800; May 25.
Parer, Vegetable and fruit. P. Baumgarten. 2,320,061; May 25.
Patterned cellulosic fabric, Producing. H. I. Huey and W. W. Russell. 2,319,903; May 25.
Pavement joint. A. E. Brickman. 2,319,972; May 25.
Pencil, Mechanical. F. P. Moore. 2,319,823; May 25.
Petroleum distillates, Process of sweetening. M. C. K. Jones and R. C. Brandon. 2,320,277; May 25.
Petroleum, lubricating jelly. W. A. Lutz and J. W. Pool. 2,320,002; May 25.
Petroleum stocks, Cracking of light. W. T. Hancock. 2,319,926; May 25.
Photocopy machine. L. C. Reagan and W. Zalatorins. 2,319,882; May 25.
Photographic color images, Production of. A. G. Tull. 2,320,109; May 25.
Photographic material and producing the same. B. Gáspár. 2,319,984; May 25.
Piezoelectric crystal apparatus. S. C. Hight. 2,320,131; May 25.
Piezoelectric crystal element. S. C. Hight. 2,320,080; May 25.
Pipe hanger. L. L. Trochim. 2,319,832; May 25.
Pipe sprinkler system, Dry. A. C. Rowley. 2,320,305; May 25.
Planter, Tractor. B. R. Benjamin. 2,320,169; May 25.
Plastic products and processes for preparing the same, Inorganic. A. W. Ralston and E. J. Everett. 2,320,009; May 25.
Plate clamp for securing and positioning printing plates on printing cylinders. W. F. Huck. 2,320,239; May 25.
Plate, Fender scuff. G. A. Lyon. 2,319,936; May 25.
Platen printing press. W. C. Rupp. 2,320,100; May 25.
Pneumatic-hydraulic pressure device. E. J. Schleicher and C. F. Frede. 2,319,950; May 25.
Polymeric material, Storage of supercooled normally crystalline. R. M. Wiley. 2,320,112; May 25.
Poultry restraining device. O. D. Markins. 2,319,938; May 25.
Powder composition, Smokeless. B. H. Mackey. 2,320,243; May 25.
Power lifting arrangement for cultivators, Tractor. A. C. Lindgren and C. W. Mott. 2,320,148; May 25.
Power plants, Overload working method for thermal. C. Keller. 2,319,995; May 25.
Power transmission mechanism. F. W. Avila. 2,320,116; May 25.
Preparation of coating compound from drying oil and phenol-aldehyde resins. C. H. Groff and W. W. Castor. 2,320,126; May 25.
Press: *See*—
Hydraulic press. Platen printing press.
Knuckle joint press. Proof press.
Pressing machine. S. Goldstein. 2,320,178; May 25.
Pressor composition and preparing it, Therapeutic. O. M. Helmer. 2,319,902; May 25.
Pressure balance plug valve. S. J. Nordstrom. 2,319,943; May 25.
Pressure relief device for low pressure vessels. G. T. Bloom and J. G. Burnett. 2,320,211; May 25.
Printing members, Making. J. J. Ormond. 2,319,944; May 25.
Printing method and means. H. N. Durham. 2,319,853; May 25.
Process and apparatus for the preparation of rubber compounds. A. Hale. 2,319,859; May 25.
Process and article for use in the manufacture of combined picture and sound films. W. Michaelis. 2,320,005; May 25.
Process and composition for treatment of emulsions. C. H. M. Roberts. 2,319,885; May 25.
Production of a metarsenite. M. Le Duc. 2,319,777; May 25.
Projector. M. Lopez-Henriquez. 2,320,188; May 25.
Projector, Episcopic. H. Roger. 2,320,247; May 25.
Proof press. E. O. and D. D. Vandercook. 2,319,961; May 25.
Propeller and actuating mechanism therefor, Airplane. A. G. Rindfleisch. 2,320,195; May 25.
Protein products, Manufacturing. F. C. Atwood and W. Paterek. 2,320,165; May 25.
Pulp article, Molded. G. S. Wood and R. A. Farnham. 2,319,966; May 25.
Pump: *See*—
Electric fuel pump. Rotary pump.
Pump for concrete and the like. J. H. Fitzgerald. 2,319,981; May 25.
Puncturing device, Can. W. E. Snowden. 2,320,160; May 25.
Rack: *See*—
Bed rack.
Radio aerial. W. E. Hann. 2,319,860; May 25.
Radio receiver for horizontally polarized waves. H. C. Forbes. 2,320,124; May 25.
Raft, Life. N. G. Margolin and W. P. Wells. 2,320,288; May 25.
Rangefinder for measuring and indicating the distance between two points. B. R. Grace. 2,320,075; May 25.
Railway traffic controlling apparatus. J. M. Pelikan. 2,320,296; May 25.
Razor. R. P. Harshberger. 2,319,815; May 25.
Razor, Electric. C. T. Breitenstein. 2,319,916; May 25.
Razor, Safety. E. L. Des Jardins. 2,319,980; May 25.
Razor, Safety. R. B. Nunnally. 2,320,154; May 25.
Reaction methods. W. and N. Engel. 2,320,206; May 25.
Receptacle: *See*—
Display rack, oil saver, and waste can receptacle.
Receptacle for empty bottles. R. N. Leonard. 2,319,872; May 25.
Rectifier circuit. D. V. Edwards. 2,320,224; May 25.
Refractometer. H. W. Straat. 2,319,889; May 25.
Refrigerating apparatus. L. F. Clerc. 2,320,265; May 25.
Refrigerating apparatus. R. E. Gould. 2,320,035; May 25.
Refrigerating apparatus. D. L. Kaufman. 2,319,993; May 25.
Refrigerating apparatus. L. A. Philipp. 2,319,878; May 25.
Refrigerating apparatus. C. A. Stickel. 2,320,055; May 25.
Refrigerating apparatus. R. H. Swart. 2,319,890; May 25.
Refrigeration. C. E. Ploeger. 2,320,097; May 25.
Regulator: *See*—
Voltage regulator.
Remote control system. F. H. Osborne and T. M. Wright. 2,319,945; May 25.
Remote selector and control system. H. L. Bryan and M. J. Binks. 2,319,788; May 25.
Repeating mechanism. D. L. Reynolds. 2,320,011; May 25.

Resilient body. W. W. Lins. 2,319,873; May 25.
Retainer, Lock. A. H. Golden and C. Ledin. 2,320,177; May 25.
Reversible single phase motor. G. W. Dunham, T. T. Woodson, and H. F. Bariffi. 2,320,176; May 25.
Rewind core and endpiece. E. R. Crebbs. 2,320,068; May 25.
Ring: *See*—
Deflector ring.
Ring traveler. M. L. Bolton. 2,320,212–13; May 25.
Road vehicle mounting. G. A. Collender. 2,319,978; May 25.
Roaster. L. J. Rosset. 2,320,304; May 25.
Roof and roofing material. D. E. Gray. 2,319,857; May 25.
Rotary drill bit. A. W. Kammerer. 2,320,137; May 25.
Rotary loop-taker for sewing machines. J. E. Wertz. 2,320,316; May 25.
Rotary pump. C. V. Copeland and F. S. Schrage. 2,319,776; May 25.
Rotary pump. E. Fowler. 2,319,856; May 25.
Rotary steel rail base stop clip. E. H. Heald, Jr. 2,319,862; May 25.
Rotary wing aircraft. C. G. Pullin. 2,319,781; May 25.
Rotor, Turbine. A. W. Carlson. 2,319,846; May 25.
Rubber hydrochloride film. W. C. Calvert. 2,319,918; May 25.
Rugs, Cleaning. V. M. Kalusdian. 2,320,281; May 25.
Safety device for elevating equipment. N. Severinghaus. 2,320,016; May 25.
Safety light and illuminating lamp, Combined. J. T. and E. T. Powell. 2,320,193; May 25.
Safety means for aircraft. J. B. Leake. 2,320,146; May 25.
Sailboat. R. V. Jennings. 2,319,999; May 25.
Sanitary device. G. S. Perlmutter. 2,320,156; May 25.
Sash and fastening means therefor, Double glazed. C. T. Cresswell and T. W. Harrison. 2,320,069; May 25.
Screen: *See*—
Vibrating screen.
Seal, Road joint rope. R. R. Robertson. 2,319,949; May 25.
Seat: *See*—
Motorcycle seat.
Seismic surveying. E. J. Shimek. 2,320,248; May 25.
Selecting system. N. I. Hall. 2,320,076; May 25.
Selector mechanism for automatic phonographs. F. H. Osborne and C. J. Hull. 2,319,946; May 25.
Separation of polynuclear from mononuclear aromatics. A. V. Grosse and J. M. Mavity. 2,319,813; May 25.
Servicing device, Crankcase. L. R. Parson. 2,320,048; May 25.
Sewer cleaning mechanism. G. A. Smith. 2,320,309; May 25.
Sewing machine attachments, Edge to edge. D. C. Everitt. 2,320,271; May 25.
Shelving, Sectional. H. C. Perry. 2,319,877; May 25.
Shield for windows, Heat saving. I. Goldmerstein. 2,320,125; May 25.
Shock absorber. J. Chudner. 2,320,221; May 25.
Shock absorber. M. Ireland. 2,319,997; May 25.
Shoe and its manufacture. H. L. Pierson. 2,319,879; May 25.
Shovel, Power. G. W. Dooley, E. W. and C. C. Baldwin. 2,319,921; May 25.
Sight training picture device. E. L. Black. 2,319,787; May 25.
Sign. B. H. Adler. 2,319,910; May 25.
Skirt, cape, and umbrella device, Convertible. S. Furman. 2,319,983; May 25.
Slack or cuttings removing device. W. T. McCullough. 2,320,004; May 25.
Sleeping bag. I. D. Taylor. 2,319,958; May 25.
Slide drawer construction. N. A. Gussack. 2,320,276; May 25.
Smoke preventer. G. M. Phillips and W. P. Rutherford. 2,320,299; May 25.
Soil treatment and composition therefor. B B. Barlow and J. D. Haynes. 2,320,060; May 25.
Solenoid operated valve. N. C. Price. 2,320,008; May 25.
Solvents, Production of. J. E. Harvey, Jr. 2,319,988–91; May 25.
Solvents, Production of refined. J. E. Harvey, Jr. 2,319,987; May 25.
Sorting apparatus. C. J. Frey. 2,320,227; May 25.
Sphygmomanometer cuff or band. R. B. Gray. 2,320,179; May 25.
Splint, Adjustable nose. D. R. Womack. 2,319,837; May 25.
Spray metal coated, metal surfaced articles. J. F. Meduna. 2,320,329; May 25.
Spray metal to metal surfaced substantially cylindrical objects. Application of. J. F. Meduna. 2,320,328; May 25.
Spraying loose material, Device for. T. R. James. 2,319,865; May 25.
Spring construction. A. W. Moske. 2,320,153; May 25.
Spring mattress and the like. L. S. Wallis. 2,320,020; May 25.
Stable, complex compound for use as a flour bleaching agent and as a convenient source of nitrogen oxides, Process of producing a. S. Z. Avedikian. 2,320,058; May 25.
Steel and articles produced therefrom, Columbium-bearing austenitic. V. B. Browne. 2,320,260; May 25.
Steel product and the manufacture thereof. H. N. Landis. 2,320,040; May 25.
Steering gear. H. E. Pulleyblank. 2,319,880; May 25.
Stem construction for vacuum tubes. H. L. Thorson. 2,320,204; May 25.
Sterol derivatives and producing same. E. Fernholz and H. E. Stavely. 2,319,808; May 25.
Stocking and manufacture thereof, Full fashioned. I. E. Solar. 2,320,250; May 25.
Stoker, Automatic. N. M. Lower. 2,319,935; May 25.
Stopper with applicator extension, Bottle. G. Grunberg. 2,320,323; May 25.
Stove. A. M. Cochran. 2,319,790; May 25.
Strap lock. C. J. Schell. 2,320,014; May 25.
Strip applying apparatus, Metal container side seam packing. P. E. Pearson. 2,319,825; May 25.
Sulphite process. G. V. Palmrose and D. K. MacHain. 2,320,294; May 25.
Sulphonamide-phenol-dihalide reaction products, Aromatic. W. H. Moss. 2,319,876; May 25.
Support: *See*—
Engine cowling support. Line support.
Suspension, Truck bolster. J. Ledwinka. 2,320,085; May 25.
Switch: *See*—
Two-button switch.
Switch operating apparatus, Railway. H. L. Bone. 2,320,171; May 25.
Switch recloser, Time-delay. T. Birkenmaier. 2,320,026; May 25.
Switching contact. R. C. Mathes. 2,319,937; May 25.
Switching mechanism. G. E. Atkins. 2,320,254; May 25.
Switching mechanism. V. F. Bohman. 2,320,258; May 25.
Synchronizing indicator. H. T. Seeley. 2,320,198; May 25.
System for testing resonant networks. C. E. Dennis and A. Heinz. 2,320,175; May 25.
Take-up mechanism. H. R. Patterson. 2,320,295; May 25.
Tank: *See*—
Flush tank.
Tape construction for separable fasteners. D. Marinsky. 2,319,874; May 25.
Target fish. H. J. La Due. 2,320,145; May 25.
Telephone system. W. H. T. Holden, F. A. Hubbard, B. F. Lewis, W. A. Malthaner, and V. G. Sprague. 2,320,081; May 25.
Telephoto method and apparatus. P. D. Zurian. 2,319,898; May 25.
Television. T. H. Chambers. 2,319,789; May 25.
Television. J. N. Dyer. 2,319,803–5; May 25.
Tension for shuttles. E. R. Holmes. 2,319,864; May 25.
Textile printing machine. G. W. Darenberg, and D. Shea. 2,320,269; May 25.
Textiles and the products produced, Making and treating. C. S. Francis, Jr. 2,319,809; May 25.
Textiles, Treating. R. N. Wallach. 2,319,834; May 25.
Thermoplastic lignocellulosic product and making the same. A. W. Schorger. 2,319,951–2; May 25.
Thermostatic protective circuit. V. G. Vaughan. 2,320,252; May 25.
Thrust bearing. O. D. H. Bentley. 2,319,913; May 25.
Tire building apparatus. E. Miller. 2,320,190; May 25.
Tire filling means. W. W. McMahan. 2,320,042; May 25.
Tire, Resilient. A. Jenewein and H. Spath. 2,320,331; May 25.
Titanium oxide production. C. M. Olson. 2,319,824; May 25.
Tool: *See*—
Body and fender tool. Gun boring tool.
Cultivator tool. Mechanic's tool.
Tool for applying armor to transmission line conductors. L. J. Kerby. 2,319,996; May 25.
Tool for high tension electric lines, Operating. D. C. Hubbard. 2,319,992; May 25.
Torque measuring wrench. H. W. Zimmerman. 2,320,023; May 25.
Totalizer. P. F. Grout. 2,320,275; May 25.
Tower unit for concrete mixers and the like. J. D. Farrell. 2,319,807; May 25.
Track and brake mechanism therefor, Railway. J. Ledwinka. 2,320,086; May 25.
Tractor. B. R. Benjamin and H. J. Mott. 2,320,168; May 25.
Trimming for overalls, Metal. F. E. Mefford. 2,320,152; May 25.
Truck pedestal structure, Railway. E. F. Dohe and W. J. Wilson. 2,319,920; May 25.
Tube: *See*—
Cathode ray tube. Electron discharge tube.
Tubing, Ornamental. H. Dreyfuss. 2,319,802; May 25.
Tunneling machine. C. C. Roe. 2,320,196; May 25.
Turret. R. H. Walker. 2,319,895; May 25.

12-ketostearamide, Making. W. E. Hanford and R. H. Wiley. 2,320,232; May 25.
Two button switch. E. G. Gaynor. 2,320,072; May 25.
2,4 lutidine and 2,5 lutidine, Separating. F. E. Cislak and O. D. Cunningham. 2,320,322; May 25.
Unit heater. L. F. Wilson. 2,320,207; May 25.
Valve: *See*—
Air valve.
Blow-off valve.
Pressure balance plug valve.
Solenoid operated valve.
Valve control. R. C. Benson and W. F. Plume. 2,319,842; May 25.
Vaporizer, Liquified gas. J. W. Martin. 2,319,819; May 25.
Vehicle lamp. G. F. Bahr. 2,320,209; May 25.
Ventilator. O. P. Cramer. 2,320,268; May 25.
Ventilator, Toilet. C. F. Briscoe and H. L. Graham. 2,320,065; May 25.
Vibrating screen. J. P. Hall. 2,319,901; May 25.
Viscosimeter. S. E. Buckley. 2,320,218; May 25.
Viscosimeter. S. E. Buckley and C. R. Hocott. 2,320,219; May 25.
Voltage regulator. A. L. Hopper. 2,320,237; May 25.
Voting machine. R. F. Shoup. 2,320,105; May 25.
Washer: *See*—
Fire hose washer.
Washing machine. W. B. Glisson. 2,320,230; May 25.
Water-alcohol solutions of amino acid-diamine-dibasic acid interpolymers. R. M. Leekley. 2,320,088; May 25.
Welded assembly. J. E. Anderson. 2,320,164; May 25.
Welding, Fusion. J. E. Anderson. 2,320,163; May 25.
Well drilling bit. A. W. Kammerer. 2,320,136–7; May 25.
Welt type shoe. M. L. Brown. 2,320,321; May 25.
Wheel: *See*—
Nontilting fifth wheel.
Windshield. C. F. Kramer. 2,319,869; May 25.
Wire uncoiling apparatus. C. R. Rohweder. 2,319,828; May 25.
Wrench: *See*—
Mechanical wrench.
Torque measuring wrench.
Wrench. O. Johnson. 2,320,083; May 25.
Wrench. H. H. Merriman. 2,320,044; May 25.
Wringer structure, Clothes. N. L. Etten. 2,320,226; May 25.
Yeast-treating process. W. P. Torrington. 2,319,831; May 25.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

MAY 25, 1943

The applications listed below have been vested by the Alien Property Custodian, who has authorized their publication. Printed copies of these applications as filed may be obtained from the Commissioner of Patents, Washington, D. C., for ten cents each. In ordering copies of these applications they must be ordered by serial number, the serial number to be preceded by the letters "A.P.C.".

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CLASS 210

A.P.C. 136,429. Taking-off devices for suction filters. Gustav Netzel, Dresden, Germany. Published May 25, 1943.

A.P.C. 161,690. Purification of water. Eugen Joseph Desroches, Courbevoie, France. Published May 25, 1943.

A.P.C. 183,454. Filter material. Walter Harz, et al., (Dormagen (Kreis Neuss), Germany. Published May 25, 1943.

A.P.C. 192,177. Process and apparatus for the reclaiming of used lubricating oils. Giacomo Bottaro, Genoa, Italy. Published May 25, 1943.

A.P.C. 213,689. Process and means for purifying water. Eugene Joseph Desroches, Courbevoie, France. Published May 25, 1943.

A.P.C. 216,342. Softening feed water for boilers. Karl Hermes, Mainz, Germany. Published May 25, 1943.

A.P.C. 244,582. Device for the continuous dialysis in counter-current of liquids containing substances in a colloidal state. Gerrit Willem Van Barneveld Kooy, The Hague, Holland. Published May 25, 1943.

A.P.C. 274,067. Process for fractionating mixtures of fatty acids and/or esters of fatty acids. Hans Paul Kaufmann, Munster, Germany. Published May 25, 1943.

A.P.C. 274,068. Process for refining and improving fats and simultaneously separating the accompanying substances therefrom. Hans Paul Kaufmann, Munster, Germany. Published May 25, 1943.

A.P.C. 276,020. Washing, detergent and softening agents. Ferdinand Bornemann, et al., Wiesbaden, Germany. Published May 25, 1943.

A.P.C. 279,533. Apparatus for the purification of liquids. Sandor Simkovitz, Budapest, Hungary. Published May 25, 1943.

A.P.C. 292,382. Method of and apparatus for the continuous purification of suspensions or sludges, especially of fibrous pulps of the paper industry. Helmuth Banning, Buren, Germany. Published May 25, 1943.

A.P.C. 303,853. Methods and means for purifying sewage and the like. August Schreiber, Stahnsdorf/Berlin, Germany. Published May 25, 1943.

A.P.C. 309,110. Process for drying by centrifugal action of juicy materials with particular regard to olives. Elio Adolfo Perogio, Sanseverino Marche, Italy. Published May 25, 1943.

A.P.C. 310.261. Process for the separation of yeast from yeast suspensions. Max Petrus Jozef Maria Jansen, Amsterdam, The Netherlands. Published May 25, 1943.

A.P.C. 311,682. Method of separating slimes containing fibrous materials. August Gotte, Frankfurt/Main, Germany. Published May 25, 1943.

A.P.C. 383,062. Gastight housing for filters. Paul Jodeck, Karl Fischer, et al., Berlin, Germany. Published May 25, 1943.

A.P.C. 395,894. Dialyzing diaphragm. Walter Schmid, et al., Wolfen (Kreis Bitterfeld), Germany. Published May 25, 1943.

CLASS 214

A.P.C. 373,295. Pusher rams for coke ovens. Heinrich Koppers, Essen, Germany. Published May 25, 1943.

A.P.C. 376,394. Apparatus for feeding rod-shaped articles onto dipping plates. Alfred Hetz, Stein, near Nurnberg, Germany. Published May 25, 1943.

CLASS 215

A.P.C. 253,936. Germ-proof closures for containers. Arno Schade, Dusseldorf, Germany. Published May 25, 1943.

A.P.C. 264,425. Lidded vessels. Kotaro Takahashi, Tokyo-Shi, Japan. Published May 25, 1943.

A.P.C. 274,832. Bottle closure. Anna Netalova, et al., Prague, Bohemia-Moravia. Published May 25, 1943.

A.P.C. 275,201. Bottle closing device. Nikolaus Meurer, Cologne, Germany. Published May 25, 1943.

A.P.C. 388,867. Closing device for organism culture vessels. Hans Knoll, Jena, Germany. Published May 25, 1943.

A.P.C. 436,532. Bottle closure of the crown-cork type and sealing disc for the same. Friedrich Ottenstein, Copenhagen, Denmark. Published May 25, 1943.

CLASS 218

A.P.C. 268,414. Method for inside riveting by means of hollow rivets and means for achieving the same. Adamo Cucchi, et al., Sesto S. Giovanni, Milan, Italy. Published May 25, 1943.

A.P.C. 406,071. Riveted joints. Jean Emile Francois Gobin dit Daude, Neuilly-Sur-Seine France. Published May 25, 1943.

A.P.C. 406,072. Riveted joints. Jean Emile Francois Gobin dit Daude, Neuilly-Sur-Seine, France. Published May 25, 1943.

CLASS 219

A.P.C. 152,008. Device for connecting sheet metal members. Gerhard Heim, Sindelfingen, Germany. Published May 25, 1943.

A.P.C. 232,236. Process for heating solid, liquid or gaseous bodies. Bernhard Berghaus, et al., Berlin-Lankwitz, Germany. Published May 25, 1943.

A.P.C. 232,237. Electric reaction furnace. Bernhard Berghaus, et al., Berlin-Lankwitz, Germany. Published May 25, 1943.

A.P.C. 317,610. Electrical heating devices. Georg Barth Mossin, Oslo, Norway. Published May 25, 1943.

A.P.C. 324,000. Heating system. Giusto Catalani, Genova-Bolzaneto, Italy. Published May 25, 1943.

A.P.C. 369,882. Process of manufacturing a built-up permanent magnet. Takeshi Iseki, Toyonaka, Japan. Published May 25, 1943.

A.P.C. 377,905. Welding rod, and in particular electrode for electric arc welding. Camille Cito, Uccle-Brussels, Belgium. Published May 25, 1943.

A.P.C. 380,728. Electric device and method for heating materials. Frans Michel Penning, Eindhoven, Holland. Published May 25, 1943.

A.P.C. 412,345. Electrical heating of articles made of glass or other vitreous material. Maurice Descarsin, Paris, France. Published May 25, 1943.

CLASS 220

A.P.C. 238,039. Seamless drum for use in high-pressure boilers and the like. Maximilian von Schwarz, Freiberg, Germany. Published May 25, 1943.

A.P.C. 242,591. Closure for containers. Alfons Mauser, Rondorf Bei Cologne, Germany. Published May 25, 1943.

A.P.C. 304,414. High pressure container. Emil Kopf, et al., Dortmund, Germany. Published May 25, 1943.

A.P.C. 310,770. Closure device for boxes and the like. Giuseppe Bagnato, Milan, Italy. Published May 25, 1943.

A.P.C. 333,240. Polygonal tank. Hans Schmuckler, deceased, by Walter Grimpe, executor, of Berlin-Wilmersdorf, Germany. Published May 25, 1943.

A.P.C. 337,853. Refrigerator boxes. Rudolf Hintze. Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 340,456. Closure devices. Richard Blau, Jr., et al., Dittersdorff, Germany. Published May 25, 1943.

A.P.C. 348,520. Closures for containers. Heinz Grabener, Koln-Ehrenfeld, Germany. Published May 25, 1943.

A.P.C. 373,033. Opening tins and other containers. Birger Johnsen, Sandnes Pr. Stavanger, Norway. Published May 25, 1943.

A.P.C. 375,071. Refrigerator cabinets. Rudolf Hintze, Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 412,522. Packing in tins. King Theodoor Limm, Soerabaja, Java, Netherlands, East Indies. Published May 25, 1943.

CLASS 221

A.P.C. 307,509. Coin-watermeter. Frederik Van Der Plas, Bandoeng, Java, Netherlands, East Indies. Published May 25, 1943.

A.P.C. 326,088. Device for expelling the contents of collapsible tubes. Cornelis Josef Camfens, et al., Middleharnis, The Netherlands. Published May 25, 1943.

A.P.C. 356,770. Packing for fluids. Louis De Kadt, Amsterdam, Holland. Published May 25, 1943.

CLASS 223

A.P.C. 365,712. Coat-hanger with sinking-bow. Willi Basener, BerlinNeukolln, Germany. Published May 25, 1943.

CLASS 224

A.P.C. 347,271. Carrying system. Emile Torcheux, Paris, France. Published May 25, 1943.

CLASS 226

A.P.C. 265,334. Method of attaching closure caps. Herman Lewin, Rosmalen, Netherlands. Published May 25, 1943.

A.P.C. 268,442. Packing machine. Charles Alexandre Nicolle, Montrouge, France. Published May 25, 1943.

A.P.C. 297,010. Method of filling butter into receptacles. Niels Kjaegaard-Jensen, et al., Hillerod, Denmark. Published May 25, 1943.

A.P.C. 315,260. Means for conveying materials from one machine to another. Valdimir Dimitrijevic Popov, Prague-Bubenec, Bohemia and Moravia. Published May 25, 1943.

A.P.C. 326,558. Method and apparatus for filling containers. Marie Joseph Maurice De Milleville, Paris, France. Published May 25, 1943.

CLASS 229

A.P.C. 260,391. Paper container, method for tight sealing a paper container and blank for paper container. Harry Lehmann, Dusseldorf, Germany. Published May 25, 1943.

A.P.C. 263,139. Powder box having a hermetic and inviolable closure. Andre Albert Samuel, Paris, France. Published May 25, 1943.

A.P.C. 269,063. Bag. Adolf Rambold, Dresden, Germany. Published May 25, 1943.

A.P.C. 291,094. Paper container. Ewald Schoeller, Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 296,723. Sealing means for valve bags. Eberhard Holzapfel, Krefeld, Germany. Published May 25, 1943.

A.P.C. 333,243. Bag with insoluble, automatic fold closing. Adolf Rambold, Dresden, Germany. Published May 25, 1943.

A.P.C. 335,634. Closing and clamping device. Miksa Gerendas, Budapest, Hungary. Published May 25, 1943.

A.P.C. 400,879. Bag. Adolf Rambold, Dresden, Germany. Published May 25, 1943

CLASS 230

A.P.C. 205,992. Regulating devices for superchargers of internal combustion engines. Albert Stieglitz, Berlin-Spandau, Germany. Published May 25, 1943.

A.P.C. 227,468. Internal combustion engines. Fritz Egersdorfer, Berlin, Germany. Published May 25, 1943.

A.P.C. 290,346. Centrifugal fans. Ferdinando Ferre, Milan, Italy. Published May 25, 1943.

A.P.C. 321,834. Rotary blower. Bruno Heimbach, Stuttgart, Germany. Published May 25, 1943.

A.P.C. 328,949 Single action high speed multicylinder pumps. Auguste Adelin Gustave Magis, Paris, France. Published May 25, 1943.

A.P.C. 342,342. Super-charge-regulator for air plane cabins. Hans Jde, Falkenberg, near Grunau, Germany. Published May 25, 1943.

A.P.C. 344,165. Centrifugal supercharges for internal combustion engines. Alessandro Baj, Milan, Italy. Published May 25, 1943.

A.P.C. 377,704. Multi-stage compressors. Wilhelm Weimar, Berlin-Siemensstadt, Germany. Published May 25, 1943.

A.P.C. 382,106. Plants for distributing air under pressure and in constituting parts thereof. Charles Raymond Waseige, Rueil-Malmaison, France. Published May 25, 1943.

A.P.C. 391,00. Electric vacuum cleaner. Jan Van Der Heem, The Hague, The Netherlands. Published May 25, 1943.

A.P.C. 416,566. Pneumatic drive of the gyroscopes on board aircraft. Charles Raymond Waseige, Rueil Seine-Et-Oise, France. Published May 25, 1943.

A.P.C. 443,966. Production of compressed air on board aircraft. Charles Raymond Waseige, Rueil, France. Published May 25, 1943.

CLASS 233

A.P.C. 194,265. Purification of pulp. Hellmuth Banning, Duren/Rhld, Germany. Published May 25, 1943.

A.P.C. 372,013. Separator. Wilhelm Wilsmann, Oelde, Germany. Published May 25, 1943.

CLASS 234

A.P.C.. 257,685. Instruments for supervising the running of power driven vehicles. Paul Riegger, Villingen, Black Forest, Germany. Published May 25, 1943.

A.P.C. 285,684. Printing apparatus. Erich Komusin, Frankfurt A. Main, Germany. Published May 25, 1943.

A.P.C. 291,698. Devices for the numerical fixing of the measuring figure of measuring instruments, particularly of pairs of scales. Sandor Toth, Budafok, near Budapest, Hungary. Published May 25, 1943.

A.P.C. 306,027. Printing device for scales. Alfred Sessler, Berlin-Adlershof, Germany. Published May 25, 1943.

A.P.C. 308,278. Printing device for scales. Arthur Hahn, Balingen, Germany. Published May 25, 1943.

A.P.C. 309,053. Arrangement for photographically recording variable processes. Heinrich Kaiser, Jena, Germany. Published May 25, 1943.

A.P.C. 338,695. Apparatus for recording the speed of a vehicle. Charles Hilaire Henri Rodanet, Neuilly-Sur-Seine, France. Published May 25, 1943.

A.P.C. 352,111. Automatic dial changing recorder. Franz Fornbacher, Villingen/Schwarzwald, Germany. Published May 25, 1943.

A.P.C. 366,933. Recording spindle. Rudolf Hell, Berlin-Dahlem, Germany. Published May 25, 1943.

A.P.C. 416,911. Apparatus for recording rapidly varying processes. Ernst Jacobi, Oslo, Norway. Published May 25, 1943.

CLASS 235

A.P.C. 86,664. Process for the registration of business transactions. Erich Mez, et al., Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 135,324. Register moved by the paper carriage. Hugo Kammel, Thuringia, Germany. Published May 25, 1943.

A.P.C. 146,302. Adding machine. Kurt Somieski, et al., Hamburg, Germany. Published May 25, 1943.

A.P.C. 146,897. Bookkeeping machine. Robert Anschutz, Zella-Mehlis, Thuringia, Germany. Published May 25, 1943.

A.P.C. 172,446. Calculating and registering machine. Ulrich Eichler, Glashutte, Germany. Published May 25, 1943.

A.P.C. 182,336. Calculating machines, cash registers or the like. August Friedrich Pott. Zella-Mehlis, Thuringia, Germany. Published May 25, 1943.

A.P.C. 212,349. Apparatus for determining the magnitudes required for parallax correction. Karl Papello, Jena, Germany. Published May 25, 1943.

A.P.C. 219,076. Total-taking mechanism. Robert Anschutz, et al., Zella-Mehlis, Thuringia, Germany. Published May 25, 1943.

A.P.C. 219,078. Calculating machine. Robert Anschutze, et al., Zella-Mehlis, Thuringia, Germany. Published May 25, 1943.

A.P.C. 227,220. Accounting Machines. Heinrich Konrad Friedrich Ewald, et al., Chemnitz, Germany. Published May 25, 1943.

A.P.C. 234,006. Calculating typewriters. Hugo Schuler, et al., Chemnitz, Germany. Published May 23, 1943.

A.P.C. 241,672. Typewriting calculating machines, booking machines, and similar machines. Robert Anschutz, Zella-Mehlis, Germany. Published May 25, 1943.

A.P.C. 251,634. Typewriting-calculating machines with total taking mechanism, and to similar machines. Robert Anschutz, et al., Zella-Mehlis, Germany. Published May 25, 1943.

A.P.C. 259,030. Complementary totaliser. Hugo Ernst Kammel, Zella-Mehlis, Germany. Published May 25, 1943.

A.P.C. 262,519. Calculating machines. Angelo Raimondi, Milan, Italy. Published May 25, 1943.

A.P.C. 262,552. Calculating machine. Karl Berthold Wilhelm Kiel, Glashutte, Germany. Published May 25, 1943.

A.P.C. 269,265. Electrical calculating apparatus. Fritz Mezger, Paris, France. Published May 25, 1943.

A.P.C. 279,077. Decadic keying mechanism for accounting machines or the like. Johannes Sobisch, Bielfeld, Germany. Published May 25, 1943.

A.P.C. 282,870. Perforated cards in connection with tabulating machines. Knut Andreas Knutsen, Paris, France. Published May 25, 1943.

A.P.C. 285,733. Control element for statistical machines. Michael Maul, Berlin-Johannisthal, Germany. Published May 25, 1943.

A.P.C. 287,630. Computing mechanism for cash registers and the like. Marcel Demeulenaere, Brussels, Belgium. Published May 25, 1943.

A.P.C. 287,668. Coupling device for typewriting calculating machines. Hugo Ernst Kammel, Zella-Mehlis, Germany. Published May 25, 1943.

A.P.C. 287,669. Locking mechanism for typewriting calculating machines. Hugo Ernst Kammel, Zella-Mehlis, Germany. Published May 25, 1943.

A.P.C. 287,671. Register for typewriting calculating machines. Hugo Ernst Kammel, Zella-Mehlis, Germany. Published May 25, 1943.

A.P.C. 287,672. Mechanism for controlling total and subtotal taking operations for typewriting calculating machines. Hugo Ernst Kammel, Zella-Mehlis, Germany. Published May 25, 1943.

A.P.C. 288,057. Calculating machines. Ulrich Eichler, Glashutte in Saxony, Germany. Published May 25, 1943.

A.P.C. 288,964. Displacing device for the numeral wheel carriage in a rotary calculating machine. Torajiro Ohmoto, Higashiyodogawaku, Osaka, Japan. Published May 25, 1943.

A.P.C. 288,965. Transferring device for the figures in a calculating machine. Torajiro Ohmoto, Higashiyodogawaku, Osaka, Japan. Published May 25, 19343.

A.P.C. 295,224. Record controlled machine. Michael Maul, Berlin-Johannisthal, Germany. Published May 25, 1943.

A.P.C. 301,289. Controlling mechanism for accounting machines. August Friedrich Pott, Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 305,382. Key interlock and release for cash register. Biagio Beria, Turin, Italy. Published May 25, 1943.
A.P.C. 308,260. Accounting machine. Hermann Rauh, Berlin-Zehlendorf, Germany. Published May 25, 1943.
A.P.C. 308,261. Carriage control for accounting machines. Hermann Rauh, Berlin-Zehlendorf, Germany. Published May 25, 1943.
A.P.C. 308,262. Accounting machine. Hermann Hauh. Berlin-Zehlendorf, Germany. Published May 25, 1943.
A.P.C. 310,079. Calculating machine cash register or the like. August Friedrich Pott, Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 310,080. Calculating machine cash register or the like. August Friedrich Pott, Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 314,407. Stamping and marking machine. Jean Mercier. Neuilly-Sur-Seine, France. Published May 25, 1943.
A.P.C. 316,824. Calculating machine. Felix Pappe, Paris, France. Published May 25, 1943.
A.P.C. 321,161. Record card for card controlled machines. Georges Vieillard, Paris, France. Published May 25, 1943.
A.P.C. 326,111. Control gear for clutches in adding machines. August Friedrich Pott. Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 336,047. Stamping machine. Wilhelm Friedrichs, Berlin-Reinickendorf-Ost, Germany. Published May 25, 1943.
A.P.C. 338,272. Typewriter calculating machines. Robert Anschutz, et al., Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 344,454. Calculating machine Rudolf Martin, et al., Seeburg (Osthavelland), Germany. Published May 25, 1943.
A.P.C. 353,408. Calculating or bookkeeping machines. Walter Hoszler, et al., Chemnitz, Germany. Published May 25, 1943.
A.P.C. 355,383. Selecting mechanism for calculating machines. Karl Berthold Wilhelm Kiel, Glashutte, Germany. Published May 25, 1943.
A.P.C. 361,145. Hand-operated cash register. Biagio Beria, Turin, Italy. Published May 25, 1943.
A.P.C. 363,552. Printing calculating machines, adding machines, cash registers or the like. August Friedrich Pott, Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 363,566. Totalizers. Robert Anschutz, Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 370,154. Indicating means for taxi meters. Paul Riegger, Villingen/Schwarzwald, Germany. Published May 25, 1943.
A.P.C. 373,996. Device applicable for bookkeeping-calculating and similar machines. Robert Anschutz, et al., Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 391,202. Booking machines, especially typewriting-calculating machines equipped with total-taking control mechanisms. Robert Anschutz, Zella-Mehlis, Germany. Published May 25, 1943.
A.P.C. 393,133. Method and apparatus for counting blood corpuscles. Jan Kielland, Bergen, Norway. Published May 25, 1943.
A.P.C. 403,580. Cash register. Biagio Beria, Turin, Italy. Published May 25, 1943.

CLASS 236

A.P.C. 327,512. Flue gas control devices. Guido Wunsch, et al., Berlin, Germany. Published May 25, 1943.
A.P.C. 354,449. Control device for once-through vapor generators. Ferdinand Riedel, Berlin-Mariendorf, Germany. Published May 25, 1943.
A.P.C. 421,940. Heat producing and consuming systems. Wilhelmus Cornelis Kool, et al., Wassenaar, The Netherlands Published May 25, 1943.

CLASS 238

A.P.C. 364,319. Rail fastening. Valentin Retterath, Iversheim, near Munstereifel, Germany. Published May 25, 1943.
A.P.C. 401,901. Oblique junction-plane rail joint. Manlio Cipolla, Pavia, Italy. Published May 25, 1943.

CLASS 240

A.P.C. 285,165. Pick-ups and circuits therefor. Manlio Marzetti, Milan, Italy. Published May 25, 1943.
A.P.C. 325,317. Method and means for the illumination of paintings. Walther Thorner, Berlin-Zehlendorf, Germany. Published May 25, 1943.
A.P.C. 335,177. Vehicle lamps. Aroldo Chiti, Turin, Italy. Published May 25, 1943.
A.P.C. 374,940. Lantern head for hurricane lamps. Bruno Nier, Beierfeld, Germany. Published May 25, 1943.
A.P.C. 375,429. Scale illumination. Alwin Weber, Berlin, Germany. Published May 25, 1943.
A.P.C. 384,868. Reflectors for head lights. Friedrich Richard Dietrich, Munich, Germany. Published May 25, 1943.
A.P.C. 384,869. Headlight reflector. Friedrich Richard Dietrich, Munich, Germany. Published May 25, 1943.
A.P.C. 433,386. Projectors. Ettore Salani, Rome, Italy. Published May 25, 1943.

CLASS 242

A.P.C. 81,737. Dispensing devices. Karl Ludwig Schiff, Berlin, Germany. Published May 25, 1943.
A.P.C. 212,674 Traversing means for winding machine. Wilhelm Reiners, et al., M.-Gladbach, Germany. Published May 25, 1943.
A.P.C. 319,192. Joining paper reels. Paul Dietrich, Augsburg, Germany. Published May 25, 1943.
A.P.C. 319,977. Supporting and actuating means for a vertically reciprocating member. Carlo Schleifer, Milan, Italy. Published May 25, 1943.
A.P.C. 326,641. Cross winding frame. Wilhelm Esser, et al., Munchen-Gladbach, Germany. Published May 25, 1943.
A.P.C. 337,038. Joining paper reels. Paul Dietrich, Augsburg, Germany. Published May 25, 1943.
A.P.C. 383,084 Winding frame. Wilhelm Reiners, et al., Munchen-Gladbach, Germany. Published May 25, 1943.
A.P.C. 405,443. Reels or spools for motion picture films. Dimitri Obolensky, Dresden, Germany. Published May 25, 1943.

CLASS 244

A.P.C. 223,406. Helicopters. Raoul Hafner, Vienna, Germany. Published May 25, 1943.
A.P.C. 225,352. Covering for air-planes. Gustav Wilmanns, et al., Wolfen (Kreis Bitterfeld), Germany. Published May 25, 1943.
A.P.C. 226,191. Propelling plant for air craft. Claude Dornier, Friedrichshafen, Lake of Constance, Germany. Published May 25, 1943.
A.P.C. 231,882. Multimotor airplane. Claude Dornier, Friedrichshafen, Germany. Published May 25, 1943.
A.P.C. 235,640. Boundary layer control in aerofoils. Hendrik Karel Dominicus Van Den Bussche, Amsterdam, Holland. Published May 25, 1943.
A.P.C. 245,580. Aeroplane supporting wing. Joseph Ksoll, Breslau, Germany. Published May 25, 1943.

A.P.C. 252,299. Brake for aircraft. Claude Dornier, Friedrichshafen, Germany. Published May 25, 1943.
A.P.C. 254,867. Helicopter having twin intermeshing rotors. Anton Flettner, Berlin-Johannisthal, Germany. Published May 25, 1943.
A.P.C. 264,004. Stabilizers for aircrafts. Paul Aime Richard, Clichy, France. Published May 25, 1943.
A.P.C. 267,138. Device for heating surfaces of aircraft exposed to freezing. Otto Neumann, Frankfurt-on-the-Main, Germany. Published May 25, 1943.
A.P.C. 272,042. Aircraft control. Henrich Focke, Bremen, Germany. Published May 25, 1943.
A.P.C. 283,255. Driving means for air pumping devices on airplanes. Herbert Wagner, Dessau, Germany. Published May 25, 1943.
A.P.C. 283,962. Aircraft fuselage. Claude Dornier, Friedrichshafen, Germany. Published May 25, 1943.
A.P.C. 288,461. Retractable wheel mounting for aircraft. Charles Raymond Waseige, Rueil, France. Published May 25, 1943.
A.P.C. 288,462. Retractable landing gear for aircraft. Charles Raymond Waseige, Rueil, France. Published May 25, 1943.
A.P.C. 291,636. Construction of airplanes. Alfred De Muyser, Luxemburg, Luxemburg. Published May 25, 1943.
A.P.C. 292,640. Automatic locking device for undercarriage. Jean Mercier, Neuilly-sur-Seine, France. Published May 25, 1943.
A.P.C. 297,773. Astronautic vehicle. Luigi Gussalli, Brescia, Italy. Published May 25, 1943.
A.P.C. 306,424. Aircraft construction. Otto Oeckl, et al., Berlin, Germany. Published May 25, 1943.
A.P.C. 309,655. Supporting surfaces for aircrafts. Louis Bechereau, Paris, France. Published May 25, 1943.
A.P.C. 312,691. Automatic steering device for aircraft. Adam Kronenberger, Berlin, Germany. Published May 25, 1943.
A.P.C. 318,343. Devices for airchuts. Rene Tauty. Clichy, France. Published May 25, 1943.
A.P.C. 323,201. Aeroplanes and hydroplanes having folding wings. Emile Julien Eugene Dewoitine, Neuilly-sur-Seine, France. Published May 25, 1943.
A.P.C. 326,529. Devices for absorbing shocks especially for parachute. Rene Tauty, Clichy, France. Published May 25, 1943.
A.P.C. 326,648. Automatic steering devices. Waldemar Moller, et al., Berlin-Zehlendorf, Germany. Published May 25, 1943.
A.P.C. 330,007. Landing gears with dirigible landing wheel. Pierre Ernest Mercier, Neuilly-sur-Seine, France. Published May 25, 1943.
A.P.C. 335,573. Supporting elements for aircrafts. Louis Arsandaux, Orleans, France. Published May 25, 1943.
A.P.C. 337,848. Air transfer arrangements. Franz Villinger, Dessau, Germany. Published May 25, 1943.
A.P.C. 340,196. Parachute with variable surface. Giuseppe Liso, Spoleto, Italy. Published May 25, 1943.
A.P.C. 340,336. Aircraft wing. Emil Scheler, et al,. Vegesack, near Bremen, Germany. Published May 25, 1943.
A.P.C. 340,799. Exhaust gas pipe for airplanes. Alfred Hettich, Esslingen-am-Neckar, Germany. Published May 25, 1943.
A.P.C. 342,756. Airplane landing gear. Jean Mercier, Neuilly-sur-Seine, France. Published May 25, 1943.
A.P.C. 357,045. Control device for varying the speed of parachutes during the descent. Giuseppe Lisi, Rome, Italy. Published May 25, 1943.
A.P.C. 358,731. Wing for aircrafts with a variable surface even during the flight. Giovanni Pelessoni, Udine, Italy. Published May 25, 1943.
A.P.C. 359,941. Control means for aircraft wing flaps. Carlo Gliubich, Milan, Italy. Published May 25, 1943.
A.P.C. 365,430. Rudder machines for automatic pilots. Adam Kronenberger, Berlin, Germany. Published May 25, 1943.
A.P.C. 366,353. Aeroplane float capable of being expanded and contracted. Toyosaburo Nakagawa, Shimonoseki, Yamaguchi-Ken, Japan. Published May 25, 1943.
A.P.C. 367,329. Automatic steering device for aircraft. Adam Kronenberger, Berlin, Germany. Published May 25, 1943.
A.P.C. 367,666. Reaction propelling device for aircrafts. Rene Anxionnaz, et al., Paris, France. Published May 25, 1943.
A.P.C. 373,622. Means for influencing the conditions of flow, particularly for power plants in aircrafts. Heinrich Neumann, et al., Munchen, Germany. Published May 25, 1943.
A.P.C. 373,714. Fighter planes. Rene Fonck, Paris, France. Published May 25, 1943.
A.P.C. 388,475. Aircraft wing. Rudolf Koch, Berlin-Grunau, Germany. Published May 25, 1943.
A.P.C. 388,039. Automatic piloting of marine or aerial vehicles. Marcel Louis Gianoli, Lyon, France. Published May 25, 1943.
A.P.C. 390,181. Parachute equipment. Akos Hehs, Szekesfehervar, Hungary. Published May 25, 1943.
A.P.C. 396,458. Aircrafts. Paul Aime Richard, Clichy, France. Published May 25, 1943.
A.P.C. 404,695. Aircraft plane. Ludwig Bolkow, Augsburg, Germany. Published May 25, 1943.
A.P.C. 404,951. Device for neutralizing the inertia of a vehicle body. Demeter A. Apostolou, Athens, Greece. Published May 25, 1943.
A.P.C. 430,821. Construction of retractable landing gear. Raymond Saulnier, Paris, France. Published May 25, 1943.
A.P.C. 430,970. Retractable tail landing gears for aircraft. Charles Raymond Waseige, Rueil, France. Published May 25, 1943.

CLASS 246

A.P.C. 320,937. Control system and method especially for railway car classification yards. Jean Rabourdin, Paris, France. Published May 25, 1943.

CLASS 248

A.P.C. 242,072 Suspension devices. Maurice Francois Alexandre Julien, Paris, France. Published May 25, 1943.
A.P.C. 288,972. Resilient suspension of vibrating bodies. Maurice Francois Alexandre Julien, et al., Paris, France. Published May 25, 1943.
A.P.C. 304,633. Resilient supports. Maurice Francois Alexandre Julien, Paris, France. Published May 25, 1943.
A.P.C. 310,722. Electro-motor driven vertical centrifugal machine. Jan Willem Lubberhuizen, Lobositz, Germany. Published May 25, 1943.
A.P.C. 314,001. Means for resilient mounting of units. Manlio Marzetti, Milan, Italy. Published May 25, 1943.
A.P.C. 346,924. Fastenings of instruments. Fritz Nallinger, Stuttgart, Germany. Published May 25, 1943.

CLASS 249

A.P.C. 298,141. Automatic weighing device. Theophile Rival, Brussels, Belgium. Published May 25, 1943.

A.P.C. 387,502. Filling and measuring device with balance including process. Adolf Rambold, Dresden, Germany. Published May 25, 1943.

CLASS 250

A.P.C. 85,166. Automatic selectivity control for radio receivers. Egon Nicolas Muller, Esch-sur-Alzette, Luxembourg. Published May 25, 1943.

A.P.C. 90,702. Cathode ray tube control circuits. Wolfgang Federmann, Berlin, Germany. Published May 25, 1943.

A.P.C. 120,900. Amplifier with secondary electronic emission. Pierre Chevallier, Paris, France. Published May 25, 1943.

A.P.C. 181,087. Selectivity apparatus. Ladislas De Kramolin, Berlin-Kladow, Germany. Published May 25, 1943.

A.P.C. 215,248. Control system for resistance welding. Gerhard Hagedorn, Berlin-Halensee, Germany. Published May 25, 1943.

A.P.C. 239,153. Braun tube. Kurt Schlesinger, Berlin, Germany. Published May 25, 1943.

A.P.C. 242,441. Fluorescent screens. Josef Heinrich Hartmann, Rudolstadt, Germany. Published May 25, 1943.

A.P.C. 254,581. Braun tubes. Maximilian Messner, Berlin, Germany. Published May 25, 1943.

A.P.C. 260,249. Aerial for motor vehicles. Johannes Gabler, Stuttgart-Unterturkheim, Germany. Published May 25, 1943.

A.P.C. 267,210. Cathode ray beam deflection apparatus. Max Geiger, Berlin, Germany. Published May 25, 1943.

A.P.C. 268,262. Cathode ray tube. Hanns-Heinz Wolff, Berlin, Germany. Published May 25, 1943.

A.P.C. 272,073. Electronic scanning devices for television. Andre Paul Paumier, Sceaux, France. Published May 25, 1943.

A.P.C. 274,145. Radio direction finding systems. Ernst Kramar, Berlin, Germany. Published May 25, 1943.

A.P.C. 314,195. Receiver. Hans Leo Dietrich, Berlin, Germany. Published May 25, 1943.

A.P.C. 321,239. Electronic microscope. Ernst Ruska, et al., Berlin-Spandau, Germany. Published May 25, 1943.

A.P.C. 322,891. Loop antenna with iron core. Fritz Bergtold, Kiel, Germany. Published May 25, 1943.

A.P.C. 323,450. Radio apparatus. Leon Ladislaus De Kramolin, Haarlem, Holland. Published May 25, 1943.

A.P.C. 324,963. Receiver for frequency modulated waves. Ernst Hermann Plump, Berlin, Germany. Published May 25, 1943.

A.P.C. 331,054. Light sensitive layers. Paul Gorlich, Dresden, Germany. Published May 25, 1943.

A.P.C. 334,552. Cathode ray tube. Wilhelm Riedel, et al., Berlin, Germany. Published May 25, 1943.

A.P.C. 342,615. Radio tuning units. Fritz Bergtold, Kiel, Germany. Published May 25, 1943.

A.P.C. 343,131. Device for resetting or correcting key tuning devices. Alfred Schone, Berlin-Tempelhof, Germany. Published May 25, 1943.

A.P.C. 353,755. Hollow space radiator. Walter Dallenbach, Berlin, Germany. Published May 25, 1943.

A.P.C. 356,260. Electrostatic lenses for corpuscular ray apparatus. Bodo Von Borries, et al., Berlin-Spandau, Germany. Published May 25, 1943.

A.P.C. 358,686. Röntgen tube with anode turning about its longitudinal axis. Kurt Schwarzer, Berlin, Germany. Published May 25, 1943.

A.P.C. 359,951. Electron tubes. Heinz Schmellenmeier, Berlin, Germany. Published May 25, 1943.

A.P.C. 359,952. Electron tubes. Felix Herringer, Berlin, Germany. Published May 25, 1943.

A.P.C. 363,862. Arrangement for the automatic tuning of a transmitter antenna. Erich Dolle, et al., Berlin, Germany. Published May 25, 1943.

A.P.C. 365,560. Fault indicator device for amplifier tubes. Hans Joachim Frundt, et al., Berlin, Germany. Published May 25, 1943.

A.P.C. 367,194. Device for enlarging the image of rapid occurrences, particularly of the oscillogram of a Braun tube. Karl Kohl, Berlin, Germany. Published May 25, 1943.

A.P.C. 367,424. Transmitting arrangement for aeroplane navigation. Karl Kohl, Berlin, Germany. Published May 25, 1943.

A.P.C. 372,886. Luminescent material. Willem Leendert Carolus Van Zivet, et al., Eindhoven, Holland. Published May 25, 1943.

A.P.C. 374,322. System for directive radiation of electromagnetic waves. Hatsutaro Matsudaira, Hsingking, Manchoukuo. Published May 25, 1943.

A.P.C. 374,460. Cathode ray tube. Hanns-Heinz Wolff, Berlin, Germany. Published May 25, 1943.

A.P.C. 374,461. Electrical light impulse generator. Hanns-Heinz Wolff, Berlin, Germany. Published May 25, 1943.

A.P.C. 374,712. Circuit for the transmission of electrical oscillations. Maximiliaan Julius Otto Strutt, et al., Eindhoven, Holland. Published May 25, 1943.

A.P.C. 376,309. Electronic microscopes. Manfred Von Ardenne, Berlin-Lichterfelde-Ost, Germany. Published May 25, 1943.

A.P.C. 376,930. Device for dissociating the electric charges of a gas or of a gaseous mixture. Aristide Peycelon, et al., Paris, France. Published May 25, 1943.

A.P.C. 377,299. Electron tubes. Rudolf Scharfnagel, Stuttgart, Germany. Published May 25, 1943.

A.P.C. 377,718. Diaphragms for electron optical apparatus. Manfred Von Ardenne, Berlin-Lichterfelde Ost, Germany. Published May 25, 1943.

A.P.C. 386,266. Cathode ray tubes. Maximilian Messner, et al., Berlin, Germany. Published May 25, 1943.

A.P.C. 387,645. Electron tubes. Edmund Lopp, Berlin, Germany. Published May 25, 1943.

A.P.C. 388,936. Directional antenna with suppressed lobes or ears. Ernst Gerhard, Berlin, Germany. Published May 25, 1943.

A.P.C. 389,323. Rectifiers for voltage duplicating circuits. Felix Herriger, Berlin, Germany. Published May 25, 1943.

A.P.C. 393,263. Electron tube device for ultra short waves. Alfred Allerding, Berlin-Friedrichshagen, Germany. Published May 25, 1943.

A.P.C. 394,993. Receiver with nearby, or remote motor tuning and with band width control. Heinz Boucke, Berlin, Germany. Published May 25, 1943.

A.P.C. 395,021. High tension apparatus. Kurt Bischoff, Erlangen, Germany. Published May 25, 1943.

A.P.C. 397,647. Orientation systems. Pierre Marie Gabriel Toulon, Neuilly-sur-Seine, France. Published May 25, 1943.

A.P.C. 401,038. Device for the production of visible or photographic images with employment of neutrons as depicting radiation. Hartmut Israel Kallmann, et al., Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 401,039. Method and device for depicting objects by means of neutrons or X-rays. Hartmut Israel Kallmann, et al., Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 401,099. Transmitters for testing radio receivers. Kurt Koschmeider, Berlin, Germany. Published May 25, 1943.

A.P.C. 401,473. An arrangement to disconnect transmitter tubes in case of flashovers or short-circuits. Wilhelm Kummerer, Berlin, Germany. Published May 25, 1943.

A.P.C. 401,781. Electronic lens. Ernst Ruska, Berlin-Spandau, Germany. Published May 25, 1943.

A.P.C. 401,813. Electronic microscopes. Manfred Von Ardenne, Berlin-Lichterfelde-Ost, Germany. Published May 25, 1943.

A.P.C. 402,827. Reception of frequency modulated waves. Otto Irslinger, Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 407,735. Secondary electron amplifiers. Adrianus J. W. M. Van Overbeek, Eindhoven, Holland. Published May 25, 1943.

A.P.C. 407,738. Electron discharge devices. Johan Lodewijk Hendrik Jonker, Eindhoven, Holland. Published May 25, 1943.

A.P.C. 408,830. Electronic microscopes. Bodo Von Borries, et al., Berlin-Spandau, Germany. Published May 25, 1943.

A.P.C. 409,384. Apparatus for treatment of nerves and muscles by means of electric impulses. Preben Morland, et al., Gentofte, Denmark. Published May 25, 1943.

A.P.C. 409,385. Apparatus for treatment of nerves and muscles by means of electric impulses. Preben Morland, et al., Gentofte, Denmark. Published May 25, 1943.

A.P.C. 417,655. Cathode ray tube. Klemens Ohl, Stockdorf B. Munchen, Germany. Published May 25, 1943.

A.P.C. 418,750. Dynamic multiplier. Rolf Colberg, et al., Berlin-Lichterfelde, Germany. Published May 25, 1943.

A.P.C. 418,762. Compensating arrangement for television tubes. Ulrich Knick, Berlin-Zehlendorf-West, Germany. Published May 25, 1943.

A.P.C. 421,298. Electron discharge devices. Klaas Posthumus, et al., Eindhoven, Holland. Published May 25, 1943.

A.P.C. 421,310. Cathode ray tube system. Johannes de Gier, Eindhoven, Holland. Published May 25, 1943.

A.P.C. 422,216. Luminescent material. Heinrich Strubig, et al., Teltow, Germany. Published May 25, 1943.

A.P.C. 427,599. Aerial systems. Tjiske Douma, Eindhoven, Holland. Published May 25, 1943.

A.P.C. 430,602. Electric discharge tubes. Frederik Coeterier, Eindhoven, Holland. Published May 25, 1943.

A.P.C. 436,535. Multiple strand aerials. Pierre Paul Gamet, Paris, France. Published May 25, 1943.

A.P.C. 442,373. Coupling systems for loading devices such as aerials. Pierre Paul Gamet, Paris, France. Published May 25, 1943.

A.P.C. 442,374. Aerial systems for radio beacons. Pierre Paul Gamet, Paris, France. Published May 25, 1943.

A.P.C. 445,888. Multi-anode electron tubes and working circuits therefor. Giulio Pasqualigo, Genoa, Italy. Published May 25, 1943.

A.P.C. 628,674. Antenna structures. Walter Max Hahnemann, Berlin-Marienfelde, Germany. Published May 25, 1943.

CLASS 251

A.P.C. 319,423. Slide valves for liquids and vapors with bilaterally acting gates. Bernhard Vervoort, Dusseldorf, Germany. Published May 25, 1943.

A.P.C. 330,197. Valves or obturating devices for fluid pipes and containers under high pressure, particularly fire extinguishers and the like. Valentin Remus, Brussels, Belgium. Published May 25, 1943.

A.P.C. 368,491. Reversible valve for a pump. Toranosuke Ohno, Azabu-Ku, Tokyo, Japan. Published May 25, 1943.

A.P.C. 375,511. Tire valves. Georg Hoffmann, Nurnberg, Germany. Published May 25, 1943.

A.P.C. 392,571. Valve systems. Jean Louis Gratzmuller, Paris, France. Published May 25, 1943.

A.P.C. 394,323. Regulator valve for internal combustion engines. Fritz Gosslau, et al., Berlin-Charlottenburg, Germany. Published May 25, 1943.

CLASS 252

A.P.C. 53,933. Process for making an emulsion for mortar tempering. Carl Letters, Koln, Germany. Published May 25, 1943.

A.P.C. 107,398. Manufacture of soap. Adolf Welter, Krefeld-Rheinhafen, Germany. Published May 25, 1943.

A.P.C. 271,343. Production of bodies which absorb gases and vapors. Georges Francois Jaubert, Paris, France. Published May 25, 1943.

A.P.C. 303,897. Disinfecting agents. Gunther Endres, Hamburg, Germany. Published May 25, 1943.

A.P.C. 306,413. Process for the production of nitrogen-phosphoric acid compounds. Rudolf Watzel, Mannheim, Germany. Published May 25, 1943.

A.P.C. 313,017. Method of washing white and coloured textile material. Anton Volz, Ludwigshafen-am-Rhein, Germany. Published May 25, 1943.

A.P.C. 327,344. Aqueous emulsions and process for their production. Adalbert Muller, Augsburg, Germany. Published May 25, 1943.

A.P.C. 342,564. Bar soap composition. Ferdinand Bornemann, et al., Wiesbaden-Biebrich, Germany. Published May 25, 1943.

A.P.C. 357,789. Process for producing of catalysts. Heinrich Brendlein, Frankfurt-Main-Ginheim, Germany. Published May 25, 1943.

A.P.C. 359,171. Method of producing foam baths. Leo Lowenstein, Berlin-Wilmersdorf, Germany. Published May 25, 1943.

A.P.C. 361,581. Corrosion preventing agents. Franz Gilov, Dessau, Germany. Published May 25, 1943.

A.P.C. 373,942. Art of carrying out exothermic reactions. Wilhelm Wenzel, Leuna, Germany. Published May 25, 1943.

A.P.C. 382,394. Lubricants. Mathias Pier, et al., Heidelberg, Germany. Published May 25, 1943.

A.P.C. 382,663. Process for producing catalysts. Herbert Berg, et al., Burghausen, Germany. Published May 25, 1943.

A.P.C. 384,741. Production of catalysts. Mathias Pier, et al., Heidelberg, Germany. Published May 25, 1943.

A.P.C. 384,803. Greasing agent. Gustav Lietz, Chemnitz, Germany. Published May 25, 1943.

A.P.C. 392,534. Process of producing aqueous emulsions, especially suitable for treating textiles, paper and leather. Adalbert Muller, Augsburg, Germany. Published May 25, 1943.

A.P.C. 395,896. Method of preventing natural combustion and overheating of sulphide ores and other mineral products. Katsuyuki Hikami, Tokyo, Japan. Published May 25, 1943.

A.P.C. 413,450. Washing and cleansing agent which remains homogeneous and a process for the preparation of such agent. Marie Joseph Hubert Edmond Hustinx, Maastricht, The Netherlands. Published May 25, 1943.

A.P.C. 416,424. Producing a washing agent and detergent. Ernst Schubert, et al., Jonsdorf, near Zittau, Germany. Published May 25, 1943.

A.P.C. 426,254. Process for laundering with hard water and soap or other laundering agents, and means for performing said process. Laurits Thorkild Schouboe Madsen, Holte, Denmark. Published May 25, 1943.

A.P.C. 434,620. Cleaning compositions in paste-form. Hermann Rudy, et al., Mannheim, Germany. Published May 25, 1943.

CLASS 253

A.P.C. 293,043. Steam turbines and more particularly to a disc therefor provided at both sides with blades. Ernst Gente, Berlin-Siemensstadt, Germany. Published May 25, 1943.

A.P.C. 353,551. Gas turbine. Alfred Schutte, Augsburg, Germany. Published May 25, 1943.

A.P.C. 365,892. Bladed disc for radial flow rotary machines. Ulrich Meininghaus, Muelheim-Ruhr, Germany. Published May 25, 1943.

A.P.C. 373,008. Blade carrying rotors for axial flow rotary machines. Ulrich Meininghaus, Muelheim-Ruhr, Germany. Published May 25, 1943.

A.P.C. 373,058. Steam turbines. Ernst Gente, Berlin-Siemensstadt, Germany. Published May 25, 1943.

A.P.C. 373,481. Turbine for steam, water and air. Alex Frederik George Glaser, Blimbing. Java, Netherlands, East Indies. Published May 25, 1943.

A.P.C. 379,610. Balancing the thrust of bladed discs in radial flow rotary machines. Ulrich Meininghaus, Muelheim-Ruhr, Germany. Published May 25, 1943.

A.P.C. 385,115. Elastic support of discs for radial flow rotary machines. Ulrich Meininghaus, Muelheim-Ruhr, Germany. Published May 25, 1943.

A.P.C. 385,333. Blade fastening for gas turbines. Alfred Schutte, Augsburg, Germany. Published May 25, 1943.

A.P.C. 385,334. Bladed gas turbine rotor made of ceramic materials. Alfred Schutte, Augsburg, Germany. Published May 25, 1943.

CLASS 254

A.P.C. 299,877. Winch provided with an automatic release at the end of the lifting operation. Roland Laraque, Paris, France. Published May 25, 1943.

A.P.C. 304,820. Rope drum with regulable hydraulic drive especially for lifts. Erwin Sturm, Boll Bei Goppingen, Germany. Published May 25, 1943.

A.P.C. 335,638. Locking mechanism for toothed racks, particularly for adjustable struts adapted for use on airplanes. Willy Lohs, Berlin-Siemensstadt, Germany. Published May 25, 1943.

A.P.C. 373,239½. Lifting jack for motor vehicles. Carl Schmitt, Leipzig, Germany. Published May 25, 1943.

CLASS 255

A.P.C. 271,524. Coring tool. Marcel Schlumberger, Paris, France. Published May 25, 1943.

A.P.C. 384,737. Percussion drill for drilling hard rock. Adolf Meutsch, Essen, Germany. Published May 25, 1943.

A.P.C. 399,916. Device for sinking a deep oil-well and simultaneously elevating sands and earths. Shigeru Shinomiya, Tokyo, Japan. Published May 25, 1943.

A.P.C. 399,917. Drilling device capable of acting transversely in a deep oil-well. Shigeru Shinomiya, Tokyo, Japan. Published May 25, 1943.

CLASS 256

A.P.C. 317,139. Snow screens. Poul Tholstrup, Roskilde, Denmark. Published May 25, 1943.

CLASS 257

A.P.C. 268,009. Apparatus for gas turbines. George Jendrassik, Budapest, Hungary. Published May 25, 1943.

A.P.C. 300,820. Heat exchange devices. Stefan Beck, Budapest, Hungary. Published May 25, 1943.

A.P.C. 344,769. Refrigerator. Bernhard Engels, Waldenburg-Altwasser, Am Sandberg, Germany. Published May 25, 1943.

A.P.C. 353,344. Heat exchange device of the lamellate type. Stefan Beck, Budapest, Hungary. Published May 25, 1943.

A.P.C. 389,131. Heat exchangers. Rudolf Hintze, Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 402,669. Heat exchanger. Ernst Nanz, Stuttgart, Germany. Published May 25, 1943.

CLASS 259

A.P.C. 317,206. Method of mixing or granulating of pulverulent and plastic materials of all kinds. Ludwig Eirich, deceased, by Gustav Eirich, Ludwig Eirich, Walaburga Eirich, Maria Hollerbach nee Eirich, Rosa Eirich, Johanna Eirich, Anna Eirich, of Hardheim, Baden, Germany, heirs at law, and Joseph Eirich, also of Hardheim, Baden, Germany. Published May 25, 1943.

A.P.C. 343,887. Mixing machine. Joseph Eirich, Hardheim-Nordbaden, Germany. Published May 25, 1943.

A.P.C. 368,050. Apparatus for mixing, sifting and kneading. Paul Vollrath, Koln-Am-Rhein, Germany. Published May 25, 1943.

A.P.C. 369,376. Process of and apparatus for making butter and cream. Willi Fritz, Weihenstephan, Germany. Published May 25, 1943.

CLASS 261

A.P.C. 236,006. Aircraft motor. Johannes Schmidt, Berlin-Eichkamp, Germany. Published May 25, 1943.

A.P.C. 351,470. Disintegratorlike devices. Max Aurig, Munchen, Germany. Published May 25, 1943.

A.P.C. 360,260. Bell-trays. Hellmut Giehne, et al., Ludwigshafen-on-Rhine, Germany. Published May 25, 1943.

A.P.C. 362,375. Removel of hydrogen sulphide from gases. Heinrich Koppers, Essen, Germany. Published May 25, 1945.

A.P.C. 369,478. Sieve-bottoms for distilling, rectifying and washing columns. Hellmut Stock, Berlin-Wannsee, Germany. Published May 25, 1943.

A.P.C. 391,968. Carburetters of the fuel injection type. Marcel Louis Mennesson, Neuilly-Sur-Seine, France. Published May 25, 1943.

A.P.C. 394,322. Regulating internal combustion engines. Fritz Gosslau, et al., Berlin-Charlottenburg, Germany. Published May 25, 1943.

A.P.C. 419,235. Apparatus for the absorption of gases in liquids. Rudolf Pflock, Nunchritz, near Grossenhain, Germany. Published May 25, 1943.

A.P.C. 419,507. Flotation-apparatus of the mechanically agitated type. Gino Sborlino, Milan, Italy. Published May 25, 1943.

A.P.C. 441,859. Carburettors. Claude Etienne Bonnier, Neuilly-Sur-Seine, France. Published May 25, 1943.

CLASS 263

A.P.C. 369,686. Fuel control devices for furnaces, more particularly for boiler furnaces. Manfred Zoege Von Manteuffel, Berlin-Steglitz, Germany. Published May 25, 1943.

A.P.C. 389,810. Process and apparatus for manufacturing burnt, molten or clinkerized materials and particularly cements. Pierre Coiffu, Paris, France. Published May 25, 1943.

CLASS 264

A.P.C. 372,968. Magnetic tachometers. Charles Hilaire Henri Rodanet, Neuilly-Sur-Seine, France. Published May 25, 1943.

A.P.C. 431,435. Governors. Hugo Kieser, Heidenheim, (Brenz), Germany. Published May 25, 1943.

CLASS 265

A.P.C. 297,006. Measuring instrument for determining the orbital acceleration and the functions thereof. Carl Von Den Steinen, Hamburg, Germany. Published May 25, 1943.

A.P.C. 318,932. Means for testing hardness of materials. Pierre Bollee, et al., LeMans, France. Published May 25, 1943.

A.P.C. 376,576. Microscope. Eugen Oskar Bernhardt, et al., Jena, Germany. Published May 25, 1943.

A.P.C. 377,395. Gravity meter. Anton Graf, Berlin-Steglitz, Germany. Published May 25, 1943.

A.P.C. 386,957. Weighing apparatus Valdimir Popov, Prague, Bohemia. Published May 25, 1943.

CLASS 266

A.P.C. 297,370. Method and apparatus for increasing the output of shaft furnaces, especially blast furnaces. Franz Bartscherer, Duisburg-Hamborn, Germany. Published May 25, 1943.

A.P.C. 363,041. Method and device for directly producing pig iron and steel from ores. Julius Lohse, Berlin, Germany. Published May 25, 1943.

A.P.C. 402,253. Continuous metallurgical treatment of raw materials. Julius Lohse, Berlin-Wilmersdorf, Germany. Published May 25, 1943.

CLASS 267

A.P.C. 244,160. Axle guiding arrangement for rigid axles, supported by springs which are freely yieldable under transverse forces. Max Wagner, et al., Stuttgart, Germany. Published May 25, 1943.

A.P.C. 262,509. Shock absorbing means for aircraft landing gear. Roland Laraque, Paris, France. Published May 25, 1943.

A.P.C. 285,256. Device for the suspension of vehicles. Jean Vancoppenolle, Caen, Calvados, France. Published May 25, 1943.

A.P.C. 294,520. Vehicle springing. Josef Muller, Stuttgart, Germany. Published May 25, 1943.

A.P.C. 296,851. Shock absorber for aircraft chassis. Eduard Tonnies, Frankfurt, Germany. Published May 25, 1943.

A.P.C. 310,799. Rear axle for motor vehicles. Fritz Fiedler, Munich, Germany. Published May 25, 1943.

A.P.C. 314,406. Deformable systems. Jean Mercier, Neuilly-sur-Seine, France. Published May 25, 1943.

A.P.C. 361,006. Means for preventing wabbling of vehicles provided with pneumatic shock absorbers. Baltus Boulogne, et al., Pengalengan near Bandoeng, Java, Netherlands East Indies. Published May 25, 1943.

A.P.C. 361,007. Pneumatic shock absorbers. Baltus Boulogne, et al., Pengalengan, near Bandoeng, Java, Netherlands East Indies. Published May 25, 1943.

A.P.C. 361,008. Means for reducing the slanting to a side of pneumatically supported vehicles. Baltus Boulogne, et al., Pengalengan, near Bandoeng, Java, Netherlands East Indies. Published May 25, 1943.

A.P.C. 368,848. Springing, specially of motor cars. Karl Wilfert, et al., Sindelfingen, Germany. Published May 25, 1943.

A.P.C. 368,849. Springing of motor cars with swinging half axles. Karl Wilfert, et al., Sindelfingen, Germany. Published May 25, 1943.

A.P.C. 381,312. Independent wheel suspension. Siegfried Wulff, Stuttgart-Bad-Cannstatt, Germany. Published May 25, 1943.

A.P.C. 381,313. Wheel suspension for vehicles, especially for motor vehicles having a supporting member mounted at the frame. Siegfried Wulff, Stuttgart-Bad-Cannstatt, Germany. Published May 25, 1943.

A.P.C. 381,314. Independent wheel suspension capable of yielding about a substantially vertical axis. Siegfried Wulff, Stuttgart-Bad-Cannstatt, Germany. Published May 25, 1943.

A.P.C. 392,169. Hydraulic shock absorber and landing gear embodying same. Charles Raymond Waseige, Rueil, France. Published May 25, 1943.

A.P.C. 396,778. Hydraulic damping and stabilising device. Andre Adolphe Morton, Paris, France. Published May 25, 1943.

A.P.C. 414,042. Vehicles, particularly motor vehicles having oscillating half axles. Otto Winkelmann, Stuttgart-Degerloch, Germany. Published May 25, 1943.

A.P.C. 414,147. Connection of a wheel suspension to the frame or body of a vehicle. Karl Wilfert, et al., Sindelfingen, Germany. Published May 25, 1943.

A.P.C. 415,007. Wheel suspension for vehicles. Max Wagner, Stuttgart, Germany. Published May 25, 1943.

CLASS 271

A.P.C. 328,859. Film treating machines. Walter Geyer, Berlin-Sudende, Germany. Published May 25, 1943.

A.P.C. 426,025. Apparatus for removing pass-differences. Georg Spiess, Leipzig, Germany. Published May 25, 1943.

A.P.C. 439,378. Apparatus for taking folded or unfolded sheets of paper from a pile thereof and conveying the same to a device for further treatment. Rudolf Hepp, Berlin, Germany. Published May 25, 1943.

A.P.C. 440,037. Pressing devices with an endless strip. Paul Vincent Thomas, Joinville-le-Pont, France. Published May 25, 1943.

CLASS 272

A.P.C. 387,749. Stretching apparatus. Hans E. Linthout, Krummhubel, Germany. Published May 25, 1943.

CLASS 273

A.P.C. 409,279. Racquet stringing machine. Martin Caro, et al., Brussels, Belgium. Published May 25, 1943.

A.P.C. 420,292. Tennis ball. Leon Sylvain Max LeJeune, Paris, France. Published May 25, 1943.

A.P.C. 437,188. Apparatus for rifle-practice. Miklos Nogrady, Budapest, Hungary. Published May 25, 1943.

CLASS 274

A.P.C. 272,668. Sound record material. Karl Daniel, Koln, Sulz, Germany. Published May 25, 1943.

A.P.C. 293,496. Tone arms. Manlio Marzetti, Milan, Italy. Published May 25, 1943.

A.P.C. 374,772. Automatic record disc changing device for grammophones. Alberto Compare, Milan, Italy. Published May 25, 1943.

A.P.C. 374,780. Method and device for mechanical recording. Arnaud Cramwinckel, et al., Eindhoven, Holland. Published May 25, 1943.
A.P.C. 393,493. Speaking machines. Gustav Fries, Berlin-Charlottenburg, Germany. Published May 25, 1943.
A.P.C. 413,560. Endless sound band with a mechanically reproducible sound record and method of producing same. Hugo Westerkamp, Koln-Poll, Germany. Published May 25, 1943.
A.P.C. 417,027. Bridging matrix for endless sound bands and method of producing such bands. Hugo Westerkamp, Koln-Poll, Germany. Published May 25, 1943.

CLASS 279

A.P.C. 279,774. Knife handles. Paul Jansen, Solingen, Germany. Published May 25, 1943.
A.P.C. 435,196. Hand pieces or holding devices for rotary tools as used by dentists. Claude Etienne Garnier, Besancon, France. Published May 25, 1943.

CLASS 280

A.P.C. 263,333. Chassis especially for motor vehicles. Max Wagner, Stuttgart, Germany. Published May 25, 1943.
A.P.C. 327,769. Elastic suspensions of axle aggregates. Karl Wilfert, Sindelfingen, Germany. Published May 25, 1943.
A.P.C. 374,216. Wheeled underframes, especially for trailers of motor cars. Kurt Schroter, et al., Wechmar/Gotha-Land, Germany. Published May 25, 1943.
A.P.C. 374,217. Cars, especially trailers, with tiltable body. Kurt Schoter, et al., Wechmar/Gotha-Land, Germany. Published May 25, 1943.
A.P.C. 374,842. Resilient connection of a wheel suspension or a suspension of an aggregate of an axle to a vehicle. Karl Wilfert, et al., Sindelfinfen, Germany. Published May 25, 1943.
A.P.C. 390,182. Motorcycle springs. Eric Latscher-Latka, Vienna, Germany. Published May 25, 1943.
A.P.C. 414,146. Movable connection of a vehicle body with the chassis or an axle aggregate. Karl Wilfert, et al., Sindelfingen, Germany. Published May 25, 1943.

CLASS 282

A.P.C. 370,548. Device for holding slips or the like, for accounting systems or statistic registrations or similar records and the respective apparatus for cutting the slips. Mario Pigni, Milan, Italy. Published May 25, 1943.
A.P.C. 406,566. Method for producing a control sheet, etc. Michael Antonius Hendrikus Van Den Akker, Voorburg (Z. H.), the Netherlands. Published May 25, 1943.

CLASS 285

A.P.C. 268,505. Hollow rod connection. Jakob Keulers, Hilden, Germany. Published May 25, 1943.
A.P.C. 293,149. Pipe joint packing means. Pierre Boissou, Pont A. Mousson, Meurthe et Moselle, France. Published May 25, 1943.
A.P.C. 321,769. Jet-pipe relay. Paul Peglau, Berlin-Steglitz, Germany. Published May 25, 1943.
A.P.C. 329,945. Connection for boring tubes. Jakob Keulers, Hilden, Germany. Published May 25, 1943.
A.P.C. 334,676. Trickle coolers. Ernst Nanz, Bretten, Germany. Published May 25, 1943.
A.P.C. 386,686. Tube couplings. Hans Kreidel, Wiesbaden, Germany. Published May 25, 1943.

CLASS 286

A.P.C. 303,345. Packing for vessel propeller shafts. Felix Antonius Huhn, Berlin-Charlottenburg, Germany. Published May 25, 1943.
A.P.C. 374,404. Arrangement for preventing the escape of oil from the axle boxes of railway vehicles. Gustav Stromeier, Berlin-Charlottenburg, Germany. Published May 25, 1943.

CLASS 288

A.P.C. 360,688. Vibration damping suspension. Hans Joachim Seidel, et al., Berlin-Wilmersdorf, Germany. Published May 25, 1943.

CLASS 292

A.P.C. 303,977. Door-latches, especially for motor vehicles. Anton Diemer, Stuttgart, Germany. Published May 25, 1943.
A.P.C. 360,523. Door latches. Anton Diemer, Stuttgart, Germany. Published May 25, 1943.
A.P.C. 368,728. Hollow glass handle for doors and window locks. Mario Jacuelli, Naples, Italy. Published May 25, 1943.

CLASS 294

A.P.C. 369,452. Grab for hoisting loads. Eward Scharpenberg, et al., Wetter/Ruhr, Germany. Published May 25, 1943.

CLASS 295

A.P.C. 296,710. Method of improving the surface of metallic parts. Gustav Semboner, Berlin-Tempelhof, Germany. Published May 25, 1943.

CLASS 296

A.P.C. 134,265. Motor car bodies. Freiherr Reinhard Koenig-Fachsenfeld, Stuttgart, Germany. Published May 25, 1943.
A.P.C. 194,754. Vehicle bodies. Karl Rabe, Stuttgart, Germany. Published May 25, 1943.
A.P.C. 236,633. Sheet metal body. Erwin Komenda, Korntal Bei Stuttgart, Germany. Published May 25, 1943.
A.P.C. 283,011. Vehicle body. Erwin Komenda, Korntal-Stuttgart, Germany. Published May 25, 1943.
A.P.C. 287,893. Guideways for sliding windows. Pierre Mesnel, Colombes, France. Published May 25, 1943.
A.P.C. 322,290. Car body. Kurt Kobligk, Berlin, Germany. Published May 25, 1943.
A.P.C. 368,684. Chassis for motor vehicles subdivided into a plurality of longitudinal sections. Bela Barenyi, et al., Boblingen, Germany. Published May 25, 1943.
A.P.C. 377,449. Automobile roof. Karl Tandetzke, Berlin, Germany. Published May 25, 1943.
A.P.C. 391,888. Vehicle body. Konrad Schulz, et al., Berlin-Spandau, Germany. Published May 25, 1943.

CLASS 299

A.P.C. 281,481. Injection nozzles for internal combustion engines. Willy Voit, Stuttgart, Germany. Published May 25, 1943.
A.P.C. 314,516. Cooled injection nozzle. Willy Voit, Stuttgart, Germany. Published May 25, 1943.
A.P.C. 330,226. Mechanical liquid fuel atomizing burner of variable discharge. Rene Anxionnaz, et al., Paris, France. Published May 25, 1943.
A.P.C. 388,699. Liquid spraying apparatus. Erik Rotheim, deceased, by Erica Rotheim and Hagbarth Rotheim, Oslo, Norway, heirs. Published May 25, 1943.

CLASS 301

A.P.C. 330,510. Running wheel support. Anton Lentz, Heidelberg, Germany. Published May 25, 1943.

CLASS 303

A.P.C. 381,146. Devices for controlling the brake action in railway cars and the like. Hans Kattwinkel, Radebeul, Germany. Published May 25, 1943.

CLASS 305

A.P.C. 342,188. Bushings. Fritz Pesarese, Hagen, Germany. Published May 25, 1943.
A.P.C. 368,866. Track chain vehicles. Wilhelm Jirsak, et al., Breslau, Germany. Published May 25, 1943.

CLASS 308

A.P.C. 315,990. Adjustable bearings. Theodor Wuppermann, et al., Leverkusen-Schlebusch by Koln/Rhein, Germany. Published May 25, 1943.
A.P.C. 320,217. Lubricating systems. Werner Schmidt, Torino, Italy. Published May 25, 1943.
A.P.C. 340,300. Bearing sleeve for rotary spindles in machine tools. Robert Wolfle, Berlin-Pankow, Germany. Published May 25, 1943.
A.P.C. 351,777. Bearings. Biagio Berla, Turin, Italy. Published May 25, 1943.
A.P.C. 368,292. Disengageable connection, especially of two conical rubber metal bushings. Bela Barenyi, Boblingen, Germany. Published May 25, 1943.

CLASS 309

A.P.C. 418,664. Piston coupling. Franz Neugebauer, Munich-Allach, Germany. Published May 25, 1943.

CLASSIFICATION OF PATENTS

ISSUED MAY 25, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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(Decisions of the United States Court of Appeals for the District of Columbia are indicated by the letter (*); and of the United States Court of Customs and Patent Appeals by a star (*).)

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June 1, 1943

Trade-Marks	54	No. 401,680 to No.	401,733, inclusive.
T. M. Renewals	76		
Reissues	2	No. 22,328 to No.	22,329, inclusive.
Patents	653	No. 2,320,334 to No.	2,320,986, inclusive.
Designs	32	No. 135,739 to No.	135,770, inclusive.
Total	817		

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., May 4, 1943.*

The Van Orden Shop Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Style Form Brassiere Co. Inc., 76 Madison Ave., New York, N. Y., to effect the cancellation of trade-mark registration of The Van Orden Shop Inc., 379 Fifth Ave., New York, N. Y., No. 274,501, dated August 26, 1930, and the notice of such proceeding sent by registered mail to the said The Van Orden Shop Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Van Orden Shop Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., May 12, 1943.*

A. Messuri & Son, their assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by The John B. Canepa Company, 302–312 West Grant Avenue. Chicago, Ill., to effect the cancellation of trade-mark registration of A. Messuri & Son, 2022 First Avenue, New York, N. Y., No. 257,591, dated June 11, 1929, and the notice of such proceeding sent by registered mail to the said A. Messuri & Son at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said A. Messuri & Son, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice

See page xxix for list of applications published by the Alien Property Custodian.

Reservation Clauses Not Permitted

RULE. 44. A reservation for a future application of subject-matter disclosed but not claimed in a pending application will not be permitted in the pending application.

Trade-Mark Registrations Canceled

221,110. Olive oil. George Booskos, New York, N. Y. Registered November 23, 1926. Canceled April 29, 1943.

300,933. A medicinal salve. Chin Yuk Sun, New York, N. Y. Registered February 14, 1933. Canceled April 29, 1943.

375,251. Braided and twisted cotton cord and twine, etc. John H. Graham & Co., Inc., New York, N. Y. Registered February 13, 1940. Canceled April 29, 1943.

380,850. Special preparation to be taken with warm or cold milk for use as a dietary supplement etc. L. H. Stewart Corporation, Rochester, N. Y. Registered September 3, 1940. Canceled April 29, 1943.

383,372. Cleaning solution consisting principally of a sodium hypochlorite compound used in washing and other household uses, etc. Bartlett Chemicals, Inc., New Orleans, La. Registered December 3, 1940. Canceled April 29, 1943.

385,075. A combination of soup seasonings, and noodles. The Pfaffman Company, Cleveland, Ohio. Registered February 11, 1941. Canceled April 29, 1943.

390,849. Decorative paper specialties, specifically table mats or doilies and paper borders. Trimz Company, Inc., Chicago, Ill. Registered October 7, 1941. Canceled April 29, 1943.

397,988. Cereal breakfast foods made of wheat and malted barley. Siems Bros., Inc., St. Paul, Minn. Registered September 29, 1942. Canceled April 29, 1943.

399,555. Watches and clocks. Emil Leichter, New York, N. Y. Registered January 12, 1943. Canceled April 29, 1943.

Conditions of Applications Under Examination at Close of Business May 15, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,578; Trade-Mark Division, 1089. Oldest new case, July 1, 1942; oldest amended, July 1, 1942)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	†Jan. 13	†Jan. 1	310
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	†Feb. 26	†Feb. 10	231
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	July 17	July 14	935
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 10	Nov. 28	390
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	Sept. 11	Sept. 2	505
6. GENIESSE, E. W., Carbon Chemistry (part)	Sept. 11	Sept. 18	1005
7. JARBOE, C. G., Optics, Photography	Oct. 20	Oct. 20	846
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 2	Nov. 2	620
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Sept. 25	Oct. 1	737
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	July 24	Dec. 3	289
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	†Jan. 9	Nov. 28	323
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Nov. 7	Nov. 20	634
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Jan. 22	†Jan. 13	427
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Nov. 12	Nov. 7	691
16. SPENCER, C. J., Telegraphy; Telephony	Oct. 8	Oct. 1	623
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Aug. 17	July 28	709
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 18	Sept. 16	544
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Aug. 28	Aug. 19	617
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Nov. 21	Nov. 28	431
21. THOMPSON, T. J., Textiles	Dec. 16	Dec. 29	305
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Aug. 8	Aug. 11	1725
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 26	Dec. 9	134
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	†Jan. 2	†Jan. 5	511
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 4	Oct. 13	588
26. YOUNG, R. R., Electricity—Generation and Motive Power	Oct. 1	Oct. 12	677
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 8	Oct. 12	551
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 24	Aug. 3	622
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 15	†Jan. 18	321
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 23	†Jan. 18	300
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Nov. 28	Nov. 28	1382
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Oct. 5	Oct. 5	627
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Dec. 28	Dec. 26	641
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Nov. 11	Nov. 13	399
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Dec. 29	Dec. 7	564
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Dec. 7	Oct. 23	377
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Jan. 4	Dec. 12	401
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Oct. 12	Oct. 21	604
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	†Jan. 29	†Jan. 27	394
40. DRUMMOND, E. J., Receptacles	†Feb. 1	†Feb. 1	323
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 30	Oct. 27	391
42. MARANS, H., Electric Signaling	†Jan. 5	†Jan. 5	329
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	July 13	July 15	863
44. HARVEY, L. P., Refrigeration	Sept. 23	Oct. 5	329
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Nov. 16	Dec. 8	705
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Oct. 6	Oct. 23	472
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Oct. 22	Nov. 9	1007
48. ROEPKE, O. B., Electricity, General Applications; Igniters	July 1	July 1	711
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Nov. 17	Nov. 3	584
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Oct. 19	Oct. 19	1204
51. BACKUS, C. D., Radiant Energy	Oct. 22	Oct. 24	1024
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Nov. 28	Nov. 5	661
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Feb. 22	†Feb. 9	184
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Oct. 9	Oct. 20	463
55. BOWEN, S. T., Artificial Body Members; Denistry; Surgery	Aug. 20	Aug. 20	776
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Oct. 31	Nov. 7	747
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewlry; Nut and Bolt Locks.	July 14	Aug. 18	456
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 26	Nov. 25	528
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	July 17	July 10	1245
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Aug. 29	Aug. 31	447
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Sept. 29	Nov. 2	558
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 27	†Jan. 19	446
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Sept. 23	Sept. 23	945
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Dec. 3	Dec. 2	1099
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Sept. 18	Sept. 24	691
Trade Marks: RICHMOND, F. A.	†Apr. 15	†Apr. 29	1049
Designs: KALUPY, H. H.	†Apr. 15	†Apr. 21	300

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

APPLEBY
v.
BECKMAN

No. 4,647. Decided December 1, 1942

[— F.(2d) —]

INTERFERENCE—PRIORITY.

Evidence reviewed and *Held* that A, the junior party, had not met the burden of proof resting upon him of establishing priority of conception by a preponderance of the evidence; that B, the senior party, was the first to conceive and the first to reduce to practice the well tool in issue; and that priority of invention properly was awarded to B.

APPEAL from the Patent Office. Affirmed.

Mr. J. Preston Swecker for Appleby.

Mr. Jack A. Schley for Beckman.

LENROOT, *J.:*

This is an appeal in an interference proceeding from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of the invention defined in the nine counts in issue to appellee, Fred G. Beckman.

The interference is between appellant's application No. 254,095, filed February 1, 1939, and the application of appellee, No. 291,087, filed August 19, 1939, which is a continuation in part of a former application, No. 233,754, disclosing the same invention, filed October 7, 1938.

During the motion period, appellee moved to shift the burden of proof based on his earlier filed application, which motion was granted by the Primary Examiner.

Therefore appellee became the senior party, and the burden was upon appellant to establish priority of invention by a preponderance of the evidence.

Count 4 is illustrative of the counts in issue and reads as follows:

4. In a well tool, the combination of a tubular drill stem having a drill bit therein, said drill stem having a passageway therethrough into the drill bit and having a lateral discharge opening in a wall thereof, a sleeve valve slidably mounted in the drill stem in position to close said lateral opening, resilient means acting on said valve in position to close the same, said valve having a central passageway therein, means for closing said valve passageway for opening the sleeve valve by pressure thereabove, and means for removing said passageway closing means by fluid pressure therebelow.

The involved invention is described by the Board in its decision as follows:

The device comprises a tubular housing or casing to be secured in the drill string directly above the drill bit. The casing is provided with apertures or ports in its sidewall. A sleeve is slidably secured within the casing to be moved from a position closing the ports to a position opening them. A spring normally urges the sleeve to port closing position. In this position normal drilling operations may be carried on with the usual reverse flow of the drilling fluid. When washing action is desired a ball or plug is inserted in the drill string and the direction of flow of the drilling fluid is reversed. The pressure of the fluid forces the ball or plug into seating engagement with the sleeve and causes it to move to port opening position. The seating of the ball in the sleeve also cuts off the flow of drilling fluid through the bit and causes it to flow laterally from the ports in the tool wall. The fluid thus is directed against the walls of the well and washes down the debris and loose material. When the washing action is completed the direction of flow of the drilling fluid is restored to normal and the ball or plug is forced upwardly in the drill string thus relieving the pressure on the sleeve which returns to its normal port closing position. The tool thus enables a washing action without the necessity of removing the drill string to change tools.

The only controverted issues before us are questions of fact. Each of the parties claims to be the sole and original inventor, and each claims derivation of the invention from him by his opponent.

Both parties took voluminous testimony.

Appellant, Appleby, testified that he was by occupation an oil well driller with eighteen years experience, and as an independent contractor in August, 1936, he finished drilling a wildcat well at Winona, Tex.; that upon completion of this project he watched a rig drilling-in a well using reverse circulation, and a day or two later he visited the Muskogee Iron Works at Muskogee, Okla., for the purpose of returning a derrick which he had rented from that concern; that while there he met appellee, Beckman, who was employed by the Muskogee company as consulting engineer; that at that meeting Beckman gave him a piece of literature describing the methods that he was using in drilling-in wells and cleaning-out wells in east Texas; that this method was known as "reverse circulation," and consisted of

"* * * a means of returning cuttings from the bottom of the hole, and cavings from the bottom of the hole, by pumping oil or fluid down the casing, around the outside of the rotating drill pipe, and returning the cuttings to the surface through the drill pipe";

that he became interested and about August 15, 1936, drove out and watched a rig installed by Beckman, which employed this method; that Beckman was present while the rig was working, and he, Appleby, talked with him there and with Beckman's driller, one V. E. Fisher; that Fisher told him of some difficulties which were encountered in operating the reverse circulation method; that within twelve or eighteen hours after leaving the rig that day, he conceived the involved invention, and he later went back to the Beckman rig and described it to Fisher; that he drew a rough sketch of the invention on the back of an envelope and showed it to Fisher. This sketch was not produced, but at the hearing Appleby drew a sketch which he testified was similar, except as to proportions, to the sketch that he showed to Fisher. This sketch was introduced in evidence as Appleby's Exhibit 1.

Appleby further testified that about two weeks after his conversation with Fisher he went to work for Beckman and was continuously employed by him as a superintendent of operations until about the 15th of December, 1938, when he was discharged; that in December 1936, he discussed with one Wagner, a superintendent of the Stanolind Oil and Gas Company, the general operation of the tool which he claims to have invented. His testimony upon this point is as follows:

A. I merely discussed with Mr. Wagner, the general operation of the tool, that there were to be ports in the

side of the drill collar that were to be opened, as the lower port or lower opening was closed, and that the fluid would be directed out directly against the wall of the well, instead of straight down, as would normally be the case without this tool.

Appleby further testified that in the early part of 1937 he discussed the invention with one Ray Fielder, a production foreman of the Skelly Oil Company. With respect to this discussion he testified:

Q. What disclosure of this idea did you make to Mr. Fielder?

A. Practically the same disclosure that I made to Mr. Wagner. I told him that I had in mind such a tool—a tool that would do the things that this tool does or is intended to do, and asked his opinion as to what he thought the value of it would be, in the kind of work that we were doing.

Appleby testified that in the early part of 1937 he disclosed the invention to Beckman, and suggested to him that he permit him, Appleby, to make such a tool and try it; that Beckman declined upon the ground that it would increase the cost of doing the clean-out work and that he was primarily interested in reducing the cost; that thereafter in the first three or four months of 1937 he disclosed the invention to one George Meither, who was the proprietor of "Meither's Machine Shop," and that he submitted to him a rough sketch of the invention and asked him to make an estimate of the price or cost of making the device; that Meither stated that it would cost between $125.00 and $150.00; that the device was not made at that time; that early in March, 1938, he again discussed the invention with Beckman. His testimony relative to this discussion reads as follows:

A. * * * He was in the hotel here at the time. It was one night that we were kind of visiting with him in his room. I made a rough sketch of it, very similar to the one that we have introduced as Exhibit No. 1. At that time Mr. Beckman told me—remarked that "we may have to sooner or later come to something of that nature, but at the present time, we seem to be getting along very well without it, and I had rather not do anything that would cause us to stay longer on the job than we are staying, as the principal value of our clean-out work, lies in our ability to do it cheaper than cable tools can do it."

Q. Did you describe to Mr. Beckman, in March of 1938, how this proposed tool would operate?

A. Yes, I made a rough sketch of it, and we didn't discuss it for any great length of time, just sufficiently, I think, for him—that I felt that he understood what I had in mind.

Q. Will you explain how much of a disclosure you made to him, aside from the sketch?

A. I merely discussed the wells that had caved in on us, and the ones that we had had some trouble with, and remarked that we should have some way of washing those wells, to make the debris cave off of the wall, and mentioned the fact that if we should make this tool, we could direct a stream of oil—that was the fluid we were using—direct a stream of oil against the sides of the wells and wash those walls off, and have the lower port closed.

Q. How was the drill pipe to be closed?

A. I intended to close it, by using a plug and this movable sleeve.

Q. Did you tell Mr. Beckman that?

A. I don't recall that I did, but it was necessary to show him the means that I had of opening it—show him what I had in mind and how the tool would work.

Q. What was Mr. Beckman's reaction at the time, in March of 1938?

A. Well, he didn't feel that the tool was necessary. We were doing quite a bit of work at the time, and he felt that the tool would increase the cost of doing the work; that it would keep us on the jobs longer; and most of our customers at that time, in fact, were complaining about our cost to them. We were charging much more than most of that type of equipment charges per day, for our work, though our total cost, in the end, was somewhat less than that of other equipment. I feel that Mr Beckman expressed himself that he was of the opinion, that by using this tool, we would have some tool on the job which would run our time up on each job considerably more than it was, and make the cost probably more than the cost of other methods.

With respect to other disclosures, appellant testified as follows:

Q. From 1936 to 1938, did you disclose this idea to anybody else, other than those that you have mentioned?

A. Oh, practically all of the men that were working for me, either knew through me or through some of the other men who were working with me.

Mr. Schley: We object to that answer, and move to strike it, as hearsay.

A. I did discuss it with several of the men, that I remember were working with me at times. Jack Thomas, J. L. Nix, Ottis Byrum, and various others, that I don't remember.

With reference to the first construction of the device embodying the invention, Appleby testified as follows:

Q. While you were still with Beckman, Inc., was a wash collar of this character ever built, so far as you know?

A. Yes. There was one built, and several others later. The first one we received sometime in the early part of September, about the first of September.

Q. Of what year?

A. Of 1938.

Q. Do you know what led to the building of that one, in September, 1938?

A. Well, I have always felt that it was my discussions of it. Mr. Beckman came to me in the summer of 1938, one day in the shop, and asked me if I thought a wash tool or drill collar that could be made to wash a well, would be practical, and if we had any need for it. I replied that I did think it would be practical, and I did feel a need for it, and that I had, on several occasions prior to that, mentioned it to him and asked him for one. He told me then that he didn't remember that I had ever mentioned it, and that Frank Denker had just mentioned it to him a few minutes before, in the office, and that it sounded like a mighty good idea to him. I told him then that I had been thinking of it for several years; that I thought it was a good idea, and that I would like to have one; and he replied, when he returned to Muskogee, he would make one and send it to me, and I should try it. And shortly after he returned to Muskogee, we received the wash tool.

Q. Where was that conversation with Mr. Beckman held?

A. In Beckman's shop, belonging to Beckman, Inc., in Odessa.

Appleby further testified that shortly after receiving the first tool Beckman sent him two other tools embodying the invention, and after some minor modifications made at the Meither Machine Shop, they were successfully operated.

Appleby further testified that two or three months after his employment by Beckman ceased he entered business for himself and engaged in the business of cleaning-out and drilling-in oil wells; that he had the Meither Machine Shop make for him a device embodying the involved invention according to a drawing made by him, and that thereafter this device was successfully operated by him. This drawing was introduced in evidence by Appleby.

With respect to appellant's application for a patent, he testified as follows:

Q. When did you take steps to apply for a patent on this tool?

A. About a week before I left Beckman, Inc., I made a drawing, preparatory to sending it to the Patent Office, for an application for patent.

* * * * * * *

Q. Did you ever discuss with Mr. Beckman, the question of applying for a patent on it?

A. No, I didn't. Mr. Beckman told me, however, right shortly after he brought the first tool down, that he had a patent on it. I didn't discuss it with him to any length, but he said he had a patent on it. And at that time, it seemed that he had obtained a patent on it because the next time I saw him was about a month later. I didn't known how long it took to get a patent, but I took it for granted that he had obtained a patent on the tool, or had bought one, or had one already issued, on a similar tool.

With respect to whether or not Beckman ever disclosed the invention to him, Appleby testified as follows:

Q. Mr. Appleby, did you ever make any demands on Beckman, Inc., or Mr. Beckman, on behalf of this wash tool invention?

A. No, I didn't.

Q. Why not?

A. Well, I felt that everbody in the organization knew at the time that it was mine; it was spoken of as mine, as the tool that I designed. When I first went to work for Mr. Beckman, I was promised an interest in the organization, and that had been discussed several times, between Mr. Beckman and myself, and I felt more or less like I owned an interest in the organization, or ought to, about that time.

Q. Did you ever receive any interest in the organization?

A. No, I didn't.

Q. Did Mr. Beckman ever disclose to you, a wash tool, as his invention?

A. No, I don't know that he ever disclosed one, and claimed it as his invention.

Q. Did he disclose any at all to you?

A. No, he did not.

Upon cross examination Appleby testified, in part, as follows:

Q. Did you and Mr. Beckman have any disagreement during the latter part of your employment, as an employee of the Beckman company?

Mr. Swecker: I object to this also, as outside of the direct examination.

Mr. Schley: Any circumstance relating to his employment by the Beckman Company, is believed to be proper examination.

A. Yes. We had some discussion and disagreement.

Mr. Schley: Q. Did you make any claim to Mr. Beckman, at this time, that the tool which they had built and you had used, was your invention?

A. I don't recall that I did, at that time.

Q. Insofar as Mr. Beckman understood, when you left the employ, according to anything that you told him at that time, you made no claim to the invention?

A. I didn't say anything to him about it at that time, that I recall. I don't recall that I even gave it any thought at that particular time. In fact, I am pretty sure that I didn't.

Q. Did you leave the employ of your own accord or were you requested to resign?

Mr. Swecker: I object for the same reason expressed above.

A. I was requested.

With respect to corroboration of Appleby's testimony relative to the invention, Fisher testified that appellant disclosed the invention to him in August, 1936, Fisher at that time being employed by Beckman; that he left Beckman's employ in October, 1936, and from that time until November, 1939, he had not been employed in that territory or had any experience with reverse circulation; that in November, 1939, the first time he had been in Appleby's shop, he recognized the tool embodying the invention and made the remark that "the old man had went ahead and built it." At the time his testimony in chief was taken, October, 1940, Fisher testified that he was in the employ of appellant, but when his rebuttal testimony was taken in January, 1941, he testified that he was no longer in appellant's employ.

Another witness on behalf of Appleby was one J. L. Nix who, at the time his testimony was taken, was an employee of Appleby.

Although Appleby did not testify to any specific disclosure of the invention to this witness, he, Nix, testified in detail to a disclosure made by Appleby to him in February, 1937, stating that Appleby drew "pictures" of the invention on a sketch pad in his room in the hotel.

The only reference made to this witness by Appleby in his testimony was that he discussed the invention with him and others.

Another witness for Appleby was one Ray Fielder, formerly an employee of the Skelly Oil Company, who testified to a disclosure to him by Appleby in the latter part of January, 1937. With respect to the nature of the disclosure he testified as follows:

Q. Do you know what is now called a wash tool or a wash collar?

A. Yes, I think I do.

Q. What do you understand it to be?

A. It is to be a tool that you can change the flow of the fluid and make it directly against the side of the well.

Q. When did you first hear of such a tool?

A. Between the 20th and the last of January, 1937.

Q. Where did you hear of it?

A. At Penwell.

Q. Who told you about it?

A. Mr. Appleby.

Q. What did he tell you about it at that time?

A. Well, he told me that he was working on a tool—understand formerly we had been washing through the bit and we didn't seem to have much luck with it, and he told me that he was working on a tool that he could direct the flow out through the sides instead of the bottom.

Q. Did he tell you what the construction would be?

A. Yes. Probably not in full detail, but I had an idea what he was talking about.

Q. Will you tell us what he told you at that time?

A. As I understand it, it was a tool that he had a sliding sleeve in it and this sleeve had a hole on each side, opposite, and you could drop a ball or plug in there and seat it, and your pump pressure would go out through the sides, and seal it off from the bottom.

Q. Did he tell you how he would get that plug out again?

A. Well, you pump it down through the tubing, and as you change your connection to pump back through the tubing, the flow of the fluid would lift it back through the tubing by the velocity of the flow inside your tubing.

George Meither, hereinbefore referred to, testified on behalf of Appleby, stating that in the early part of 1937 Appleby discussed with him the making of a "wash tool" or "wash collar"; that Appleby while describing the invention made a rough sketch of the device. This sketch was not produced, but the witness made a sketch during the taking of his testimony which he stated illustrated what Appleby described and illustrated to him. This sketch was introduced in evidence as Appleby's Exhibit 7. It clearly does not fully correspond to any of the counts before us.

He further testified as follows:

Q. Was any provision made for returning the plug, in his disclosure to you in 1937?

A. I don't think we talked about that.

Q. As that was disclosed to you in 1937, could you pump the fluid down through the tubing, into the bit?

A. Down through the bit?

Q. And through the bit?

A. Yeah.

Q. How would that go through, if you had a plug in there?

A. Well, we talked about putting a regular sand cap valve or something or other in there, into this plug; you see, this plug had a hole in it. I don't remember about that first one there; the first time we talked about it, *we didn't get very far along on it.* [Italics ours.]

Q. For what purpose did he disclose that to you, in the spring of 1937?

A. Well, he said it was a good tool to use, and he wanted to try to figure out something to work a little different from what they were, or it was something that was new, and he wanted to use it for the purpose of cleaning out a well.

Q. Did you understand at that time, whether or not that was Mr. Appleby's idea?

A. Yeah, the impression I got from him, it was, yeah.

Q. Did he ask you how much it would cost to build it?

A. Yes. I think we discussed it, the next day or two, when we talked about it some more.

Q. Do you remember what estimate you gave him?

A. Well, I told him at the time, I didn't know exactly, but it would run around $150.00 or $200.00 to build it.

Upon cross examination the witness testified that when appellant first talked with him about the device details were not discussed "other than just mentioned the body and the sleeve."

One H. C. Thomas was another witness on behalf of Appleby. He testified that he was an employee of Appleby and had been employed by Beckman from August 20, 1937, until the twenty-third day of January, 1939; that in the fall of 1937 there was difficulty about cave-ins in wells and water was poured in the wells which was allowed to stand overnight; that Appleby told him that he was working upon a tool that would stop the necessity for using water; that Appleby made no sketch of the device. The witness did not testify that Appleby disclosed the device other than in a very general way, but did disclose its mode of operation.

Another witness on behalf of Appleby was one Ottis Byrum, who testified that he was employed by Beckman as a driller; that the first time he ever heard of the involved device was from Appleby. Upon this point he testified as follows:

Q. What did he say about it?
A. Well, he said that when we got this wash collar, that it would give us more work, do a better job on the wells and give us more work.
Q. Was that before you had received one?
A. I don't even remember.
Q. Do you know what well that was?
A. No, I don't.
Q. Were you using a wash collar at that time, on that well?
A. I would say I don't know whether we were or not. I don't think we were. I was roughnecking at that time, and I wasn't very much interested in it.
Q. Do you recall when you next heard of a wash collar, after that?
A. No, I don't. The next time I ever paid any attention to a wash tool, was after I was advanced from roughneck to a driller and then I went to taking more interest in the thing and everything; and then, of course, I ran the wash tool, and I learned all about it.
Q. When were you advanced to a driller?
A. Well, it was some time along in the fall of the year—I don't know what month—in 1938.
Q. Before you were advanced to a driller, do you recall Mr. Appleby describing this tool to you?
A. On that first time that I ever heard anything said about a wash tool, Mr. Appleby described the wash tool to the crew of us boys that were out there that day, in fact, he drew a picture of it with a stick on the ground, and told us how it would work.
Q. How much of it did he describe?
A. The best I remember, he just drew a picture of the outfit, and had two holes in the side of it, and he told us how the fluid would come out those holes, and wash the walls of the well.
Q. Did he tell you anything about how the fluid was to be controlled?
A. Well, he might have, but I wasn't interested enough at that time, to pay any attention to that.
Q. Was that quite a little time before you were advanced to a driller?
A. Well, it couldn't have been too long. I'll say it couldn't have been over three or four or five months, or something like that, at the most.
Q. Did you know who was the originator of this wash tool?
A. No, I don't.
Q. Do you know Mr. Fred Beckman?
A. Yes.
Q. Did you ever hear Mr. Beckman describe to you, or to any other of the men, a wash tool, before you used one?
A. No sir.
Q. Do you know, Mr. Byrum, whether or not the men who worked for Beckman, Inc., regarded this as Mr. Appleby's or Mr. Beckman's, idea?
* * * * * * *
A. No.
* * * * * * *
Q. Did you ever hear any of the men speak of it as Mr. Appleby's idea?
* * * * * * *
A. Well, I have heard arguments on that—not arguments either. But certainly, I have heard the boys around on the streets, working for Beckman, and Appleby, talk about that, talk about who the wash tool originator was, or originator is; and of course I have heard some say that it was Mr. Appleby's, and some say that it was Mr. Beckman's.

Coming now to the testimony on behalf of Beckman, it was testified by him that he is a graduate of the University of Missouri, and in 1913 received a degree in electrical engineering; that he is president of Beckman, Inc., which is engaged in contracting for the drilling-in and cleaning-out and reconditioning of oil wells through "reverse circulation," (for which his company owned patents) together with a number of tools developed by him; that in September, 1933, while connected with the Muskogee Iron Works, he conceived the involved invention, and between that time and the first of the year, 1934, he disclosed it to M. N. Coles, employed by the Muskogee Iron Works as a draughtsman; that he also disclosed it during said time to C. B. Grant, a salesman for said company, and to J. R. Wright and W. J. Steiert, employees of said company; that later on he discussed it with Earl Anthis, an insurance man, W. R. Banker, an attorney, Fred Suhre, a pattern maker and E. F. Edwards, an employee of Beckman's but formerly a production superintendent for R. H. Dearing and Sons; that he also disclosed it to a number of other individuals, some of whom were not called as witnesses.

Beckman testified in detail as to his disclosure to Cole, stating that he drew some sketches to explain what he was talking about. These sketches were not produced. Beckman further testified that in the late summer of 1934 he explained the invention in detail to Banker and Anthis at a restaurant, drawing sketches of the same upon the tablecloth; that in November, 1935, he described the invention to one E. E. Kirkpatrick, who was then the superintendent of the Devonian Oil Company; that some months after the early spring of 1934 he discussed the invention with D. M. Wiley, treasurer of the Muskogee Iron Works, and that in the fall of 1935, he disclosed it to Henry Burns and Alvin Burns; that in June, 1936, and again about the middle of August, 1936, he disclosed the invention to E. F. Edwards, explaining to him in detail its construction; that in the fall of 1933 and in 1934, he disclosed it to W. J. Steiert, an employee of Beckman's company; that in the fall of 1934 or early spring of 1935, he disclosed the invention to Frank Denker, then employed by the Shell Petroleum Company. It appears that Denker is a brother-in-law of Beckman and at the time the testimony was taken was employed by Beckman's company.

Of the witnesses called on behalf of Beckman and relied upon for corroboration of Beckman's testimony respecting conception of the invention, Edwards, Denker and Steiert were, at the time the testimony was taken, employees of Beckman's company, and Coles was employed by the Muskogee Iron Works.

M. N. Coles, one of the witnesses relied upon for corroboration of Beckman's testimony, testified, in part, as follows:

Q. When he (Beckman) told you about this wash tool did he explain how he was going to make it?
A. He and I had several discussions as to just what would be the best thing. That was one thing Mr. Beckman and I used to do. We had some pretty hot arguments over whether this way or some other way would be the best.
Q. Did you have any of those arguments in 1935?
A. Yes, sir. I would say we probably had some of them in 1934.

Q. Well, now, did you have any in 1936?
A. Yes.
Q. Now, did he tell you the details in any of his arguments as to how he was going to make the wash tool, describe any of the parts to you?
A. Yes, he did.
Q. Do you recall in a general way how he proposed to construct the tool?
A. Well, you might call it a body and would have to have the proper thickness of the wall, it would have to have a different wall section than the ordinary pipe, and be a piston or sleeve or something in there that could be forced down by pump pressure uncovering ports in the side of it and these ports would be small enough so the velocity of the fluid working out would wash the side of the hole.
Q. Did he tell you anything about whether it was to be hollow?
A. Well, the piston or sleeve would necessarily have to be hollow in order to allow the fluid to come back up through the tubing when the circulation was reversed to what was called conventional—it would therefore flood the removable plug at some point, so as to force this piston or sleeve down to uncover those ports and at the same time would be removable, to allow the reverse circulation.
Q. Did that plug go down the whole sleeve?
A. Yes, it would have to go down to the holes in the center as I say, so you could not pump directly out of the bottom but it would have to go out of the sides of the tool.
* * * * * * *
Q. Is this drawing, Exhibit C, a fair representation of the working system—contemplated working system?
A. Yes, although it does not go into all of the details, but it was a drawing. This primarily I would say was a drawing to get in concrete form what conditions your tools, or the well, might be in.
Q. I see, and I believe I understand that the substance of your discussion with Mr. Beckman prior to making this drawing in July, 1938, was of other systems to circulate down through the bottom of the well and force out the cuttings and wash the bottom of the well?
A. Yes, sir.
* * * * * * *
Q. You were asked on cross examination concerning the sketch—concerning Exhibit C. I understood from your answer that you only discussed the reverse circulation system of pumping fluid down through the bit, is that correct?
A. That wasn't my intention to answer it that way. It was customary when Mr. Beckman and myself would make up some kind of a drawing or sketch, which would in a general way represent the idea that we had in mind to then use that as a basis in our discussions and arguments, whether it would work or whether it would not work, and while that represented in a general way the reverse circulating project it was also to be used in discussing some means for getting a washing action on the walls of the hole there.

It is conceded that the drawing referred to does not disclose the involved invention.

The witness, Denker, testified very vaguely as to a disclosure made by Beckman to him in May, 1935. His only positive testimony upon the subject reads as follows:

Q. I show you a photostat of drawing in the application of Fred G. Beckman, No. 233,754, and ask you if you can understand that kind of drawings?
A. Yes, I can, I believe.
Q. What does it show?
A. Well, it shows the wash tool.
Q. Does it show the system that he gave you in May of 1935?
A. Yes, I think it does, very much so.
Q. And does it conform or does it not conform to the mental picture that you got from the disclosure that he made to you?
A. Well, I would say it does.
Mr. Swecker: We object to the leading manner of the examination and showing the witness the drawing before he was able to describe the subject matter.

The witness, Steiert, also testified as to a conversation with Beckman in May or June, 1936, regarding the invention, but his testimony concerning what Beckman said to him falls short of disclosing the invention in issue.

The witness, Kirkpatrick, testified that he was an oil producer, and that previous to July 31, 1940, he had for a period of twenty-one and a half years been production superintendent for the Devonian Oil Company; that in November, 1935, Beckman cleaned out a well for his company. He further testified as follows:

Q. Did you have any conversation with Mr. Beckman at that time about his tools?
A. Well, that well was more or less of an experiment in that type of cleaning-out at that time and we put burlap out away from the well to catch the sand in and we found a lot of paraffin in the material and cavings which came out of the hole and Mr. Beckman came up to see how it was operating and we got along pretty well until we found this paraffin and he suggested he could use a spray on the side of the walls up higher by using a ball in his tubing that would reverse the circulation and either pump it down or pump it out the shot hole of the well and clean it out either way and we were back behind the engine house as I remember it, when we were discussing it and we discussed the fact that it would be a good thing if it was developed and it could be used to wash down the sand and the paraffin at the same time under pressure.
Q. Did he tell you how he would arrange that inside or outside to make it work?
A. He said he was going to use a ball with a spring in it.
Q. A spring?
A. Yes, sir, and I could see from a practical standpoint the advantages of it and I made the remark at the time, I said, "Fred, I think you have something there and I would be willing to put some money in it." It looked good to me for the reason that in fifteen minutes you could either wash the walls of the shot hole down and then turn around and put your fluid down below without drawing your bit and you could wash down the walls and keep doing that until you had cleaned out the shot hole.
Q. Did he tell you what he was going to use that spring for?
A. The spring would trip a sleeve in there and let the sleeve either down or up, I forgot which it would be, so it would open the holes on the side of the tool and would plug the lower opening and the fluid would operate out on the walls of the well.
Q. What did the ball do?
A. It would stop the fluid from going on down where the bit was.
Q. Did the ball have anything to do with the spray going out on the sides?
A. The ball would be to hold the spring so after you release the spring or sleeve in there it makes the openings open is the way I understood it. I didn't go into all of the details with him.
Q. Did he tell you how he would get the ball out?
A. Yes, sir, he could reverse the circulation and turn around and pump it out in five minutes; that's the way I understood it and from a practical standpoint it would save pulling your tubing and running it again and on a job that would ordinarily take you several days to do you could do it his way in five or six or ten hours.

The witness, Edwards, testified that about the middle of August, 1936, Beckman fully disclosed the invention to him; that he described at length the details of such disclosures and Edwards stated that in his presence Beckman drew a sketch of the device in a time book kept by Beckman. Said page containing a sketch was marked "Beckman's Exhibit D" and was introduced in evidence by Beckman. Thereafter Appleby introduced in evidence the remaining pages of the book which was marked Appleby's Exhibit 11.

Alvin G. Burns, engaged in the oil business, testified that in July, 1936, he visited a Beckman rig employing reverse circulation. He further testified as follows:

Q. Now, did Mr. Beckman ever explain to you, the purposes to you, of the tools that he was going to use?
A. Oh, yes. That was what made us so interested in it, was the fact that he could wash out the gelatinous precipitate and then after it washed down from the walls of the well it was carried out by reverse circulation.
Q. Now, did he ever explain to you, discuss with you the tool which he called a wash tool?
A. Yes, he did.
Q. Do you remember when he discussed that tool with you?
A. At the well down there in east Texas, and during our discussion before we went down there.
Q. Do you recall from your memory any of the construction of that tool?
A. Oh, yes, I think I could describe it fairly well.
Q. Will you do so?
A. Well, he told me that he had a tool to go on the bottom of the tubing or drill pipe which when a ball

was dropped in the bottom it opened up vents or holes on the side that permitted the fluid to be forced out there at a very high velocity—I don't know what he said other than very high rate—and wash down the precipitate and the debris off of the side of the formation. When that was completed they reversed the circulation and the ball was removed and those vents closed and the precipitate carried out by the reverse circulation.

Q. Do you recall anything about how those ports were to be closed and opened?

A. Well, I would not say in detail. It was just the compressing action of the ball and pressure upon it—the valves, the holes in the valves, or whatever you call it.

Q. I hand you a photostat of drawings from Beckman's Application No. 232,754 and will ask you if the drawing therein has any resemblance to what Mr. Beckman disclosed to you that you have testified about?

A. Yes, that is the tool that did the job.

Q. Does that conform to what he stated to you?

A. Exactly. I have never seen a drawing of the tool. I have seen photographs, but this too, that is the thing that will do the job.

Q. Does that conform to the construction that he had on this occasion?

A. Exactly.

With respect to the other corroborating witnesses for Beckman, W. R. Banker was a lawyer and Earl G. Anthis was an insurance agent. These witnesses were not familiar with the oil business, and under all the circumstances we gravely doubt that either at the time of the alleged disclosure to them fully understood it.

Much of the controversy involves the question of originality. Appleby contends that he disclosed the invention to Beckman in the early part of 1937 and again in March, 1938; that Beckman has not unequivocally denied these disclosures, and that all of the surrounding circumstances show that he, Appleby, was the original inventor.

With respect to Beckman's denials of having derived the information from Appleby, we quote from his testimony as follows:

Q. Did you ever build or have built any tools that were manufactured and used by Beckman, Incorporated, upon any suggestion or disclosure of information given to you by Mr. P. W. Appleby?

A. I did not. He told me at one time they were in need of a tubing plug and suggested the purchase of an Otis tool but there was never any suggestion that I know of, made to me, as to the construction or the operation of the wash tool.

* * * * * * *

Q. Had you had any conversations with Mr. Appleby or had he given you any information previous to July or August or September, let's say previous to July of 1938, which would indicate to you that he knew anything about the operation of your wash tool?

A. He did not.

Q. Did you consider it necessary to instruct him in the use of this wash tool?

A. I did.

* * * * * * *

Q. Did you have any help or suggestions from Mr. P. W. Appleby in building or making your lay-out drawings for the construction of these wash tools?

A. I did not.

Q. Did he write you any letters, giving you any instructions or making any suggestions?

A. I don't know of any if he did.

Q. Did he make any suggestions to you over the telephone about how the tools should be built?

A. He did not.

Q. Did you rely in any respect upon any information that you had received from him or anyone else in building the wash tools about which you have testified?

A. I did not. I will say further that I had worked out the general structure and had conceived the idea and had conceived the construction and the use of the tool before I ever met Mr. Appleby.

Q. Did he ever request you to build a wash tool for him?

A. He did not.

Q. Or for use in your business?

A. No, he did not.

Q. Did he ever make any claim to you while in your employ that he was the inventor of a wash tool?

A. He has never made any claim to me while in my employ.

Q. Nor in the employ of Beckman, Incorporated?

A. Nor Beckman, Incorporated, nor at any other time with the exception of the filing of the interference in this case.

Q. That it was his invention?

A. That it was his invention. The first knowledge I had of any claim he made was when the interference was declared on the patent application I had made on the tool; that was my first knowledge of it.

* * * * * * *

Q. When Mr. Appleby was discharged, did he make any claim or any statement to you about being the inventor, or having had anything to do with the development of this wash tool?

A. No, sir, he made no claim whatever.

Q. Did he make any at any time while you were operating that tool or did he ever speak about it to you as being his tool?

A. He never spoke to me about it being his tool and never made any claim to me at any time or at any place up to this date that it was his tool. The only claim he ever made was in the Patent Office through this interference proceeding.

Furthermore, Appleby testified that when in the summer of 1938 Beckman discussed the involved device with him, he, Appleby, told Beckman that he did need such a tool and stated to him that he had on several occasions prior to that mentioned it to him and asked him for one, but that Beckman replied that he didn't remember that he had ever mentioned it.

In view of the foregoing, we think that it should be held that Beckman clearly denied derivation of the invention from Appleby. Of course, if Beckman was the first to conceive the invention he was entitled to an award of priority. In order for Appleby to succeed, he must have established by a preponderance of the evidence that he was the first to conceive the invention and was diligent in reducing it to practice, or that Beckman derived the invention from him.

The Board of Interference Examiners held that Appleby had not established conception of the invention at any time prior to the filing date of the Beckman application on October 7, 1938. In its decision the Board stated:

It is believed that if Appleby's testimony is interpreted most favorably it establishes nothing more than that he had some general idea concerning the desirability of washing the well walls. The evidence, it is believed however, fails to establish that he had any detailed or specific idea of the construction of a device to accomplish this end. This is not sufficient to prove conception. *Mergenthaler* v. *Scudder*, 81 O. G. 1417, 11 App. D. C. 264, 1897 C. D. 724.

Appleby contends that he is the original inventor and that he disclosed to Beckman. This is unequivocably denied by Beckman (Beckman record, pages 83, 111, 115, and 117). Since Appleby has failed to establish prior conception it does not appear to be necessary to consider the question of derivation in any detail since obviously in order to disclose he must have been in possession of knowledge of the invention.

Appleby made no demands upon Beckman while in his employ (Appleby record, page 25), and at first chose to discuss his idea whatever it was, with others rather than Beckman. The reason advanced was that Beckman had no experience yet Appleby admitted that Beckman was a competent engineer and had no difficulty understanding his alleged later disclosure of the invention.

It is believed that Appleby has failed to sustain the burden placed upon him and that the record establishes that Beckman was the first and sole inventor.

It will be observed from the foregoing quotation that the Board found it unnecessary to consider Beckman's actual date of conception.

After carefully reviewing all of the evidence in the record, we are compelled to say that in many respects we find it unsatisfactory on both sides, and each of the parties can and does criticize the sufficiency of the testimony introduced in behalf of his opponent.

We find that Beckman was a very loquacious witness who seemed to find it very difficult to directly and concisely answer questions propounded

to him, making it difficult to sift out from his testimony matters which are directly pertinent to the issues involved. It seems strange that if he really conceived the invention in 1933, as he claims, that he should have waited until 1938 to make complete drawings and construct a device embodying the invention. True, his explanation that in 1933 and for sometime thereafter his reverse circulation method for which he or his company owned patents had not been established commercially, and that he did not consider the invention here involved as of any special value except in connection with his reverse circulation, accounts for his inactivity during the early portion of the period between 1933 and the summer of 1938. But commercial success of the reverse circulation had been established early in 1937, and it would seem that if he was then in possession of the invention he would have proceeded to reduce it to practice, the need for it being apparent.

On the other hand, it seems very unlikely that Appleby should have conceived the invention at the time stated by him, within twelve or eighteen hours after observing for a short time the operation of a rig employing the reverse circulation method. That he might have realized the desirability of a tool which accomplishes the result secured by the present invention seems very plausible, after Fisher's statements to him about some defects in the reverse circulation method, but that he should have conceived every essential detail of the invention within that time seems improbable. It seems also very improbable that Fisher, his chief corroborating witness, should from recollection alone, four years after the event, have remembered every essential detail of the rather complicated device. The same observation is applicable to appellant's other witnesses, who testified from recollection alone as to all the details of the invention.

Of course, evidence of invention may be established by oral testimony alone. However, as stated by us in the case of *Frank Jardine and Ferdinand Jehle* v. *Elmer C. Long*, 19 C. C. P. A. (Patents) 1243, 58 F.(2d) 836, 423 O. G. 933:

* * * However, this doctrine, in the final analysis, means only that when oral testimony alone is produced to prove the facts necessary to establish priority such testimony will be most carefully scrutinized, in the light of human experience and under such knowledge of human nature as the courts possess, and that all circumstances surrounding the transaction will be most carefully looked to in bringing the mind to a conclusion as to what the truth really is.

The same observations which we have made concerning the witnesses for Appleby are applicable for the most part to the corroborating witnesses in behalf of Beckman.

As Appleby's chief corroborating witness was Fisher, an employee of Appleby, so Edwards, the chief corroborating witness for Beckman, was an employee of Beckman's company, and his oral testimony is subject to the same observations which we have made respecting the testimony of Fisher with this exception: Both Beckman and Edwards testified to a sketch made by Beckman in a time book kept by Beckman. Both testified that this sketch was made in August, 1936. This sketch was introduced in evidence as Exhibit D. It, however, without the oral testimony explaining it, is of little probative value.

It seems, however, to be established that the sketch was made about the time stated, for the time book begins with July 19, 1936, and it ends with September 12, 1936.

Appleby contends that this evidence was deliberately fabricated; that the sketch was not made at the time testified to, and that the testimony relating to it is false.

This is in effect a charge of deliberate perjury against Beckman and Edwards, but we find nothing in the record to substantiate such charge.

After careful consideration of all the evidence in the case, we are of the opinion that the evidence of Beckman and that of the witnesses in his behalf, is, upon the whole, as credible as is the evidence of Appleby and that of the witnesses in his behalf. So holding we must find that Appleby has not met the burden of proof resting upon him of establishing priority of conception by a preponderance of the evidence.

The effect of this conclusion is that if it should be held from the evidence that Appleby has established conception of the invention about August 15, 1938, or at some time thereafter but prior to October 7, 1938, the filing date of Beckman's earlier application, it should also be held that Beckman has established conception of the invention not later than August 15, 1936.

In view of this conclusion, it is unnecessary further to discuss the question of originality, for this question could arise only if it should be held that Appleby was the first to conceive the invention.

It follows that upon the record before us we must hold that Beckman was the first to conceive the invention and the first to reduce it to practice. The decision awarding priority of invention to him is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,492,972, R. A. Engler, The art of generating, transmitting and converting direct electrical energy and mechanism therefor; 1,993,581, E. F. Anderson, System of distribution, (declaratory judgment), D. C., S. D. N. Y., Doc. 4/120, *R. A. Engler* v. *General Electric Co.* Judgment (notice Apr. 27, 1943).

1,548,048, 1,707,214, H. C. Lord, Joint; 1,856,647, same, Joint mechanism; 1,940,686, Re. 18,457, same, Vibration dampening mounting; 1,862,483, same, Automobile engine; 1,862,484, Lord & Whitehouse, Mounting; 2,032,707, Lord & Lord, Mounting for rotating devices; Re. 21,328, W. E. Stitz, Engine mounting, filed Apr. 23, 1943, D. C., W. D. Pa., Doc. 52, *Tyson Roller Bearing Corp.* v. *Lord Mfg. Corp.*

1,705,700, B. O. Austin, Control apparatus; 2,162,534, Klein & Wulston, Circuit breaker; Re. 19,887, O. S. Jennings, Panel circuit breaker, D. C., N. D. Ohio, E. Div., Doc. 20165, *Westinghouse Electric & Mfg. Co.* v. *The Powerlite Switchboard Co.* Dismissed Apr. 22, 1943.

1,707,214. (See 1,548,048.)

1,744,016, A. P. Steckel, Metal rolling; 1,779,195, same, Method and apparatus for rolling thin sheet-like material, filed Mar. 31, 1943, D. C. Md., Doc. 1922, *The Cold Metal Process Co.* v. *Bethlehem Steel Co.*

1,779,195. (See 1,744,016.)

1,831,152, E. Weisker, Method and apparatus for illuminating objects to be reproduced, filed Mar. 4, 1943, D. C. Md., Doc. 1898, *E. Weisker* v. *Glenn L. Martin Co.*

1,856,647. (See 1,548,048.) 1,862,483. (See 1,548,048.)

1,862,484. (See 1,548,048.)

1,936,044, J. F. Walsh, Laminated product and method of producing same, C. C. A., 6th Cir., Doc. 9144, *Libbey-Owens-Ford Glass Co.* v. *Celanese Corp. of America.* Patent held invalid Apr. 22, 1943.

1,940,686. (See 1,548,048.)

1,955,569, H. I. Warden, Licensing of motor vehicles, D. C., E. D. Mo. (St. Louis), Doc. 438, *H. I. Warden* v. *City of St. Louis, Mo.* Claim 3 held invalid; bill dismissed Apr. 21, 1943.

1,966,975, K. S. Clapp, Chock, filed Apr. 23, 1943, D. C., N. D. Ohio, E. Div., Doc. 21787, *K. S. Clapp* v. *Cities Service Oil Co.*

1,987,573, C. H. Ingwer, Composite rubber article, C. C. A., 6th Cir., Doc. 9323, *Seiberling Rubber Co. et al.* v. *The I. T. S. Co.* Patent held invalid Apr. 12, 1943.

1,993,581. (See 1,492,972.)

2,012,578. (See Re. 17,375.)

2,032,707. (See 1,548,048.)

2,038,844, M. Le Dorf, Foot protector, D. C., S. D. N. Y., Doc. 19/462, *J. W. Landenberger & Co.* v. *Weintraub & Fidler et al.* Stipulation of dismissal (notice Apr. 21, 1943). Same, D. C. Pa., Doc. 3080, *J. W. Landenberger & Co.* v. *Sondra Undergarments, Inc.* Dismissed without prejudice Apr. 21, 1943.

2,106,043, Urquhart & Urquhart, Method and apparatus for foam generating and distributing; 2,198,585, same, Fire extinguishing foam, filed Apr. 28, 1943, D. C., Dist. of Col., Doc. 19520, *R. M. Urquhart et al.* v. *American-La France Foamite Corp.*

2,156,519, C. P. Walker, Means for measuring the location of obstructions in wells; Re. 21,383 (of 2,161,733), same, Method of determining fluid density, fluid pressure and the production capacity of oil wells; 2,209,944, same, Method of measuring location of obstructions in deep wells, D. C., S. D. Calif. (Los Angeles), Doc. 1655–PH, *C. P. Walker et al.* v. *Halliburton Oil Well Cementing Co.* Claims 1, 13, 14, 15, and 17 of 2,156,519, and Re. 21,383 held valid and infringed, injunction; Patent 2,209,944 held invalid Apr. 22, 1943.

2,157,756. (See Re. 21,615.)

2,161,733. (See 2,156,519.) 2,162,534. (See 1,705,700.)

2,198,585. (See 2,106,043.) 2,209,944. (See 2,156,519.)

2,305,206, K. Strobel, Method of electric arc welding and apparatus therefor, filed Apr. 23, 1943, D. C., S. D. Calif., C. Div., Doc. 2882–H, *Stroco Products, Inc.*, v. *C. F. Mullenbach et al.*

Re. 17,375, 2,012,578, S. J. Nordstrom, Valve, D. C., N. D. Ohio, E. Div., Doc. 5771, *Merco Nordstrom Valve Co.* v. *W. M. Acker Organization, Inc., et al.* Order on mandate: Claims 6 and 7 of Re. 17,375 held valid and infringed, claim 8 held invalid; claims 13 and 14 of 2,012,578 held valid and infringed Mar. 31, 1943.

Re. 18,457. (See 1,548,048.)

Re. 19,866, A. Epstein, Knitted cap, D. C., S. D. N. Y., Doc. 20/134, *Epstein & Hammer, Inc.*, v. *May Knitting Co., Inc.* Stipulation of discontinuance (notice Apr. 22, 1943).

Re. 19,887. (See 1,705,700.)

Re. 21,328. (See 1,548,048.)

Re. 21,383. (See 2,156,519.)

Re. 21,615 (of 2,157,756), M. Irwin, Irrigating apparatus, D. C., S. D. Calif., C. Div., Doc. 1570–H, *Associated Laboratories et al.* v. *J. P. Linden et al.* Dismissed Apr. 5, 1943.

Des. 133,858, S. B. Foster, Dress, D. C., S. D. N. Y., Doc. 19/473, *Capri Frocks, Inc.*, v. *Phil Zahn & Co.* Discontinued (notice Apr. 22, 1943).

Plant 203, 210, 220, B. A. Bourne, Sugar cane, filed (notice Apr. 30, 1943), D. C., S. D. Fla. (Orlando), Doc. 170, *B. A. Bourne* v. *J. Tiedtke.* Doc. 171, *B. A. Bourne* v. *H. McKean.* Doc. 172, *B. A. Bourne* v. *E. Ravendall.*

Plant 210. (See Plant 203.)

Plant 220. (See Plant 203.)

Plant 346, E. Bourdieu, Pyracantha koidzumii, filed Apr. 20, 1943, D. C., S. D. Calif. (Los Angeles), Doc. 2877–B, *E. Bourdieu* v. *L. B. Merrick.*

Disclaimers

Re. 22,174.—*William F. Groene* and *Walter R. Meyer*, Cincinnati, Ohio. BROACHING LATHE. Patent dated September 8, 1942. Disclaimer filed May 10, 1943, by the inventors; the assignee, *The R. K. Le Blond Machine Tool Company*, assenting.

Hereby enters this disclaimer to claims 1, 3, 4, 7, and 8 of said specification.

2,121,675.—*Loyd J. White*, San Antonio, Tex. COMBINATION FITTING FOR GAS DISPENSING SYSTEMS. Patent dated June 21, 1938. Disclaimer filed May 6, 1943, by the assignee, *Southern Steel Company.*

Hereby enters this disclaimer to claims 1, 3, 5, 11, 12, and 17 of said patent.

2,261,985.—*Albert E. Forster*, Wilmington, Del. FIBROUS TUBE. Patent dated November 11, 1941. Disclaimer filed May 11, 1943, by the assignee, *Hercules Powder Company.*

Hereby enters this disclaimer to as much of claim 1 as will include a substantially petroleum-hydrocarbon insoluble pine wood resin as the impregnating material; and to claim 3 in said patent.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 1, 1943

[VOL. 551. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 458,923. WILLIAM H. SCHEEL, INC., Brooklyn, N. Y. Filed Mar. 5, 1943. Under 10-year proviso.

SCHEEL

FOR LAC AND VARNISH GUMS.
Claims use since May 1, 1889.

CLASS 2

RECEPTACLES

Ser. No. 454,113. CONRAD RAZOR BLADE CO., INC., Long Island City, N. Y. Filed July 9, 1942.

CLIX

FOR HOLDERS MADE OF SYNTHETIC MATERIALS FOR SAFETY RAZOR BLADES WHICH HOLDERS MAY SUBSEQUENTLY BE USED FOR CIGARETTES. AND COMBINED HOLDERS AND VAULTS MADE OF CARDBOARD OR SYNTHETIC MATERIALS TO BE USED FOR SAFETY RAZOR BLADES.
Claims use since February 1936.

Ser. No. 458,879. IMPERVIOUS PAPER CONTAINER CORPORATION, Washington, D. C. Filed Mar. 3, 1943.

IMPCO CONTAINERS

Applicant disclaims the word "Containers" apart from the mark.
FOR IMPERVIOUS PAPER CONTAINERS FOR THE PACKAGING OR SHIPMENT OF VARIOUS LIQUIDS.
Claims use since Jan. 15, 1943.

Ser. No. 459,360. CHICAGO MILL AND LUMBER COMPANY, Chicago, Ill. Filed Mar. 26, 1943.

DURACOAT

FOR WEATHERPROOFED BOXES AND BOX PANELS CONSTRUCTED OF IMPREGNATED WOOD AND PLYWOOD.
Claims use since Mar. 15, 1943.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 456,956. MARK CROSS COMPANY, New York, N. Y. Filed Nov. 21, 1942.

MAC CROSS

FOR HANDBAGS, SEWING BAGS, PURSES, SHOPPING BAGS, MADE OF TEXTILE FABRICS AND/OR LEATHER, BRIEF CASES, SHOULDER STRAP POUCHES, SUITCASES, BOTTLE CASES FOR TRAVELLING PURPOSES AND PARTLY OR WHOLLY OF TEXTILE FABRICS AND OR LEATHER, HAT BOXES FOR TRAVELLING PURPOSES AND MADE PARTLY OR WHOLLY OF TEXTILE FABRICS AND OR LEATHER.
Claims use since Sept. 30, 1942.

Ser. No. 459,798. THE UNITED STATES NAVY DEPARTMENT, Washington, D. C. Filed Apr. 10, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

Seapack

FOR SUITCASES AND TRUNKS.
Claims use since Dec. 21, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 441,597. ACE SALES CORPORATION, New York, N. Y. Filed Mar. 17, 1941.

DUF-KIT

The word "Kit" is disclaimed apart from the mark.
FOR SHOE-SHINING OUTFITS—NAMELY, A CLOTH BAG CONTAINING SHOE POLISH, A SHOE BRUSH, DAUBER, LACES, AND A SHINE CLOTH.
Claims use since Mar. 3, 1941.

Ser. No. 456,893. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill. Filed Nov. 18, 1942.



No claim is made to the words "Imported Scotch Shell," "Made," and "Aberdeen" part from the mark. The figure is fanciful.
FOR RAZOR STROPS.
Claims use since July 5, 1921.

Ser. No. 457,705. EDWARD H. HUFNAGEL, doing business as Norma Chemical Company, Mount Vernon, N. Y. Filed Jan. 1, 1943.

NORMA

FOR PASTE SILVER POLISH; ENAMEL, TILE, WALL AND WINDOW CLEANERS, AND THE LIKE, IN LIQUID AND POWDERED FORM.
Claims use since 1938.

Ser. No. 458,673. ARKANSAS COMPANY, INC., Newark, N. J. Filed Feb. 22, 1943.

CELOPON

FOR DETERGENTS IN LIQUID OR PASTE FORM FOR USE IN WATER IN THE PROCESSING OF TEXTILES.
Claims use since July 1939.

Ser. No. 459,186. ACE SALES CORPORATION, New York, N. Y. Filed Mar. 18, 1943.

RISE AND SHINE!

The word "Shine" is disclaimed apart from the mark.
FOR SHOE-SHINING OUTFITS—NAMELY, A BOX CONTAINING SHOE POLISH, A BRUSH, DAUBER, LACES AND SHINE CLOTH.
Claims use since Aug. 15, 1942.

Ser. No. 459,321. TURCO PRODUCTS, INC., Los Angeles, Calif. Filed Mar. 24, 1943.

SUPERTROL

FOR CLEANING COMPOUND FOR INDUSTRIAL CLEANING OF METALS AND THE LIKE AND FOR RESTORING ORIGINAL SURFACES.
Claims use since Oct. 29, 1939.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 454,824. THE COUNTY PERFUMERY COMPANY, INC., Bloomfield, N. J. Filed Aug. 10, 1942.

BRYLFOAM

FOR SHAMPOO.
Claims use since July 9, 1942.

Ser. No. 456,468. ADA MACHIN, New York, N. Y. Filed Oct. 27, 1942.



FOR PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT.
Claims use since August 1942.

Ser. No. 457,298. NICHOLAS PROPRIETARY LIMITED, South Melbourne, Victoria, Australia. Filed Dec. 9, 1942.

AKTAVOL

FOR PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF VITAMIN DEFICIENCY CONDITIONS.
Claims use since October 1941.

Ser. No. 458,322. THOMAS DAIN ALLEN, New York, N. Y. Filed Feb. 4, 1943.

COLONAID

FOR LAXATIVES.
Claims use since January, 1935.

Ser. No. 459,118. C. E. JAMIESON & Co., Detroit, Mich. Filed Mar. 15, 1943.

NUTRIN

FOR NUTRITIVE TONIC CONTAINING VITAMINS AND MINERALS.
Claims use since Mar. 12, 1937.

Ser. No. 459,237. CHABIL PRODUCTS LTD., New York, N. Y. Filed Mar. 20, 1943.

"JIFFY-PAK"

Applicant disclaims the word "Pak" except as shown.
FOR TABLET USED AS A PRESERVATIVE IN CANNING FOODS.
Claims use since Mar. 10, 1943.

Ser. No. 459,238. THE DRUG PRODUCTS CO., INC., Long Island City, N. Y. Filed Mar. 20, 1943.

Almag

FOR ANTACID-ADSORBENT FOR NEUTRALIZING EXCESS ACIDITY.
Claims use since Apr. 2, 1938.

Ser. No. 459,246. NEW YORK-OHIO CHEMICAL COMPANY, Lewiston, N. Y. Filed Mar. 20, 1943.

NYOCAL

FOR CHLORINATED METALS—NAMELY, ALUMINUM CHLORIDE AND ANHYDROUS HYDROGEN CHLORIDE.
Claims use since Feb. 26, 1943.

Ser. No. 459,298. CHEMICAL CENTER CORPORATION, New York, N. Y. Filed Mar. 24, 1943.

SHANGRILA

FOR PERFUMES, TOILET WATERS, FACE POWDERS, TALCUM POWDERS, HAIR TONICS, COLD CREAMS, VANISHING CREAMS, MASSAGE CREAMS, COLOGNES, HAIR DRESSINGS, SHAMPOOS, NAIL POLISH, NAIL POLISH REMOVERS, SACHETS, MOUTH WASHES, DUSTING POWDERS, LIP STICKS, ROUGES, DEODORANTS, SUN TAN OILS, TOOTH POWDERS, TOOTH PASTES, BATH SALTS, MASCARAS.
Claims use since Mar. 1, 1943.

Ser. No. 459,355. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa. Filed Mar. 26, 1943.

SHOOTONE

FOR HORMONE SPRAY FOR HORTICULTURAL OR AGRICULTURAL USE.
Claims use since Jan. 21, 1943.

Ser. No. 459,382. STANDARD CHEMICAL PRODUCTS, INC., Hoboken, N. J. Filed Mar. 26, 1943.



FOR TEXTILE OILS, SULPHONATED OILS, TEXTILE SIZINGS, TEXTILE FINISHES, TEXTILE PENETRATORS, WETTING AGENTS, AND DYE ASSISTANTS.
Claims use since Jan. 2, 1943.

Ser. No. 459,416. ELISABETH RAE LAMONT, doing business as Elisabeth Rae, New York and Mount Vernon, N. Y. Filed Mar. 27, 1943.

Sheertone

FOR LOTION FOR USE AS A LEG MAKE-UP IN IMITATION OF HOSIERY.
Claims use since 1940.

Ser. No. 459,456. WINDSOR-LLOYD PRODUCTS, INC., Philadelphia, Pa. Filed Mar. 27, 1943.

HAND WARDEN

No claim is made to the word "Hand" apart from the mark.

FOR PROTECTIVE CREAM FOR PROTECTION AGAINST DIRT, GREASE, OILS, SOLVENTS, PAINTS, AND LACQUERS.

Claims use since Mar. 1, 1943.

Ser. No. 459,457. YALE PRODUCTS INC., New York, N. Y. Filed Mar. 27, 1943.

OCTOPERL

FOR VITAMIN PREPARATION FOR HUMAN CONSUMPTION.

Claims use since Mar. 8, 1943.

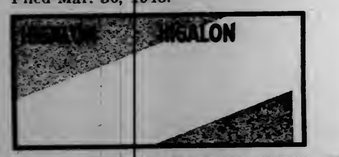
Ser. No. 459,459. ANSUL CHEMICAL COMPANY, Marinette, Wis. Filed Mar. 29, 1943.

ANSUL

FOR REFRIGERANTS—NAMELY, SULPHUR DIOXIDE AND METHYL CHLORIDE; CHEMICAL FUMIGANTS—NAMELY, CHLOROPICRIN; COLLOIDAL SULPHUR FOR USE AS FUNGICIDE AND INSECTICIDE; A PREPARATION FOR TREATING SEED AND SOIL TO PREVENT DAMPING-OFF OF SEEDLINGS AND CUTTINGS.

Claims use since Apr. 30, 1915, on sulphur dioxide; since July 25, 1932, on chloropicrin; since Jan. 28, 1934, on methyl chloride; since Dec. 28, 1931, on colloidal sulphur; and since Dec. 27, 1931, on a preparation for treating seed and soil to prevent damping-off of seedlings and cuttings.

Ser. No. 459,521. THE KNOX COMPANY, Los Angeles, Calif. Filed Mar. 30, 1943.



FOR MEDICINAL PREPARATIONS INDICATED IN AND FOR THE TREATMENT AND THE MITIGATION OF THE SYMPTOMATIC MANIFESTATIONS OF FUNCTIONAL DISORDERS OF THE LIVER AND INTESTINES, SUCH AS BILIOUSNESS, COATED TONGUE, CONSTIPATION, INDIGESTION, GAS, BAD BREATH, HEADACHE, DIZZINESS, AND LACK OF APPETITE.

Claims use since Dec. 15, 1942.

Ser. No. 459,679. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Apr. 6, 1943.

PHOBOTEX

FOR CHEMICAL SUBSTANCES FOR USE IN THE FINISHING OF TEXTILES.

Claims use since Mar. 14, 1939.

Ser. No. 459,694. PARSONS CHEMICAL WORKS, Grand Ledge, Mich. Filed Apr. 7, 1943.

LETHOGAS

FOR FUMIGANT.

Claims use since June 16, 1933.

Ser. No. 459,709. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

DORICO

FOR PHARMACEUTICAL PREPARATIONS FOR USE AS AN INTRAVENOUS ANESTHETIC AND A SHORT ACTING HYPNOTIC FOR DELAYED OR INTERRUPTED SLEEP.

Claims use since July 3, 1942.

Ser. No. 459,710. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

DROMETIL

FOR ANTIBACTERIAL SPECIFIC PREPARATION.

Claims use since July 3, 1942.

Ser. No. 459,711. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

GORTULINE

FOR MERCURIAL DIURETIC PREPARATION.

Claims use since Nov. 25, 1942.

Ser. No. 459,712. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

METOQUINE

FOR ANTIMALARIAL PREPARATIONS.

Claims use since July 3, 1942.

Ser. No. 459,714. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

PICATYL

FOR PHARMACEUTICAL PREPARATIONS FOR USE IN THE TREATMENT OF TRICHOMONAS VAGINITIS.

Claims use since Nov. 25, 1942.

Ser. No. 459,715. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

QUIPENYL

FOR ANTIMALARIAL (GAMETOCIDE) PREPARATIONS.

Claims use since July 3, 1942.

Ser. No. 459,718. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

VIOCOLIL

FOR ANTIANEMIC PREPARATION.

Claims use since July 3, 1942.

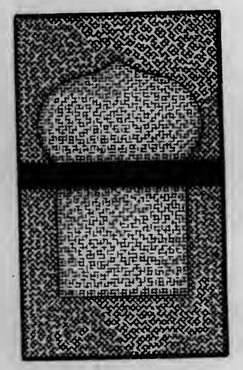
Ser. No. 459,752. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Apr. 9, 1943.

BYSULOX

FOR HERBICIDE AND WEED KILLER HAVING INSECTICIDAL PROPERTIES.

Claims use since Mar. 4, 1943.

Ser. No. 459,770. SCHERING CORPORATION, Bloomfield, N. J. Filed Apr. 9, 1943.



The drawing is lined for orange, light yellow, and black.

FOR LAXATIVE PREPARATION.

Claims use since Feb. 1, 1943.

Ser. No. 459,846. FERD. MULHENS, INC., New York, N. Y. Filed Apr. 13, 1943.

LA TOSCA

FOR COMPLEXION POWDER.

Claims use since April, 1916.

CLASS 7

CORDAGE

Ser. No. 451,883. JOHN A. ROEBLING'S SONS COMPANY, Trenton, N. J. Filed Mar. 24, 1942.



The trade-mark consists of the blue fibrous core of the wire rope or cable, no claim being made to the representation of wire rope apart from said blue fibrous core.

FOR WIRE ROPE AND CABLE.

Claims use since 1902.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 451,916. THE MONARCH CAP SCREW & MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 26, 1942.



The representation is disclaimed apart from the mark.

FOR SCREWS AND BOLTS.

Claims use since Nov. 20, 1929.

Ser. No. 458,514. GUSTIN-BACON MANUFACTURING COMPANY, Kansas City, Mo. Filed Feb. 13, 1943.

SEGWELD

FOR STEEL PIPE FITTINGS—NAMELY, L's, T's, CROSSES, LATERALS, BRANCHES, NIPPLES, REDUCERS, AND BLANK ENDS.

Claims use since Jan. 2, 1943.

Ser. No. 459,187. AERO SUPPLY MFG. CO. INC., Corry, Pa. Filed Mar. 18, 1943.

AERO

FOR STEFL WASHERS, TUBE CLAMPS, CONDUIT CLAMPS, HOSE CLAMPS, AIRCRAFT SHACKLES, PIPE PLUGS, SCREWS, BOLTS, NUTS, COTTER PINS, CABLE BUSHINGS, ROD ENDS, TAPER PINS, STUDS AND SCREW CONNECTIONS, FUEL SUPPLY TANK SELECTOR VALVES, FUEL VALVES, FUEL COCKS AND FUEL STRAINERS.

Claims use since January 1924.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 458,662. RHEEM MANUFACTURING COMPANY, Washington, D. C. Filed Feb. 20, 1943.

Iridite

FOR BASE METAL HAVING A CORROSION RESISTANT FINISH.
Claims use since Jan 12, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 452,042. GAMBLE STORES INCORPORATED, Minneapolis, Minn. Filed Mar. 31, 1942.

Lady Helen

FOR FLOOR WAX.
Claims use since January, 1938.

Ser. No. 452,855. WILLIAM W. EDGERLY, doing business as Royal Palm Products, Scranton, Pa. Filed May 7, 1942.

ROYAL PALM



FOR PAINT BRUSH CLEANER, JAPAN DRIER, BRONZING LIQUID, GRAINING COMPOUND, WAX REMOVER, PAINTER'S WALL SIZE, PAINT THINNER, AND CRACK FILLER.
Claims use since August, 1938.

Ser. No. 458,070. INERTOL COMPANY, INC., Newark, N. J. Filed Jan. 21, 1943.

GLAMORTEX

FOR WATERPROOFING AND PROTECTIVE PAINT OR ENAMEL COATING FOR CONCRETE, STEEL, WOOD, PLASTER, MASONRY, AND METAL SURFACES IN GENERAL.
Claims use since Dec. 28, 1942.

Ser. No. 458,937. BENJAMIN JAMES HARDY, doing business under the name Colorthru Chemicals, New York, N. Y. Filed Mar. 6, 1943.

COLORTHRU

FOR PAINTS IN READY-MIXED FORM.
Claims use since September, 1942.

Ser. No. 459,738. DEVOE & RAYNOLDS COMPANY, INC., New York, N. Y. Filed Apr. 9, 1943.

DEVOPAKE

FOR MIXED PAINTS.
Claims use since Oct. 1, 1941.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 456,051. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass. Filed Oct. 7, 1942.



FOR ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES, AND COMPONENT PARTS THEREOF.
Claims use since Sept. 18, 1942.

Ser. No. 456,052. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass. Filed Oct. 7, 1942.



FOR ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES, AND COMPONENT PARTS THEREOF.
Claims use since Sept. 18, 1942.

Ser. No. 456,053. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass. Filed Oct. 7, 1942.



FOR ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES, AND COMPONENT PARTS THEREOF.
Claims use since Sept. 18, 1942.

Ser. No. 456,054. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass. Filed Oct. 7, 1942.



FOR ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES, AND COMPONENT PARTS THEREOF.
Claims use since Sept. 18, 1942.

Ser. No. 456,330. AIRADIO, INCORPORATED, Stamford, Conn. Filed Oct. 22, 1942.

AIRADIO

FOR RADIO RECEIVERS, TRANSMITTERS, ELECTRICAL SOUND RECORDING EQUIPMENT, TELEVISION RECEIVERS, ELECTRICAL REMOTE CONTROL DEVICE FOR RADIO EQUIPMENT, ANTENNA RELAYS, MULTICONTACT CONNECTORS USED IN RADIO EQUIPMENT, ELECTRICAL APPARATUS USED IN RADIO GROUND BEACON EQUIPMENT AND PARTS OF THE ABOVE APPARATUS.
Claims use since 1937.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 458,909. CONTAINER CORPORATION OF AMERICA, Chicago, Ill. Filed Mar. 5, 1943.

CONCORA

FOR TOYS—NAMELY, TOY DRUMS, BLOCKS AND DIE CUT PARTS ADAPTED TO BE ASSEMBLED TO FORM TOY ANIMALS, PERSONS, AND OBJECTS.
Claims use since Sept. 17, 1941.

Ser. No. 459,210. CHARLES H. TAYLOR, Springfield, Mass. Filed Mar. 18, 1943.

Jeepers

FOR GAME PLAYED WITH CARDS.
Claims use since Feb. 9, 1943.

Ser. No. 459,874. THEODORE HEIL, Berkeley, Calif. Filed Apr. 14, 1943.

TARGETENNES

FOR BALL GAMES PLAYED WITH HAND OR RACQUET.
Claims use since Feb. 1, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 442,061. DEMPSTER BROTHERS, INCORPORATED, Knoxville, Tenn. Filed Mar. 29, 1941.

The Original BUCKETRUX

The term "The Original" is disclaimed apart from the mark.
FOR HOISTING UNITS DESIGNED FOR INSTALLATION ON ANY STANDARD MOTOR TRUCK CHASSIS AND CAPABLE OF PICKING UP, CARRYING, AND DUMPING DROP-BOTTOM AND OTHER DETACHABLE BUCKETS AND CONTAINERS, AND DETACHABLE BUCKETS AND CONTAINERS.
Claims use since November, 1940.

Ser. No. 442,062. DEMPSTER BROTHERS, INCORPORATED, Knoxville, Tenn. Filed Mar. 29, 1941.

DEMPSTER-DUMPSTER BUCKETRUX

The name "Dempster" is disclaimed apart from the mark.
FOR HOISTING UNITS, DESIGNED FOR INSTALLATION ON ANY STANDARD MOTOR TRUCK CHASSIS AND CAPABLE OF PICKING UP, CARRYING, AND DUMPING DROP-BOTTOM AND OTHER DETACHABLE BUCKETS AND CONTAINERS AND DETACHABLE BUCKETS AND CONTAINERS.
Claims use since November, 1940.

Ser. No. 458,173. WILLIAM D. DODENHOFF, doing business as W. D. Dodenhoff Company, Greenville, S. C. Filed Jan. 26, 1943.

CHECK-MASTER

FOR HYDRAULIC SHOCK ABSORBERS FOR HIGH SPEED RECIPROCATING PARTS OF MACHINES AND FOR PICKER STICKS OF LOOMS.

Claims use since Aug. 14, 1940, for said mechanically operated devices; and since Jan. 8, 1943, for said hydraulically operated devices.

Ser. No. 459,225. THE LUDLOW-SAYLOR WIRE COMPANY, St. Louis, Mo. Filed Mar. 19, 1943.

ARCH-CRIMP

The word "Crimp" is disclaimed apart from the mark.

FOR SCREENS FOR USE IN SCREENING DEVICES FOR SORTING OR SIFTING CRUSHED MATERIALS.

Claims use since Aug. 20, 1931.

Ser. No. 459,691. R. G. LETOURNEAU, INC., Stockton, Calif., and Peoria, Ill. Filed Apr. 7, 1943.

TILTDOZER

FOR GRADING AND EARTH WORKING EQUIPMENT—NAMELY, PUSH GRADERS.

Claims use since Mar. 22, 1943.

CLASS 25

LOCKS AND SAFES

Ser. No. 459,261. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y. Filed Mar. 22, 1943. Under 10-year prov'so.

DURKEE

FOR PADLOCKS, DOOR, CHEST AND DRAWER LOCKS, LATCHES, LOCK KEYS, KEYHOLE ESCUTCHEONS, STRIKING PLATES FOR LOCKS, SHUTTER BARS, CLOSET CATCHES, ICE BOX LEVERS, SASH FASTENERS AND CATCHES, DOOR BOLTS AND HAND CUFFS.

Claims use since 1870.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 456,764. BACHMANN BROTHERS, INC., Philadelphia, Pa. Filed Nov. 12, 1942.

BB

FOR GOGGLES.

Claims use since Oct. 27, 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 452,108. ROYAL DIAMOND & WATCH CO., INC., New York, N. Y. Filed Apr. 2, 1942.

ARROW

FOR WATCHES.

Claims use since Feb. 10, 1942.

Ser. No. 459,085. MURRAY SARNOFF, doing business as Chevron Watch Company, Washington, D. C. Filed Mar. 13, 1943.

CHEVRON

FOR WATCHES AND CLOCKS.

Claims use since Feb. 12, 1943.

Ser. No. 459,362. LOUIS HIRSCH DE METZ COMPANY, New York, N. Y. Filed Mar. 26, 1943.

CELTA

FOR WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF.

Claims use since 1924.

Ser. No. 459,363. LOUIS HIRSCH DE METZ COMPANY, New York, N. Y. Filed Mar. 26, 1943.

DRIVA

FOR WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF.

Claims use since 1924.

Ser. No. 459,514. R. GSELL & CO., INC., New York, N. Y. Filed Mar. 30, 1943.

MIDLAND

FOR WATCHES AND WATCH MOVEMENTS, WATCHCASES AND PARTS THEREOF.

Claims use since Mar. 23, 1943.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 454,377. PHILCO CORPORATION, Philadelphia, Pa. Filed July 21, 1942.

PHILCO

FOR CABINETS FOR RADIO RECEIVING APPARATUS AND STANDS FOR PHONOGRAPH RECORD ALBUMS.

Claims use on cabinets for radio receiving apparatus since January 1928; and on stands for phonograph record albums since January 1942.

Ser. No. 457,510. PROMOTIONS, INC., Youngstown, Ohio. Filed Dec. 18, 1942.

AMERICAN HOMES

The word "American" is disclaimed apart from the mark.

FOR CHAIRS, TABLES, DAVENPORTS, BEDS, DRESSERS, DRESSING TABLES, STOOLS, CHESTS, BOOK CASES, DESKS, AND BUFFETS MADE OF PLASTICS, METAL, OR WOOD AND WITH OR WITHOUT UPHOLSTERING.

Claims use since Nov. 16, 1942.

Ser. No. 459,935. KROEHLER MFG. CO., Naperville, Ill. Filed Apr. 16, 1943.

POSTURE-FORM

FOR UPHOLSTERED LIVING ROOM FURNITURE.

Claims use since Mar. 22, 1943.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 452,257. WHITTLE MUSIC COMPANY, Dallas, Tex. Filed Apr. 9, 1942.

"BULL-DOG"

FOR DRUM HEADS.

Claims use since January, 1922.

CLASS 37

PAPER AND STATIONERY

Ser. No. 458,421. PIERCE SPERRY, Middlefield, Ohio. Filed Feb. 8, 1943.

GIFTIONAIRE

FOR BOOKLETS CONTAINING DATA CARDS FOR USE IN CARRYING IN A PURSE.

Claims use since Jan. 20, 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 454,491. HUGUETTE J. AKOUN, New York, N. Y. Filed July 25, 1942.

FATHER FREEDOM

FOR

FREEDOM • DEMOCRACY • RIGHTS

FOR POEMS AND SONGS PUBLISHED AT INTERVALS.

Claims use since July 15, 1942.

CLASS 39

CLOTHING

Ser. No. 455,243. NATHAN SHATZ SPORTSWEAR, INC., St. Louis, Mo. Filed Sept. 1, 1942.

SIREN BELLE

FOR WOMEN'S AND MISSES' DRESSES, SKIRTS, AND BLOUSES.

Claims use since July 1, 1942.

Ser. No. 458,510. DOMINION CORSET COMPANY, LIMITED, Quebec, Quebec, Canada. Filed Feb. 13, 1943.

PARABOLA

FOR CORSETS, GIRDLES, BRASSIÈRES, AND CORSELETS.

Claims use since Sept. 15, 1942.

Ser. No. 458,595. LIVINGSTON-BRONSTEIN, New York, N. Y. Filed Feb. 17, 1943.

FOR LADIES' AND MISSES' WAISTS, BLOUSES, DRESSES, AND SLACKS.

Claims use since Jan. 2, 1943.

Ser. No. 458,598. NATIONAL SHIRT SHOPS OF DELAWARE, INC., New York, N. Y. Filed Feb. 17, 1943.

TRADE WINDS

FOR SHIRTS—NAMELY, MEN'S OUTER SHIRTS AND SPORT SHIRTS.

Claims use since October, 1940.

Ser. No. 458,884. SAKS & COMPANY, New York, N. Y. Filed Mar. 3, 1943.

Sophie Original

Applicant disclaims the word "Original" except as shown.

FOR WOMEN'S CLOTHING—NAMELY, DRESSES, COATS, AND SUITS.

Claims use since Jan. 15, 1943.

Ser. No. 459,114. I. JABLOW & CO., Philadelphia, Pa. Filed Mar. 15, 1943.

Coltan

FOR BOYS' SHIRTS, PAJAMAS, SPORTSWEAR COMPRISING KNITTED AND WOVEN POLO SHIRTS, SPORT JACKETS, AND SLACK SET ENSEMBLES COMPRISING A PAIR OF TROUSERS AND AN INNER-AND-OUTER SHIRT, BLOUSES, AND UNDERWEAR.

Claims use since Mar. 20, 1911.

Ser. No. 459,115. I. JABLOW & Co., Philadelphia, Pa. Filed Mar. 15, 1943.

Puritan

FOR BOYS' SHIRTS, PAJAMAS, SPORTSWEAR COMPRISING KNITTED AND WOVEN POLO SHIRTS, SPORT JACKETS, AND SLACK SET ENSEMBLES COMPRISING A PAIR OF TROUSERS AND AN INNER-AND-OUTER SHIRT, BLOUSES, AND UNDERWEAR.
Claims use since May 1, 1896.

Ser. No. 459,116. I. JABLOW & Co., Philadelphia, Pa. Filed Mar. 15, 1943.



FOR BOYS' SHIRTS, PAJAMAS, SPORTSWEAR COMPRISING KNITTED AND WOVEN POLO SHIRTS, SPORT JACKETS, AND SLACK SET ENSEMBLES COMPRISING A PAIR OF TROUSERS AND AN INNER-AND-OUTER SHIRT, BLOUSES, AND UNDERWEAR.
Claims use since May 4, 1920; and since May 1, 1896, for the word "Puritan."

Ser. No. 459,141. ZIMMERMAN-SCHER, INC., New York, N. Y. Filed Mar. 15, 1943.

"ADDA"

FOR FUR SCARFS.
Claims use since January, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 455,377. MARKS AND SPENCER SALES CORPORATION, New York, N. Y. Filed Sept. 5, 1942.

Marspen

FOR PIECE GOODS OF WOOL, WORSTED, AND COTTON—NAMELY, COATINGS, SUITINGS, SHIRTINGS, AND DRESS GOODS; AND COTTON VELVETEENS.
Claims use since January, 1941.

Ser. No. 456,364. CENTRAL MADEIRA CORPORATION, New York, N. Y. Filed Oct. 23, 1942.

R·E·M·

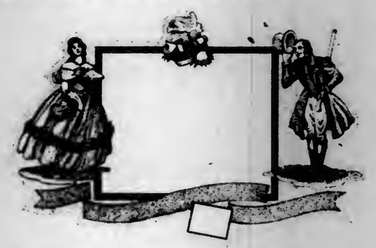
FOR DECORATIVE ARTICLES MADE OF LINEN, COTTON, RAYON, AND COMBINATIONS THEREOF—NAMELY, BRIDGE, LUNCHEON AND DINNER SETS, SCARFS, TABLE CLOTHS, NAPKINS, PILLOW CASES, AND DOILIES.
Claims use since Oct. 13, 1942.

Ser. No. 457,618. SOUTHERN FRICTION MATERIALS COMPANY, Charlotte, N. C. Filed Dec. 26, 1942.

COTTONLEATHER

The word "Cotton" is disclaimed except as shown.
FOR GROUND SURFACED, NAPPED, FLEXIBLE, COTTON PIECE GOODS.
Claims use since Dec. 15, 1942.

Ser. No. 459,497. PEPPERELL MANUFACTURING COMPANY, Boston, Mass. Filed Mar. 29, 1943.



FOR SHEETS AND PILLOW CASES.
Claims use since May 1, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 437,510. HENRI FOODS, INC., Long Island City, N. Y. Filed Nov. 2, 1940.

HENRI

Applicant is the owner of trade-mark registrations Nos. 263,804 and 264,184.
FOR SPAGHETTI DINNERS COMPRISING SPAGHETTI, MUSHROOM SAUCE, AND GRATED CHEESE, SPAGHETTI SAUCE, SAUCE WITH MUSHROOMS COMPRISING MUSHROOMS, TOMATOES, VEGETABLES, OLIVE OIL, AND SPICES, MAYONNAISE, COOKED SPAGHETTI IN SAUCE, BOUILLON CUBES, PICKLED BEETS, BEET RELISH, HORSE-RADISH, COOKING AID COMPRISING EXTRACTS OF VEGETABLES AND MEAT WITH SEASONING, TABLE SAUCE COMPRISING TOMATOES AND OTHER VEGETABLES, FRUIT, RAISINS, VINEGAR, SUGAR, SALT AND SPICES, MUSTARD SAUCE, POPCORN COMPRISING KERNELS OF CORN WHICH HAVE BEEN POPPED OPEN BY SUBJECTING THEM TO HEAT AND THEN COOKED IN OIL, POTATO CHIPS, NUTS, AND SALTED NUTS.
Claims use since May 29, 1929.

Ser. No. 441,313. DELEGATION OF MEAT PACKERS OF POLAND, INC., New York, N. Y. Filed Mar. 7, 1941.



The representation of the label and of a ham and all wording except "Polo" and applicant's name are disclaimed apart from the mark.
FOR CANNED COOKED HAM.
Claims use since Sept. 6, 1940.

Ser. No. 448,500. DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., New York, N. Y. Filed Nov. 10, 1941.

PREMIUM

FOR FLUID MILK OF HIGHER THAN AVERAGE PURITY AND QUALITY.
Claims use since July 1, 1941.

Ser. No. 455,242. SEARS BROTHERS & COMPANY, Watsonville, Calif. Filed Sept. 1, 1942.

UNCLE SAM BRAND

No claim is made to the word "Brand" apart from the mark.
FOR FRESH VEGETABLES—NAMELY, LETTUCE.
Claims use since Aug. 22, 1942.

Ser. No. 458,919. KLEIN CHOCOLATE CO., INC., Elizabethtown, Pa. Filed Mar. 5, 1943.



No claim is made to the representation of the goods apart from the mark.
FOR CHOCOLATE.
Claims use since January 1913.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 458,361. WASSELL ORGANIZATION, Westport, Conn. Filed Feb. 5, 1943.

PRODUC-TROL

FOR CHART BOARD FOR GRAPHICAL REPRESENTATIONS.
Claims use since Apr. 22, 1942.

Ser. No. 459,074. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 13, 1943.

AMBASSADOR

FOR PRINTERS' SUPPLIES MADE OF RUBBER AND RUBBER AND FABRIC—NAMELY, NEWSPAPER PRESS BLANKETS, FELT BLANKETS, NEWSPAPER CUTTING RUBBER, LITHOGRAPH OFFSET BLANKETS, LITHOGRAPH PRESS BLANKETS, DRAWSHEETS, AND TOP BLANKETS.
Claims use since January 1943.

Ser. No. 459,075. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 13, 1943.

ARISTOCRAT

FOR PRINTERS' SUPPLIES MADE OF RUBBER AND RUBBER AND FABRIC—NAMELY, NEWSPAPER PRESS BLANKETS, FELT BLANKETS, NEWSPAPER CUTTING RUBBERS, LITHOGRAPH OFFSET BLANKETS, LITHOGRAPH PRESS BLANKETS, DRAWSHEETS, AND TOP BLANKETS.
Claims use since January 1943.

Ser. No. 459,076. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 13, 1943.

MONARCH

FOR PRINTERS' SUPPLIES MADE OF RUBBER AND RUBBER AND FABRIC—NAMELY, NEWSPAPER PRESS BLANKETS, FELT BLANKETS, NEWSPAPER CUTTING RUBBERS, LITHOGRAPH OFFSET BLANKETS, LITHOGRAPH PRESS BLANKETS, DRAWSHEETS, AND TOP BLANKETS.
Claims use since January 1943.

Ser. No. 459,077. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 13, 1943.

PREMIER

FOR PRINTERS' SUPPLIES MADE OF RUBBER AND RUBBER AND FABRIC—NAMELY, NEWSPAPER PRESS BLANKETS, FELT BLANKETS, NEWSPAPER CUTTING RUBBERS, LITHOGRAPH OFFSET BLANKETS, LITHOGRAPH PRESS BLANKETS, DRAWSHEETS, AND TOP BLANKETS.
Claims use since January 1943.

Ser. No. 459,475. LAWRENCE A. LOCKWOOD, doing business as Lawrence A. Lockwood Company, Not Inc., Chicago, Ill. Filed Mar. 29, 1943.

Skoot

FOR DELOUSING LEG BANDS FOR CHICKENS, AND OTHER FOWL, COMPRISING REMOVABLE BANDS HAVING PORTIONS HOLDING CHEMICAL PACKS ADAPTED AT BODY TEMPERATURE TO RELEASE FUMES TO PASS THROUGH THE FEATHERS TO KILL POULTRY LICE AND FEATHER MITES.

Claims use since Mar. 10, 1939.

Ser. No. 459,477. MOORMAN MANUFACTURING COMPANY, Quincy, Ill. Filed Mar. 29, 1943. Under section 5b of the act of 1905 as amended in 1920.

Moor Man's

Applicant is the owner of Reg. No. 376,000, effected under the 10-year proviso.

FOR WATERERS AND FEEDERS FOR POULTRY AND FARM ANIMALS.

Claims use since 1918.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 1, 1943

401,680. PAPER ROLLS AND STRIPS FOR USE IN BUSINESS MACHINES AND EQUIPMENT INCLUDING ACCOUNTING, ANALYZING, COMMUNICATING, COMPUTING, WRITING, RECORDING, REGISTERING, DISPENSING AND SIGNALING MACHINES AND EQUIPMENT. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio.
Filed June 16, 1941. Serial No. 444,576. PUBLISHED AUGUST 4, 1942. Class 37.

401,681. CUT FLOWERS—NAMELY, GLADIOLUS, AND BULBS. A & W BULB COMPANY, INC., Clearwater, Fla.
Filed December 16, 1941. Serial No. 449,514. PUBLISHED MARCH 23, 1943. Class 1.

401,682. LUBRICATING O[illegible]. THE NATIONAL REFINING COMPANY, Cleveland, Ohio.
Filed December 26, 1941. Serial No. 449,775. PUBLISHED MARCH 23, 1943. Class 15.

401,683. KITS FOR TOILET ARTICLES. BUDDY KIT Co., Los Angeles, Calif.
Filed December 30, 1941. Serial No. 449,850. PUBLISHED MARCH 23, 1943. Class 3.

401,684. SANITARY PAPER DRINKING CUPS. EASTERN TABLET CORPORATION, Albany, N. Y.
Filed February 26, 1942. Serial No. 451,229. PUBLISHED MARCH 23, 1943. Class 2.

401,685. MECHANICAL AND ELECTRICAL REFRIGERATING FREEZERS FOR PREPARING QUICK FROZEN OR FROSTED FOODS, SUCH AS FRUITS, VEGETABLES AND MEATS. ALBERT P. DE SANNO, JR., Phoenixville, Pa.
Filed March 17, 1942. Serial No. 451,673. PUBLISHED MARCH 23, 1943. Class 31.

401,686. BINGO CARDS AND PADS. E. S. LOWE COMPANY, INC., New York, N. Y.
Filed April 29, 1942. Serial No. 452,671. PUBLISHED MARCH 23, 1943. Class 22.

401,687. PAINTS IN READY MIXED FORM, PAINT ENAMELS, VARNISHES, AND LACQUERS IN READY MIXED FORM. PONTIAC VARNISH COMPANY, Pontiac, Mich.
Filed June 29, 1942. Serial No. 453,946. PUBLISHED MARCH 23, 1943. Class 16.

401,688. BILL FOLDS. SECO LEATHER PRODUCTS COMPANY, West New York, N. J.
Filed August 19, 1942. Serial No. 454,992. PUBLISHED MARCH 23, 1943. Class 3.

401,689. COOKIES OF VARIOUS TYPES AND SHAPES. DEER PARK BAKING CO., Chicago, Ill.
Filed September 2, 1942. Serial No. 455,254. PUBLISHED MARCH 23, 1943. Class 46.

401,690. PAPERBOARD CARTONS SOLD IN THE TRADE EMPTY. CONTAINER CORPORATION OF AMERICA, Chicago, Ill.
Filed September 3, 1942. Serial No. 455,297. PUBLISHED OCTOBER 27, 1942. Class 2.

401,691. WRITING AND PRINTING PAPER. FREDERIC T. BURKHARDT, Holyoke, Mass.
Filed September 11, 1942. Serial No. 455,473. PUBLISHED MARCH 23, 1943. Class 37.

401,692. AIRPLANES. CONSOLIDATED AIRCRAFT CORPORATION, San Diego, Calif.
Filed September 21, 1942. Serial No. 455,645. PUBLISHED MARCH 23, 1943. Class 19.

401,693. PREPARATION OF COFFEE, BARLEY, AND CHICORY FOR USE AS A TABLE BEVERAGE. RECORG SUPPLY CORPORATION, Chicago, Ill.
Filed September 30, 1942. Serial No. 455,872. PUBLISHED MARCH 23, 1943. Class 46.

401,694. STEEL USED FOR DIE BLOCKS AND INSERTS IN DROP HAMMERS AND FORGING PRESSES, ETC. A. FINKL & SONS COMPANY, Chicago, Ill.
Filed October 26, 1942. Serial No. 456,419. PUBLISHED MARCH 23, 1943. Class 14.

401,695. HARD-SURFACED LIGNO-CELLULOSE COMPOSITION FLOORING. MASONITE CORPORATION, Chicago, Ill.
Filed October 29, 1942. Serial No. 456,508. PUBLISHED MARCH 23, 1943. Class 12.

401,696. COAL. CONSOLIDATION COAL COMPANY, New York, N. Y.
Filed December 11, 1942. Serial No. 457,330. PUBLISHED MARCH 23, 1943. Class 1.

401,697. PAPER-BOARD, CARDBOARD, AND WRITING PAPER, WRAPPING PAPER, AND PRINTING PAPER. WALKER-GOULARD-PLEHN COMPANY, INC., New York, N. Y.
Filed December 15, 1942. Serial No. 457,427. PUBLISHED MARCH 23, 1943. Class 37.

401,698. COMMERCIAL LIFT TRUCKS. YARD-MAN, INC., Jackson, Mich.
Filed December 17, 1942. Serial No. 457,488. PUBLISHED MARCH 23, 1943. Class 19.

401,699. YEAST. NORTHWESTERN YEAST COMPANY, Chicago, Ill.
Filed December 19, 1942. Serial No. 457,529. PUBLISHED MARCH 23, 1943. Class 46.

401,700. AIR-MAIL PAPER, AIR-MAIL ENVELOPES, PRINTING PAPER, MAILING ENVELOPES, AND WRITING PAPER, TABLETS, AND DUPLICATION PAPERS. AGENCY PAPER COMPANY, New York, N. Y.
Filed December 21, 1942. Serial No. 457,533. PUBLISHED MARCH 23, 1943. Class 37.

401,701. WATCHES, WATCH MOVEMENTS AND PARTS THEREOF. FABRIQUE DE MONTRES STUDIO, S. A., La Chaux-de-Fonds, Switzerland.
Filed December 22, 1942. Serial No. 457,561. PUBLISHED MARCH 23, 1943. Class 27.

401,702. STEEL PRODUCTS—NAMELY, STEEL BARS. COPPERWELD STEEL COMPANY, Glassport, Pa.
Filed December 26, 1942. Serial No. 457,602. PUBLISHED MARCH 16, 1943. Class 14.

401,703. BELT DRESSING. F. RANIVILLE COMPANY, Grand Rapids, Mich.
Filed December 26, 1942. Serial No. 457,615. PUBLISHED MARCH 23, 1943. Class 4.

401,704. CLEANING PREPARATION FOR THE METAL PARTS OF A GUN, INCLUDING THE GUN BORE. KNORR-MAYNARD, INC., Detroit, Mich.
Filed December 30, 1942. Serial No. 457,653. PUBLISHED MARCH 23, 1943. Class 4.

401,705. POWDERED IRON. PLASTIC METALS, INC., Johnstown, Pa.
Filed December 30, 1942. Serial No. 457,655. PUBLISHED MARCH 16, 1943. Class 14.

401,706. TOY PRESSURE-PROPELLED AIRPLANES. CHICAGO MUSICAL INSTRUMENT CO., Chicago, Ill.
Filed January 2, 1943. Serial No. 457,719. PUBLISHED MARCH 23, 1943. Class 22.

401,707. FEEDS FOR LIVESTOCK AND POULTRY—NAMELY, CONDENSED DISTILLERS' SOLUBLES. THE ATLANTIC SUPPLY COMPANY, Baltimore, Md. Filed January 4, 1943. Serial No. 457,734. PUBLISHED MARCH 23, 1943. Class 46.

401,708. GASOLINE. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed January 4, 1943. Serial No. 457,745. PUBLISHED MARCH 23, 1943. Class 15.

401,709. FIRE HOSE COUPLINGS. THE WOOSTER BRASS COMPANY, Wooster, Ohio. Filed January 4, 1943. Serial No. 457,753. PUBLISHED MARCH 23, 1943. Class 13.

401,710. SOLUBLE CLEANING COMPOUND IN POWDERED FORM. THE DIVERSEY CORPORATION, Chicago, Ill. Filed January 7, 1943. Serial No. 457,791. PUBLISHED MARCH 23, 1943. Class 4.

401,711. PANCAKE FLOUR. OMAR INCORPORATED, Omaha, Nebr. Filed January 9, 1943. Serial No. 457,839. PUBLISHED MARCH 23, 1943. Class 46.

401,712. ABSORBENT COTTON, GAUZE, GAUZE BANDAGES, DRESSING PADS OR COMPRESSES, AND ADHESIVE TAPE. THE BIKE WEB COMPANY, Chicago, Ill. Filed January 16, 1943. Serial No. 457,945. PUBLISHED MARCH 23, 1943. Class 44.

401,713. ELASTIC COTTON BANDAGES. MEDICAL FABRICS, INC., Newark, N. J. Filed January 18, 1943. Serial No. 457,984. PUBLISHED MARCH 23, 1943. Class 44.

401,714. REFINED, SEMIREFINED, AND UNREFINED OILS MADE FROM PETROLEUM, BOTH WITH AND WITHOUT ADMIXTURE OF ANIMAL, VEGETABLE, OR MINERAL OILS, FOR ILLUMINATING, BURNING, POWER, FUEL, AND LUBRICATING PURPOSES, AND LUBRICATING GREASES. COLONIAL BEACON OIL COMPANY, Boston, Mass. Filed January 19, 1943. Serial No. 458,009. PUBLISHED MARCH 23, 1943. Class 15.

401,715. PLAYING CARDS. ARRCO PLAYING CARD CO., Chicago, Ill. Filed January 25, 1943. Serial No. 458,144. PUBLISHED MARCH 23, 1943. Class 22.

401,716. LADIES' HANDBAGS. GOLD SEAL IMPORTERS, INC., New York, N. Y. Filed January 29, 1943. Serial No. 458,223. PUBLISHED MARCH 23, 1943. Class 3.

401,717. MATTRESSES AND SPRING FOUNDATIONS THEREFOR. ROYAL BEDDING COMPANY, St. Louis, Mo. Filed January 29, 1943. Serial No. 458,227. PUBLISHED MARCH 23, 1943. Class 32.

401,718. DOLLS. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed January 29, 1943. Serial No. 458,229. PUBLISHED MARCH 23, 1943. Class 22.

401,719. ELECTRICALLY OPERATED WATER COOLERS. ICELESS COOLER CORPORATION, New York, N. Y. Filed February 6, 1943. Serial No. 458,366. PUBLISHED MARCH 23, 1943. Class 31.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,720. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) ALEXANDER YOUNG DISTILLING COMPANY, Philadelphia, Pa. Filed Sept. 5, 1941. Serial No. 446,825.



FOR WHISKEY.
Claims use since Mar. 23, 1934.

401,721. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THOMPSON PRODUCTS, INCORPORATED, Cleveland, Ohio. Filed Oct. 29, 1941. Serial No. 448,280.

Thompson

FOR ENGINE VALVES AND VALVE GUIDES, VALVE SEAT INSERTS, VALVE SPRINGS AND VALVE RETAINERS FOR THE SAME, WATER PUMPS AND PARTS THEREOF, WATER PUMP REFACING TOOLS, ENGINE MAIN AND CONNECTING ROD BEARINGS, AIRCRAFT ENGINE FUEL PUMPS, AUTOMOBILE FRONT WHEEL ALIGNING EQUIPMENT, CYLINDER SLEEVES FOR ENGINE CYLINDERS, PISTONS, PISTON PINS, PISTON INSERTS, BEARING BUSHINGS, AUTOMOBILE PROPELLER SHAFTS, GEAR SHIFTING LEVERS, AND DETACHABLE DRILL BITS.
Claims use since Nov. 6, 1924.

401,722. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CRAWFORD-AUSTIN MANUFACTURING CO., INC., Waco, Tex. Filed Jan. 13, 1942. Serial No. 450,176.

GEAR DUCK

FOR CANVAS OR DUCK FABRIC IN THE PIECE.
Claims use since Aug. 6, 1941.

401,723. (CLASS 39. CLOTHING.) ALPHA MILLS, INC., Schuylkill Haven, Pa. Filed Jan. 15, 1942. Serial No. 450,219.

Tuf-E-Togs

FOR MEN'S, WOMEN'S, AND CHILDREN'S CREEPERS, ROMPERS, SWEATERS, SHIRTS, SHIRT WAISTS, UNDERSHIRTS, AND PANTIES.
Claims use since Dec. 15, 1941.

401,724. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) TEXTILEATHER CORPORATION, Toledo, Ohio. Filed Jan. 15, 1942. Serial No. 450,252.

TURON

FOR COATED FABRICS.
Claims use since Dec. 29, 1941.

401,725. (CLASS 27. HOROLOGICAL INSTRUMENTS.) R. GSELL & CO., INC., New York, N. Y. Filed July 11, 1942. Serial No. 454,170.

CORTEBERT

FOR WATCHES AND WATCH MOVEMENTS, WATCHCASES, AND PARTS THEREOF.
Claims use since Mar. 4, 1921.

401,726. (CLASS 32. FURNITURE AND UPHOLSTERY.) PERCY SOLOTOY, doing business as Brown-Saltman Furniture Company, South Gate, Calif. Filed Oct. 28, 1942. Serial No. 456,498.



FOR BEDROOM FURNITURE, DINING ROOM FURNITURE, OCCASIONAL TABLES—TO WIT, END TABLES, COFFEE TABLES, LAMP TABLES, CONSOLE TABLES, AND DESKS.
Claims use since September 1941.

401,727. (CLASS 39. CLOTHING.) L. ABELSON & SON, New York, N. Y. Filed Dec. 8, 1942. Serial No. 457,264.

SPORT 'N SHORT

FOR JUVENILE SACK COATS AND TROUSERS.
Claims use since Oct. 1, 1941.

401,728. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) CRITES-MOSCOW GROWERS, INC., Moscow, Idaho. Filed Dec. 17, 1942. Serial No. 457,464.



FOR SEED PEAS.
Claims use since September 1941.

401,729. (CLASS 12. CONSTRUCTION MATERIALS.) TRUSCON LABORATORIES, INC., Detroit, Mich. Filed Dec. 17, 1942. Serial No. 457,486.

Tru-Cure

FOR CONCRETE CURING COMPOUND.
Claims use since April 1942.

401,730. (CLASS 37. PAPER AND STATIONERY.) CODO MANUFACTURING CORP., Coraopolis, Pa., and Chicago, Ill. Filed Dec. 23, 1942. Serial No. 457,570.

Carbon-Gripper

FOR BACKING SHEETS FOR AN ASSEMBLY OF CARBON AND TYPEWRITING SHEETS.
Claims use since April 1935.

401,731. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) V. V. DEXTER, Ellensburg, Wash. Filed Feb. 22, 1943. Serial No. 458,682.

DEXTER'S
HONEY BUTTER

FOR HONEY.
Claims use since 1934.

401,732. (CLASS 37. PAPER AND STATIONERY.) THE AMERICAN DAIRY CATTLE CLUB, Chicago, Ill. Filed Mar. 20, 1943. Serial No. 459,233.

THE AMERICAN DAIRY CATTLE CLUB

FOR PRINTED AND PARTIALLY PRINTED FORMS FOR KEEPING RECORDS, CHARTS, BLANKS, AND CERTIFICATES RELATING TO THE DAIRY INDUSTRY.
Claims use since June 10, 1937.

401,733. (CLASS 2. RECEPTACLES.) ALFRED A. FLASTER, New York, N. Y. Filed Apr. 3, 1943. Serial No. 459,595.

MARCEE

FOR UNFILLED VANITY CASES AND COMPACTS NOT MADE OF PRECIOUS METAL.
Claims use since Jan. 12, 1942.

TRADE-MARK REGISTRATIONS RENEWED

23,291. **ARMOUR'S VEGETOLE.** A SUBSTITUTE FOR LARD AND BUTTER. Registered July 4, 1893. ARMOUR & Co. Re-renewed July 4, 1943, to Armour and Company, Chicago, Ill., a corporation of Illinois, assignee.

23,498. **SURE POP.** INSECT AND VERMIN DESTROYING PREPARATIONS. Registered August 15, 1893. ADOLPH ISAACSEN & SON. Re-renewed August 15, 1943, to Adolph Isaacsen & Son, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

23,653. **COWEN.** BRICKS, RETORTS, TILES, QUARLES, PIPES, LUMPS AND OTHER ARTICLES MADE OF FIRE-CLAY. Registered September 26, 1893. JOSEPH COWEN & Co., Blaydon-on-Tyne, England. Renewed September 26, 1943, to The Priestman Collieries Limited, Newcastle-on-Tyne, England, a United Kingdom Corporation, assignee.

23,692. **"STEAM" AND DRAWING.** STEAM GENERATORS. Registered October 10, 1893. THE BABCOCK & WILCOX COMPANY, Elizabethport, N. J., and New York, N. Y. Re-renewed October 10, 1943, to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey.

163,477. **NYPEN.** CERTAIN NAMED PAPERS FOR PRINTING, WRITING, WRAPPING, AND OTHER USES. Registered January 16, 1923. NEW YORK & PENNSYLVANIA COMPANY, Castanea, Pa., and New York, N. Y. Renewed January 16, 1943, to New York & Pennsylvania Company, Inc., New York, N. Y., a corporation of Delaware, assignee.

163,478. **L. H.** CERTAIN NAMED PAPERS AND PAPER BOARDS. Registered January 16, 1923. NEW YORK & PENNSYLVANIA COMPANY, Castanea, Pa., and New York, N. Y. Renewed January 16, 1943, to New York & Pennsylvania Company, Inc., New York, N. Y., a corporation of Delaware, assignee.

166,878. **KAY KAY.** BUTTER, EGGS, CHEESE. Registered April 17, 1923. KURTIN & KURTIN. Renewed April 17, 1943, to Kurtin & Kurtin, New York, N. Y., a firm, successor.

167,112. **MORRIS' SUPREME.** OLEOMARGARINE. Registered April 24, 1923. MORRIS & COMPANY. Renewed April 24, 1943, to Armour and Company of Delaware, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

167,243. **"A.J.A.G." AND DRAWING.** CRUDE AND PREPARED ALUMINIUM AND ALUMINIUM ALLOYS. Registered April 24, 1923. ALUMINIUM-INDUSTRIE-AKTIEN-GESELLSCHAFT, Chippis, Switzerland, a corporation of Switzerland. Renewed April 24, 1943.

167,257. **NUWAY ARTSHEL.** OPHTHALMIC MOUNTINGS AND PARTS THEREOF. Registered April 24, 1923. STEVENS & COMPANY, INC., Providence, R. I. Renewed April 24, 1943, to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York, assignee.

167,483. **CHINOSOL.** ANTISEPTIC COMPOUND. Registered May 1, 1923. CHINOSOL COMPANY, New York, N. Y. Renewed May 1, 1943, to Chinosol Products Company, Incorporated, Mount Vernon, N. Y., a corporation of New York, by change of name.

167,840. **PAL-WELD.** SOLDERING FLUX. Registered May 8, 1923. PALLADY WELDING & MANUFACTURING COMPANY. Renewed May 8, 1943, to Pal-Weld Manufacturing Company, Seattle, Wash., a corporation of Washington, assignee.

168,137. **SEALOL.** WHITE MINERAL OIL. Registered May 15, 1923. STANDARD OIL COMPANY, INCORPORATED IN NEW JERSEY, Bayonne, N. J. Renewed May 15, 1943, to Stanco Incorporated, New York, N. Y., a corporation of Delaware, assignee.

168,316. **MAGNA.** INDIA-RUBBER PLATES OR PADS FOR ATTACHMENT TO THE SOLES OF BOOTS AND SHOES. Registered May 22, 1923. PHILLIPS' PATENTS LIMITED, London, England, an incorporated company of Great Britain. Renewed May 22, 1943.

168,728. **RADEOLITE.** READY-MIXED WALL PAINTS, WALL SIZE, AND WALL-PAINT THINNERS. Registered May 29, 1923. SEWALL PAINT & GLASS COMPANY. Renewed May 29, 1943, to Sewall Paint & Varnish Company, Kansas City, Mo., a corporation of Missouri, assignee.

168,772. **REPTEEN.** WOOLEN PIECE GOODS. Registered May 29, 1923. FORSTMANN & HUFFMANN COMPANY. Renewed May 29, 1943, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee.

168,888. **PYRALIN.** HAIR, HAT, CLOTH, AND BABY BRUSHES. Registered May 29, 1923. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed May 29, 1943.

168,889. **PYRALIN.** HAIR COMBS (EXCEPT PRECIOUS METAL AND RUBBER), SHOE HORNS AND BUTTON HOOKS (EXCEPT PRECIOUS METAL), AND PIN CUSHIONS. Registered May 29, 1923. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed May 29, 1943.

169,866. **UTILITY.** OPHTHALMIC MOUNTINGS AND PARTS THEREOF. Registered July 3, 1923. STEVENS & COMPANY, INC., Providence, R. I. Renewed July 3, 1943, to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York, assignee.

170,006. **PEROLINE.** CLEAR LIQUID CHEMICAL PREPARATION OF ACID REACTION FOR PREVENTING RUST. Registered July 10, 1923. AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa. Renewed July 10, 1943, to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware.

170,049. **GOLDEN DWARF.** CERTAIN NAMED SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. Registered July 10, 1923. H. KIRSCH & Co. Renewed July 10, 1943, to Kirsch's Beverages, Inc., Brooklyn, N. Y., a corporation of New York, successor.

171,586. **WASP.** FLY SWATTERS AND STICKY PAPER FOR CATCHING FLYS AND INSECTS. Registered August 7, 1923. F. W. HAMPSHIRE & Co., LD. Renewed August 7, 1943, to F. W. Hampshire & Co., Limited, Derby, England, a corporation of United Kingdom of Great Britain and Northern Ireland, assignee.

171,758. **VELVET.** POWDERED SUGAR. Registered August 14, 1923. RICHARDSON & HOLLAND, INC., Seattle, Wash., a corporation of Washington. Renewed August 14, 1943.

171,801. **DIXISTEEL.** WIRE FENCES. Registered August 14, 1923. ATLANTIC STEEL COMPANY, Atlanta, Ga., a corporation of Delaware. Renewed August 14, 1943.

171,857. **ARTSHEL KREST.** OPHTHALMIC MOUNTINGS AND PARTS THEREOF. Registered August 14, 1923. STEVENS & COMPANY, INC., Providence, R. I. Renewed August 14, 1943, to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York, assignee.

171,861. **INNERIM ARTSHEL.** OPHTHALMIC MOUNTINGS AND PARTS THEREOF. Registered August 14, 1923. STEVENS & COMPANY, INC., Providence, R. I. Renewed August 14, 1943, to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York, assignee.

172,044. **"THE GOODYEAR NEWS" AND DRAWING.** HOUSE-ORGAN PUBLICATIONS ISSUED AT REGULAR INTERVALS. Registered August 21, 1923. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed August 21, 1943.

172,106. **"DE LUXE" AND DRAWING.** CERTAIN NAMED RECEPTACLES. Registered August 21, 1923. SCHLUETER MANUFACTURING CO., St. Louis, Mo., a corporation of Missouri. Renewed August 21, 1943.

172,135. **BRADLEYOMETER.** CERTAIN NAMED ELECTRICAL CONTROLLING DEVICES. Registered August 21, 1923. ALLEN-BRADLEY COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed August 21, 1943.

172,205. **"FUR-MOST".** FUR COATS, FUR WRAPS AND CAPES, FUR SCARFS AND NECK PIECES, AND FUR MUFFS. Registered August 28, 1923. WELLS-TREISTER CO., INC. Renewed August 28, 1943, to Wells-Treister Co., New York, N. Y., a firm, assignee.

172,283. **"SUNLID CARADINE" AND DRAWING.** STRAW HATS FOR MEN, WOMEN, AND CHILDREN. Registered August 28, 1923. CARADINE HARVEST HAT COMPANY. Renewed August 28, 1943, to Caradine Hat Company, St. Louis, Mo., a corporation of Missouri, by change of name.

172,413. **HOMCO.** CORE OILS. Registered August 28, 1923. AMERICAN HOMINY COMPANY, Chicago, Ill. Renewed August 28, 1943, to Decatur Milling Company, Inc., Decatur, Ill., a corporation of Indiana, assignee by mesne assignments.

172,650. **DIAZYME.** ENZYME SUBSTANCES PRIMARILY FOR USE IN DEGUMMING SILKS AND FIBROUS MATERIALS, AND FOR DESIZING AND DESTARCHING. Registered September 11, 1923. TAKAMINE LABORATORY, INC., Clifton, N. J., a corporation of New York. Renewed September 11, 1943.

172,759. **LA GIACONDA.** WHEAT FLOUR. Registered September 11, 1923. THE MIDLAND FLOUR MILLING CO., North Kansas City, Mo., a corporation of Kansas. Renewed September 11, 1943.

172,822. **"LOUP VALLEY HATCHERY" AND DRAWING.** LIVE CHICKENS. Registered September 11, 1923. LOUP VALLEY HATCHERY, St. Paul and Cushing, Nebr. Renewed September 11, 1943, to Loup Valley Hatchery, St. Paul, Nebr., a copartnership.

173,102. **QUINISAL.** ANTIRHEUMATIC. Registered September 18, 1923. MERCK & Co., New York, N. Y. Renewed September 18, 1943, to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey, assignee.

173,149. **MARKSMAN.** SPORTING RIFLES. Registered September 18, 1923. J. STEVENS ARMS COMPANY. Renewed September 18, 1943, to Savage Arms Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

173,158. **CRACK SHOT.** SPORTING RIFLES. Registered September 18, 1923. J. STEVENS ARMS COMPANY. Renewed September 18, 1943 to Savage Arms Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

173,276. **SPORT-WEVE.** NOVELTY WORSTED FABRICS. Registered September 18, 1923. INTERNATIONAL WORSTED MILLS, Methuen, Mass., and New York, N. Y. Renewed September 18, 1943 to Selden Worsted Mills, Methuen, Mass., a corporation of Massachusetts, assignee.

173,277. **AERIWEVE.** TROPICAL WORSTEDS IN THE PIECE. Registered September 18, 1923. INTERNATIONAL WORSTED MILLS, Methuen, Mass., and New York, N. Y. Renewed September 18, 1943, to Selden Worsted Mills, Methuen, Mass., a corporation of Massachusetts, assignee.

173,471. **"FARM HOUSE" AND DRAWING.** BAKING POWDER AND BAKING SODA. Registered September 25, 1923. REID, MURDOCK & Co., Chicago, Ill., a corporation of Illinois. Renewed September 25, 1943.

173,479. **SEYMORITE.** METAL ALLOYS OF COPPER, ZINC, AND NICKEL IN CERTAIN NAMED FORMS. Registered September 25, 1923. THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn., a corporation of Connecticut. Renewed September 25, 1943.

173,480. **"SEYMORITE" AND DRAWING.** METAL ALLOYS OF COPPER, ZINC, AND NICKEL, IN THE FORM OF TUBES AND SHELLS. Registered September 25, 1923. THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn., a corporation of Connecticut. Renewed September 25, 1943.

173,481. **SEYMORITE.** METAL ALLOYS OF COPPER, ZINC, AND NICKEL, IN THE FORM OF TUBES AND SHELLS. Registered September 25, 1923. THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn., a corporation of Connecticut. Renewed September 25, 1943.

173,733. **BONDARON.** CERTAIN NAMED LEATHER LOOM SUNDRIES. Registered October 2, 1923. CHARLES BOND COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 2, 1943.

173,773. **"TUADS" AND DRAWING.** CHEMICAL COMPOUND USED IN THE MANUFACTURE OF RUBBER PRODUCTS. Registered October 2, 1923. R. T. VANDERBILT COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 2, 1943.

173,794. **"OLD FAITHFUL" AND DRAWING.** MEN'S WORK SHIRTS. Registered October 2, 1923. RELIANCE MANUFACTURING COMPANY. Renewed October 2, 1943, to Reliance Manufacturing Company, Chicago, Ill., a corporation of Illinois, assignee.

173,857. **RAYVALE.** CANNED FRUITS. Registered October 2, 1923. RAY-MALING CO., INC., Portland, Oreg. Renewed October 2, 1943, to Ray-Maling Co., Inc., Hillsboro, Oreg., a corporation of Oregon.

173,858. **RAYCROFT.** CANNED FRUITS, CANNED BERRIES, AND CANNED VEGETABLES. Registered October 2, 1923. RAY-MALING CO., INC., Portland, Oreg. Renewed October 2, 1943, to Ray-Maling Co., Inc., Hillsboro, Oreg., a corporation of Oregon.

173,859. **RAYCREST.** CANNED FRUITS AND CANNED BERRIES. Registered October 2, 1923. RAY-MALING CO., INC., Portland, Oreg. Renewed October 2, 1943, to Ray-Maling Co., Inc., Hillsboro, Oreg., a corporation of Oregon.

173,862. **GARDAN.** CERTAIN NAMED MEDICINAL PREPARATIONS. Registered October 2, 1923. FARBWERKE VORM. MEISTER LUCIUS & BRUNING, Hochst-on-the-Main, Germany. Renewed October 2, 1943, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

173,904. **"LONG LIFE" AND DRAWING.** STEEL SHEETS, BLACK AND GALVANIZED AND TERNE, COATED OR PAINTED, ALSO STEEL BARS, PLATES, AND BLUE ANNEALED. Registered October 2, 1923. ROY G. HIRD, doing business as Garley Steel Company. Renewed October 2, 1943, to Republic Metals & Roofing Materials, Inc., Chicago, Ill., a corporation of Illinois, assignee.

173,931. **SANTAVALLEY.** CANNED FRUIT AND VEGETABLES AND DRIED FRUIT. Registered October 2, 1923. BARRON-GRAY PACKING COMPANY, San Jose, Calif., a corporation of California. Renewed October 2, 1943.

173,938. **ANACONDA.** BRASS TUBES, COPPER TUBES, LOW-BRASS SEAMLESS TUBES, COPPER SEAMLESS TUBES, CONDENSER TUBES, BRAZED BRASS AND COPPER TUBES, AND NICKEL-SILVER SEAMLESS TUBES. Registered October 2, 1923. ANACONDA COPPER MINING COMPANY, New York, N. Y., a corporation of Montana. Renewed October 2, 1943.

173,952. **PLAZA.** MALT BEVERAGE. Registered October 2, 1923. S. LIEBMANN'S SONS, INC. Renewed October 2, 1943, to Liebmann Breweries, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

173,958. **DREAD NAUGHT.** SHOTGUNS. Registered October 2, 1923. J. STEVENS ARMS COMPANY. Renewed October 2, 1943, to Savage Arms Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

174,027. **"BASCO" IN REPRESENTATION OF AN OCTAGON.** COTTON PIECE GOODS. Registered October 2, 1923. JOSEPH BANCROFT & SONS COMPANY, Wilmington, Del. Renewed October 2, 1943, to Joseph Bancroft & Sons Co., Rockford, Wilmington, Del., a corporation of Delaware.

174,068. **CRYSTAL Z. B. T.** POWDER FOR NURSERY AND TOILET USE. Registered October 2, 1923. THE CRYSTAL CHEMICAL CO. INC., New York, N. Y. Renewed October 2, 1943, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

174,098. **"THE WHITE SPOT" AND DRAWING.** PIPE, CIGAR AND CIGARETTE HOLDERS, AND TOBACCO POUCHES. Registered October 2, 1923. ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Renewed October 2, 1943, to Alfred Dunhill Limited, London, England, a corporation of Great Britain, assignee.

174,100. **"DIAMOND 4" AND DRAWING.** PILLOWCASES. Registered October 2, 1923. NAUMKEAG STEAM COTTON COMPANY, Salem, Mass., a corporation of Massachusetts. Renewed October 2, 1943.

174,101. **"DIAMOND 62" AND DRAWING.** PILLOWCASES. Registered October 2, 1923. NAUMKEAG STEAM COTTON COMPANY, Salem, Mass., a corporation of Massachusetts. Renewed October 2, 1943.

174,178. **ARISTOCRAT.** OPHTHALMIC MOUNTINGS AND PARTS THEREOF, SUCH AS BRIDGES, TEMPLES, ETC. Registered October 9, 1923. OPTICAL SPECIALTY MANUFACTURING COMPANY, Southbridge, Mass. Renewed October 9, 1943, to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York, assignee.

174,192. **SANDMAN.** TEXTILE COTTON FABRICS—NAMELY, COTTON PIECE GOODS. Registered October 9, 1923. AMORY, BROWNE & Co. Renewed October 9, 1943, to Nashua Manufacturing Company, Boston, Mass., a corporation of New Hampshire, assignee.

174,211. **UNCLE FULLER.** WORK SHIRTS AND OVERALLS. Registered October 9, 1923. WASHINGTON MANUFACTURING CO., Nashville, Tenn., a corporation of Tennessee. Renewed October 9, 1943.

174,224. **COL-O-VAR.** VARNISHES, VARNISH STAIN, ENAMELS, FLOOR ENAMELS, GRAINING COLOR, GOLD PAINT, SILVER PAINT, UNDERCOATS. Registered October 9, 1923. SEWALL PAINT & GLASS COMPANY. Renewed October 9, 1943, to Sewall Paint & Varnish Company, Kansas City, Mo., a corporation of Missouri, assignee.

174,237. **LONDON WRITINGS.** WRITING PAPERS AND MAILING ENVELOPES AND PRINTING PAPERS. Registered October 9, 1943. WHITING PAPER COMPANY, Holyoke, Mass., a corporation of Massachusetts. Renewed October 9, 1943.

174,248. **"IRONALL" AND DRAWING.** OVERALLS, COATS, PANTS, JUMPERS, COMBINATION ONE-PIECE SUITS, AND PANTALOONS FOR MEN AND PLAY SUITS FOR CHILDREN. Registered October 9, 1923. THE IRONALL FACTORIES CO., Cincinnati, Ohio, a corporation of Ohio. Renewed October 9, 1943.

174,253. **HOP SCOTCH.** HOSIERY. Registered October 9, 1923. RICHMOND HOSIERY MILLS, Rossville, Ga., a corporation of Georgia. Renewed October 9, 1943.

174,262. **"POM-POM".** HOSIERY. Registered October 9, 1923. CHIPMAN KNITTING MILLS, Easton, Pa. Renewed October 9, 1943, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York, assignee.

174,271. **SPECIAL YELLOW TICKET.** PANTS, NORFOLK JACKETS, COATS, AND VESTS. Registered October 9, 1923. SWEET-ORR & CO., INC., Wappingers Falls and New York, N. Y., a corporation of New York. Renewed October 9, 1943.

174,365. **ARROW-TEX.** COLLARS. Registered October 16, 1923. CLUETT, PEABODY & CO., INC., Troy, N. Y., a corporation of New York. Renewed October 16, 1943.

174,390. **SUN BRAND.** HOPS. Registered October 16, 1923. J. SONNENSCHEIN HOP COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 16, 1943.

174,408. **"S" AND DRAWING.** METAL ELECTRODES. Registered October 16, 1923. THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn., a corporation of Connecticut. Renewed October 16, 1943.

174,452. **"VOLTAPE".** ELECTRICAL INSULATING MATERIAL OF UNWOVEN FABRIC IMPREGNATED WITH AN ADHESIVE SUBSTANCE. Registered October 16, 1923. RESPRO INC., Providence, R. I. Renewed October 16, 1943, to Respro Inc., Cranston, R. I., a corporation of Rhode Island. Renewed October 16, 1943.

174,465. **"WABACO" AND DRAWING.** LEATHER, WOVEN AND RUBBER BELTING, HOSE, SHEET PACKING, AND ROD AND PISTON PACKING. Registered October 16, 1923. WARREN & BAILEY COMPANY, Los Angeles, Calif., a corporation of California. Renewed October 16, 1943.

174,471. **"LINCOLN" AND DRAWING.** MOTOR CARS. Registered October 16, 1923. FORD MOTOR COMPANY, Highland Park, Mich. Renewed October 16, 1943, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware. Renewed October 16, 1943.

REISSUES

JUNE 1, 1943

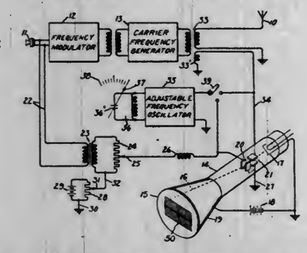
22,328

FREQUENCY MODULATION MEASUREMENT

Howard M. Crosby, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original No. 2,272,768, dated February 10, 1942, Serial No. 341,719, June 21, 1940. Application for reissue September 12, 1942, Serial No. 458,149

32 Claims. (Cl. 179—171.5)



1. The method of analyzing electrical oscillations whose frequency is varied over a frequency band at a rate and in a degree determined respectively by the frequency and amplitude of modulating oscillations which comprises the steps of producing an instantaneous two-dimensional pattern, one dimension of which is determined by the oscillations to be analyzed, and the other dimension of which is determined by the modulating oscillations, independently producing oscillations of a predetermined frequency lying within said band and altering the configuration of said pattern in accordance with said last-named oscillations.

22,329

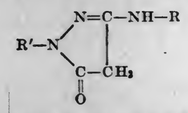
PYRAZOLONE COUPLERS FOR COLOR PHOTOGRAPHY

Henry D. Porter and Arnold Weissberger, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Original No. 2,311,082, dated February 16, 1943, Serial No. 419,173, November 14, 1941. Application for reissue March 31, 1943, Serial No. 481,354

10 Claims. (Cl. 95—6)

1. A color forming photographic developer comprising a primary aromatic amino developing agent and a coupler compound having the formula:

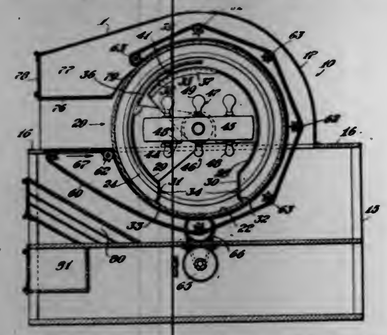


in which R is selected from the class consisting of alkyl groups and aryl groups, R' is selected from the class consisting of hydrogen, alkyl and acyl groups.

PATENTS

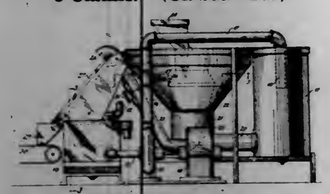
GRANTED JUNE 1, 1943

2,320,334
PHOTOGRAPHIC PRINTING MACHINE
William Page Bates, Lynnfield, Mass.
Application June 25, 1941, Serial No. 399,621
4 Claims. (Cl. 95—77.5)



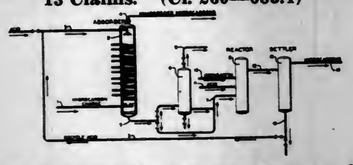
1. A photographic printing machine comprising a housing, a work table, a cylinder enclosed within said housing and having stationary end walls supported on said work table, and an outer wall formed by a roller of transparent material and freely rotatable about said end walls, shutters defining a printing aperture at said roller, a shaft within the cylinder mounted in said stationary end walls, a pair of batteries carried by said shaft within said cylinder, means for manipulating said shaft so as to bring one of said batteries into register with said printing aperture, a belt which coacts with the roller to clamp the work therebetween and which rotates said roller to advance the work to the printing aperture and remove it therefrom, and means for driving said belt.

2,320,335
QUALITY GRADER
Edward G. Bauer, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 28, 1940, Serial No. 337,605
5 Claims. (Cl. 209—173)



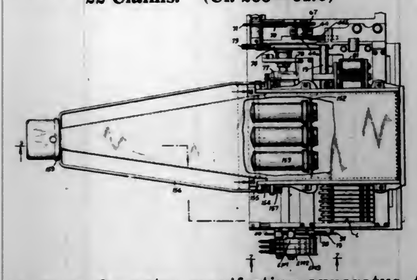
1. In an apparatus for grading peas and the like for quality, having a tank into which fluid is introduced to produce a whirling current, means at the top of the tank to remove the floating peas from the surface of the fluid, and a discharge outlet at the bottom of the tank for the removal of peas which sink: means including a baffle disposed substantially centrally in said tank to form an enclosure from which sinking peas are excluded, said baffle having apertures therein smaller than a pea for the escape of air bubbles from the current of fluid outside said enclosure to the interior thereof and means for venting said air bubbles.

2,320,336
ALKYLATION OF HYDROCARBONS
Frank H. Bruner and William E. Skelton, Beacon, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application September 15, 1939, Serial No. 295,017
13 Claims. (Cl. 260—683.4)



13. In a process for the manufacture of high anti-knock gasoline hydrocarbons by alkylation of an isoparaffin with C_3 and C_4 olefins in the presence of a liquid alkylation catalyst, which catalyst normally causes substantial hydropolymerization of C_4 olefins in its initial fresh state and in the absence of an excess of isoparaffin, the steps which comprise contacting a hydrocarbon fraction comprising a C_4 olefin with the liquid alkylation catalyst containing absorbed propylene such that the C_4 olefin is absorbed under conditions avoiding substantial hydropolymerization, and thereafter subjecting the absorbed olefins to contact with an isoparaffin in the presence of liquid alkylation catalyst under alkylating conditions to produce high anti-knock gasoline hydrocarbons.

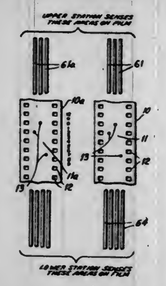
2,320,337
CATHODE TUBE RECORDER FOR CALCULATING MACHINES
James W. Bryce, Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 30, 1939, Serial No. 282,208
22 Claims. (Cl. 235—61.6)



11. In a character manifesting apparatus, the combination of means providing images to be displayed, said means comprising in combination an electronic character displaying device, a plurality of pattern component emitters for generating component potentials required to control tracing of a plurality of different character outlines by the electronic device, pattern emitter selecting means for selecting the pattern component emitter for effective action, whereby the electronic device will display the character corresponding to the selected emitter, and means for controlling said selecting means to select any desired one of the emitters.

12. A record controlled accounting machine with record handling mechanism for handling the control records and including in combination, record analyzing means for analyzing numerical character representations on the records, calculating mechanism having result receiving means controlled by said analyzing means, a plurality of pattern component emitters one for each different digit to be recorded, each emitter generating component potentials required to control the tracing of its related character outline, a cathode ray tube for manifesting result data, pattern component emitter selecting means controlled by the aforesaid result receiving means for selecting a pattern component emitter for action and for connecting the selected emitter to the cathode ray tube so that the tube may manifest a result standing in the result receiving means.

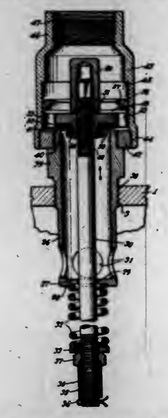
2,320,338
VERIFYING MACHINE
James W. Bryce, Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 18, 1941, Serial No. 419,633
10 Claims. (Cl. 88—14)



7. A verifying machine of the character described for comparing the coded data designations formed on two record strips comprising means for feeding, in synchronism, the two record strips, individual means for sensing the coded data designations on the said record strips, which designations on one strip should conform to the designations on the other strip, means jointly controlled by the individual sensing means for determining the presence of any unwanted designations of a character capable of influencing either of the said sensing means, and means controlled by the said determining means, upon the sensing of any unwanted designation on one of the record strips having means for indicating the presence of the said unwanted designation by acting concurrently upon the two sensed record strips.

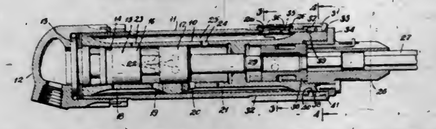
2,320,339
SAFETY VALVE
William C. Buttner, Winnetka, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application August 21, 1939, Serial No. 291,205
13 Claims. (Cl. 137—53)

13. A valve member for a fluid actuated safety valve comprising a body having a cylindrical outer surface, a port closing means at one end, passages through the wall of the body parallel with said outer surface and terminating in a compartment located centrally of the body, said compartment terminating outwardly in a wall having



an inwardly extending reacting surface in the path of flow of fluid from the passages and the outer end of said wall defining a central opening at the other end of the valve constituting the main outlet for escaping fluid.

2,320,340
EXHAUST CONTROL FOR AIR HAMMERS
Oliver O. Appton, New York, N. Y., assignor to Lorintha B. Appton, New York, N. Y.
Original application May 19, 1938, Serial No. 208,773, now Patent No. 2,265,989, dated December 16, 1941. Divided and this application December 15, 1941, Serial No. 423,030
6 Claims. (Cl. 121—35)

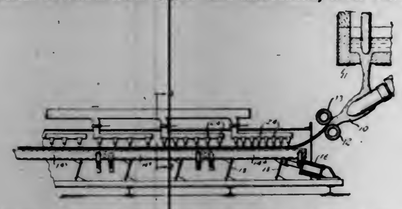


1. In a fluid pressure operated implement of the character described having a plunger for actuating a tool supported in the implement, the tool end of the implement having an exhaust for the fluid pressure passed through the implement, means on the implement controlling said exhaust, said means being adjustable to regulate the power operation of the plunger to adapt the implement to the performance of different types and classes of work, means retaining said first named means in different positions of adjustment, the exhaust of said implement comprising circumferentially spaced ports, the first named means comprising a baffle ring, and said baffle ring having circumferentially spaced ports in registering alinement with said exhaust ports.

2,320,341
METHOD OF FORMING INITIALLY LIQUID MATERIALS
Urban E. Bowes, Perrysburg, Ohio
Application September 21, 1940, Serial No. 357,779
6 Claims. (Cl. 49—85)

1. The method of forming a body of thermoplastic, hardenable material which includes the steps of initially shaping the material, supporting the material over a body having its surface

shaped to correspond with the desired surface of the finished material, vibrating said body in a path toward and from the material, and main-

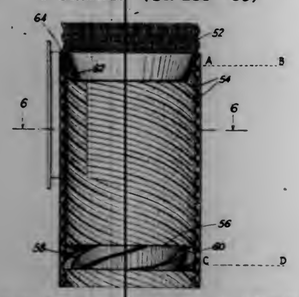


taining the rate of vibration such that the retraction of the body away from the material is in excess of the rate at which the material moves under the influence of gravity.

2,320,342
TREATING FERROPHOSPHORUS
Grover L. Bridger, near Sheffield, Ala.
No Drawing. Application March 17, 1942, Serial No. 435,073
7 Claims. (Cl. 75—28)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

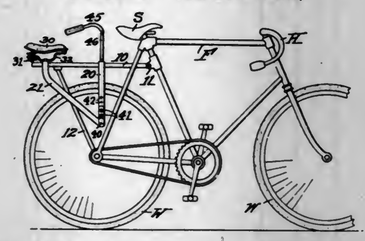
2. A process of treating ferrophosphorus which comprises (*a*) preparing a charge by mixing fine ferrophosphorus and fine limestone, (*b*) delivering a stream of said charge to a heating zone maintained at temperatures above the initial temperature for conversion of limestone to calcium oxide and below the fusion point of the mixture and the treated material produced therefrom, (*c*) admitting an oxygen-containing atmosphere to a boundary of said heating zone spaced from the locus of supply of said charge thereto with the quality and amount of said atmosphere so regulated as to maintain free oxygen in the atmosphere adjacent to said locus of supply of the charge, and (*d*) withdrawing treated material from said heating zone adjacent to the locus of supply of said atmosphere to said zone.

2,320,343
VAPOR GENERATOR
Ervin G. Bailey, Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application May 13, 1939, Serial No. 273,398
5 Claims. (Cl. 183—85)



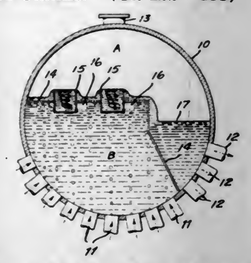
1. In a separator for fluids of different densities, means constituting a whirl chamber, an inlet means so disposed as to promote the whirling movement of fluids within the chamber, the inlet means having its longitudinal axis offset with respect to the longitudinal axis of the whirl chamber and transversely related thereto, the whirl chamber being rifled internally with the rifling beginning at the inlet and extending beyond the zone of the inlet transversely of the whirl chamber, and means forming outlets for separated fluids of different densities, any element of the whirl chamber rifling having a lead which is at least approximately equal to the width of the inlet axially of the whirl chamber.

2,320,344
AUXILIARY SEAT STRUCTURE
Louis J. Belanger, Graniteville, Vt.
Application August 15, 1940, Serial No. 352,806
3 Claims. (Cl. 155—5.12)



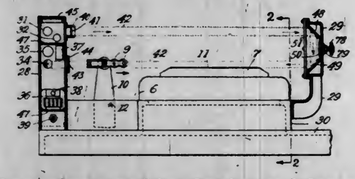
2. In a bicycle having a rear luggage carrier with a laterally extended flat upper surface, that improvement which comprises a rigid open frame structure which has V-shaped open frame members at each side and rigid forwardly-and-rearwardly-spaced cross members connecting the top parts of said side frame members to form inverted U-shaped frame portions, said cross members being substantially flat and resting on and directly engaging said flat luggage carrier and constituting the entire support for said rigid frame structure, means to secure one of said flat cross members to the top of said carrier, a saddle mounted at the rear part of said rigid frame structure, and foot supports rigidly mounted on depending portions of said side frame members.

2,320,345
APPARATUS FOR THE SEPARATION OF FLUIDS
John Blizard, Garden City, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application November 22, 1939, Serial No. 305,632
14 Claims. (Cl. 122—488)



2. A steam and water drum for a steam generator having steam generating and downcomer tubes connected to the drum, a longitudinally extending partition in the drum located to divide the interior of the drum into a chamber for a steam and water mixture and a space for steam in the upper portion thereof and for water in the lower portion thereof, said steam generating tubes connecting with said chamber, said downcomer tubes connecting with the lower portion of said space, a substantially cup-shaped steam and water separating member having a substantially imperforate outer wall, said member being disposed in the partition with its axis substantially vertical and with its lower portion communicating with said chamber and its open upper portion in said space, the lower portion of said member having an opening therein through trough which a mixture of steam and water flows into the member from said chamber, and means for directing the steam and water mixture flowing into said member to impart a whirling motion to the mixture in the member, the arrangement being such that the mixture in the member flows upwardly therein in a substantially spiral path, the steam and water being separated with the separated water flowing along the upwardly extending wall of said member and the separated steam flowing in the axial portion of the member, the separated steam and water flowing out of the open upper end of said member, the separated steam flowing into the upper portion of said space without further contact with the separated water and the separated water flowing into the lower portion of said space and into the downcomers connected therewith.

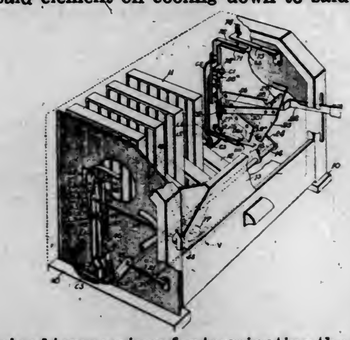
2,320,346
PHOTOELECTRIC DEVICE FOR CIGAR MACHINES
William C. Broekhuysen, Garden City, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application December 16, 1939, Serial No. 309,508
23 Claims. (Cl. 131—21)



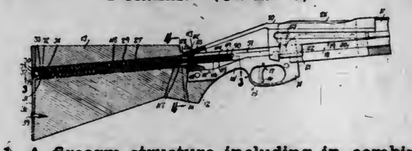
1. In a cigar machine having a tobacco leaf cutting die and a roller element movable relatively to said die to cut a leaf on said die, means to incapacitate said roller element when an obstruction is in the path thereof, said incapacitating means comprising devices for maintaining an optical control beam in said path and suitably disposed to guard a part of an operator from injury by said roller element or die at all times when in the path of said beam, while said roller travels in either direction along said path, and means operative at all times during operation of the cigar machine and sensitive to obstruction of said beam, for effecting said incapacitation.

2,320,347
CONTROL DEVICE
Joseph E. Brosseau and John B. Brosseau, West Chicago, Ill.
Application March 17, 1941, Serial No. 383,656
32 Claims. (Cl. 161—1)

1. A control device for intermittently operable appliances comprising, in combination, a thermally responsive element, means for applying heat to said element in each inactive period of the appliance, adjustable means for limiting the amount of heat applied to said element to determine the interval required to cool the element to a predetermined temperature, manually operable means for interrupting the heating of said element and simultaneously initiating the operating period to be timed, and means controlled by said element on cooling down to said predetermined temperature for terminating the operating period.



2,320,348
FIREARM
Ralph E. Clarkson, Hamden, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application January 31, 1940, Serial No. 316,501
4 Claims. (Cl. 42—3)

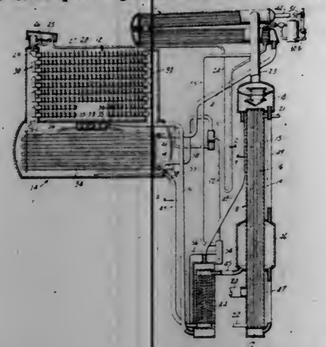


1. A firearm-structure including in combination: an action-slide movable longitudinally of the firearm-structure; a receiver; a breech-bolt movable in the said receiver and operatively connected to the said action-slide; a stock attached to the said receiver and having a passage in its butt-portion; a tubular receiver-extension projecting rearwardly from the said receiver into the passage in the said stock, the said tubular receiver-extension having an open forward end attached to the said receiver and provided with a rearwardly-facing stop-abutment; a cup-shaped plunger slidably mounted in the said tubular receiver-extension having a spring-receiving pocket smaller in diameter than and rearwardly opening into the interior of the said receiver-extension, the said plunger also having a forwardly-facing stop-abutment engageable with the rearwardly-facing stop-abutment of the said tubular receiver-extension to limit the forward movement of the plunger, the said plunger being operatively associated with the said action-slide to urge the same forwardly; and a two-diametered helical breech-closing spring having a relatively-large-diametered rear portion located in the said tubular receiver-extension and having a relatively-small-diametered forward portion extending into the spring-receiving pocket of the said cup-shaped plunger.

2,320,349
REFRIGERATION
Walter Cropper, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application September 25, 1941, Serial No. 412,249
9 Claims. (Cl. 62—1)

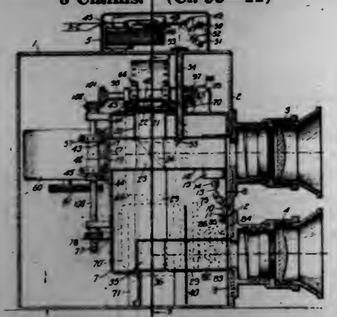
1. In a refrigeration system of an absorption type having a plurality of interconnected parts,

one of said parts providing a chamber, and a



stack of cupric oxide plates disposed in said chamber.

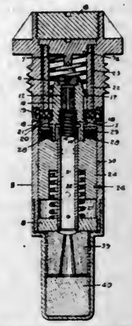
2,320,350
CAMERA
Lorenzo del Riccio, Los Angeles, Calif.
Application March 20, 1939, Serial No. 262,891
8 Claims. (Cl. 95—11)



1. In a camera provided with a lens and means for causing a sensitized strip to travel in the focal plane of the lens, means for confining the field of view of said camera as registered on said sensitized strip to the portion thereof defined by two parallel planes extending longitudinally of said camera, said means comprising a narrow aperture slit positioned in front of the plane of travel of said strip, said slit being defined by members at least one of which is slidably mounted relative to another and at least one of which is pivotally mounted thereby to vary both the width of said slit and the angular relationship of the opposite edges of said slit, whereby the opposite edges of said slit may conform to the image of said field of view, and means for causing said sensitized strip to travel continuously in a direction at right angles to said slit.

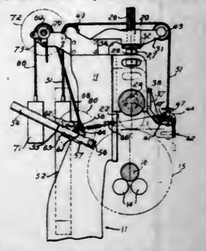
2,320,351
FUSE
Francis H. Denner, Dover, N. J.
Application January 9, 1940, Serial No. 313,086
5 Claims. (Cl. 102—79)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a fuse, a casing, a flash tube fixed in the rear of the casing, an element of a firing mechanism fixed in the front part of the casing, a plunger having an element of a firing mechanism and yieldingly associated with the flash tube, a spring for holding the plunger in rearward position, centrifugally releasable means for opposing forward movement of the plunger, a hammer slidable on the flash tube and normally in a forward position, said hammer movable rearwardly



on set-back, means for holding the hammer in rearward position during rotation of the fuse, means normally urging the hammer forwardly, and means carried by the hammer for striking the plunger.

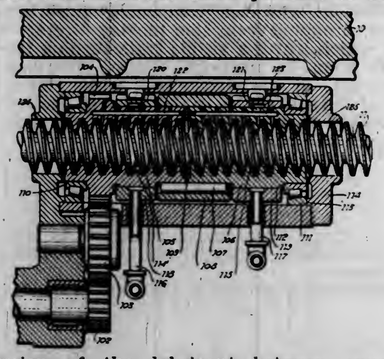
2,320,352
LAY-ON APPARATUS AND METHOD
Emil Ericksson, Chicago, Ill., assignor to Standard Process Corporation, Chicago, Ill., a corporation of Delaware
Application April 26, 1941, Serial No. 390,614
24 Claims. (Cl. 101—33)



1. Apparatus for simultaneously applying a plurality of flexible sheets of carbon tissue or the like to the surface of a printing cylinder comprising means supporting said cylinder and a presser roll in parallel spaced relation, said roll and cylinder being relatively movable toward and from each other, and mechanism distinct from said cylinder for holding a plurality of said sheets in registry under tension in the space between said cylinder and roll, so that upon movement of said cylinder and roll together said sheets are simultaneously pressed against the surface of said cylinder.

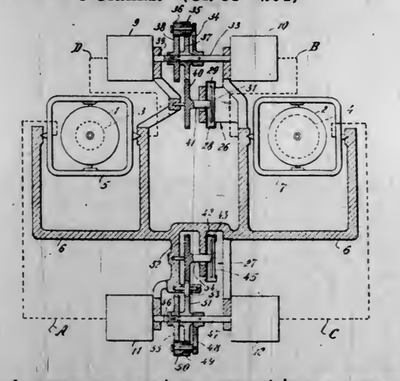
2,320,353
POWER TRANSMISSION MECHANISM
Hans Ernst and Mario E. Martellotti, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application August 4, 1941, Serial No. 405,354
17 Claims. (Cl. 74—424.8)

1. In a screw and nut combination of the class described, the combination with a lead screw, of a nut telescoping said lead screw and having lubricant receiving pockets formed in the thread faces thereof, and means to supply said pockets with lubricant under pressure to effect



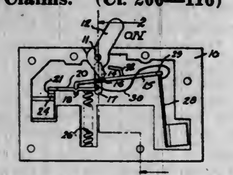
extrusion of the lubricant between opposed thread faces.

2,320,354
GYROSCOPE SYSTEM
Arnold M. Fedde, Brooklyn, N. Y.
Application July 29, 1941, Serial No. 404,455
5 Claims. (Cl. 33—204)



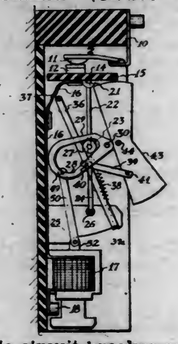
1. A gyroscope system comprising a support, two horizon gyroscopes of unequal sensitivity, bearing means for mounting said gyroscopes on said support for movement with respect thereto, and means for transmitting and integrating the movements of said gyroscopes with respect to said support, including means for neutralizing the effect of precession movements of said gyroscopes.

2,320,355
CIRCUIT BREAKER
William H. Frank and Elwood T. Platz, Detroit, assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Refiled for abandoned application Serial No. 157,268, August 4, 1937. This application January 19, 1940, Serial No. 314,731
25 Claims. (Cl. 200—116)



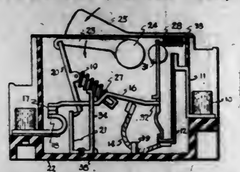
1. In a circuit breaker, a floating bar, a contact arm pivotally connected thereto by a pivot of the knife edge bearing type, a spring biasing the arm, a handle for causing movement of the bar and directly engaging the bar, and a latch for holding the bar and directly engaging the bar.

2,320,356
CIRCUIT BREAKER
William H. Frank and Joseph A. Messing, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application November 18, 1940, Serial No. 366,032
6 Claims. (Cl. 200—89)



1. A multiple circuit breaker comprising a plurality of magnetic means responsive to overloads, there being an overload responsive magnetic means for each pole, each magnetic means including a coil and an armature, means interconnecting the several armatures whereby, when, on the arising of an overload in one pole, the coil of that pole responds to the overload in that pole to move its armature, that armature will move the interconnecting means to an extent sufficient to move the remaining armatures closer to their coils, close enough so that the said coils, in which there are not yet any overloads will respond to the normal loads in them and cause their armatures to move further.
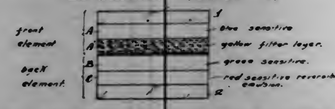
2,320,357
CIRCUIT BREAKER
Elwood T. Platz and William H. Frank, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application September 5, 1941, Serial No. 409,732
9 Claims. (Cl. 200—116)



6. In a circuit breaker, a handle, a stop independent thereof, a stationary contact, an elongated movable contact arm, an overload releasable holding means for holding the arm at one end, and a single spring means operatively connecting the handle and the arm and shiftable by the handle across the said end of the arm to and from either of two positions, in one of which it biases the arm to rock on said end against the contact, and in the other of which it biases the arm to rock on said end away from the contact, whereby handle actuation

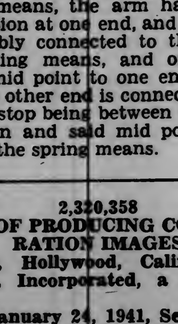
causes arm movement by acting through that spring means, with the same spring means rocking the arm about the stop as an axis away from the contact when the arm is released by the holding means, the spring means also being movable by the handle across the arm end, following an overload release of the arm by the holding means, and upon movement of the handle thereafter out of closed circuit position, for restoring the arm into holding engagement with the holding means, the arm having a contact engaging portion at one end, and at its other end being releasably connected to the overload releasable holding means, and operatively connected at a mid point to one end of the spring means, whose other end is connected to the handle, with the stop being between the contact engaging portion and said mid point where it is connected to the spring means.

2,320,358
METHOD OF PRODUCING COLOR SEPARATION IMAGES
Béla Gáspár, Hollywood, Calif., assignor to Chromogen, Incorporated, a corporation of Nevada
Application January 24, 1941, Serial No. 375,849
12 Claims. (Cl. 95—2)



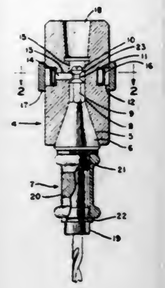
1. The method of producing photographic images from a multilayer photographic material including a plurality of light sensitive silver halide emulsion layers each containing a latent image which comprises, developing the latent images in said emulsion layers, transforming the developed images into a silver salt having substantially the same optical properties as the unexposed silver halide in said layers and having substantially no sensitivity to the light and substantially no reactivity with regard to the developer used in the further processing, selectively exposing the remaining light sensitive silver halide in one of said emulsion layers, and developing and printing the resulting reversal image.

2,320,359
METHOD OF ASCERTAINING FROM AIRCRAFT IN FLIGHT VARIATIONS IN THE FORCE OF THE WIND AT VARIOUS DISTANCES BELOW THE AIRCRAFT
Harold Charles Gatty, Treasure Island, Calif.
Application July 11, 1940, Serial No. 344,920
3 Claims. (Cl. 73—188)



1. The method of ascertaining from an aircraft in flight variations in the force of the wind at various altitudes comprising the following steps; dropping from said moving aircraft a device which leaves a visible trail, turning the aircraft from its previous course, observing the variations in the visible trail while timing the fall of the said device to the point of the greatest favorable variation, whereby to determine the altitude of such variation.

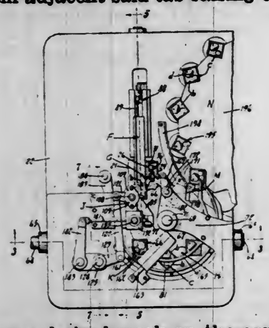
2,320,360
QUICK-CHANGE DEVICE
Victor Grey, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application November 5, 1941, Serial No. 417,884
1 Claim. (Cl. 279—79)



A chuck comprising in combination a rotatable body for securement to the spindle of a rotary machine providing concentric with its axis of rotation a conical recess and coextensive therewith a polygonal recess, a collet member cooperating with said body for carrying a machining tool comprising a conical portion and a polygonal portion conforming in shape and relation to the afore-described conical and polygonal recesses of said body, sleeve means for holding said collet member to permit its rotation during insertion into said body, and retaining apparatus for holding said collet within said body comprising a lead portion forming the foremost extremity of said polygonal portion of said member turned to afford an oppositely beveled knob, and spring pressed detent pins contained in said body and positioned axially for movement towards the under beveled surface of said knob, said polygonal portion of said collet being of such length as to be engaged and rotated by the polygonal recess of said body before the upper beveled surface of said knob comes into contactual engagement with said detent pins.

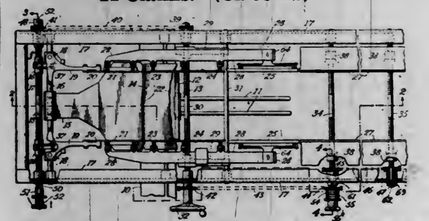
2,320,361
CONTAINER-TAB MARKING MACHINE
John M. Hothersall, Brooklyn, N. Y., and August E. Almgren, Hillside, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Original application November 5, 1937, Serial No. 173,050. Divided and this application December 4, 1941, Serial No. 421,672
11 Claims. (Cl. 101—11)

1. In a machine for treating containers having tabs for carrying the containers, the combination of feeding devices for advancing containers along a predetermined path of travel, a tab raising element adjacent said path of travel of the containers for arranging the container tabs in a predetermined position, and a marking mechanism adjacent said tab raising element for



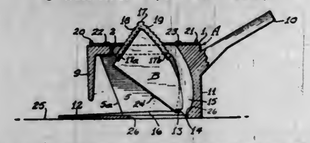
impressing a desired mark on the arranged tabs of the advancing containers.

2,320,362
BREAD WRAPPING MACHINE
Thormod Jensen, Laurelton, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application August 19, 1938, Serial No. 225,697
11 Claims. (Cl. 93—2)



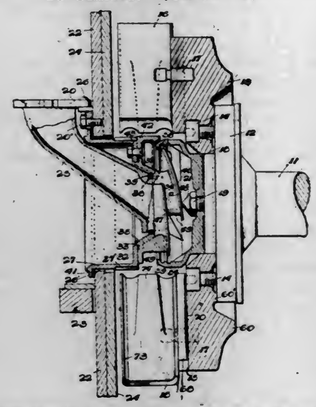
1. In a wrapping machine, the combination with a set of tuckers for tucking the ends of a wrapper enfolding an article, of a set of folders for folding the tucked ends of the wrapper inwardly on the ends of the article, a set of heat sealers for heat sealing the folded ends of the wrapper, a set of members for cooling the heat sealed wrapper ends, mechanism connecting said tuckers for separately adjusting the same toward and away from each other, mechanism connecting said folders and heat sealers for adjusting the same toward and away from each other, mechanism connecting said coolers for separately adjusting the same toward and away from each other, and means connecting said mechanisms and operating to simultaneously adjust all the members of all of said sets equally and oppositely toward and away from each other to accommodate packages of various lengths.

2,320,363
PAPER CUTTER
Marcelo C. Kabigting, Redwood City, Calif.
Application October 6, 1941, Serial No. 413,864
5 Claims. (Cl. 30—294)



1. A paper cutter comprising a housing movable over the material to be cut, a runner carried by the housing and being movable under the material, a material-cutting blade having its cutting edge inclined with respect to the runner for cutting material passing between the runner and the blade, said housing practically hiding the blade from view, and a pointer disposed at the front of the housing and in line with the blade for indicating the line of cutting, said housing having openings therein for permitting the cutting blade to be viewed.

2,320,364
ABRADING APPARATUS
Walter L. Keefer, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application March 19, 1940, Serial No. 324,860.
18 Claims. (Cl. 51—9)

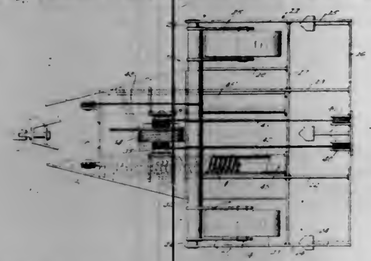


1. Apparatus for delivering abrasive at an abrading velocity comprising a rotor having a plurality of blades extending outwardly with respect to the axis of rotation of said rotor; means to deliver abrasive near said axis of rotation; and a transfer mechanism interposed between said abrasive delivery means and said blades including a cup rotatable with said rotor with the edge of its open end lying substantially in a plane normal to said axis and between the ends of the inner edges of said blades, means to deliver abrasive from said cup into the path of rotation of said blades including a helical blade disposed about said axis and extending from a point within said cup to a point adjacent said cup edge, and means to prevent a substantial discharge of abrasive from said cup except at said latter point, said means comprising a blade having a portion overlapping said helical blade in a direction to define a discharge opening for said abrasive having substantially parallel side walls.

2,320,365
SCARIFIER
Herschel C. La Rue, Ashfork, Ariz., assignor of one-half to Edward S. Hubbell, Paulden, Ariz.
Application June 11, 1940, Serial No. 339,956
13 Claims. (Cl. 262—8)

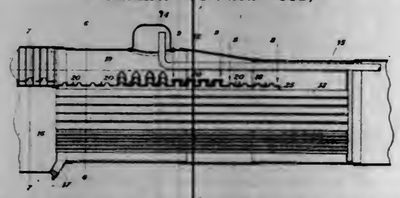
1. A scarifier comprising a rigid frame adapted to be attached at its forward end to a traction unit, a plurality of scarifying teeth secured at the rear of said frame, a wheel fork pivotally mounted on the frame at a point between the mounting of the scarifying teeth and the forward end of the frame, a road wheel mounted on the wheel fork and located in rear of the pivot point

of said fork when the wheel is in raised position, and means for actuating said wheel fork to raise and lower the wheel and to raise and lower the scarifying teeth, said operating means including a pulley mounted at the rear of the frame, and a cable passing around the pulley and having



one end connected to the wheel fork above the pivot point of said fork, the other end of said cable extending forwardly of the pulley whereby power applied thereto will exert a rearward pull on said wheel fork to swing the road wheel downwardly and forwardly away from the scarifying teeth and raise said teeth to inoperative position.

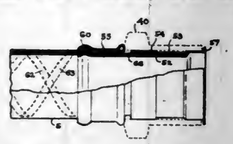
2,320,366
FOAM RETARDING MEANS AND METHOD
Walter B. Leaf, Denver, Colo.
Application October 23, 1940, Serial No. 362,479
7 Claims. (Cl. 252—361)



2. In apparatus for retarding foam and froth formation in boilers and pressure vessels, inclusive of a container for a body of liquid subject to evaporating influences and having foam producing bubbles rising therethrough, the improvement which comprises a partitioning member supported within the liquid body in a substantially horizontal position, said partitioning member having a plurality of vertically directed conical passages formed therein to permit escape of vapors or bubbles formed by said evaporating action, said passages having a lower intake opening of a size to admit a plurality of bubbles concurrently and in spaced relation and having an upper discharge outlet restricted sufficiently to induce coalescing engagement of a plurality of bubbles admitted simultaneously to the passage.

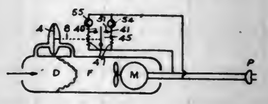
2,320,367
FLEXIBLE HOSE AND METHOD OF FORMING THE SAME
Ward Leathers, Haworth, N. J., assignor to Quadrex Corporation, New York, N. Y., a corporation of Delaware
Application June 27, 1938, Serial No. 216,011
5 Claims. (Cl. 174—47)

4. In a vacuum-cleaner hose, a flexible electrical conductor disposed helically and having a layer of insulation on the inside of the helix, adjacent turns of said flexible conductor being relatively widely separated from each other, a layer of impregnated fabric covering said conductor, a music-wire winding over said fabric,



another impregnated fabric over said music-wire, all vulcanized together and covered with a protective braid.

2,320,368
VACUUM CLEANER ELECTRIC INDICATOR
Ward Leathers, Haworth, N. J., assignor to Quadrex Corporation, New York, N. Y., a corporation of Delaware
Application July 11 1938, Serial No. 218,646
1 Claim. (Cl. 177—311)



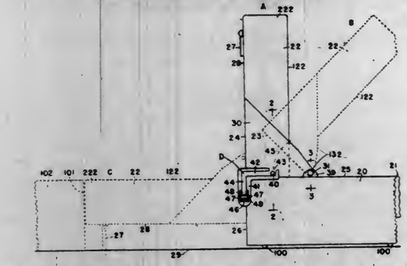
An indicating device for vacuum cleaners having a dust filter comprising a casing providing a chamber, a diaphragm disposed within said chamber and extending thereacross and dividing the chamber into two compartments, there being a port communicating with each of said compartments, one of said ports being adapted to be connected to the inlet side of the vacuum cleaner dust filter and the other port being adapted for connection to the outlet side of the dust filter, a pair of indicating lamps disposed exteriorly of the casing, a source of current supply therefor, a pair of resistances each being of an ohmic value capable of limiting the current flow through a respective lamp when placed in series therewith to such an extent that the lamp ceases to be incandescent, a normally closed circuit establishing a flow of current through one of said lamps to cause the same to become incandescent, a normally closed circuit including one of said resistances and the other lamp, a two-way switch operable upon actuation thereof for first shunting said last mentioned resistance from its respective circuit to cause said other lamp to become incandescent concurrently with said first mentioned lamp and for secondly opening said first mentioned circuit, and means operatively connecting said diaphragm and switch.

2,320,369
MANUFACTURE OF METAL WRITING PENS
Sydney E. Longmaid, Rosemont, Pa., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a corporation of New Jersey
Application August 31, 1939, Serial No. 292,936
4 Claims. (Cl. 113—32)



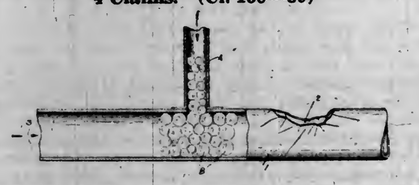
1. The method of making a steel pen which comprises providing a pierced blank with the nib portion thereof grooved in its exact longitudinal axis; raising the grooved blank to pen form; heat-treating the raised blank, and finally cracking the forward end thereof along the longitudinal groove to form separate nib portions.

2,320,370
HINGE DEVICE
Jackson M. Luker, Urbana, Ill.
Application June 4, 1940, Serial No. 338,749
5 Claims. (Cl. 155—7)



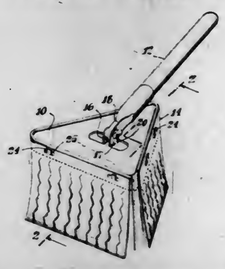
1. A hinge device for seat structures, which comprise a substantially horizontal seat member and a back rest member disposed normally at substantially right angles thereto, said device consisting of a linkage member having a bottom and a rear wall, a pair of said linkage members being carried by and permanently secured one each to opposite sides of said back rest member, a pair of side frames permanently fixed one each to opposite sides of said seat member, each side frame including a top and a rear face, pivotal means carried by said side frames for releasably engaging one each a linkage member, said pivotal means providing a common axis about which said back rest member may be swung forwardly over said seat member, a pair of brackets fixed one relative to the rear of each side frame, each bracket including a vertical channelway, a channelway engaging member secured to and carried by each linkage member, the back rest member and its associated linkage members adapted to be swung rearwardly of said seat member and its associated side frames about said channelway engaging members after said linkage members have been disengaged from their respective pivotal means, said back rest member then adapted to be swung rearwardly until the bottom walls of said linkage members are disposed at substantially right angles to the top faces of their corresponding side frames, after which said channelway engaging members are adapted to be lowered into their respective channelways for disposing the bottom walls of said lingage members in substantially parallel, abutting adjacency with the rear faces of their corresponding side frames and wherein said back rest member is lowered into the horizontal plane of said seat member for providing a uniplanar, continuous supporting surface having a width equal to the sum of the widths of said seat and back rest members respectively.

2,320,371
METHOD OF PLUGGING GAS MAINS
Dennis J. Manning, Mountainside, N. J.
Application September 17, 1942, Serial No. 458,614
4 Claims. (Cl. 138—89)



1. A method of plugging a gas pipe or main, which consists in forming a coherent foam-plug in the interior of said gas pipe or main, said foam being sufficiently coherent and being sufficiently adherent to the interior wall of the gas pipe or main to withstand the pressure of the gas in said pipe or main.

2,320,372
DUSTING AND POLISHING MOP
Aimee M. McCarthy, Saratoga Springs, N. Y., assignor of one-third to George H. Corey, New York, N. Y.
Application July 25, 1940, Serial No. 347,401
5 Claims. (Cl. 300—21)



1. A dusting and polishing mop comprising a triangular head having a plurality of hooks spaced along the peripheral edge thereof, the bills of the hooks being so disposed as to project slightly outwardly of the head, and a mop refill made up of a plurality of sheets of waxed paper, said sheets being arranged in superposed relation and secured together adjacent one edge of the refill, said sheets being provided with spaced slits of serrated contour extending from adjacent their common line of attachment toward the free edges thereof, whereby to produce a plurality of superposed ribbon-like strands or strips having serrated edge surfaces and presenting, when the mop is in use, extended dust gathering edge surfaces in every position or direction of movement of the mop over the surface being dusted or polished, and said refill being provided with spaced loop members along the secured edge thereof adapted to receive the bills of said hooks for detachably holding the mop refill adjacent the peripheral edge of said head while at the same time holding the refill in a position to prevent contact of the mop-head and said fastening means with the legs and other parts of furniture about which the mop is moved in polishing and dusting.

2,320,373
AIR CYLINDER APPARATUS FOR BOTTLE FILLING MACHINES
George J. Meyer, Milwaukee, Wis., assignor to Geo. J. Meyer Manufacturing Company, Cudahy, Wis., a corporation of Wisconsin
Application July 20, 1940, Serial No. 346,563
7 Claims. (Cl. 121—45)

1. In combination, a cylinder having a piston therein and having an embossment presenting a flat valve seat ported to communicate with the cylinder space, said cylinder having a rib extending laterally from the periphery of said embossment and having in said rib a fluid supply passage forming a port at said seat, a rocking valve member having a flat ported valve face engageable with said valve seat for controlling the flow of fluid with respect to said cylinder, means for detachably holding said valve member against said seat, and an annular centering mem-

ber for said rocking valve member fitting around the engaging portions of said valve seat and valve



face and having a notch through which said rib extends.

2,320,374
SAFETY RAZOR
Georges Monnet, Washington, D. C., assignor to Guardian Merchandising Corporation, Montreal, Quebec, Canada, a corporation of Quebec, Canada
Application December 2, 1941, Serial No. 421,270
7 Claims. (Cl. 30—74.1)



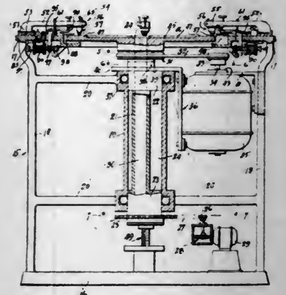
1. In a safety razor, a blade-supporting member, at least one arcuate clamping member adapted to extend through a central opening formed in a blade, a lever connected with said clamping member for moving it through said central opening of the blade from an inoperative position to a clamping position and vice versa, the blade being engaged by the clamping member and clamped thereby in said clamping position and being released by said clamping member when the latter is moved into said inoperative position, and resilient means connected with said lever and normally maintaining it in a position in which said clamping member is in its clamping position, said resilient means being adapted to be tensioned manually to move said lever to a position in which said clamping member is in its inoperative position.

2,320,375
OPHTHALMIC MOUNTING AND METHOD OF MAKING THE SAME
Harold R. Moulton, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 18, 1939, Serial No. 285,147
4 Claims. (Cl. 88—65)



1. A laminated non-glare safety plate comprising a pair of relatively thin sheets of light transmitting medium, a layer of polyvinyl acetal containing castor oil as a non-solvent plasticizer adherent to the inner face of each of said sheets of light transmitting medium and a relatively thin light polarizing sheet of cellulosic material intermediate the polyvinyl acetal layers and adhered thereto, the cellulosic material having disposed and embedded therein oriented dichroic crystals with their axes arranged parallel, said crystals having the property of polarizing light by simple transmission, said layers of polyvinyl acetal also containing a deoxidant having the characteristics of hydroquinone of an amount sufficient to stabilize said layers and provide against discoloration and injury to the polarizing sheet of the lamination.

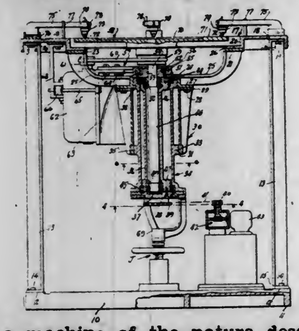
2,320,376
DIAMOND CUTTING AND POLISHING MACHINE
Erhard Mueller, New York, N. Y., assignor to Harry Winston, Inc., New York, N. Y., a corporation of New York
Application August 23, 1941, Serial No. 408,031
7 Claims. (Cl. 51—120)



1. In a diamond cutting machine, an eccentrically mounted cutting disk, a cutting surface on said disk, means for rotating said disk, a diamond carrying arm pivotally mounted at one end for holding a diamond at its opposite end against the cutting face of said disk to be simultaneously cut and polished by the said cutting surface due to the rotating and oscillatory movement of the said disk, and electromagnetic means for automatically disengaging the diamond from the cutting disk upon the completion of said operation, said means comprising an electric contact on the arm, a stationary contact spaced from the first mentioned contact, the said stationary contact being insulated from the machine, a pivotally mounted bell-crank lever one-arm of which is in operative engagement with the diamond holding arm, and a solenoid adapted to be electrically energized when the two contacts are brought into contact with each other, the core of said solenoid being in operative engagement

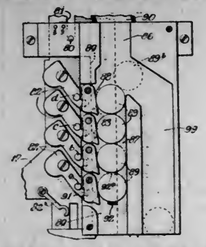
with the other arm of the bell crank to swing same and lift the diamond carrying arm to disengage the diamond from the cutting disk when the solenoid is so energized.

2,320,377
DIAMOND CUTTING AND POLISHING MACHINE
Erhard Mueller, New York, N. Y., assignor to Harry Winston, Inc., New York, N. Y., a corporation of New York
Application January 31, 1942, Serial No. 429,014
10 Claims. (Cl. 51—120)



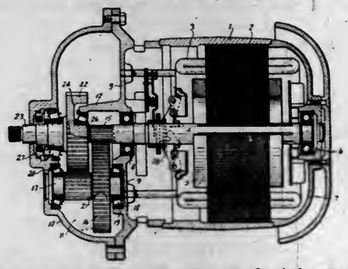
1. In a machine of the nature described, a base, a table above and spaced from the base, legs secured at one end to the base and at the opposite end to the table, a flange depending from the said table, a bearing structure suspended from the said flange, a housing vertically slidable in the said bearing structure, a sleeve rotatably and eccentrically mounted in the said housing, a shaft rotatably mounted in the said sleeve, a cutting disk carried on the said shaft at right angles to the vertical axis of the said shaft and parallel to the said table, means for driving said shaft, and means secured to the housing for raising or lowering same and carry the sleeve, shaft and the cutting disk therewith.

2,320,378
VENDING MACHINE
Daniel Neidig, Chicago, Ill., assignor to James H. Martin, Chicago, Ill.
Application April 26, 1941, Serial No. 390,491
8 Claims. (Cl. 194—93)



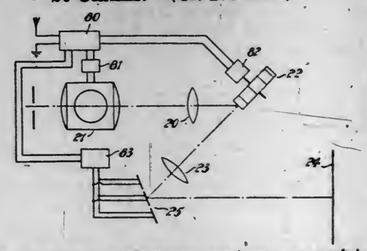
1. In a vending machine, a coin chute open at one side and limited in width substantially to the thickness of a coin, a reciprocable member with a locking dog on said member and a fixed abutment with which the dog is normally engageable to check reciprocation of said member, the dog having a detector arm extending across the open side of the chute, and a tumbler movably mounted in the chute adjacent said detector arm, the presence of a proper coin in the chute operating to hold the tumbler in position to engage the detector arm and thus guide its dog clear of the abutment to permit reciprocation of the said member.

2,320,379
ELECTRIC MOTOR GEARING
Richard A. Niekamp, Dayton, Ohio, assignor to The Master Electric Company, Dayton, Ohio, a corporation of Ohio
Application June 1, 1940, Serial No. 338,338
6 Claims. (Cl. 74—421)



1. The combination with an electric motor including a housing, a stator element, a rotor in cooperative relation with the stator, and a rotor shaft journaled in the housing, of a motor housing head, relatively spaced aligned shaft bearings supported by said head, in one of which the rotor shaft is journaled, a power output shaft journaled in the other of said bearings in axial alignment with the rotor shaft, a gear pinion carried by the rotor shaft intermediate the bearings, a gear carried by the power output shaft beyond the bearing engaged thereby, said power shaft gear being recessed and the aforementioned power shaft bearing being located within the recess of said gear, and a gear train interconnecting the gears upon the respective shafts.

2,320,380
TELEVISION SYSTEM AND SCANNER THEREFOR
Ferenc Okolicsanyi and Alfred John Gale, Kensington, England, assignors to Scophony Corporation of America, New York, N. Y., a corporation of Delaware
Application July 10, 1940, Serial No. 344,786
In Great Britain July 24, 1939
20 Claims. (Cl. 178—7.6)

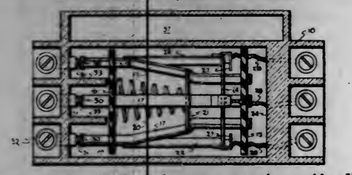


1. A television receiving system comprising a light source, a light modulating device, a high speed scanner and a slow speed scanner, and optical means for forming a modulated scanning spot in a receiving plane, said slow-speed scanner comprising a plurality of adjacent mirrors adapted to oscillate about parallel axes with equal amplitude under the influence of received synchronising signals.

2,320,381
METHOD OF MAKING RETRACTILE ARTICLES
René Picard and René Fays, Paris, France; vested in the Alien Property Custodian
No Drawing. Application August 15, 1939, Serial No. 290,309. In France September 23, 1938
6 Claims. (Cl. 18—57)

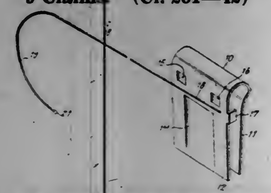
1. A method of forming retractile articles having sufficient plasticity and extensibility in the moist or gel state to permit stretching thereof, which comprises forming a solution of a water-insoluble cellulose acetate into the desired shape and form, coagulating said solution while in said shape and form, impregnating the coagulated article while in the gel state with a plasticizer which is a swelling agent or solvent for the cellulose acetate, miscible with water in large proportions and sufficiently volatile to be largely eliminated during drying of said article, and maintaining the resulting retractile article in the moist or gel state until at least said article is positioned in place in the ultimate use thereof.

2,320,382
CIRCUIT BREAKER
Elwood T. Platz, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application October 4, 1941, Serial No. 413,673
18 Claims. (Cl. 200—116)



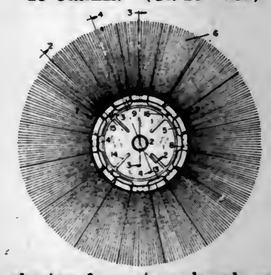
1. In a circuit breaker, an automatically releasing manually resettable mechanism in the form of a center mounted disc and a contact frame comprising three overload releasable latches, each latching to said disc, the three latching points being triangularly arranged around the center mounting of the disc, and spring means for causing said contact frame to shift for circuit opening and said disc to rock on its center mounting upon the release of the latch engagement between said disc and any one of said latches.

2,320,383
BOOKMARK
Vincent Pepe, Brooklyn, N. Y.
Application February 11, 1941, Serial No. 378,373
9 Claims. (Cl. 281—42)



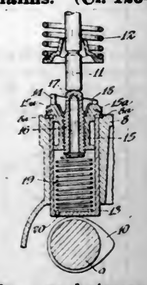
9. In a book mark, in combination, a clip having two parts connected at the top, one part adapted to engage the inside and the other part the outside of the cover of a book, and an integral arm formed of a thin springy wire having its outer end fixed on the clip approximately parallel to the top thereof, and having its inner end downwardly and outwardly curved to form a substantially semicircular finger, the end of which has a smooth curved surface engageable with a leaf of a book, the arm and finger being adapted to flex inwardly and upward when lying on a page that is being turned and thereafter to return to normal position and engage the succeeding page.

2,320,384
ROTARY BRUSH
Ruben O. Peterson, South Euclid, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application February 12, 1941, Serial No. 378,547
13 Claims. (Cl. 15—181)



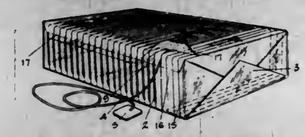
1. An adapter for rotary brush sections and the like comprising a web portion, arms extending from adjacent the perimeter of said web portion adapted to embrace one side of an annular rotary brush section, and other arms adapted to support such section at its inner periphery and embrace the other side thereof, said last-named arms being offset toward the side embraced by said first-named arms so that when tensioned they may more firmly seat such section.

2,320,385
SELF-ADJUSTING TAPPET
Frederick C. Rockstroh, Minneapolis, Minn.
Application April 12, 1940, Serial No. 329,232
8 Claims. (Cl. 123—90)



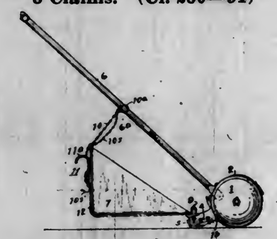
6. A tappet for use between a valve and an operating means comprising, a pair of elements having interconnected helical portions, said elements being relatively rotatable through said interconnected helical portions to permit variations in their overall length in response to variations in distance between said valve and operating means, one of said elements having a second helical portion of the same hand as said first mentioned interconnected helical portions, means for adjustably increasing the overall length of said elements, and a member positioned between said valve and operating means in thrust transmitting relationship thereto and also positioned to periodically engage said second helical portion, and said first mentioned interconnected helical portions being positioned out of thrust transmitting relationship between said valve and said operating means.

2,320,386
PARTITIONING MEANS FOR PARTIBLE BODIES
Cale J. Schneider, Toledo, Ohio
Application February 25, 1939, Serial No. 258,501
9 Claims. (Cl. 31—22)



1. An article of manufacture having a partible body; a strand for partitioning said body; the lay of the strand describing a plurality of body encircling bights; each bight engaging the body at spaced distances from the next adjacent bight; and means connected to the strand for moving the strand to successively close each bight and thereby partition the body into portions located on opposite sides of the plane through which the strand is moved to close the bight.

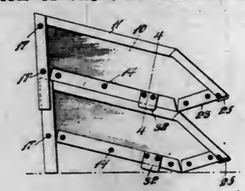
2,320,387
ATTACHMENT FOR PORTABLE IMPLEMENTS
Harry E. Schroeder, Cleveland, Ohio
Application June 4, 1940, Serial No. 338,741
8 Claims. (Cl. 280—51)



1. A combined collecting and load-carrying attachment for a portable implement mounted on a pair of wheels and having a handle and inner and outer cross members disposed parallel to the axis of said wheels and outwardly of their peripheries, comprising a bottom wall and a rear wall arranged to removably rest against said inner cross member and provided with a device adapted to removably engage said outer cross member and be suspended thereby.

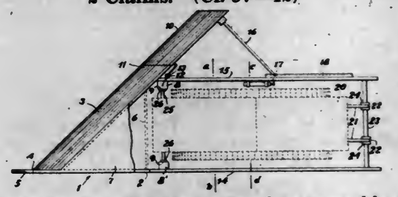
2,320,388
CONTAINER ASSEMBLY
Thomas Shaw, Cranston, R. I., assignor to Stackbin Corporation, a corporation of Rhode Island
Application February 3, 1940, Serial No. 317,137
4 Claims. (Cl. 220—97)

1. In combination a plurality of unit bins, each comprising upstanding side walls inclined towards each other widthwise of the bin, a bottom wall along the lower edge of the side walls, a back end wall extending upwardly at right angles to the horizontal and having flanges at the side edges thereof and extending beyond the lower edge of said side walls and bottom wall to dispose the bottom wall in inclined sloping relation at an obtuse angle with the back end wall, with the upper edge of one bin being of a size to engage the bottom of the one above, with the portion of said end wall extending along the upper portion of the end wall of the unit bin



beneath it, with the adjacent portion of the flange on each bin in overlapping relation, and means including said flanges to prevent lateral sliding of superimposed bins.

2,320,389
TRACTOR DRIVEN SNOWPLOW ASSEMBLY
John H. Shepard and Napoleon Picard, Rochester, N. H.
Application November 1, 1940, Serial No. 363,848
2 Claims. (Cl. 37—42)

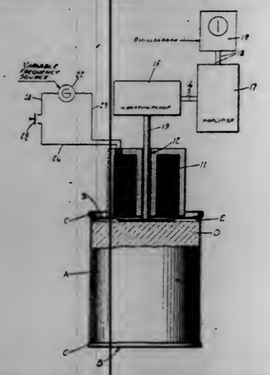


1. In a tractor driven snow plow assembly the combination comprising a tractor and a plow, each having its own center of gravity, said plow having a body including a head and a pair of runners fixedly connected to the head and extending alongside the tractor from front to rear thereof, said runners being adapted to support the plow and to resist lateral movement thereof, means connecting the rear ends of the runners for maintaining their spaced relationship both to each other and to the sides of the tractor and for connecting the runners to the tractor at the back of the tractor, means providing lateral bearings between the plow body and the tractor on either side thereof at the front of the tractor, a diagonal blade borne by the head of the plow, a wing hingedly secured to the plow adjacent the end of the blade, means for supporting said wing from the body of the plow whereby it may occupy an out-turned position substantially in extension of said blade, said blade and wing being such, and so arranged, that when said wing is in its out-turned operative position the resultant force exerted against the blade and wing by the snow as the plow is moved through the snow, will be transmitted through the plow in engagement with the tractor as aforesaid to pass laterally substantially through the center of gravity of the tractor without exerting thereon a turning movement.

2,320,390
CAN TESTING DEVICE
Benjamin Shmurak, New York, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application January 18 1941, Serial No. 375,085
4 Claims. (Cl. 73—51)

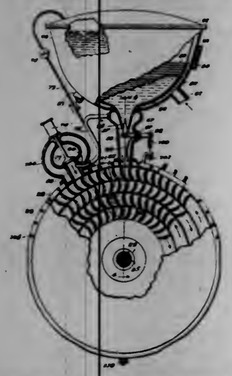
1. A device for determining the degree of vacuum within sealed cans, the combination of

electrical variable frequency means for setting up mechanical vibrations in a wall of a can at resonant frequencies of said wall for a predetermined range of degrees of vacuum, instrumen-



talities for picking up said mechanical vibrations, and devices for measuring the amplitude of the vibrations as an index to the degree of vacuum within the can.

2,320,391
EXPLOSION TURBINE MOTOR
George H. Wakefield, Takoma Park, Md.
Application September 6, 1938, Serial No. 228,667
30 Claims. (Cl. 60—49)



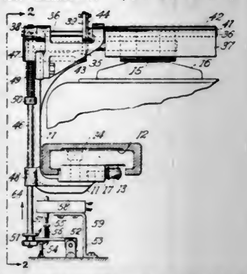
1. In a turbine having opposite directional rotating blading operated by the impingement on said blading of products of combustion under pressure and at temperatures which, in the absence of cooling, are harmful to said blading, means injecting cooling water through said blading along a path which is non-coextensive with the path of combustion gases through said blading, said injecting means including a nozzle and a control valve therefor normally closed, and means for automatically opening said valve in response to pressure of the products of combustion when the turbine is in operation.

17. Means for cooling the opposite directional rotating blading of an explosive turbine, comprising a source of cooling water under pressure, a jet for injecting said cooling water through said blading, and means utilizing a portion of the combustion gases of said turbine to increase the velocity of said water after it leaves said jet in proportion to the pressure of said gases as they enter said blading.

2,320,392
ANTI-RING-STICKING LUBRICANT
Ellis R. White, Albany, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 13, 1941, Serial No. 374,201
11 Claims. (Cl. 252—34)

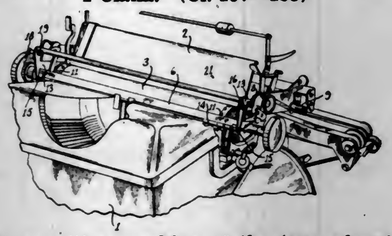
1. Lubricating oil comprising mineral lubricating oil containing dissolved from .25%–5.0% of an oil-soluble polyvalent metal salt of an alpha amino acetic acid which is resistant to oxidation under normal lubricating conditions in internal combustion engines.

2,320,393
LEAF CUTTER FOR CIGAR MACHINES
Clifford F. Randolph, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application February 17, 1940, Serial No. 319,371
28 Claims. (Cl. 131—21)



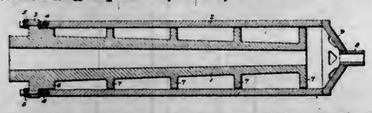
1. The combination with a cutting bed, of movable means for cutting a leaf section on said bed, including driving means therefor, and an electrical control circuit for incapacitating said driving means, and mechanism operated by physical contact with an obstruction in the path of said cutting means, and co-acting with said control circuit to incapacitate said drive.

2,320,394
RIBBON GUARD
Raymond G. Ratchford and Albert W. Metzner, Dayton, Ohio, assignors to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application November 8, 1940, Serial No. 364,916
1 Claim. (Cl. 197—153)



In a writing machine of the type wherein a platen roll is mounted in a reciprocatory carriage and in front of which roll a transfer tape extends axially thereof for to and fro movement with the carriage and past which a record sheet is advanced in unison with the rotation of the platen roll to receive on the back thereof from said tape a reverse impression of data inscribed on the face of the sheet, a pair of brackets attached one to each end of the reciprocatory carriage, a strand of material anchored at one end to one of said brackets and extending thence beneath the record sheet in parallel offset relation with the margin of the transfer tape to the supporting bracket at the opposite end of the carriage, and a winding device also carried by the reciprocatory carriage by which the strand may be tensioned, the construction and arrangement being such that interference of the record material with the edge of the transfer strip is prevented.

2,320,395
CENTRIFUGAL CASTING MOLD
Scott B. Ritchie, United States Army, Cootes Store, Va.
Application June 27, 1941, Serial No. 400,043
2 Claims. (Cl. 22—65)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



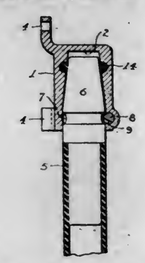
1. In a centrifugal casting machine including a driving rotor and a cylindrical chill mold received therein, an external annular rib integral with the mold in the vicinity of the pour point, said rib arranged to loosely space the mold from the rotor at incipient temperatures, a driving connection between the rotor and the mold, and resilient means in the driving connection for the longitudinal yielding retention of the mold to the rotor, said rib and resilient means adapted to permit longitudinal expansion of the mold in two directions after contact of a rib with the rotor.

2,320,396
RADIO TUBE CARTON
William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application March 4, 1941, Serial No. 381,613
11 Claims. (Cl. 229—6)



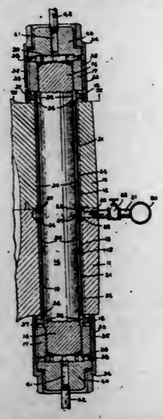
1. A radio tube carton including in combination, an outer tubular sleeve having enclosing side wall panels, an inner tube supporting strip having top and bottom platforms supporting the ends of the tube, a side wall hingedly connected to said platforms along one side thereof, an oppositely disposed side wall hinged to one of said platforms and hooked to a hook flap hinged to the other platform, a sealing element permanently securing said hook flap to said last named side wall, an end closure hinged to one end of said last named side wall, a tuck-in flap hinged to said end closure insertable into the outer tubular sleeve, and opposed inturned flaps hinged to opposed side wall panels of said outer sleeve adapted to underlie said end closure and support the tube and the inner member in fixed housed position within said outer sleeve.

2,320,397
COUPLING HOLDER
Charles F. Ross, Detroit, Mich., assignor to Power Brake Parts Manufacturing and Sales Company, Detroit, Mich., a corporation of Michigan
Application August 3, 1940, Serial No. 350,718
1 Claim. (Cl. 248—75)



Means for supporting and sealing the coupling end of a disconnected hose for transmitting fluid from one vehicle to another, comprising a housing having a closed end and an opposite open end adapted to receive a coupling, a locking member mounted in a wall of the housing and adapted to extend into the interior of the housing to lock the coupling therein, means normally holding said member in locking position, means in said housing for sealing against the inserted coupling, and means for attaching said housing to a support.

2,320,398
COOLING HIGH TEMPERATURE BOLTING
Eric A. Zetterquist, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 30, 1941, Serial No. 409,108
15 Claims. (Cl. 189—36)



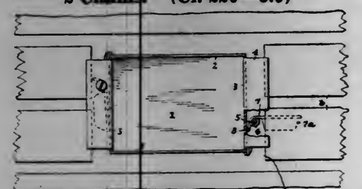
12. A joint comprising compressively-engaged parts subject to being heated and bolts for holding the parts together, each bolt including a shank having a threaded portion and a nut assembly cooperating with the threaded portion and engaging one of the parts, said parts providing passageways through which the respective bolts extend, said nut assemblies each having passageways formed therein and communicating with the passageway for their bolt, and means providing for the flow of cooling medium through said communicating passageways.

2,320,399
COMPUTING MACHINE
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 26, 1940, Serial No. 342,544
1 Claim. (Cl. 235—60)



In a machine of the class described, amount keys, a total key, a totalizer, actuating racks, means to engage and disengage the totalizer with the actuating racks for item entering and total taking, a connection from the total key to the engaging means to control the operation of the engaging means during total taking operations, and a connection between the amount keys and the first mentioned connection to render the first mentioned connection ineffective upon operation of an amount key.

2,320,400
OUTLET BOX
Charles E. Bedell, Port Richmond, Staten Island, N. Y., assignor to William L. Pison, Clifton, N. J.
Application May 31, 1941, Serial No. 395,942
2 Claims. (Cl. 220—3.6)



1. In combination, with an outlet box to be positioned in an opening in a building wall and itself having an exterior wall which, when the box is so positioned, extends through the plane of the building wall, said wall of the box having a projection to bear against the outer face of the building wall, a screw swiveled in the projection and arranged to extend through said plane and having a head to abut the projection outwardly thereof, and a clamp penetrated by and in threaded engagement with and rotative around the screw and including a clamp proper and a stop both extending from the screw in angular relation to each other less than 180° and the former further than the latter and the stop a distance greater than that between the screw and the wall of the box.

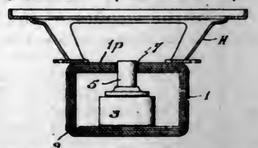
2,320,401
ELECTRICAL PULSE CONTROLLING MEANS
Harold H. Beizer, Camden, and Lewis H. Davis, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application May 31, 1939, Serial No. 276,581
5 Claims. (Cl. 177—380)

1. The combination with an electrical pulse-producing mechanism of the telephone dial type, comprising a rotary dial member having a normal position of rest and a finger stop bar associated with said dial member, of means providing a limited range of movement of said stop bar in the direction of the dialing movement of the mechanism, spring means connected with said stop bar for biasing said bar in the opposite direction to a predetermined normal position of rest, and means connected with said stop bar for engaging the



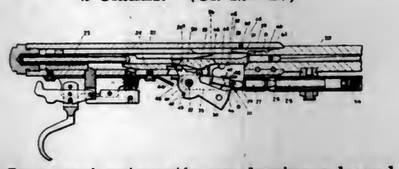
pulse-producing mechanism when the stop bar is moved through said range of movement in the first named direction to withhold said mechanism from said first named position of rest, thereby to control the time duration of an electrical pulse produced thereby.

2,320,402
LOUD-SPEAKER
Gregory W. Blessing, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1940, Serial No. 359,130
5 Claims. (Cl. 179—117)



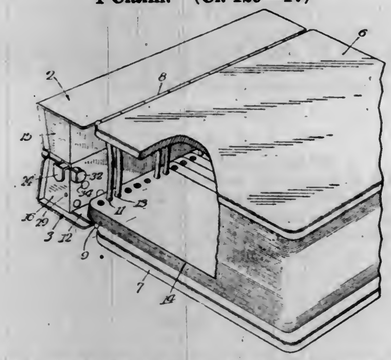
1. In a loudspeaker, a composite field structure comprising a unitary yoke and yoke plate, a magnet and pole piece within the yoke, said parts being intimately bonded each to another with a partially pyrolyzed thermoplastic material.

2,320,403
FEED MECHANISM FOR FIREARMS
Nicholas L. Brewer, North Agawam, Mass., assignor to Savage Arms Corporation, New York, N. Y., a corporation of Delaware
Application March 24, 1939, Serial No. 263,959
2 Claims. (Cl. 42—17)



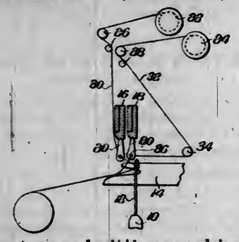
1. In a semi-automatic gun having a barrel, a receiver to the rear thereof and a magazine adapted to deliver cartridges to the receiver, a breech bolt mounted in the receiver for reciprocating movement only and driven back directly by the firing of a cartridge, said breech bolt having on its bottom a downwardly facing, lengthwise extending cam, said cam beginning substantially tangent to a line parallel with the path of movement of the breech bolt and extending forwardly and slanting downwardly in a concave curve, and a cartridge lifter located below said breech bolt and pivotally mounted near its rear end on an axis transversely of said breech bolt and having a long forwardly extending portion adapted to receive a cartridge on its upper edge and lift it upwardly as the said front end is swung upwardly, said lifter having on its rearward portion an upwardly projecting operating arm projecting rearwardly relative to the vertical plane of the axis of the lifter and, when the breech bolt is in closed position, lying closely adjacent to the rearward portion of said cam that begins on a line substantially parallel with the path of movement of said breech bolt, and engaged by the said cam from the start of rearward movement of the breech bolt and causing a gently beginning and gradually increasing angular movement of the front end of the lifter.

2,320,404
LOOSE LEAF BINDER
Edward F. Buenger, Oak Park, and William Nelson, Chicago, Ill., assignors to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application October 8, 1938, Serial No. 233,938
1 Claim. (Cl. 129—17)



In a loose leaf binder, a pair of hinged back sections, a latching bar projecting from one of said back sections, a locking slide mounted in said other back section, said latching bar and said locking slide engaging each other to hold said back sections in intermediate position, said back sections being shiftable longitudinally relative to each other in said intermediate position, said locking slide remaining in engagement with said latching bar and moving relative to said second mentioned back section, and a releasable stop member adapted to prevent said relative movement of said locking slide and said second mentioned back section.

2,320,405
METHOD AND MEANS FOR MAKING WARP KNIT FABRICS
Charles R. Burns, West Reading, Pa., assignor to Vanity Fair Mills, Inc., a corporation of Pennsylvania
Application May 8, 1941, Serial No. 392,456
22 Claims. (Cl. 66—84)



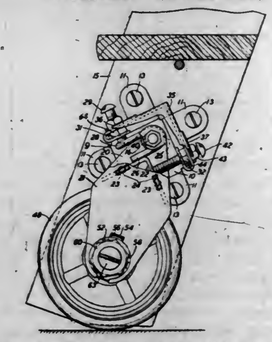
1. In a tricot warp knitting machine: vertically disposed needles; horizontally disposed sinkers; a guide bar suspended above the needles and sinkers and provided with a bank of vertically disposed yarn guides having yarn guiding eyelets located in the vertical plane of said needles and sinkers; tension bars supported in the vertical plane of said eyelets to normally lead yarn thereto in a vertical direction longitudinally of the needles and transversely of the sinkers; and a tension bar supported in the horizontal plane of said eyelets to lead yarn horizontally thereto at right angles to the needles and in superposed parallel relation to the sinkers.

2,320,406
METHOD AND MEANS FOR MAKING SHOES AND SLIPPERS
Dominick J. Calderazzo, Brooklyn, N. Y.
Application December 2, 1937, Serial No. 177,684
1 Claim. (Cl. 12—146)



The steps in the method of making a non-turned shoe or slipper which comprise rounding a sole of full thickness from a blank so as to provide a forepart portion, a heel portion and an interconnecting shank portion, said shank portion being provided with a protuberance extending laterally therefrom, splitting said sole to form a relatively thin insole having a cut out area in the ball thereof, and an outsole having a raised area complementary to said cut out area, and removing the protuberance from the outsole.

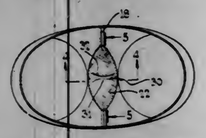
2,320,407
RETRACTILE WHEEL ASSEMBLY
Thaddeus C. Campbell, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 28, 1942, Serial No. 432,809
4 Claims. (Cl. 16—44)



1. A retractile wheel assembly for rolling ladders and the like, comprising a base plate, a bolt extending from said plate, a yoke member pivotally supported on said bolt, an angular member on said plate extending outwardly therefrom, a set screw in said angular member, a clamping member positioned on said bolt and bearing against said angular member, means on said bolt for holding said clamping member firmly against said angular member, a coil spring having a loop portion and free end portions positioned around said bolt, the free ends of said spring bearing

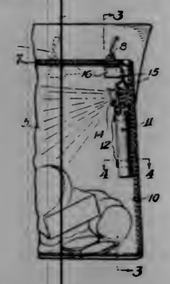
against said yoke and the loop portion bearing against said set screw to bias the position of said yoke, and a rotatable member axially supported on the free end of said yoke.

2,320,408
UNDERGARMENT
Elizabeth C. Clark, New York, N. Y., assignor to Belfit Foundations Inc., New York, N. Y., a corporation of New York
Application December 23, 1940, Serial No. 371,309
5 Claims. (Cl. 2—225)



1. A form shaping and constricting pantie girdle which is resilient in a front-to-back direction through the crotch, a soft, flat, elongated crotch lining member, spaced means to detachably attach both ends of said elongated crotch lining member to said pantie girdle so that said member will overlie the crotch thereof, said crotch lining member being so constructed and arranged that it will expand between said pair of attachable and detachable means when the crotch of said pantie girdle is stretched.

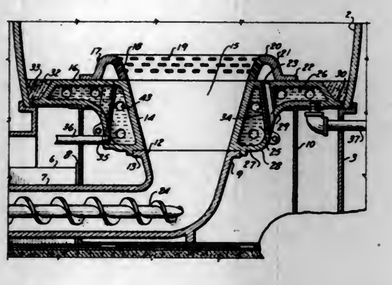
2,320,409
ILLUMINATED HANDBAG
Jonas Cohen, Los Angeles, Calif.
Application January 4, 1941, Serial No. 373,154
2 Claims. (Cl. 240—6.45)



1. A bag as described, having side and end walls, a closure for a pair of said walls including a stringer of hookless fasteners having an operator, a supporting member along an end wall for a flashlight, a flashlight secured to said supporting member, said light having a pair of switch contact closing members projecting upwardly above the light adjacent the end of said stringer, and an abutment member projecting downwardly from said operator and adapted to engage and interconnect said switch contact members to close the circuit to the light when said operator is moved to the open position of the bag.

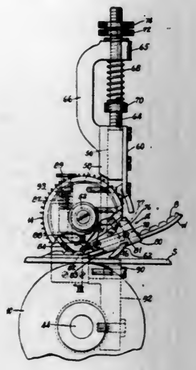
2,320,410
COMBINATION RETORT AND HEARTH FOR STOKERS
Thomas C. Cheasley, Kansas City, Mo.
Application June 19, 1940, Serial No. 341,272
11 Claims. (Cl. 122—374)

2. In an apparatus of the character described, a retort, a fuel bed support associated with the retort, means for circulating a cooling liquid in contact with the retort and said support to control the temperatures thereof, a tuyère carried



on said fuel bed support and having an annular chamber provided with a plurality of air outlet ports, and air ducts extending through said temperature controlling means for supplying air to said annular chamber of the tuyère.

2,320,411
WELT LAYING MACHINE
Patrick J. Connors, Arlington, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 9, 1942, Serial No. 433,853
10 Claims. (Cl. 12—67)

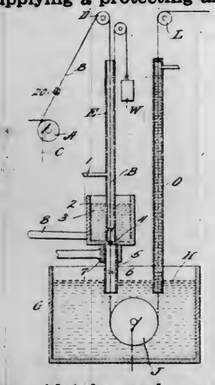


1. A machine for applying a welt to a sole, comprising a sole support, a guide for leading a strip of welt to the sole, means for causing said guide to press the welt upon the sole, and feeding means offset from said guide and engageable with the sole.

2,320,412
APPARATUS FOR ANNEALING AND COATING WIRE
John Cook, Ridgewood, N. J.
Application December 4, 1939, Serial No. 307,529
7 Claims. (Cl. 205—16)

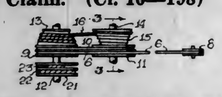
1. An apparatus of the class described comprising an initial contact wheel, a final contact wheel, a source of electric current the terminals of which are connected to the respective wheels, a protecting tube intermediate said contact wheels, and a pot containing a molten bath of

metal receiving the lower end of said tube therein, means for supplying a protecting and fluxing at-



mosphere for said tube, and a water bath surrounding the final contact wheel.

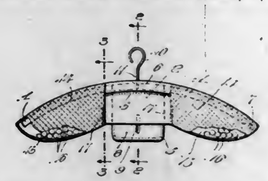
2,320,413
SASH OPERATING MECHANISM
Gerald W. Cummings, Dallas, Tex.
Application April 29, 1940, Serial No. 332,156
1 Claim. (Cl. 16—198)



In a window sash control, a sash counterbalance comprising the combination of a pair of pulleys disposed one above the other adjacent the upper corner of a window frame, a double grooved pulley disposed at a point spaced greater than the width of said frame from the opposite corner of said frame and whose shaft is parallel with those of said pair of pulleys, a coniform, spirally grooved member integral with said double grooved pulley, a second double grooved pulley intermediate said pair of pulleys and said first grooved pulley whose shaft is also parallel to the shafts of said first pulleys, a coniform, spirally grooved member mounted on the shaft of said second pulley but independent thereof, a spring encased in said latter coniform member urging rotation thereof in one direction, a cord operatively connecting said spirally grooved members, a flexible line connected to one side of a sash, extending around said pair of pulleys and wound in one of the grooves of said first pulley, a companion line connected to the opposite side of said sash, extending over said second grooved pulley and wound upon said first grooved pulley whereby the tension of the spring of said coniform member will be transmitted to said second grooved pulley through said cord to counterbalance said sash, an operating pulley mounted on the shaft of said first grooved pulley and operating cords wound upon said operating pulley.

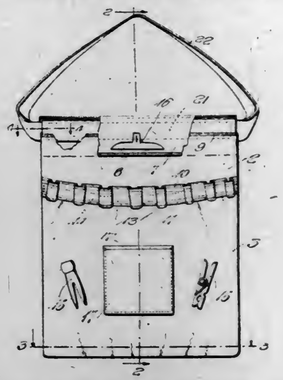
2,320,414
GARMENT HANGER
Magdalen Dalloz, Jacksonville, Fla.
Application July 21, 1941, Serial No. 403,410
4 Claims. (Cl. 223—86)

1. A garment hanger comprising a casing of soft pliable material having front and rear plies secured together along their margins and in spaced relation to their upper edges to provide a pocket extending across the top of the casing and open at one end, a tongue of soft pliable material carried by said casing midway the length of the pocket and of a length adapting it to be secured about an overhead support, said tongue being formed with an elongated opening for engagement about a supporting hook, a bar removably fitted into the pocket through the open end



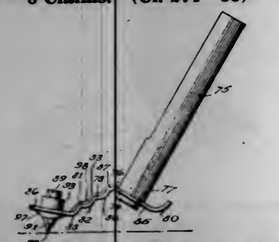
thereof, sheets secured along their margins to the front ply of the casing and forming pockets open at their inner ends and constituting receptacles for anti-vermin substances, stitching closing lower portions of the open inner ends of the pockets, and a suspending hook having a threaded shank passed through an opening in the casing and removably carried by the bar.

2,320,415
BAG FOR CLOTHESPINS AND GARMENT HANGERS
Magdalen Dalloz, Jacksonville, Fla.
Application December 16, 1941, Serial No. 423,250
3 Claims. (Cl. 150—1.8)



1. A bag for holding garment hangers and clothespins comprising a body defining a hanger-receiving pocket having a rear wall and a front wall, the rear wall being extended upwardly above the upper edge of the front wall to provide a flap foldable forwardly and downwardly into closing relation to the open top of the pocket, a strip extending across the inner surface of the flap and overlapped by the upper edge portion of the front wall, said strip being secured along its upper and lower edges and across one end of the flap, the other end of the strip being free to provide an open end for a transverse pocket defined by the strip and the flap, a strap for carrying the bag having its ends extending between the flap and ends of said strip and secured to the flap, the end of the strap extending into the open end of the transverse pocket and the portion of the flap to which it is secured forming a tongue, and a stiff bar removably fitted into the transverse pocket through the open end thereof and overlapped at one end by said tongue to prevent accidental displacement of the bar.

2,320,416
STYLUS FOR REPRODUCERS
Roy Dally, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application June 23, 1941, Serial No. 399,257
8 Claims. (Cl. 274—38)



6. A stylus for reproducers, comprising a metal shank adapted to be secured in the chuck of a reproducer, said shank having its lower end fixedly secured in direct metallic connection to a thin resilient sheet metal spring arm, said arm extending in a generally diagonal direction laterally and downwardly with respect to the axis of said shank and having a point supporting portion extending upwardly at a slight angle to the record when in record-engaging position, and a pointed record engaging member fixedly secured to said point supporting portion, and adapted to be flexibly and resiliently supported by said shank through the intermediary of said arm whereby the pointed member has improved vertical compliance for use at relatively low needle pressures, said diagonally extending portion being provided with a transverse corrugation for increasing the torsional compliance of the pointed member of said stylus to effect a substantial reduction of binding of the pointed member in the record groove.

2,320,417
HYDROMETER
Leo Edelmann, Chicago, Ill.
Application June 15, 1940, Serial No. 341,186
2 Claims. (Cl. 265—45)

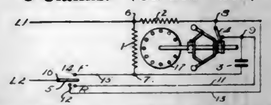


1. A suction hydrometer comprising a liquid receiving barrel, liquid inlet means at one end of the barrel, suction inducing means at the opposite end of the barrel, a closure mounted at the suction end of the barrel, a suction tube carried by the closure and extending into the liquid receiving barrel, said suction tube having an inlet end intermediate the ends of the liquid receiving barrel substantially at a point corresponding with a desired liquid level therein and having its remaining end communicating with the suction inducing means, and valve means at the inlet end of the suction tube closed by liquid force when the desired liquid level is attained within the liquid barrel whereby the suction inducing means is rendered ineffectual.

2,320,418
COLOR PHOTOGRAPHS
John Eggert, Leipzig-Gohlis, and Bruno Wendt, Dessau, Germany; assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 13, 1938, Serial No. 213,427. In Germany June 22, 1935
11 Claims. (Cl. 95—2)

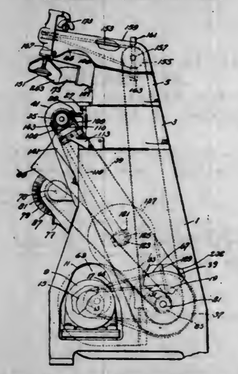
4. The process of producing a colored photographic record by color-forming development in a sensitive element having three superposed, differently sensitized silver halide layers, the outer layer of which is sensitized for blue, the inner layer of which is sensitized for red and the intermediate layer of which is sensitized for green, which comprises forming latent images in the layers, the images being different color sensation records of a subject, processing the film to form light-sensitive silver halide part images in the respective layers, said processing including at least a simultaneous development of said latent images to negative metallic silver images, exposing only one of the layers to visible light of a color to which it is sensitive and developing a colored image in it by a color-forming development step, selectively exposing another layer to visible light of a color to which it is sensitive and developing a colored image in it by a second color-forming development step and exposing the third layer to visible light of a color to which it is sensitive and developing a colored image in it by a third color-forming development step at least one of said two last mentioned layers being exposed through a previously color developed layer.

2,320,419
REVERSING CAPACITOR MOTOR
Harold E. Ellis, Lima, and Wendell C. Spear, Wapakoneta, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 14, 1942, Serial No. 450,885
3 Claims. (Cl. 172—279)



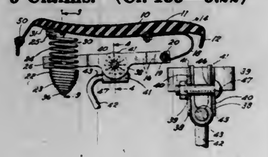
1. A reversible capacitor-start induction-run motor having a main winding, a spatially dephased auxiliary winding, a capacitor, a starting-switch, a reversing-switch, two supply-leads, the first supply-lead being connected to a common terminal of both the main winding and the auxiliary winding, the other terminals of the main and auxiliary windings being joined by the capacitor and the starting-switch in series-circuit relation to each other, the starting-switch being of a type which automatically opens when the motor is well started, connecting-means for utilizing the forward position of the reversing-switch to effect a connection between the second supply-lead and the second terminal of the main winding, and connecting-means for utilizing the reverse position of the reversing-switch to effect a connection between the second supply-lead and the second terminal of the auxiliary winding and to short-circuit the starting-switch.

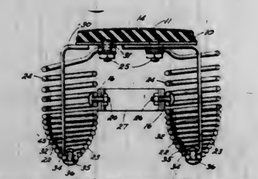
2,320,420
SHOE BUFFING MACHINE
Harold Ernest Elliott and Lawrence Mawbey, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application October 31, 1940, Serial No. 363,736
In Great Britain December 1, 1939
1 Claim. (Cl. 74—49)



Mechanism for reciprocating a buffing roll shaft, comprising a ball bearing having an inner race and an outer race, the inner race of said ball bearing being secured to said shaft against relative axial movement, a pair of trunnion pins extending from the outer race of the ball bearing, a slide block pivotally mounted on each of said trunnion pins, a yoke embracing said outer race and having a pair of guide slots in which said blocks respectively are slidably mounted, a fulcrum upon which said yoke is mounted for oscillatory movement, a driven shaft parallel to said buffing roll shaft, an eccentric on said driven shaft, a connecting rod from said eccentric to said yoke, and a universal joint between the connecting rod and the yoke, whereby the yoke is oscillated to impart reciprocatory movement through the ball bearing to the shaft, said guide slots serving to avoid transmission into the bearing of the transverse component of movement of the yoke.

2,320,421
SADDLE CONSTRUCTION
Roland W. Faulhaber, Monroeville, Ohio
Application September 11, 1941, Serial No. 410,447
5 Claims. (Cl. 155—5.22)



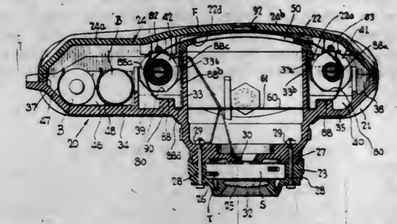


1. In a cycle saddle assembly, a pair of longitudinally disposed reach members, a saddle post, means for securing the reach to said post comprising a U-shaped clamp having the edges bent inwardly normal to the sides, lips formed on said edges adjacent the base of the clamp and defining a tubular portion for the reception of the saddle post and a clamping bolt for locking said clamp between said reach members and anchoring said saddle post within the tubular portion of the clamp.

2,320,422
PROCESS FOR THE PRODUCTION OF PHOTOGRAPHIC COLOR IMAGES
Alfred Fröhlich, Dessau, Germany; assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 7, 1940, Serial No. 333,813. In Germany May 9, 1939
17 Claims. (Cl. 95—6)

1. A silver halide emulsion containing as a color former fast to diffusion, an acetal of a polymer containing hydroxyl groups and an aldehyde said color former being capable of coupling with the oxidation products of a primary aromatic amino developer to form a color image.

2,320,423
CAMERA
Otto W. Githens and George Kende, New York, N. Y., assignors to Universal Camera Corporation, New York, N. Y., a corporation of Delaware
Application June 5, 1940, Serial No. 338,899
4 Claims. (Cl. 95—31)

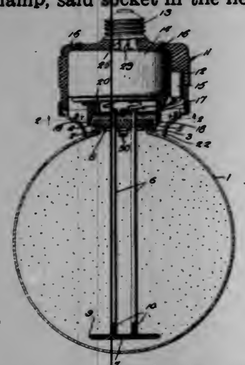


1. In a camera of the character described, the combination of a main body, a back cover detachably secured thereto to form a camera casing, a film track member carried by said main body, said camera casing having a spool chamber on one side of said film track member, open bearings supported on said main body and disposed in said spool chamber, said bearings being adapted to freely receive a film spool, a roller carried by said back cover, said roller being so constructed and arranged as to maintain said spool in said open bearings, and a spring member mounted on said main body and disposed in said spool chamber for maintaining the rolled film on said spool under tension.

2,320,424
FLUORESCENT LAMP
Jefferson E. Gates, Jacksonville, Fla.
Application March 19, 1941, Serial No. 384,172
1 Claim. (Cl. 176—124)

An adapter for detachable connection with a fluorescent lamp containing a heater and with an ordinary electrical outlet socket for connecting such a lamp with such a socket, said adapter comprising an article of manufacture separate from the lamp and lamp socket and embodying a housing having a chamber therein opening through one side thereof, a plug carried by the

housing for connection with the socket, a transformer including a secondary coil for energizing the heater in the lamp, said transformer also acting as a ballast, and a thermal control switch to control the operation of said heater arranged in the chamber of the housing, a socket projecting from the transformer and exposed at the open side of the housing and adapted to receive a part of the lamp when the adapter is connected with the lamp, said socket in the housing having



locking means engageable with and disengageable from coacting locking means on the lamp to lock the adapter to or unlock it from the lamp, circuit connections within the housing between the plug, transformer and thermal control switch for establishing an electric circuit, and spring contacts arranged within the transformer socket for engagement with and disengagement from conductors carried by the lamp when the adapter is connected with and disconnected from the lamp.

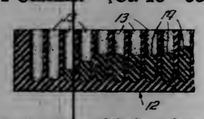
2,320,425

COMBINING FOAM RUBBER

Charles L. Glaes and John F. Schott, Mishawaka, Ind., assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana

Application August 2, 1940, Serial No. 350,114

11 Claims. (Cl. 18—53)



1. The method of combining two foamed rubber compounds which comprises vulcanizing one compound at a relatively high temperature and thereafter vulcanizing the other compound at a substantially lower temperature in contact with the vulcanized compound.

7. As a new article of manufacture, a body of vulcanized high temperature cure foam rubber having a body of low temperature cure foam rubber vulcanized thereto.

2,320,426

WOOD STAIN SOLVENT

Henry G. Goodman, Jr., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application June 1, 1940, Serial No. 338,377

12 Claims. (Cl. 8—6.5)

1. A composition of matter adapted for the production of non-grain-raising wood stains upon dispersion therein of a staining dye, said composition comprising a volatile common organic solvent, a polyhydroxy alcohol, and a compound of the formula

$$RCH_2CO\text{-}NHX$$

in which R is an acyl radical and X is one of the group consisting of hydrogen and a monocyclic aromatic hydrocarbon radical.

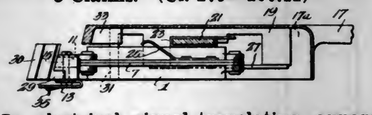
2,320,427

ELECTRICAL SIGNAL-TRANSLATING APPARATUS

Emile C. Guedon, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 28, 1940, Serial No. 358,757

5 Claims. (Cl. 179—100.41)



1. In electrical signal-translating apparatus, the combination of a supporting arm constituting a first part, an electromechanical transducer unit slidably and removably carried by said arm and constituting a second part, means for guiding the relative sliding movement of said apparatus, and friction means separate from said guiding means cooperatively carried by said parts for releasably retaining said unit in operative position on said arm.

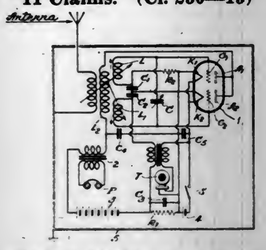
2,320,428

OSCILLATING AMPLIFIER AND DETECTING SYSTEM

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application April 30, 1941, Serial No. 391,117

11 Claims. (Cl. 250—15)



1. In a relaying system, a repeater comprising a transceiver including an electron discharge device oscillator whose amplitude of oscillations is responsive to the amplitude of received waves at the same frequency, said oscillator comprising a regenerative structure and a degenerative structure having circuits associated therewith for causing the regenerative power to decrease and the degenerative power to increase with an increase in the amplitude of oscillations.

2,320,429

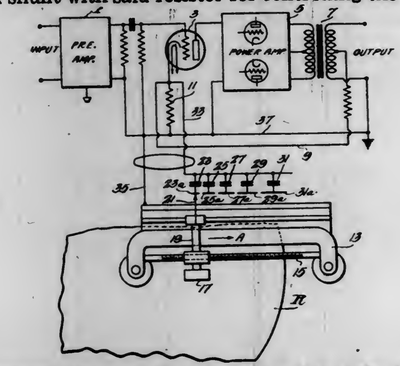
SIGNAL RECORDING AND REPRODUCING SYSTEM

Harold J. Hasbrouck, Jr., Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 20, 1940, Serial No. 353,340

2 Claims. (Cl. 179—100.4)

1. In electrical recording apparatus, the combination of a cutter adapted to be moved substantially radially across a rotatable record disc, a recording amplifier coupled to said cutter for applying signal voltages thereto, means providing a feedback path for said amplifier, said means including a resistor across which feedback voltages are developed, and variable capacity means in shunt with said resistor for controlling the fre-



quency response characteristic of said feedback path, said last named means being variable in accordance with the radial position of said device relative to the record, and means responsive to movement of said cutter across the record for varying said capacitor means progressively in value and for progressively varying time intervals as said cutter moves across the record.

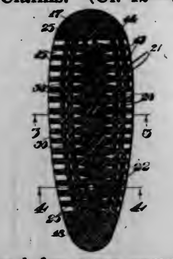
2,320,430

RECOIL PAD

Frank D. Hawkins, Sioux Falls, S. Dak.

Application March 21, 1941, Serial No. 384,536

4 Claims. (Cl. 42—74)



1. A recoil pad for guns comprising an elongated member formed of resilient material and having a top and bottom, transverse ribs joining the top and bottom and forming a resilient cushion between the top and bottom, the central portions of the ribs being thickened, and pairs of longitudinal ribs joining the top and bottom adjacent the side edges of the pad, one pair of the longitudinal ribs at one side of a longitudinal central line being closer to said line than the other pairs of ribs on the same side of the line.

2,320,431

PRODUCTION OF SHEET MATERIALS

Philip Richard Hawtin and Cyril Gardner, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application January 25, 1941, Serial No. 375,952. In Great Britain January 16, 1940

6 Claims. (Cl. 18—57)

1. Process for the production of sheet materials which comprises forming a sheet by the evaporative method from a solution of an organic derivative of cellulose in a volatile organic liquid, on a surface of a water soluble substance comprising a partial ester of a soap forming acid and an ether-alcohol containing at least two hydroxy groups, and stripping said sheet from said surface.

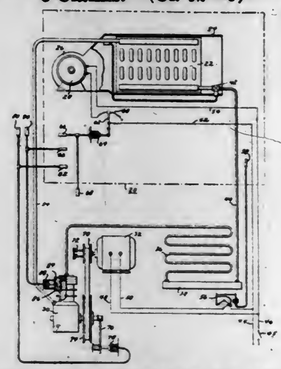
2,320,432

REFRIGERATING APPARATUS

Charles F. Henney, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 24, 1939, Serial No. 301,016

5 Claims. (Cl. 62—6)



1. Refrigerating apparatus for an enclosure to be cooled and dehumidified comprising in combination, an evaporator, a condenser, a compressor, refrigerant flow connections between said evaporator compressor and condenser, fan means for flowing air over said evaporator, means responsive to the dry bulb temperature in said enclosure for varying the flow of air over said evaporator, and means responsive to the dry bulb temperature of the air for passing a portion of the refrigerant directly from the high side of said compressor to the low side of said compressor.

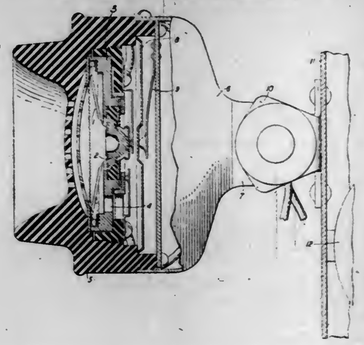
2,320,433

TELEPHONE TRANSMITTER

Alfred Herckmans, Caldwell, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 10, 1940, Serial No. 369,397

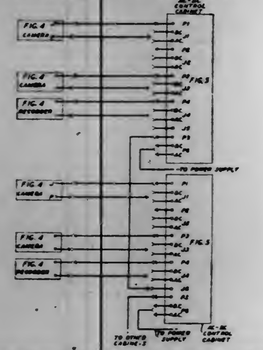
5 Claims. (Cl. 179—123)



1. A telephone transmitter comprising a vibra-

tion responsive element highly sensitive to sound waves and relatively insensitive to mechanical vibrations, and means for rendering said element responsive to mechanical vibrations of a restricted range of frequencies comprising an auxiliary vibration responsive element coupled to said first element.

2,320,434
ELECTRIC MOTOR CONTROL SYSTEM
Arthur L. Holcomb, Tarzana, Calif., assignor to Western Electric Company, Incorporated, a corporation of New York
Application March 13, 1940, Serial No. 323,674
19 Claims. (Cl. 88—16.2)



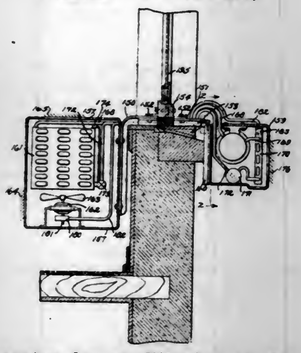
13. In a motion picture system, a plurality of cameras divided into groups cooperatively photographing a motion picture production, a control cabinet for each group of cameras, a transformer in each cabinet, said transformers being excited from the same source of alternating current of constant frequency and amplitude, a lamp so disposed in each camera as to produce an exposure of the motion picture film, an electrical connector associated with each cabinet, a connection from one winding of the transformer in a cabinet to all of the lamps in the cameras associated with that cabinet and to said connector, switching means in said cabinet, a connection from another winding of said transformer through said switching means to all of the lamps in the cameras associated with that cabinet and to the connector associated with that cabinet, and means for interconnecting the connector associated with one cabinet with the connectors associated with the other cabinets, whereby the operation of the switching means in any cabinet will light all of the lamps in all of the cameras associated with all of said cabinets.

2,320,435
EXPANDING TOOL
James B. Hood, New York, N. Y., assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y., a corporation of New York
Application October 8, 1941, Serial No. 414,327
4 Claims. (Cl. 81—15)



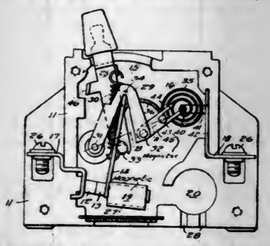
2. A tool for securing a wire coil insert in the internal threading of a tapped hole, comprising a substantially tubular body having one end longitudinally slotted and provided with an external screw threading substantially corresponding to the internal shape of the insert for which the tool is destined, the slotted portion of said body being provided with two internal oppositely tapering cone faces, a hollow plunger axially movable in said body, said plunger having one of its ends tapered and in engagement with one of said cone faces of said body, the other end of said plunger including means to adjustably vary the length of said plunger, a rod longitudinally movable within said plunger, a conical plug secured to the one end of said rod and engaging the other cone face of said body, and a cam mechanism in operative relation to said plunger and said rod for shifting them in axial direction relatively to each other.

2,320,436
REFRIGERATING APPARATUS
Harry B. Hull, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Original application December 31, 1938, Serial No. 248,679. Divided and this application May 28, 1941, Serial No. 395,648
7 Claims. (Cl. 62—129)



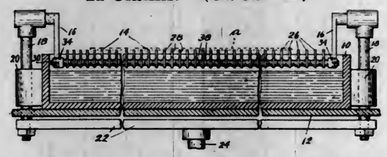
1. Apparatus for conditioning air for a room or the like comprising in combination, a cabinet disposed within said room, an evaporator within said cabinet, a motor-compressor unit, a condenser located outside of said room, refrigerant flow connections between said condenser, evaporator and compressor, and common means for supporting said condenser and said cabinet, said last named means including means for adjusting the position of said condenser relative to said cabinet.

2,320,437
CIRCUIT BREAKER
Oliver S. Jennings, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 7, 1941, Serial No. 392,210
21 Claims. (Cl. 200—88)



1. A circuit breaker comprising relatively movable contacts, releasable operating mechanism for causing automatic opening of the contacts, and restraining means comprising a toggle including a member electrically connected in the circuit of the breaker and magnetically responsive to predetermined current values to cause release of the operating mechanism.

2,320,438
CEMENTING MACHINE
Irving L. Keith, Haverhill, Mass.
Application March 17, 1941, Serial No. 383,779
11 Claims. (Cl. 91—47)

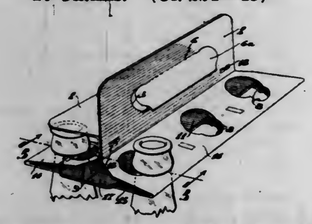


1. A cementing machine comprising a receptacle for cement, a horizontal grid having an upper face adapted to receive an article to apply cement thereto, and a vertically reciprocable structure carrying said grid for moving the top face thereof vertically from a submerged position beneath the cement to a position elevated above said cement, said grid being comprised of a plurality of horizontally-spaced edgewise-disposed cement-applying bars, rods passed through the end parts of said bars for supporting them, said bars having spacer members through which said rods pass, and said bars and spacer members being integrally formed.

2,320,439
PHOTOGRAPHIC SENSITIZER
Karl Kumetat, Wolfen, Kreis Bitterfeld, and Oskar Riester, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 24, 1940, Serial No. 354,116. In Germany October 5, 1939
5 Claims. (Cl. 260—240)

1. An unsymmetrical trimethinecyanine containing in its molecule at least one benzimidazole nucleus connected through its carbon atom in 2-position to the trimethine chain, said benzimidazole nucleus being linked to the nitrogen atom in 3-position and to the carbon atom in 4-position an alkylene radicle forming with said benzimidazole nucleus a 6-membered hydrogenated ring.

2,320,440
BOTTLE CARRIER
Charles H. Kruea and Dorella H. Kruea, Fort Thomas, Ky.
Application June 18, 1940, Serial No. 341,177
10 Claims. (Cl. 224—45)



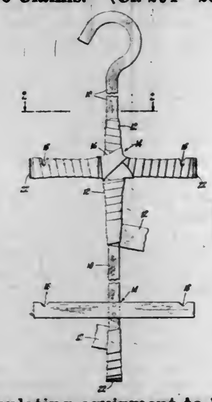
2. A bottle carrier formed from a single sheet of paperboard or the like folded to provide a horizontal base of double thickness and a handhold portion upstanding therefrom, the base having a plurality of bottle-neck openings constituted by apertures in alignment in the double thickness and a member positioned between the folds of the base and slidable lengthwise thereof for simultaneously limiting the size of all of the bottle neck apertures.

2,320,441
FILM MOVING AND COUNTER MECHANISM
Lew W. Lessler, Binghamton, N. Y., assignor to General Aniline & Film Corporation, Binghamton, N. Y., a corporation of Delaware
Application July 31, 1940, Serial No. 348,744
2 Claims. (Cl. 95—31)



2. A film shifting mechanism for a rollfilm camera including a camera back attached to said camera and provided with an opening, a replaceable supporting plate removably fastened to said back across said opening and having a longitudinal slot which coincides with at least a portion of said back opening, a reciprocating slide mounted inside said camera back and carrying an operating member projecting through said supporting plate slot, the length of said slot limiting the movement of said operating member, means on said slide for engaging and feeding said film upon movement in one direction, a counter-actuating member engaged and operated by said slide at the end of its film-feeding movement independent of the length of stroke of the reciprocating slide, a numbered counter dial operated by said counter-actuating member for registering the number of feeding movements.

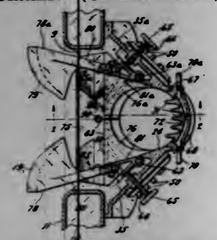
2,320,442
ELECTROPLATING EQUIPMENT
Albert E. Maibauer, Travis, Staten Island, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, New York, N. Y., a corporation of New York
Application July 28, 1939, Serial No. 287,054
6 Claims. (Cl. 204—297)



1. Electroplating equipment to be subjected to electrolyte including a part insulated from said electrolyte with a stretched elastic tape consisting essentially of a plasticized copolymer formed from a vinyl ester of an aliphatic car-

boxylic acid having from two to six carbon atoms with a member of the group consisting of vinyl halides and vinyl benzene, said tape being wrapped under tension on the part with the turns overlapping, the insulation on said part being substantially impervious to said electrolyte.

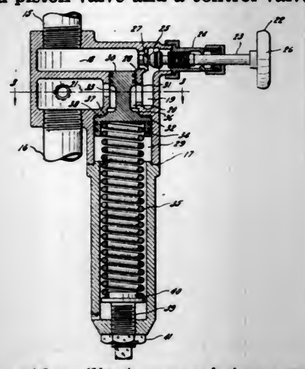
2,320,443
FUEL DISTRIBUTOR FOR STOKERS
Henry S. Mann, Chicago, Ill., and Eugene Martin, Erie, Pa., assignors to The Standard Stoker Company, Incorporated, a corporation of Delaware
Original application December 2, 1936, Serial No. 113,774. Divided and this application December 6, 1940, Serial No. 368,852
2 Claims. (Cl. 110—105.5)



1. A stoker for a firebox having an upstanding wall with a firing opening therein, said stoker comprising a fuel feed conduit communicating with said opening, a pressure fluid head at the forward side of the discharge end of said conduit, a table extending forwardly of said pressure fluid head for receiving fuel from said discharge conduit, said table on its upper surface having a pair of laterally spaced sloping portions inclined forwardly and upwardly with respect to the central portion of the upper surface of said table, said pair of sloping portions each having a plane uninterrupted upper surface of greater width than length, said pressure fluid head having a plurality of forwardly directed jet apertures for the emission of blasts of fluid under pressure across the central and inclined portions of said table, and laterally spaced fuel deflecting means above and extending forwardly of the inclined portions of said table for intercepting at least a portion of the fuel projected across the inclined portions of said table and diverting it to the rear corner portions of said firebox.

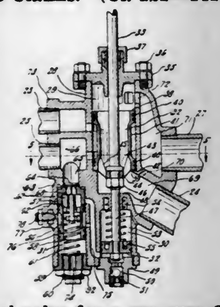
2,320,444
BOOSTER VALVE
Eugene Martin, Erie, Pa., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application July 5, 1941, Serial No. 401,152
6 Claims. (Cl. 121—143)

1. A pressure fluid regulating device for a pressure fluid operated engine comprising a body member having therein an inlet chamber for receiving pressure fluid from a source of supply and an outlet chamber from which pressure fluid is arranged to be delivered to said engine, a double headed unbalanced piston valve mounted for reciprocation in said body member to selectively close and open communication between said chambers, said piston valve being subjected on one side to fluid pressure in said inlet chamber urging said piston valve to its open position, resilient means reacting on the other side of said piston valve urging said piston valve to its closed position, a by-pass formed in said body member providing for passage of pressure fluid from said inlet chamber to said outlet chamber between the ends of said unbalanced piston valve and a control valve in said



by-pass, said resilient means being arranged to permit movement of said unbalanced piston valve to its open position when a predetermined pressure above the pressure of the fluid admitted by the control valve is reached between the ends of said unbalanced piston valve.

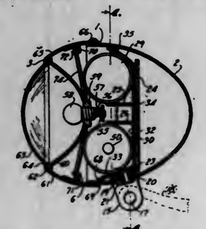
2,320,445
VALVE MECHANISM
Eugene Martin, Erie, Pa., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application November 28, 1941, Serial No. 420,775
5 Claims. (Cl. 121—141)



1. A control valve for a pressure fluid operated reversible engine, comprising a body member having a valve chamber and a piston chamber, said valve chamber having a pressure fluid intake port and a pair of pressure fluid discharge ports, a movable valve element in said valve chamber providing communication between said intake port and either of said discharge ports, a piston in said piston chamber operatively connected with said movable valve element, means providing a passage from one of said discharge ports to said piston chamber, valve means for opening and closing said passage, yieldable means normally retaining said valve means in a position closing said passage, and means providing a restricted vent from said piston chamber to atmosphere when said valve means is in a position closing said passage.

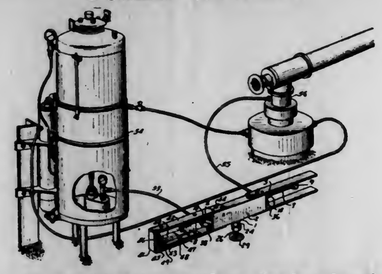
5. The combination with a stoker having fuel conveying means and a pressure fluid operated reversible engine for operating said conveying means, of valve mechanism including a movable valve element normally admitting pressure fluid to said engine for operating said conveying means in a forward direction, and including means responsive to an overload on said engine when said conveying means stalls for automatically moving said movable valve element to a position admitting pressure fluid to said engine for operating said conveying means in reverse direction, said last named means including slow release means providing for return of said vlave element to its original position.

2,320,446
LIGHT
Wilber P. Peterson, Kansas City, Mo.
Application May 12, 1941, Serial No. 393,009
4 Claims. (Cl. 240—7.55)



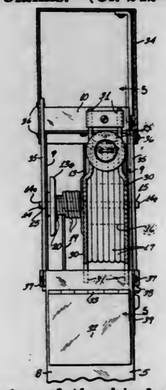
1. In a light of the character described, interconnected shell and bezel sections, batteries in said shell section, contacts for said batteries, a light bulb in said bezel section engageable with said contacts, a switch for energizing said bulb, a reflector supporting said bulb, a lens in the bezel section of the light engaged by said reflector, shoulders on the bezel section spaced from the reflector, means engaging the shoulders and having portions engaging the reflector for locking the reflector and lens in interengageable relation with the bezel section to form a complete unit bezel structure of the light, said locking means also engaging the batteries in the shell section of the light and holding the same in operative position when the bezel section is mounted thereon, and means for securing said bezel section on the shell section.

2,320,447
DEVICE FOR DETERMINING FLOW VOLUME OF TREATING LIQUIDS
Gwynne Raymond, Oklahoma City, Okla.
Application October 3, 1940, Serial No. 359,541
4 Claims. (Cl. 73—194)



1. In combination with a feeder for feeding liquid chemical into a well flow line, a cylinder, a piston in the cylinder, means connecting one end of the cylinder with the feeder and the other end with the flow line whereby the liquid moves the piston in the cylinder at the speed of the liquid fed by the feeder, a rod connected with the ends of the piston and projectable through the ends of the cylinder, stuffing boxes closing the ends of the cylinder and sealingly engaging said rod, a scale member, a pointer member, means carrying one of said members in fixed relation with the cylinder, means connecting the other member with one of the projecting ends of said rod for movement relatively to the fixed members, a by-pass connecting the ends of the cylinder, and a valve in said by-pass.

2,320,448
CLOTHESLINE POST AND REEL
Peter Reitz, St. Louis, Mo.
Application January 12, 1942, Serial No. 426,479
4 Claims. (Cl. 242—101)



1. In a device of the kind described and embodying a squared post formed with a longitudinally extended weight channel therein, a sheathing laterally inclosing the upper end of the post and extended at two opposite sides beyond said upper end to provide a reel chamber open at front and back, a closure block mounted between the upper ends of the sheathing forming the reel chamber, a shaft extended through said reel chamber and journaled at its extended ends through the sides thereof, a clothes line reel and a weight line reel anchored side by side on the said shaft, within the reel chamber, a clothes line attached at its inner end to the clothes line reel for winding thereon in one direction, a weight line attached at its inner end to the weight line reel for winding thereon reversely to the clothes line, a weight attached to the outer end of the weight line and arranged to travel in the weight channel of the post for operating the said reels, releasable means for locking the reels against rotation for feeding out the clothes line and whereby said line may be tautly secured to a spaced post, a cap slidably mounted over the reel chamber and arranged to raise for drawing out the clothes line, and releasable means for holding the cap to its raised position.

2,320,449
DOOR CHECK
Earl L. Schofield, Freeport, Ill., assignor to Henney Motor Company, Freeport, Ill., a corporation of Delaware
Application July 24, 1941, Serial No. 403,895
31 Claims. (Cl. 16—85)

1. A door check comprising pivotally connected link and rod members, the rod member being relatively long and the link member being rela-

tively short, the link member being pivotally connected at its end remote from the rod member to a door pillar adjacent the hinged edge of the door, and being only long enough to reach from its pivot on the pillar past the hinged edge of the door in the fully opened position of the latter, when the rod member is disposed nearly at right angles thereto, said link serving to limit the door opening movement by abutment with a surface



stationary with the door pillar, an abutment on the door in spaced relation to the hinged edge thereof having an intermediate portion of said rod slidable therein, and coiled compression springs mounted on said rod on opposite sides of the abutment, one of which is compressed against the abutment in the closing of the door and the other of which is compressed against the abutment in the opening of the door.

2,320,450
BELT CLIP FOR PISTOLS
Pedro Valenzuela, Presidio, Tex., assignor of one-half to Ismael Spencer, Presidio, Tex.
Application July 16, 1942, Serial No. 451,183
1 Claim. (Cl. 24—259)



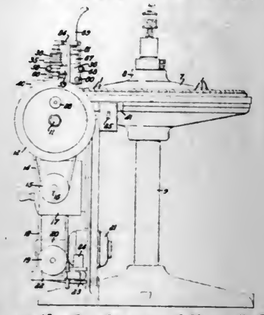
A clip for a pistol of the type having a hand grip and a slide on the barrel above the trigger, said clip comprising an elongated flat plate for attachment to said hand grip to extend longitudinally along the same and being sufficiently long to extend substantially from the slide to the end of said grip, said plate having an upper end elongated resilient tongue of bar-like form extending from one edge thereof at an obtuse angle to the longitudinal center line of the plate to lie alongside said barrel between the slide and the trigger parallel with the barrel, said tongue having a laterally bowed terminal part for facilitating the insertion of the tongue behind a pistol belt and being provided with a straight major portion between said part and the plate laterally offset from the plane of the plate to accommodate the belt between the tongue and said barrel.

2,320,451
PROPELLER
Jake Akins, Statesboro, Ga., assignor of one-half to Alfred A. Dorman, Statesboro, Ga.
Application May 27, 1942, Serial No. 444,728
4 Claims. (Cl. 115—42)



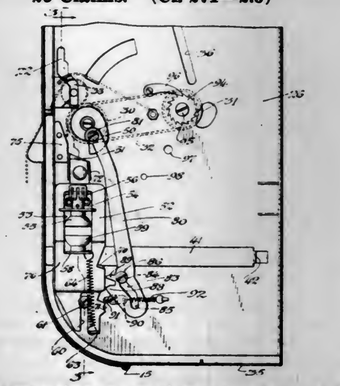
1. A propeller for boats, ships and the like comprising a casing which tapers from the front to the rear end thereof, a rotor mounted in said casing including a shaft provided with a spiral blade which follows the taper of said casing, a mounting plate having one or more mounting bolts or studs projecting upwardly therefrom, means connecting the casing to said mounting plate, a coacting mounting plate secured on the bottom of the boat and having one or more hollow tubes projecting upwardly therefrom through said bottom to the interior of the boat, said tubes being adapted to receive said bolts, and means whereby said bolts may be locked to said tubes.

2,320,452
METHOD OF AND MACHINE FOR ASSEMBLING INFLATION VALVE PARTS
George G. Allenbaugh and Ralph D. Bixler, Wadsworth, Ohio, assignors to The Ohio Injector Company, Wadsworth, Ohio, a corporation of Ohio
Application May 2, 1940, Serial No. 333,036
17 Claims. (Cl. 29—33)



1. The method of assembling inflation valve parts including a body, pin, spring and washer, comprising the steps of arranging these parts in proper operative relation with the washer embracing the end portion of the pin, deforming the end portion of the pin to increase its diameter and prevent withdrawal of the washer therefrom, and thereafter burnishing the deformed terminal of the pin to provide a smooth finish thereon.

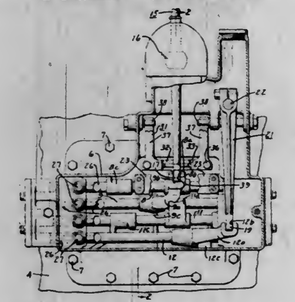
2,320,453
STOP MECHANISM, AND CABINET IN COMBINATION WITH SUCH STOP MECHANISM
Rudolph G. Birr, Lombard, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah, a corporation of Utah
Application May 12, 1941, Serial No. 393,126
25 Claims. (Cl. 271—2.3)



1. A dispensing apparatus comprising a feed-

ing means including a roll, a first stop operated by said roll, a second stop, means controlled by the roll and adapted to move a second stop into the path of the first stop and adapted to complete such movement as a result of more than one revolution of the feed roll, said means including a link operated by the roll, said link having means cooperative with means on said second stop adapted to move said second stop by step-by-step movement toward and into stopping position, the means on the link including a pair of fingers and the means on the second stop having a projection with which the fingers successively engage.

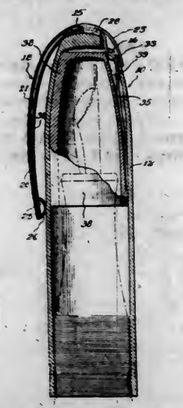
2,320,454
TRANSMISSION
Harmon S. Eberhard, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application July 21, 1941, Serial No. 403,278
4 Claims. (Cl. 74—477)



1. A transmission comprising a plurality of shiftable gearing for establishing any one of a plurality of drives through said transmission, a plurality of movable shift connections connected to said gearing and having slotted elements which when said transmission is in neutral are adjacent each other in lateral alignment, a shift lever movable laterally in the direction of said alignment and having a finger to engage selectively in the slot of each element, said shift lever being also movable longitudinally with respect to said alignment for shifting such engaged element and the shift connection associated therewith, centering mechanism including a member secured for lateral movement with the shift lever and pivotally mounted about an axis extending laterally whereby said member will move laterally with said shift lever while allowing longitudinal movement of said shift lever, said member having a lug for entering the slot of an element from which said finger is disengaged when the shift lever is shifted laterally, and a guide between adjacent elements having a slot in lateral alignment with the slots of such elements when they are in neutral position and in which the lug of said member is adapted to engage for holding said member against longitudinal movement with said shift lever.

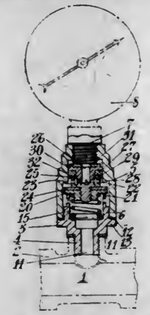
2,320,455
POCKET CLIP
Edward C. Feig, Chicago, Ill., assignor to C. E. Barrett & Company, Chicago, Ill., a partnership composed of C. E. Barrett, Miriam M. Barrett, Grace Mae Barrett, and Jane Elizabeth Barrett
Application June 30, 1942, Serial No. 449,113
4 Claims. (Cl. 24—10)

1. In a clip for fountain pens comprising an outer leaf curved to fit over the top of a fountain pen cap, an inner leaf of resilient material secured to said outer leaf and extending beyond



said outer leaf inwardly of said cap, a bushing within said cap holding said extended portion of said inner leaf in place against the inner wall of the cap to securely lock said clip in position.

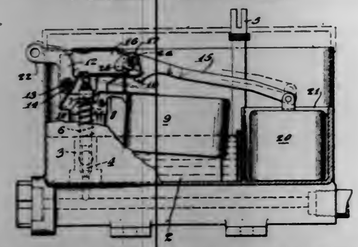
2,320,456
VALVED COUPLING
Archibald Goodman Frazer-Nash, Tolworth, England
Application April 17, 1941, Serial No. 389,077
In Great Britain March 16, 1939
1 Claim. (Cl. 284—19)



A valve device of the character described including a casing forming a valve chamber adapted for connection with a fluid pressure conducting pipe, said casing including two parts, the bottom part being in the form of an attaching cup having a central inlet opening while the outer and main part is in the form of a cap and is in detachable threaded and telescoped engagement with the cup-like bottom part and forms with the bottom part a chamber and is further provided at its upper end with an outlet passage and with a valve seat surrounding the passage, a valve head disposed within the chamber, a spring bearing against the bottom part and the valve head for normally holding the latter against a seat, a hollow stem extending from the valve head and projecting into the outlet passage, said stem also having radial passages therethrough adjacent the head which permit the passage of liquid under pressure through the chamber and outlet passage when the valve stem is pressed inwardly to move the valve head into

open position away from the seat and a member functioning as a limiting stop for restricting the degree to which the valve head may be opened.

2,320,457
FUEL FEED CONTROL DEVICE
Kemper M. Hammell, Toledo, Ohio, assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application June 5, 1942, Serial No. 445,879
7 Claims. (Cl. 137—68)



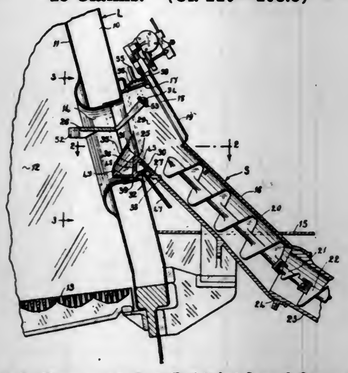
1. The combination with a liquid feed controlling device wherein a pivoted float operates in a liquid chamber, a normally open valve closes a supply port to the chamber, a rocker member normally acts on the valve to close it, and a trip member is adapted to engage the rocker member and prevent valve closing movements thereof, of means attached to and movable by the float and having lost motion connection with said trip member to impart tripping movements thereto to release the rocker member to permit it to close the valve when a predetermined low liquid level condition is present in the chamber.

2,320,458
BABY PANTIES
William S. Jopson, Hamilton, Ontario, Canada, assignor to Beauty Industries, Limited, Hamilton, Ontario, Canada, a corporation of Canada
Application July 30, 1942, Serial No. 452,963
In Canada July 2, 1942
1 Claim. (Cl. 2—224)



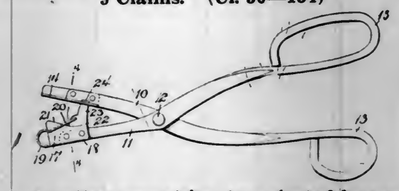
A garment of the class described constructed of impermeable material consisting of front and back pieces united at a substantially wide crotch line and having curved lateral edges generally converging from said crotch line, left and right side pieces having curved lateral edges, the curved edges of the front and back pieces and the curved edges of the side pieces being disposed in opposing convex relation and secured together in their respective positions to form together the front, back and sides of the garment, all of said curved edges combining to form a ballooned garment, the bottom corners of the front and back pieces having arcuate notches and the bottom of the side pieces an arcuate notch extending clear across the piece, said notches in their respective positions combining to form the leg openings of the garment, the upper edges of the front and back pieces and those of the side pieces in their respective positions combining to form the waist opening of the garment, the side pieces being readily foldable on crease lines intermediate their edges and disposed between the front and back pieces when the front and back pieces are lying flat in superposed relation, as when the garment is not in use.

2,320,459
STOKER AND FUEL DISTRIBUTING MECHANISM THEREFOR
Otto Moeller, Erie, Pa., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application May 21, 1940, Serial No. 336,387
15 Claims. (Cl. 110—105.5)



1. A hollow pressure fluid jet head for a stoker, said head having lateral portions thereof projecting forward beyond the central portion thereof, said central portion having a front wall provided with a plurality of forwardly directed jet apertures, said forwardly projecting portions being provided in respective wall portions thereof with forwardly and upwardly directed jet apertures, said apertures communicating with the interior of said pressure fluid jet head, the rearward edges of said last named walls and the upper edge of said front wall lying in the same vertical and horizontal planes forming a straight transversely extending edge, and a plate extending forwardly from the front wall of said central portion between said forwardy projecting portions, said plate being in a plane below the level of the jet apertures in said front wall.

2,320,460
CUTTER
Ferdinand H. Müller, Montclair, N. J.
Application September 16, 1941, Serial No. 410,991
9 Claims. (Cl. 30—134)

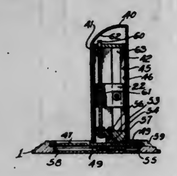


1. A cutter comprising two pivoted levers having handle portions on one end, an anvil having a slit therein on the other end of one lever, an unsharpened blade on the other end of the second lever the blade having a V-shaped engaging edge, and a light spring plate alongside the blade and positioned to lightly hold a severed part against the anvil the plate including a part for limiting the closing movement of the jaws.

2,320,461
SEPARATION OF ALIPHATIC ANHYDRIDES FROM MIXTURES CONTAINING WATER
Irvin L. Murray and Frederick H. Roberts, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application December 5, 1939, Serial No. 307,574
4 Claims. (Cl. 260—546)

2. A process for making an aliphatic acid anhydride by direct oxidation of an aliphatic aldehyde with molecular oxygen which comprises passing molecular oxygen through an aliphatic aldehyde admixed with isopropyl ether in an amount sufficient to reduce the rate of hydrolysis of the acid anhydride in the reaction mixture resulting from the oxidation of said aldehyde; and thereafter distilling water, isopropyl ether and unreacted aldehyde from the acid anhydride in said reaction mixture and recovering said anhydride.

2,320,462
CLOCK OPERATED SWITCH
Frank Nawells, Glendale, Calif.
Application September 27, 1940, Serial No. 358,681
8 Claims. (Cl. 200—35)



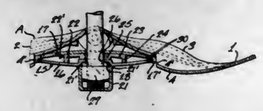
4. In a switching unit, a standard having a slot, a rotary switch having a portion thereof in the slot and screw means for shifting the switch along the slot, a switch arm extending from the switch, a hook element extending from the arm and adapted to receive the winding key of an alarm clock, a base supporting the unit, screw adjustable means cooperating with the base for positioning the unit on the base, adjustable bar means on the base for positioning an alarm clock.

2,320,463
COMBINED INVENTORY AND PRICE TAG HOLDER
Joseph Pavlovic, Jr., Dillonville, Ohio
Application March 3, 1942, Serial No. 433,213
5 Claims. (Cl. 40—16)



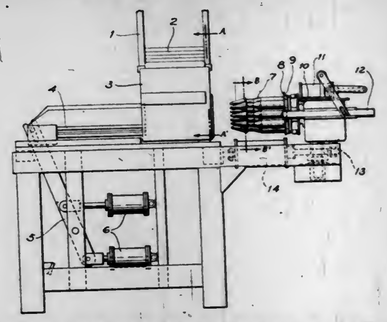
1. A tag holder comprising a tag holding member, support engaging members extending rearwardly from the tag holding member, a tray shiftable into and out of position back of the tag holding member, the tray being open at its front for insertion and removal of articles and having its open front closed by the tag holding member when in position back of the tag holding member, and an auxiliary tag holder having a mounting member passing through one of the support engaging members back of the tray and holding the tray upright with its open front closed by the first tag holding member.

2,320,464
EARTH ANCHOR
Chester R. Pieper, La Crosse, Wis., assignor to Iron Products Corporation, La Crosse, Wis., a corporation of Wisconsin
Application July 17, 1939, Serial No. 284,872
2 Claims. (Cl. 189—92)



1. An earth anchor comprising a pair of blades, means for pivotally connecting said blades together, a blade-expanding member comprising a pair of disks formed of sheet material connected together at their marginal edges and shaped to provide the blade-expanding member with a hollow interior, a bracing insert disposed within the hollow-interior of said blade-expanding member, said bracing insert being of disk formation and being provided with an annular marginal flange, and an anchor rod connected to said blade-expanding member.

2,320,465
SHELL-FEEDING DEVICE
William S. Pilcher, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 8, 1940, Serial No. 364,768
8 Claims. (Cl. 86—46)

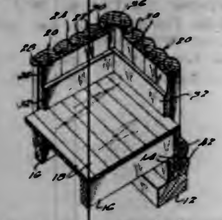


1. In a shell-feeding apparatus, a shell container, a distributor device provided with projections disposed in parallel relation and adapted to receive and support shells, means for pushing the shells from said container onto each of said projections, and means for extending said distributor and moving said projections into predetermined changed parallel positions.

2,320,466
LOG CABIN CONSTRUCTION
William C. Presley, Grosse Pointe Woods, Mich., assignor to Braun Lumber Corporation, Detroit, Mich., a corporation of Michigan
Application December 13, 1939, Serial No. 308,987
10 Claims. (Cl. 20—2)

1. In a prefabricated building construction, a floor, wall sections formed of a plurality of logs joined together in weather-tight joints, a horizontal member secured to each of said sections located adjacent the lower ends thereof and spaced upwardly from such lower ends a predetermined distance, said members seating upon said floor adjacent the edges thereof with said

sections projecting below said floor when the sections are assembled, whereby said members



serve as locators and supports for ready assembly of such sections.

2,320,467
CEPHALIC BAG
Pierre J. Rabil, Montreal, Quebec, Canada, assignor of thirty per cent to Joseph Helal, Montreal, Quebec, Canada
Application September 26, 1940, Serial No. 358,460
3 Claims. (Cl. 150—2.3)



1. In an ice bag of the class described adapted to partiailly envelop the head of the wearer, a plurality of chambers, one of the chambers being adapted to receive ice, another chamber being adapted to receive water formed by melting of the ice and an intermediate chamber having a perforated wall communicating with the ice chamber and a check valve connecting the intermediate chamber with the water chamber.

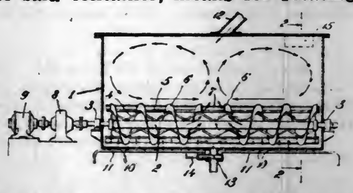
2,320,468
METHOD OF TREATING MERCURY CONTAMINATED SURFACES
Merle Randall, Berkeley, Calif.
No Drawing. Application March 26, 1942, Serial No. 436,247
11 Claims. (Cl. 117—121)

2. A method of treating mercury contaminated surfaces comprising coating said surfaces with a composition containing free sulfur in solution in the vehicle of the coating composition.

11. A method of treating mercury contaminated surfaces comprising coating said surfaces with a coating composition containing elemental sulfur, and then dusting finely divided sulfur on said coating while said coating is still in the adhesive condition.

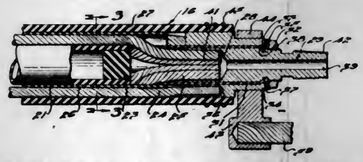
2,320,469
MIXING AND HOMOGENIZING APPARATUS
Enok Villy Rasmussen, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey
Application October 16, 1941, Serial No. 415,333
In Denmark June 24, 1940
2 Claims. (Cl. 259—25)

1. Apparatus for homogenizing and aerating finely divided dry material comprising a container of substantially greater horizontal length than its height and width, a manifold for a gaseous fluid, means for passing gaseous fluid from said manifold into the bottom of said container in a multiplicity of streams to aerate material therein to render it fluent, and means for producing circulation currents in material in said container which are elongated horizontally comprising a shaft extending longitudinally in the lower portion of said container, means for rotating said



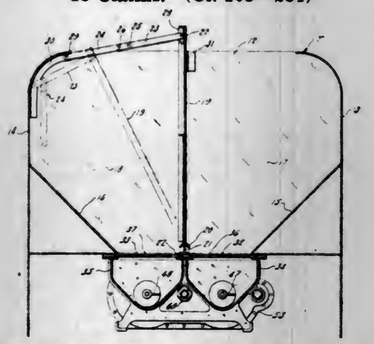
shaft, a relatively narrow worm blade supported by and rotatable with said shaft and spaced therefrom for moving material in the container longitudinally along the bottom thereof, and longitudinally extending bars secured to the worm blade to agitate and stir the material in the container as the shaft and worm blade are rotated.

2,320,470
CURRENT DELIVERING AND CONDUCTING MEANS
Mackworth G. Rees, Detroit, Mich.
Application April 11, 1938, Serial No. 201,360
18 Claims. (Cl. 174—15)



1. A cable embodying a pair of leads, each lead having a plurality of conductors alternately disposed on the surface of a cylinder with relation to the conductors of the other lead, one end of said cable having a terminal for each of the conductors of both leads, and means for insulating the terminals and conductors of one lead from those of the other lead.

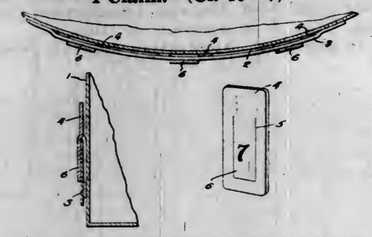
2,320,471
STOKER
Frank P. Roesch, Chicago, Ill., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application September 12, 1941, Serial No. 410,609
13 Claims. (Cl. 105—234)



2. The combination in a locomotive tender, of

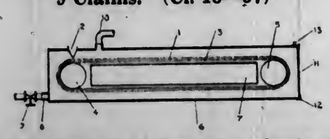
a fuel bin having a floor, said floor being provided with a pair of longitudinally elongated laterally spaced openings through which fuel drops by gravity from said fuel bin, a longitudinally extending trough conduit beneath each of said openings for receiving fuel from said fuel bin, a return bend conduit forward of and connecting the forward ends of said trough conduits, said return bend conduit being provided with a back outlet opening, conveying means in each of said trough conduits for advancing fuel therethrough into said return bend conduit and conveying means in said return bend conduit for conveying fuel therefrom through said back outlet opening.

2,320,472
HAT INDICATOR
Harry Rolnick, Dallas, Tex.
Application June 5, 1941, Serial No. 396,756
1 Claim. (Cl. 40—7)



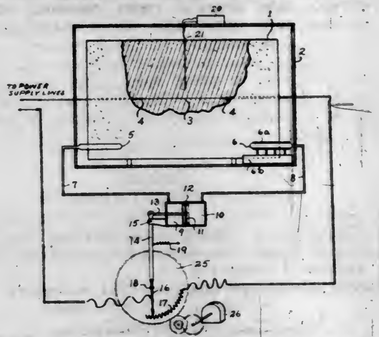
Means for indicating the contents of a hat box, comprising in association with the box, a flat strip horizontally disposed and attached by its ends only to the side wall of the box, and a plurality of tickets each formed with a medial tongue bearing indicia, said tickets so proportioned with respect to the strip that a plurality of same may be inserted side by side between the strip and box wall and in frictional contact with both strip and wall with their indicia bearing tongues engaging the outer face of the strip.

2,320,473
CASTING SHEET MATERIAL
James Henry Rooney, Philip Richard Hawtin, and Daniel Carswell Macpherson, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application February 12, 1941, Serial No. 378,632
In Great Britain March 6, 1940
9 Claims. (Cl. 18—57)



1. Process for the production of sheets of thickness at least 0.01'' from a solution of film-forming substance in a volatile solvent, which comprises building up the sheet on a support travelling through a heated evaporative atmosphere, by the successive deposition of layers of said solution, a substantial proportion of the solvent initially present in each layer being removed by evaporation before deposition of the next layer, progressively reducing the temperature of said atmosphere as the number of layers increase, stripping the built-up sheet from the support, and removing the bulk of the volatile solvent remaining in said sheet.

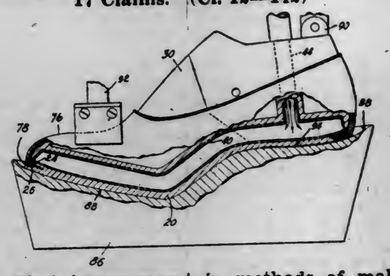
2,320,474
DRYING OF POROUS MASSES
Donald W. Ross, Washington, Pa.
Application September 9, 1941, Serial No. 410,181
15 Claims. (Cl. 34—1)



1. The method herein described of preparing a ceramic article for firing which consists in molding upon an electric resistor equipped with low resistance leads a body of wet ceramic material enveloping both the resistor and its leads and passing an electric current through the leads and through the resistor with generation of heat in the resistor, while the molded body is surrounded by a dry and relatively cool atmosphere, and, by regulating the intensity of current flow, controlling the temperature gradient in the molded body from said resistor outward, and thereby effecting an expedited and regulated flow of moisture from within to the exterior surface of the body.

6. The method herein described of drying uniformly and without case-hardening a ceramic body that in the condition of a water-filled plastic has been molded to shape, which consists in including in the ceramic mix, in addition to the mixing water, another electric-conductivity-increasing ingredient, bringing the still wet body within an envelope of water-dissipating character and causing electric current to flow through an interior portion of the body and in so doing to heat such interior portion to higher temperature than the surface, whereby the flow of water from interior to surface is expedited.

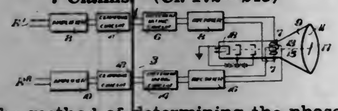
2,320,475
METHOD USED IN THE MANUFACTURE OF SHOES
George F. Ryan, Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 24, 1941, Serial No. 384,880
17 Claims. (Cl. 12—142)



1. That improvement in methods of making shoes which comprises mounting a shoe upper

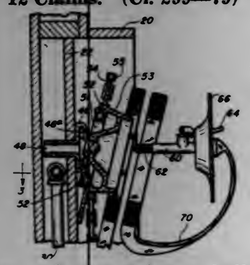
on a last and placing a sole member thereon which has its marginal portion split to form inner and outer flaps, inserting the margin of the upper between said flaps with cement on said margin and said flaps, holding the upper to prevent said margin from working out from between said flaps, and while maintaining the last and sole member in their relative positions, introducing fluid pressure between the last and sole member to press said inner flap and said margin against said outer flap and thereby cause the sole member to become cement attached to the upper.

2,320,476
PHASE MEASUREMENT
Harold J. Schrader, Haddon Heights, N. J., and Theodore A. Smith, Philadelphia, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application September 30, 1941, Serial No. 413,072
7 Claims. (Cl. 172—245)



1. The method of determining the phase relation between a pair of alternating voltages of the same or harmonic frequencies with the aid of a cathode ray tube having electron beam deflecting means effective in two directions substantially normal to each other which comprises separately deriving from each of said alternating voltages other voltages having predetermined characteristics, causing one of said last-named voltages to deflect said electron beam in one of said directions, and simultaneously causing the other of said last-named voltages to deflect said electron beam in the other of said directions whereby said deflected beam will trace a pattern on the screen of said tube indicative of the phase relation between said alternating voltages.

2,320,477
HOSE REEL
Benjamin F. Souther, Seattle, Wash.
Application March 18, 1941, Serial No. 383,941
12 Claims. (Cl. 299—79)



6. A hose reel comprising a hollow support member, a drum horizontally pivoted on said support member and having an aperture aligned with said hollow support member, a tie member removably inserted in said support member and the aperture in the drum to align the same to hold said drum in a raised position on its pivot, a hose coiled on said drum and coupled to a fluid supply line having a normally closed valve, said tie member in its inserted position being removably coupled with the operating means of said valve whereby removal of the tie member from the drum will automatically open said valve and permit the flow of fluid to said hose.

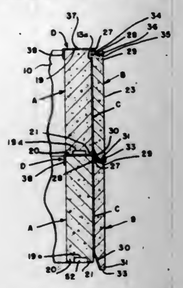
2,320,478
TOILET PREPARATION
George Sperti, Cincinnati, Ohio, assignor to The Institutum Divi Thomae Foundation, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application June 19, 1939, Serial No. 279,998
10 Claims. (Cl. 167—91)

1. A toilet preparation for topical application comprising a preparation which depresses the respiration of the tissue to which it is applied combined with a respiratory stimulating agent which stimulates the tissue respiration as determined by manometric measurements and thereby compensates at least in part for the depressing effect of said preparation.

2,320,479
TOPICAL REMEDY
George Sperti, Cincinnati, Ohio, assignor to The Institutum Divi Thomae Foundation, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application June 19, 1939, Serial No. 279,999
12 Claims. (Cl. 167—58)

1. A topical remedy of the type which causes depression of cellular respiration in the tissue to which it is applied, said remedy containing a respiratory stimulating agent capable of stimulating cellular respiration of said tissue as determined by manometric measurement, thereby compensating at least in part for said depressing effect.

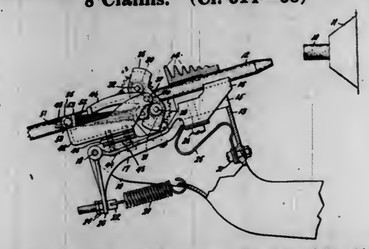
2,320,480
BUILDING STRUCTURE
Irving Stagg, Garden City, Mich.
Original application February 16, 1940, Serial No. 319,338. Divided and this application June 9, 1941, Serial No. 397,292
6 Claims. (Cl. 72—21)



1. A wall structure having two block-like castings of substantially uniform thickness throughout their depth arranged one on top of the other with the bottom of the uppermost casting substantially registering with the top of the lowermost casting, the outer upright faces of said castings being substantially flush, separate slab-like face plates of substantially uniform thickness disposed in surface to surface relation upon the outer upright faces of the castings, one face plate upon each casting, the outer upright faces of said face plates being substantially flush, the face plate on the lowermost casting being provided at its upper edge with an upwardly and outwardly opening recess, the walls of said recess extending downwardly and outwardly to direct to the outer faces of the lowermost face plate moisture draining down from between the uppermost casting and face plate thereon, the face plate on the uppermost casting being provided

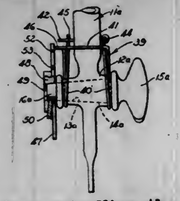
at its lower edge with a depending extension substantially conforming in shape to and received within the upwardly and outwardly opening recess in the face plate on the lowermost casting to substantially conceal said recess, means at the top of the uppermost casting holding in place the face plate on the uppermost casting, and means at the top and bottom of the lowermost casting holding in place the face plate on said lowermost casting, the means at the top of said lowermost casting co-operating with the means aforesaid at the top of the uppermost casting to hold in place the face plate on the uppermost casting.

2,320,481
ELECTRODE HOLDER
Elery Steadwell, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application February 11, 1942, Serial No. 430,425
8 Claims. (Cl. 314—68)



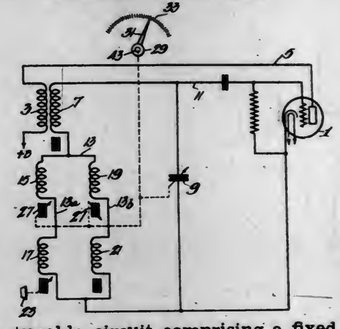
1. In an electrode holder, the combination of a frame pivotally mounted on an axis intersecting and at right angles to the axis along which an electrode is to be fed, feed rollers in said frame mounted on axes parallel to said pivotal axis of said frame and equally spaced from said pivotal axis by a distance sufficient to permit unimpeded access to an electrode along its axis between said rollers when said frame is in a vertical position to said electrode axis, and means for moving said frame about its pivotal axis to effect an engagement between an electrode and said feed rollers.

2,320,482
STOPCOCK CONTROL DEVICE
Richard W. Stenzel, Palos Verdes Estates, and James G. Suthard, Long Beach, Calif., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
Application March 5, 1941, Serial No. 381,866
11 Claims. (Cl. 251—152)



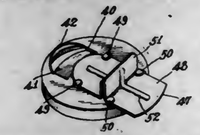
1. A device for controlling the rate of flow of fluid through a burette stopcock including a valve barrel having a frusto-conical cavity with inlet and outlet openings communicating therewith, and a frusto-conical valve body rotatable in said cavity in sealing relationship with its walls and having ends projecting from said cavity, said valve body having passage means so disposed that said valve body may be rotated to provide maximum and reduced rates of flow therethrough and to entirely shut off the flow therethrough, which device includes in combination: a clamping means detachably secured to said burette adjacent said valve barrel; a first engaging means carried by said clamping means at a position near said valve barrel; a second engaging means detachably clamped to that protruding end of said valve body which is of smaller diameter, said first and second engaging means contacting at a predetermined position of said valve body relative to said valve barrel; and means pressing against said second means to exert a force thereon in a direction tending to prevent unseating of said valve body relative to said cavity.

2,320,483
TUNABLE CIRCUITS
Arthur C. Stocker, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1941, Serial No. 412,949
9 Claims. (Cl. 250—40)



1. A tunable circuit comprising a fixed reactance element and a variable reactance element, and a trimmer tuning network in circuit with one of said elements, said network comprising two parallel branch circuits each having two series connected inductors, and means for oppositely varying the inductance of a cooperating pair of said inductors of which one is in one of said branch circuits and the other is in the second of said branch circuits for varying the reactance of each of said branch circuits while maintaining the overall reactance of said network substantially constant, whereby the second of the two inductors in one of said branch circuits is rendered variably effective.

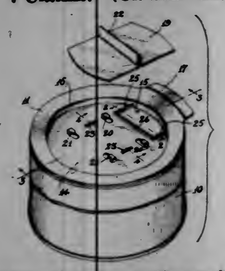
2,320,484
DISPENSING CLOSURE FOR CONTAINERS
Walter F. Straub, Chicago, Ill., assignor to W. F. Straub & Company, Chicago, Ill., a corporation of Illinois
Application August 30, 1939, Serial No. 292,571
4 Claims. (Cl. 221—21)



1. A closure device of the character described having, in combination, a cap, a slidable cover member mounted on said cap including a handle and two sections extending oppositely therefrom, a reenforcing bead extending longitudinally of both of said sections and effecting a slightly transverse divergence from the plane of said sec-

tions to cause the edges of the cover to lie closely against said cap, and means on said cap for receiving said sections to retain and guide said cover, said divergence of the sections effecting a frictionally resistant interengagement thereof with said means and said cap to assist in holding said cover in adjusted position.

2,320,485
CONTAINER WITH DISPENSING CLOSURE ARRANGEMENT
Walter F. Straub, Chicago, Ill., assignor to W. F. Straub & Company, Chicago, Ill., a corporation of Illinois
Application August 23, 1940, Serial No. 353,802
7 Claims. (Cl. 221—21)



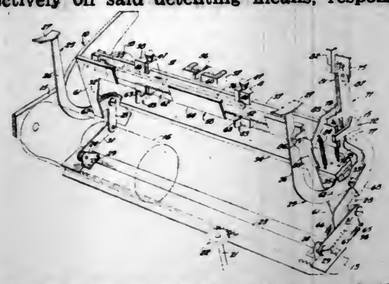
1. In combination in a dispensing container, including a body and top wall on said body having a dispensing opening of limited proportions, a generally elongated slidable cover for said opening, means on said wall for guiding and retaining the cover for longitudinal opening and closing movements relative to said opening, and a plurality of raised beads on said wall extending longitudinally of the path of movement of said cover and providing limited bearing engagement with said cover to maintain the latter in spaced relation to said wall.

2,320,486
TREATMENT OF ALCOHOLIC LIQUORS
Frederick E. Stuart, Baltimore, Md.
No Drawing. Application June 25, 1940, Serial No. 342,285
5 Claims. (Cl. 99—48)

2. The process of reducing acidity of distilled alcoholic beverage liquor which comprises treating the liquor with a dosage of basic substance calculated to raise the pH value of the liquor above the level desired for the product, treating such dosed liquor with an acid-reacting substance calculated to neutralize the unwanted excess of the alkaline content and initiate flocculation, then stirring the liquor at a slow rate to cause the growth of large flocs therein, allowing such flocs to settle and separating the clear liquor therefrom.

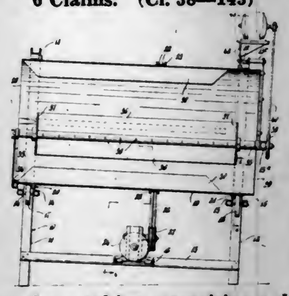
2,320,487
TYPEWRITING MACHINE
John Toggenburger, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 31, 1940, Serial No. 372,634
13 Claims. (Cl. 197—63)

13. In a typewriter, a transversely movable carriage, two carriage-arresting stops adjustable in parallel with the direction of movement of the carriage, means for detenting said stops in different positions of adjustment and in condition for individual release, two closely adjacent controls on the carriage, and means adapted to act selectively on said detenting means, responsive



respectively to the operation of one or both of said controls to effect release of one or the other of said stops.

2,320,488
LAUNDRY MACHINERY
Max Troy, New York, N. Y.
Application June 17, 1941, Serial No. 398,389
6 Claims. (Cl. 38—143)

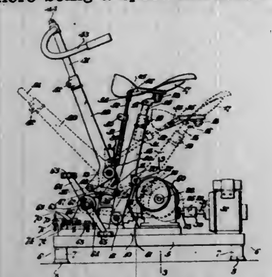


2. A laundry machine comprising a drum open at both ends and mounted for rotation upon an axis sloping downwardly from the horizontal, the higher end of the drum being the charging end and the lower end being the discharging end, said drum having a plurality of circumferentially spaced, inwardly-extending longitudinal radial ribs of a length approximately equal to the length of the drum, a shaft extending through the drum and having extending from the surface thereof a pair of diametrically opposed, longitudinally-extending vanes of a length approximately equal to the length of the drum, and means for rotating the drum and the vanes in opposite directions and for rotating the vanes at a much higher rate of speed than the drum.

2,320,489
EXERCISING APPARATUS
Alfred W. Turner, Philadelphia, and Thomas V. Greene, Upper Darby, Pa., assignors to Exercycle Corporation, New York, N. Y.
Application August 26, 1940, Serial No. 354,232
8 Claims. (Cl. 128—25)

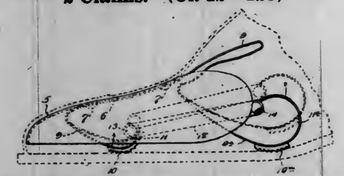
6. Exercising apparatus comprising a supporting structure, a seat carrying lever, a handle bar carrying lever, said levers being interlinked and having a pivotal mount with respect to the supporting structure, the interlinkage between said levers being such as to cause the seat and handle bar thereof to move in opposition, a transverse pedal carrying shaft, transmission means between said pedal carrying shaft and said levers, said transmission means including a cam coacting with one of said levers for moving the same through

one complete cycle for each complete rotation of the cam, there being a speed multiplying driving



transmission to the pedal carrying shaft to cause the pedal carrying shaft to revolve at greater speed than the cam.

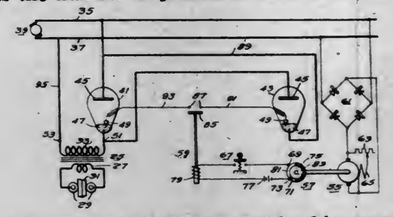
2,320,490
SHOE TREE
Johan R. Uddenborg, Chicago, Ill.
Application March 2, 1942, Serial No. 433,080
2 Claims. (Cl. 12—128)



1. A shoe tree comprising a toe plate of convex form and shaped to fit within the toe portion of a shoe, and resilient means carried by said toe plate and arranged for gripping engagement with the insole of the shoe to force the toe plate upwardly and maintain it against rearward displacement so as to maintain the toe portion of the shoe in expanded condition free of wrinkles, said resilient means comprising a spring member having an intermediate portion with a forward part fixed to the toe plate and a rear part return bent to provide a rearwardly and upwardly extending grip member, said spring member having rearwardly and downwardly extending end portions provided at their lowest points with roughened means for gripping engagement with the insole of the shoe, said end portions having upwardly and forwardly curved terminal portions, and a link connection between the ends of said terminal portions, whereby lifting of one terminal portion will cause lifting of the other for release of the shoe tree.

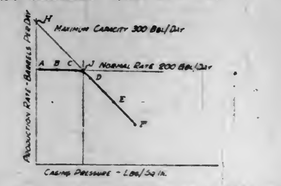
2,320,491
DISCHARGE APPARATUS
Edwin H. Vedder, Forest Hills, Pa., and Russell W. Staggs, Detroit, Mich., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 16, 1938, Serial No. 214,160
16 Claims. (Cl. 250—27)

2. For use in supplying power from a source of periodically pulsating potential to a load, the combination comprising electric discharge valve means interposed between said source and said load, said valve means having a plurality of principal electrodes and control electrode means of the immersed ignition type, a normally open circuit for impressing a potential across said control electrode means from said source, and means for closing said circuit for an interval of time, commencing at a random instant relative to the pulsations of said source and in length substantially less than the time occupied by n pulsations of said source but greater than the time occupied by $(n-1)+2r$ pulsations of said source, where n is the number of periods of said source during



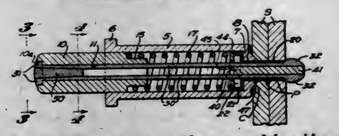
which current is to flow to said load by reason of the closure of said circuit and r is the fraction of a period of said source from the point in said period where the source potential is a minimum to the point where the potential across said control electrode means supplied through said circuit is first sufficiently large to render said valve means conductive.

2,320,492
METHOD OF DETERMINING FLUID PRESSURE AND PRODUCTION CAPACITY OF OIL WELLS
Cranford P. Walker, San Marino, Calif.
Application August 11, 1938, Serial No. 224,416
27 Claims. (Cl. 73—51)



1. The method of determining the pressure required in the casing of an oil well to depress the liquid level therein to the level of the inlet of a pump immersed in said liquid which comprises changing the casing pressure, in steps, allowing the pump to operate at each step until the production characteristics of the well become stable, and noting the stable casing pressure at which the rate of production by the pump undergoes a distinct change, which pressure will be the pressure required to depress the liquid level to the level of the inlet of the pump.

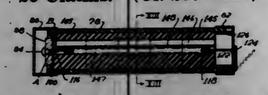
2,320,493
CLAMP
Frank C. Wallace, Los Angeles, Calif., assignor, by mesne assignments, to Herman H. Helbush, Beverly Hills, Calif.
Application January 9, 1942, Serial No. 426,228
7 Claims. (Cl. 85—5)



1. In a clamp device, the combination of a body, a plunger slidably mounted therein, said plunger being provided with a bore, a retaining

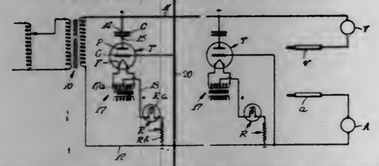
member slidably mounted in the body, the inner end of the retaining member being longitudinally split and disposed longitudinally of the bore in the plunger, and means for securing the retaining member in the plunger including a separator inserted in the longitudinally split end of the retaining member.

2,320,494
CIRCUIT INTERRUPTER
James M. Wallace, Braddock, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 20, 1939, Serial No. 300,365
26 Claims. (Cl. 200—117)



1. In a circuit interrupting device, interrupter supporting means including a terminal seat, a resistance element adapted to be positioned wholly on said seat but unsecured thereto, conducting means having a fusible connection with said resistance element, and including means tensioning said conducting means to maintain said resistance element in engagement with said seat, and to draw out the arc formed upon failure of said fusible connection.

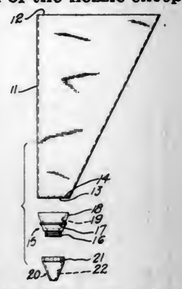
2,320,495
FORMING CIRCUIT
Herbert Waterman, New Bedford, Mass., assignor to Aerovox Corporation, New Bedford, Mass., a corporation of New York
Application October 27, 1939, Serial No. 301,637
3 Claims. (Cl. 204—228)



1. Means for forming electrolytic condensers, comprising a condenser section having electrodes and intervening electrolyte, a multielement thermionic tube and a resistance unit connected in series with the electrodes of the condenser section, said tube having its grid connected with the negative end of the resistance unit, thereby to apply to said grid, a bias controlled by the decreasing leakage current through the progressively forming condenser.

2,320,496
DECORATING DEVICE
Henry Wechsler, Arverne, Long Island, N. Y.
Application November 28, 1941, Serial No. 420,779
1 Claim. (Cl. 107—52)

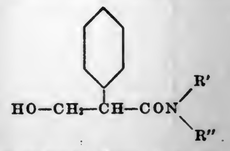
A device including a decorator for the free gravity flow of plastic edible substances, including a hopper and a nozzle connected to the hopper at the lower end thereof, the hopper and nozzle providing a passage that is continuously downwardly tapered to the orifice of the nozzle to thus tend to compress the plastic substances in course of downward flow thereof, the sidewall of said nozzle having a series of internal integral ridges extending in the general direction of the nozzle axis and terminating within the orifice thereof, said ridges being of triangular cross section throughout and merging at their upper ends into the orifice wall, said ridges being downwardly tapered with respect to each other and occupying substantially the entire internal periphery of the orifice, the nozzle having its internal surface generally circular so that adjacent ridges diverge upwardly from each other, and the ridges being so small in cross sectional area as to afford a relatively large area of free flow in the nozzle, with the flow area being bounded by the side wall of the nozzle except at the orifice



itself at which the flow area is bounded substantially entirely by said ridges, the flow area between the ridges and above the orifice comprising at all points regions which taper downwardly more than the taper of said ridges for a correspondingly increased friction of flow between the ridges and which regions continuously enlarge toward the orifice axis so as to avoid choking of the plastic substance between the ridges and permit free flow of the substance while continuously and gradually preforming and urging the same toward the inner edges of the ridges in course of said flow toward the orifice.

2,320,497
DERIVATIVES OF TROPIC ACID AMIDE AND MANUFACTURE THEREOF
Wilhelm Wenner, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application June 26, 1939, Serial No. 281,269. In Germany July 7, 1938
3 Claims. (Cl. 260—559)

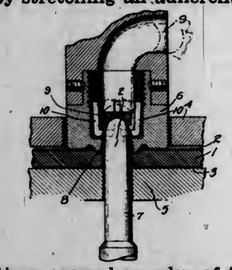
1. Derivatives of tropic acid amide of the formula



wherein R′ is selected from the group consisting of hydrogen and aralkyl, and R″ is an aralkyl group.

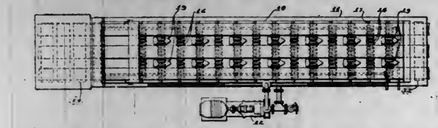
2,320,498
PROCESS OF MAKING METAL COATED COLLAPSIBLE TUBES
Alexander W. Wheeler, Philadelphia, Pa., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
Application April 9, 1940, Serial No. 328,661
13 Claims. (Cl. 29—148.2)

1. The process of making metal-coated articles which includes the step of preparing a body of metal with initially separate adherent coatings of another metal on its opposite faces and then extending by stretching an adherent part of one



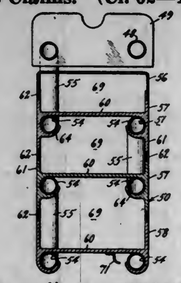
of said coatings around an edge of the body into contact with each other to conceal the body metal at such edge.

2,320,499
CONTINUOUS STRIP PICKLING AND CLEANING APPARATUS
Frank J. Wood, Riverside, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 20, 1941, Serial No. 423,702
5 Claims. (Cl. 266—7)



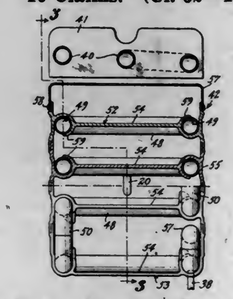
1. In a continuous pickling and cleaning apparatus for strip metal, a pickling trough through which the strip metal is adapted to pass during the pickling operation, a plurality of laterally and longitudinally spaced blocks along the bottom of said pickling trough and forming a means for supporting the metal above the bottom of said trough as it passes therethrough, transversely extending shafts spaced along said pickling trough forming a mounting for said blocks in said pickling trough, and means adjustably mounted on the bottom of said pickling trough for guiding a plurality of strips of metal therethrough in side by side relationship including a plurality of centering guide members detachably mounted on said shafts in laterally spaced relationship with respect to each other.

2,320,500
REFRIGERATION
Carl T. Ashby, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 2, 1939, Serial No. 302,503
13 Claims. (Cl. 62—126)



1. A cooling unit or evaporator including a shell provided with a shelf and a looped coil or conduit in thermal exchange therewith, said shell having ribs thereon disposed above said shelf and spaced therefrom substantially the diameter of said conduit to provide channels, said channels being located and said looped coil being formed so that said shell and said coil can be slidingly moved together, with the channels receiving portions of said looped coil during such relative sliding movement without interference by the connecting bends of said looped coil.

2,320,501
REFRIGERATION
John A. Taylor, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 3, 1939, Serial No. 302,625
10 Claims. (Cl. 62—126)

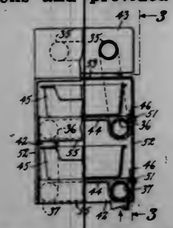


1. A cooling unit comprising a shell providing a freezing enclosure, said shell having side walls and shelves disposed between said side walls, the major portion of each of said shelves providing a smooth supporting surface, a formation integral with and extending along the sides of said shelves from the front end to the rear end of the shell, certain of said formations being united to form one of said side walls and said remaining formations being united to form said other side wall, each of said formations comprising a pair of ribs of which one is curved upwardly from the shelf carrying such formation and the other of which is curved downwardly therefrom, one of each of said pair of ribs being shaped to provide a portion of one of said side walls, said formations being arranged to provide channels extending along said side walls and disposed one above another, a looped coil having horizontal U-shaped loops disposed one above the other with horizontal bends connecting the spaced apart arms of said loops at one end of said shell and vertical bends at the other end of said shell each connecting a leg of one of said horizontally disposed loops to the corresponding leg of the loop adjacent thereto, the straight portions of said loops being disposed in said channels along said side walls.

2,320,502
REFRIGERATION
Tage Schullström, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 6, 1939, Serial No. 302,969
In Germany November 7, 1938
4 Claims. (Cl. 62—126)

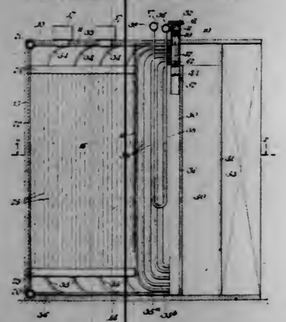
1. A cooling unit or evaporator including a pipe having a plurality of vertically spaced pairs of substantially straight parallel horizontally extending sections, the sections of each pair being connected together at their forward ends by

return bends disposed in different substantially horizontal planes and adjacent pairs being connected by return bends disposed in substantially vertical planes, plate members supported on said pairs of sections and provided with vertically



extending flanges or ribs along the sides thereof, said flanges or ribs being formed to embrace said straight sections to provide for heat transfer therebetween, and a lip extending downwardly at the forward end of each plate in front of the horizontal return bends.

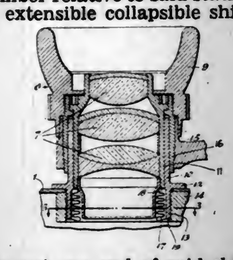
2,320,503
HIGH-PRESSURE STEAM GENERATOR
John Phillips Badenhausen, Philadelphia, Pa.
Application January 8, 1942, Serial No. 425,953
7 Claims. (Cl. 122—235)



4. In a drumless steam generator, enclosing walls providing a combustion chamber, banks of tubes for lining said walls and for generating steam, a plurality of spaced vertical header elements, a baffle extending along said vertical header elements, said vertical header elements and baffle being spaced from said combustion chamber to provide a pass for the gases from said combustion chamber, the aforesaid banks of tubes being connected to said vertical header elements for discharging steam thereto and for receiving water therefrom, and banks of steam generating tubes within said pass and extending from lower portions of said vertical header elements to upper portions thereof.

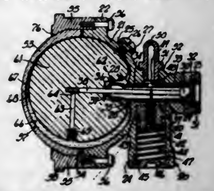
2,320,504
BINOCULAR
Stanley J. Bailey, Snyder, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Original application February 9, 1940, Serial No. 318,128. Divided and this application June 19, 1941, Serial No. 398,729
6 Claims. (Cl. 88—34)

1. In a device of the character described, for use with a casing supporting optical elements and having an opening, an eyepiece adapted to be secured to said casing in alignment with said opening, said eyepiece having a stationary member adapted to be secured to said casing adjacent said opening to retain said eyepiece in alignment with said opening and a movable member supporting optical elements in optical alignment with the optical elements in the casing and adapted to be adjusted relative to said optical elements in the casing by adjustment of said movable member relative to said stationary member and an extensible collapsible shield member



secured adjacent one end of said shield member to said stationary member and adjacent the opposite end of said shield member to said movable member and said shield member being provided for preventing the entrance of dust and moisture between the stationary and extensible members and into the interior of said casing through the said eyepiece.

2,320,505
FLIGHT POSITION AND FORCE INDICATING INSTRUMENT
Arthur Z. Bendar, Ingleside, Ill.
Application May 24, 1941, Serial No. 394,967
28 Claims. (Cl. 264—1)

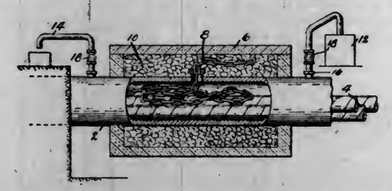


19. An aircraft instrument comprising a housing having a chamber containing a quantity of liquid, a displacement member including a buoyant portion smaller than said chamber and normally floating in said liquid, a weight suspended from said member, and a spring normally counterbalancing said weight.

27. A level indicating instrument comprising a chambered housing having a transparent chamber-defining portion, two liquids of different colors and different specific gravities in said housing chamber, a plurality of direction-indicating markings of the same color as said light liquid arranged on said transparent portion in laterally spaced relation adjacent and above the normal plane of separation of said liquids, and a plurality of direction-indicating markings of the same color as said heavy liquid arranged on said transparent portion in laterally spaced relation adjacent and below the normal plane of separation of said liquids.

2,320,506
METHOD OF FORMING DAMS
Charles E. Bennett, Ridgewood, and Fred C. Meyer, Wyckoff, N. J., assignors to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey
Original application March 4, 1939, Serial No. 259,778. Divided and this application September 10, 1941, Serial No. 410,258
5 Claims. (Cl. 62—1)

1. The process of forming a dam in a liquid-containing metal pipe line, which process comprises introducing a thermal conductor into the pipe line at a predetermined site, packing a refrigerant about the pipe line at said site, a portion of the said thermal conductor extending out of the line into contact with the refrigerant, allowing the equipment to stand until the liquid at the said site has been chilled uniformly throughout without building up an annulus of ice about the center of said site, introducing a batch



of compound into the chilled liquid, said compound being of such a nature as to be retained in the chilled liquid, allowing the equipment to stand until the added compound is thoroughly chilled, adding another batch of the compound and allowing the equipment to stand until the second batch of compound is thoroughly chilled, and repeating this cycle until the mass of liquid and added compound at the desired site of the dam has been frozen solid.

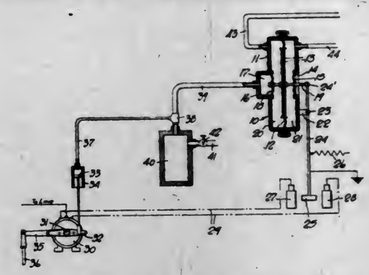
2,320,507
SUCTION CLEANER
Robert S. Boyle, Akron, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 8, 1939, Serial No. 283,341
6 Claims. (Cl. 15—6)



1. In a suction cleaner having a casing, a rotary agitator including: a rotary body mounted on said casing, an agitating element carried by said body and movable radially thereon relative to the axis of rotation between two fixed positions in each of which it is out of contact with said casing and comprising an inner inoperative position in which said element does not contact a surface covering undergoing cleaning and an outer operative position in which said element is adapted to contact a surface covering undergoing cleaning, means to retain said element in said inoperative position at one speed of rotation, and speed-operated means to move said element to said operative position at another speed of rotation; and operator-controlled means to rotate said agitator at either of said speeds at the operator's election.

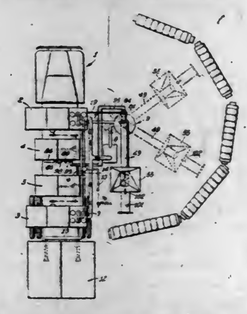
2,320,508
STABILIZER FOR CONTROLLERS OR REGULATORS
Frank Donald Burns and Warren B. Thorne, Michigan City, Ind., assignors to The Hays Corporation, Michigan City, Ind., a corporation of Indiana
Application May 16, 1940, Serial No. 335,542
7 Claims. (Cl. 50—10)

1. In combination, a floating regulator including an element responsive to fluid pressure and adapted to be actuated in response to a variable element of a process to be controlled, means for connecting said regulator with said element, an electrical power unit controlled by the pressure responsive element of said regulator, a stabilizer for said regulator comprising a fluid



pressure generator actuated and controlled solely by said power unit, means applying pressure from said generator to said pressure responsive element, whereby said fluid pressure constitutes the sole means opposing the initial actuating variation to restore said regulator to balance, and means for bleeding off said fluid pressure.

2,320,509
CONVEYING AND MIXING APPARATUS
Robert M. Cook, Los Angeles, Calif., assignor, by mesne assignments, to International Cementers, Inc., a corporation of Delaware
Application July 30, 1940, Serial No. 348,426
5 Claims. (Cl. 259—164)

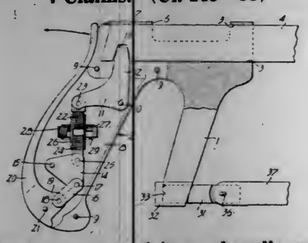


1. Apparatus for mixing cementitious material for oil well cementing operations and the like, comprising: a stationary mixing chamber having a mixing element operable therein; means for supplying liquid ingredient thereto; means for supplying dry cementitious material to the mixing chamber comprising a conveyor frame having the delivery end thereof swivelly communicating with the mixing chamber, a hopper secured to the receiving end of the conveyor frame and having an outlet communicating therewith, said hopper and conveyor frame being movable in a horizontal arc about a vertical axis adjacent the delivery end of the conveyor frame; power-operated conveyor means in said conveyor frame for transferring dry cementitious material through said frame from said hopper to said mixing chamber; stationary drive means; and flexible driving connections between said drive means and said conveyor means for driving the latter in any horizontally adjusted position thereof with respect to said mixing chamber and drive means.

2,320,510
PROCESS OF PRINTING AND ARTICLE PRODUCED THEREBY
Ralph T. K. Cornwell and Charles M. Rosser, Fredericksburg, and John A. Yourtee, Falmouth, Va., assignors to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application January 7, 1939, Serial No. 249,728
10 Claims. (Cl. 101—426)

2. The process of printing non-fibrous water-swelling pellicles comprising supporting the pellicle and printing thereon with an ink comprising an organic solvent soluble, heat-hardenable urea-formaldehyde resin, and subjecting the printed pellicle to heat to harden the resin and adhere the printing to the pellicle, whereby the printing remains adherent when the latter is immersed in water during and subsequent to drying.

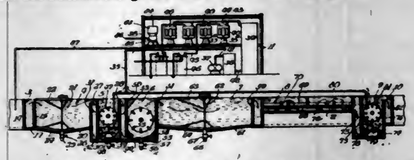
2,320,511
HACKSAW
Walter A. Curry, Oakland, Calif.
Application February 28, 1941, Serial No. 381,024
7 Claims. (Cl. 145—33)



6. A hack saw comprising; a handle and a first leg generally parallel thereto and spaced therefrom; means rigidly connecting one of the ends of said leg and handle; a second leg spaced from said first leg; a bar rigid with said second leg slidably carried by said means for reciprocating movement of said bar in opposite directions; said handle being hollow, and an element enclosed therein and pivotally supported therein for generally oscillatory movement of one end thereof; said one end of said element being connected with said bar for causing said reciprocatory movement of said bar upon said movement of said end; a lever closely alongside the side of said handle that is remote from said first leg; a pivot securing said lever to said handle for oscillatory movement of said lever; and means connecting said lever with said element for causing said oscillatory movement of said element and said reciprocatory movement of said bar upon said oscillatory movement of said lever.

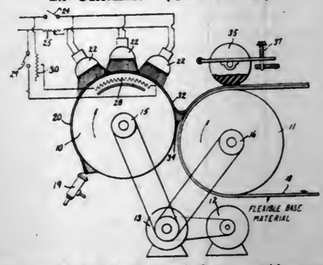
2,320,512
APPARATUS FOR AND METHOD OF TREATING AND REMOVING SUSPENDED PARTICLES IN LIQUIDS
James M. Daily, Chicago, Ill., assignor to American Ozone Company, Chicago, Ill., a corporation of Illinois
Application August 29, 1938, Serial No. 227,273
14 Claims. (Cl. 210—27)

1. An apparatus for treating liquid with particles suspended therein, comprising a tank for the liquid, a source of ozonous and electrified air under pressure, a diffuser in the tank connected to receive said air from the source and provided with minute holes therein whereby the air received by the diffuser is caused to enter the liquid in the form of minute bubbles and without producing any appreciable turbulence, and effect coagulation and flocculation of the suspended particles, and means for removing the coagulated and flocculated particles from the liquid.



12. That improvement in treating liquid with particles suspended therein which comprises first introducing into the liquid by way of pressure and without producing any appreciable turbulence numerous minute bubbles of ozonous and electrified air in order to coagulate and flocculate the particles by reaction with them, and then removing the coagulated and flocculated particles from the liquid.

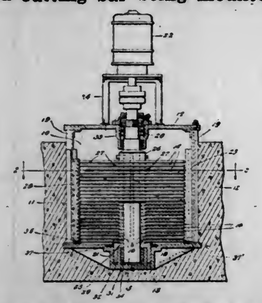
2,320,513
MACHINE FOR COATING ABSORBENT SURFACES
Folsom E. Drummond, Metuchen, N. J., assignor to New Wrinkle, Inc., Wilmington, Del., a corporation of Delaware
Original application May 16, 1940, Serial No. 335,591. Divided and this application September 24, 1941, Serial No. 412,092
12 Claims. (Cl. 91—18)



7. An apparatus for applying coating compositions onto articles in the form of a film layer comprising an endless movable member having a surface adapted to receive said coating composition in the form of a wet flowable mass, said endless surface being adapted to prevent the adherence thereto of the coating composition upon drying of the same; means for drying the coating while supported on said surface; means for removing said coating composition in the form of a film and transferring it to the article to be coated with the under side of said film in contact with the outer side of said article; means for supporting said article and simultaneously moving it parallel and in contact with said film; and means for firmly uniting the under side of said coating film and the outer surface of said article.

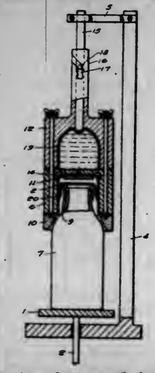
2,320,514
COMMINUTOR
Augustus C. Durdin, Jr., Lincolnwood, Ill.
Application March 10, 1939, Serial No. 261,007
8 Claims. (Cl. 210—152)

1. A comminutor comprising a series of spaced discs mounted on a driving shaft and providing slots between adjacent discs through which liquids and comminuted solids are directed by said discs to pass from an inlet side of the comminutor to the opposite side thereof, said slots being free and unobstructed on the entire inlet side of the comminutor, whereby a maximum amount of liquid may pass through the slots, the edges of said spaced discs on the inlet side of the comminutor providing means to intercept solids and semi-solids in a stream flowing to the comminutor, cutting teeth projecting from the edges of the discs, means to rotate said shaft, and a stationary notched cutting bar cooperating with said cutting teeth to reduce solids into small pieces, said cutting bar being mounted with its



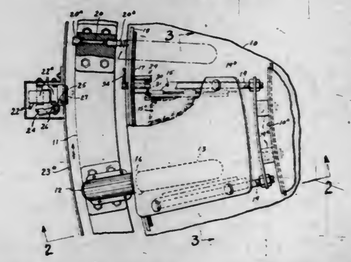
notched edge adjacent the series of disc edges, and the notches disposed in the paths of travel of the cutting teeth, in combination with side and bottom walls forming a channel through which flows a stream of liquids containing solids and semi-solids, the comminutor being interposed in the channel and substantially spanning the gap between the side walls thereof, and a portion of one side wall of the channel adjacent the comminutor being disposed approximately in the plane of the upstream side face of the cutting bar and arranged to direct the flow of liquids, solids and semi-solids along said face of the cutting bar toward its notched edge.

2,320,515
CAPPING DEVICE
Edgar S. Engle, Greensburg, Pa.
Application April 3, 1940, Serial No. 327,560
2 Claims. (Cl. 226—85)



1. A capping device for applying a covering to the top and neck of a container, comprising a container supporting member, a capping head in spaced relation to said container supporting member, said head and said member being relatively movable to and from each other, said head including a chamber adapted to receive the top and neck of the container, a guide ring about the mouth of said chamber, a rubber lining in said chamber, a second chamber adjacent said first-mentioned chamber, a resilient fluid containing member in said second chamber, a fluid passage between said resilient fluid containing element and said first-mentioned chamber, means operable on relative motion between said container supporting member and said capping head to rotate said head to fold a cap about the top and neck of the container, a plunger entering said second chamber and contacting said resilient member to deform said fluid containing member and force fluid therefrom into said first-mentioned chamber to apply fluid pressure to said rubber lining to crimp a cap onto the top and neck of the container.

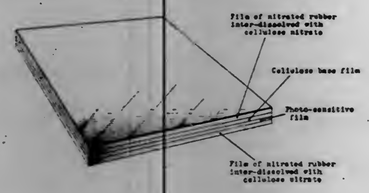
2,320,516
APPARATUS FOR TESTING THIN RUBBER ARTICLES
John R. Gammeter, Akron, Ohio
Application April 27, 1940, Serial No. 332,008
2 Claims. (Cl. 209—81)



1. Apparatus for testing hollow dielectric articles for defects, comprising a conveyor, a plurality of spaced electro-conductive forms on said conveyor for receiving thereon articles to be tested in succession, an element of electro-conductive material applicable to said forms to shape about and conform to the surfaces thereof as they are carried past the element by said conveyor, the spacing between said forms being such that there will be an interim between the passing of each successive form from cooperative relation with said electro-conductive element and cooperative relation therewith of the next succeeding form, means for maintaining a high potential of electricity between said electro-conductive element and a form in cooperative relation therewith sufficient to leap an air gap comparable to the thickness of an article on the form but of insufficient potential to pierce an article of normal thickness, shiftable elements mounted on said conveyor in association with each of said forms, each of said shiftable elements being shiftable from and toward a position in which a portion thereof extends to move along a defined path with movement of the conveyor, an elongate member shiftable to extend into said path longitudinally in the general direction thereof for engaging said shiftable elements to shift the same to positions for subsequent use as determined by testing the articles on the respective forms, means responsive to and operable by the presence of an article in predetermined condition on a form as manifested by said testing means to shift said elongate member into said defined path and thereby to engage and shift the corresponding shiftable element of the form to its position of subsequent use, and means including a part engageable by a shiftable element shifted by said elongate member for sub-

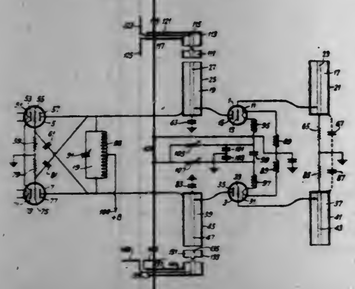
sequently resetting said last-named means and said testing means, said engageable part of said resetting means and the portion of said elongate member effectively engageable by said shiftable elements both being positioned to be engaged by the respective shiftable elements during said interims in which no form is in cooperative relation with said electro-conductive element.

2,320,517
PHOTOGRAPHIC FILM
Max Gelfand, Dallas, Tex.
Application June 12, 1940, Serial No. 340,178
6 Claims. (Cl. 88—19.5)



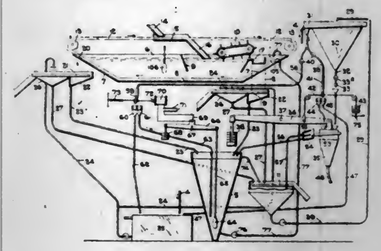
1. A photographic film having a developed photographic image coated with an adherent coating of nitrated rubber in admixture with cellulose acetate.

2,320,518
MODULATED TRANSMITTER
Roscoe H. George, West Lafayette, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application October 7, 1939, Serial No. 298,364
8 Claims. (Cl. 250—17)



5. Transmitting apparatus comprising a first tuned grid-tuned plate oscillator, said tuning being provided by open-end quarter wave length transmission lines, an open-end quarter wave length transmission line coupled to the tuned plate, means connecting said coupled transmission line to a vertically polarized antenna array, a second tuned grid-tuned plate oscillator having open-end quarter wave-length tuned transmission lines, an open-end quarter wave-length transmission line coupled to said tuned plate, means connecting said second named coupled transmission line to a horizontally polarized antenna array, a push-pull oscillator, and means including a single source of energy potential and connections from said push-pull oscillator to each of the tuned plate of the said first and second oscillators for energizing said first, said second and said push-pull oscillator.

2,320,519
APPARATUS FOR GRAVITY SEPARATION OF GRANULAR MATERIAL
Arthur Algernon Hirst, Northfield, Birmingham, England, assignor of one-half to Simon-Carves Limited, Cheadle Heath, Stockport, England
Application January 7, 1941, Serial No. 373,512
In Great Britain December 30, 1939
12 Claims. (Cl. 209—173)

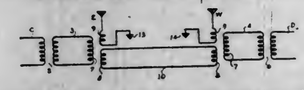


1. Gravity separation apparatus of the type specified including a separating vessel, a thickener for the dilute medium resulting from the spraying of the separated products, a conditioning vessel, means for delivering to said conditioning vessel thickened suspension from said thickener, means for delivering to said separating vessel suspension conditioned in said conditioning vessel, automatically operating means for interrupting said delivery and returning said suspension to the thickener when the density of said suspension falls below that required for delivery to the separating vessel, a counterpoise balance mechanism, means for suspending said conditioning vessel from said mechanism, a discharge conduit leading suspension liquid from said conditioning vessel, superposed chutes arranged to receive liquid from said conduit, the lower chute being associated with means whereby the liquid is conveyed to the separating vessel, and the upper chute leading the liquid back to the thickener, said counterpoise balance mechanism being adjusted so that if the density of the suspension in the conditioning vessel becomes greater than a predetermined minimum the discharge from said conditioning vessel is directed to the separating vessel, whilst if the density of the suspension becomes less than said minimum, said conditioning vessel rises and the discharge therefrom is diverted from the reserve tank.

2,320,520
NEW ARTICLE OF MANUFACTURE FOR USE AS AN INSECTICIDE AND METHOD OF MAKING
Harold E. Jennings, Chicago, Ill., and John M. Hutzel, Columbus, Ohio, assignors to Smithereen Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application August 12, 1940, Serial No. 352,270
6 Claims. (Cl. 167—17)

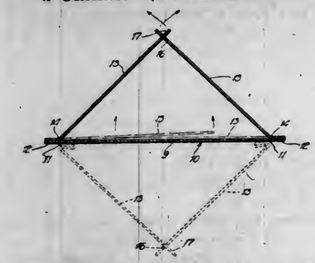
1. As a new article of manufacture, a non-melting insoluble insect control material consisting substantially completely of poisonous substance comprising a molded body of sodium fluoride and water, said body having a lacquer coating applied after molding, said lacquer coating forming an inedible, non-poisonous, non-melting, non-dusting, insoluble film thereon, said molded body having a powdery core and a relatively hard outer surface.

2,320,521
RADIO BEACON SYSTEM
Frank G. Kear, Washington, D. C., assignor to Washington Institute of Technology, Inc., Washington, D. C., a corporation of Delaware
Application February 27, 1935, Serial No. 8,541
20 Claims. (Cl. 250—11)



9. A radio beacon system comprising two non-directional antennas spaced K degrees apart, a transmission line having an electrical length of R degrees connecting said antennas, two sources of modulated radio frequency energy supplying said antennas, a bridge circuit connected to said sources and to said transmission line for dividing the currents from said sources and supplying a plurality of in-phase and a plurality of out-of-phase currents to said transmission line whereby two intersecting field patterns are radiated from said antennas, and in which $K+R \cong 180°$.

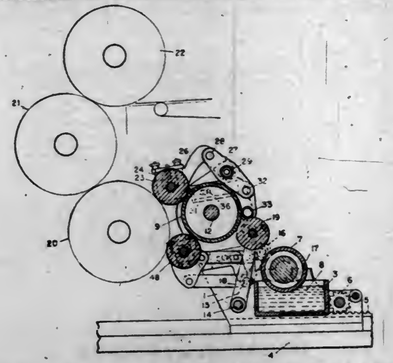
2,320,522
REVERSIBLE DISPLAY
Charles Klein, Richmond Hill, N. Y., assignor of one-half to Kindred, MacLean & Company, Inc., Long Island City, N. Y., a corporation of New York, and one-half to Arvey Corporation, Jersey City, N. J., a corporation of Illinois
Application November 27, 1941, Serial No. 420,649
2 Claims. (Cl. 40—124.1)



1. A reversible display poster comprising in combination, a rigid main display panel bearing display copy upon each of its faces, a relatively narrow extension hingedly connected to each of two opposite sides of the main display panel, and a supporting means for said main display panel, said supporting means comprising a separate support hingedly connected to each of the relatively narrow side extensions, said supports being movable upon their own hinged connections with the relatively narrow extensions to position upon one side of the main display panel and movable together with the relatively narrow side extensions about their respective hinged connections with the main display panel to position upon the opposite side of the main display panel, and means for connecting the free ends of the supports together upon either side of the main display panel to provide said supporting means.

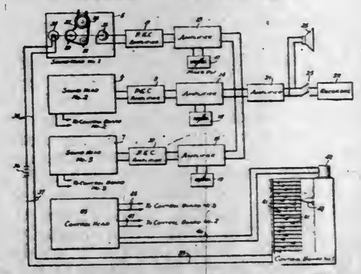
2,320,523
DAMPENING ROLL FOR PRINTING PRESSES
Joseph F. Jirousek, Cleveland, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application September 13, 1940, Serial No. 356,675
8 Claims. (Cl. 101—147)

1. In combination, a dampening or like roll for printing presses and mounting means for an end thereof comprising a bracket rectilinearly slidable in a plane normal to the axis of said roll, an extension of said bracket pivotally mounted



thereon and adapted to support an end of said roll, and means for locking said bracket and extension thereof against further movement when proper adjustment of said roll has been obtained.

2,320,524
RERECORDING
Barton Kreuzer, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application June 24, 1940, Serial No. 342,107
12 Claims. (Cl. 179—100.3)

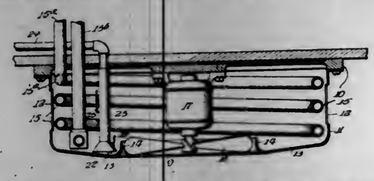


1. In combination, means for generating a plurality of electrical currents corresponding to a corresponding number of signals, means individual to each of said signal currents for the transmission thereof, a plurality of units each having a plurality of volume control elements for individually varying the generating of each of said signal currents, and pre-constructed means for automatically connecting said elements one by one for controlling said generating means in accordance with a predetermined conception of what the relative amplitudes of said currents should be before any reproduction thereof.

2,320,525
AIR CONDITIONING UNIT
Richard W. Kritzer, Chicago, Ill.
Application August 6, 1941, Serial No. 405,593
6 Claims. (Cl. 62—140)

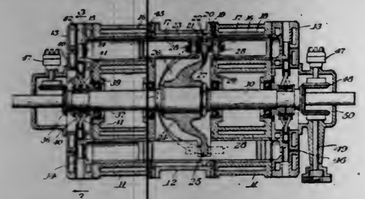
1. In an air conditioning unit, the combination with a housing provided with an inlet and an outlet for air, an evaporator for cooling the air in the housing, and a motor-driven fan associated with the housing and for forcing air therethrough, of means for retaining condensate from

the evaporator in the housing, an electric heating element for vaporizing the condensate in the retaining means, means for automatically controlling the actuation of the heating element



by the condensate in the retaining means, a conduit for conducting the vapor through the housing, and means for insulating the conduit to prevent heat transfer to the air flowing through the housing.

2,320,526
COMBUSTION ENGINE
Robert Landis, Jerome, Ariz.
Application October 27, 1941, Serial No. 416,701
1 Claim. (Cl. 123—58)

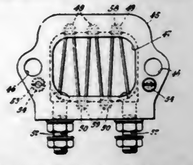


In a combustion engine having a central shaft, cylinder blocks arranged about each end of the shaft, annular cylinder heads on the outer ends of the blocks; the improvement which comprises tubular valve guides extending radially through the cylinder heads in spaced relation to each other and to the side walls of the heads, the tubular valve guides of each head being arranged in a common plane normal to the axis of the heads, a pair of the tubular valve guides being provided for each cylinder and provided at points between their ends with ports communicating with the cylinders, hollow plunger type valves disposed to reciprocate in the tubular valve guides and provided with ports movable into and out of registration with the ports in said guides, means connected to certain of the valves of each cylinder block, similar means connected to the remaining valves of each cylinder block, and means mounted on said shaft and associated with said first means for reciprocating the valves.

2,320,527
COATING COMPOSITION AND PROCESS OF PRODUCING THE SAME
Francis J. Licata, New York, N. Y., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Substituted for abandoned application Serial No. 195,120, March 10, 1938. This application January 17, 1939, Serial No. 251,311
11 Claims. (Cl. 106—178)

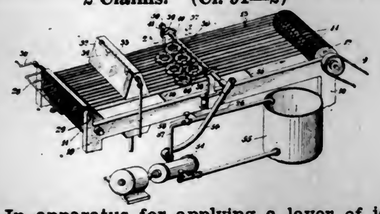
1. A process of incorporating a flatting agent into a coating composition, which comprises admixing a non-polar solvent solution containing a fluidifying agent and at least 3% of a water-insoluble soap of a saturated higher fatty acid with a composition selected from the group consisting of substantially water-free varnishes and lacquers containing an organic polar compound, whereby the soap is precipitated and dispersed within the composition.

2,320,528
HEATER FOR ENGINE MANIFOLDS
Bruno Loeffler, West New York, and John S. Pelan, North Plainfield, N. J., assignors to Mack Manufacturing Corporation, Long Island City, N. Y., a corporation of Delaware
Original application November 22, 1939, Serial No. 305,604. Divided and this application May 29, 1941, Serial No. 395,702
2 Claims. (Cl. 219—38)



1. A manifold heater comprising an insulated gasket having a centrally located aperture adapted to be fitted between a manifold and a cylinder head, said gasket being divided in a plane substantially at a right angle to the axis of said aperture to form two frame members, recesses in the inner periphery of said gasket extending into each of said frame members, a heater element in the form of a ribbon of material having sections spaced apart and extending across said aperture from one side of said gasket to the other with the terminal portions of said sections received in said recesses and having the broad faces of the ribbon extending generally parallel to the axis of the aperture.

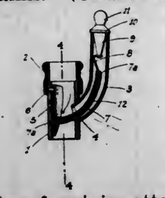
2,320,529
PASTRY ICING APPARATUS
John MacManus, Yonkers, N. Y., assignor to Cushman's Sons Inc., New York, N. Y., a corporation of New York
Application August 2, 1940, Serial No. 349,611
2 Claims. (Cl. 91—2)



1. In apparatus for applying a layer of icing to pastry products and having a travelling conveyor for carrying pastry products and means for driving said conveyor, the combination comprising means mounted above said conveyor for forming a relatively thin sheet of icing, said forming means comprising a conduit extending transversely of said conveyor and provided with a slot extending longitudinally thereof at its under portion for discharging icing in ribbon form over the pastry products carried by said conveyor, means within said slotted conduit for insuring uniform pressure throughout the length of the longitudinal discharge slot, said means comprising a perforated member separating the discharge conduit into two compartments, one of said compartments being in communication with the ingress side of the conduit and the other of said compartments being in communication

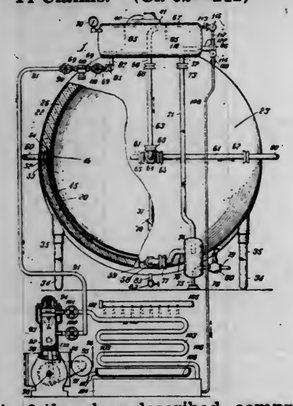
with the discharge slot, a source of supply of icing, and pump means for maintaining a continuous flow of icing from said source of supply to said first-named compartment, through the second-named compartment and through the discharge slot in said conduit.

2,320,530
SANITARY DRINKING FOUNTAIN
Homer A. Mead, Turlock, Calif.
Application May 26, 1941, Serial No. 395,186
8 Claims. (Cl. 299—9)



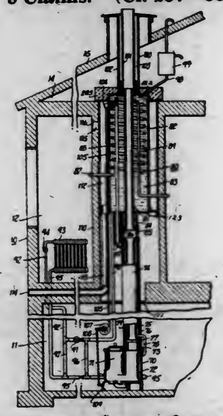
1. In a drinking fountain attachment for a faucet having an open ended passage member adapted to depend from the faucet, and to be coupled to the faucet in watertight relationship whereby water may flow from the faucet and through the member to the lower end thereof and a spout connecting with and upstanding from the member on one side thereof; means to control a flow of water from the faucet through the member to its lower end and alternately from the faucet and into the spout; the spout at its point of connection with the passage member projecting at the top into the same to form a water deflecting lip.

2,320,531
VAT
Timothy Mojonnier, Oak Park, Ill., assignor to Mojonnier Bros. Co., a corporation of Illinois
Application January 9, 1942, Serial No. 426,162
14 Claims. (Cl. 62—141)



1. A vat of the class described, comprising an inner cylindrical shell and an outer cylindrical shell, spaced apart, the axes of the cylinders being coincident and extending downward and forward so as to give the bottom of the vat a downward and forward inclination, a series of arcuate angle members between said shells bearing against the inner shell, said members providing a series of arcuate tubes for conducting a refrigerant, an inlet header for the tubes located in the lower half of said vat and between said shells and having its interior communicating with the interiors of said tubes through small openings, said inlet header being inclined downward from the horizontal, an outlet header for the tubes also located between said shells but at a higher level than said inlet header and having its interior communicating with the interiors of said tubes through large openings, an inlet pipe communicating with said inlet header, an outlet pipe communicating with said outlet header, insulation within said outer shell about said tubes and headers, refrigerating means operative to introduce the refrigerant to said tubes through said inlet pipe and inlet header and to withdraw the same therefrom through said outlet header and outlet pipe, means for variously setting said refrigerating means to provide the refrigerant at different degrees of refrigeration, and a blow-off cock communicating with the lower portion of said inlet header.

2,320,532
HEATING SYSTEM
Carl Georg Munters and Martin Hedmark, Stockholm, Sweden
Application May 9, 1940, Serial No. 334,158
In Sweden July 17, 1937
8 Claims. (Cl. 237—56)



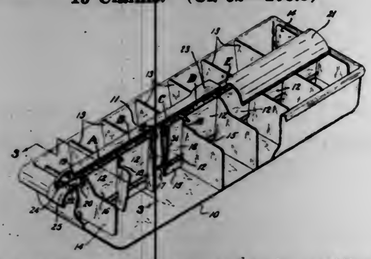
2. In a heating system, a furnace, a flue providing a path of flow for hot gas from said furnace, said flue including a plurality of hollow members joined together for flow therethrough of gas, an individual liquid jacket surrounding each of said members and said furnace, a conduit connecting adjacent jackets for flow therebetween of liquid, the conduit which connects the uppermost of said jackets with the jacket next below communicating with said uppermost jacket adjacent to the upper end thereof, a heating coil disposed in said uppermost jacket, means for introducing water to be heated into the lower end of said coil, means to withdraw heated water from the upper end of said coil, and a conduit connecting the lower part of said uppermost jacket with the jacket surrounding said furnace.

2,320,533
ARTIFICIAL GLASS
Irving E. Muskat, Maxwell A. Pollack and Franklin Strain, Akron, and William A. Franta, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application February 8, 1940, Serial No. 317,873
5 Claims. (Cl. 117—139)

1. An artificial glass which comprises a trans-

parent rigid thermoplastic resin sheet which is surfaced with a film of a substantially infusible and insoluble polymer of an ester containing at least two unsaturated groups derived from an acid of the group consisting of acrylic and alpha substituted acrylic acids, said film being of a thickness not substantially greater than 0.002 inch.

2,320,534
REFRIGERATION
Ralph C. Osborn, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 21, 1938, Serial No. 236,267
15 Claims. (Cl. 62—108.5)



1. A grid assembly adapted to be positioned in an ice tray, said grid assembly comprising rigid longitudinal and lateral grid members suitably secured together in such manner as to divide an ice tray into a plurality of compartments when placed therein, U-shaped members of flexible material secured to said longitudinal grid member between each pair of lateral grid members and means for flexing said flexible U-shaped members.

2,320,535
CONDITION RESPONSIVE CONTROL DEVICE
Henry Ferdinand Peterson, Rockford, Ill.
Application April 3, 1942, Serial No. 437,558
3 Claims. (Cl. 200—137)

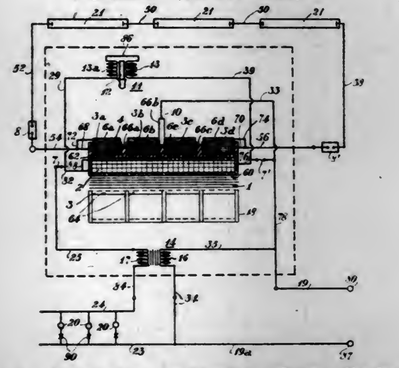


1. A condition responsive instrument having, in combination, a switch, a casing enclosing said switch, a member projecting through a wall of said casing and movable in and out to actuate the switch, a flexible element supported by said casing and stretched around said member to move the latter in and out during contraction and expansion of the element in a direction transversely of the direction of movement of said member, and means mounted on said casing and selectively adjustable to vary the tension on said element and thereby change the control point of the instrument.

2,320,536
METHOD OF COATING
Maxwell A. Pollack, Franklin Strain, and Irving E. Muskat, Akron, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application December 19, 1939, Serial No. 310,032
4 Claims. (Cl. 117—65)

1. A method of preparing a coated sheet of a thermoplastic resin which method comprises partially polymerizing in the presence of organic peroxides a compound having two polymerizable unsaturated groups separated by at least one oxygen linkage, interrupting the polymerization before the polymer is converted into an infusible and insoluble gel, separating the partial polymer from unpolymerized compound, dissolving the partial polymer in a suitable solvent, applying a continuous film of the solution to a sheet of said thermoplastic resin, drying the sheet by evaporating the solvent, completing the polymerization by heating between smooth surfaces in the presence of organic peroxides.

2,320,537
CIRCUIT FOR CORRECTING PHASE DISPLACEMENT
Evaristo Santos, Avellaneda, Argentina
Application July 16, 1941, Serial No. 402,633
In Argentina July 18, 1940
3 Claims. (Cl. 176—124)

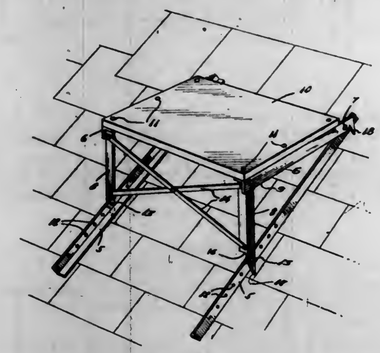


1. A circuit for correcting phase displacement, comprising in combination a plurality of gaseous discharge tubes connected in series; a load line comprising a pair of wires across which a load is connected; a transformer comprising a primary winding and a secondary winding superimposed on the primary winding, the ends of which secondary winding are connected with the ends of the series of discharge tubes; a voltage boosting device comprising two windings; and a compensating device comprising an adjustable core and two coils arranged around said core and connected in series; one end of the primary transformer winding being connected directly to a first wire of a supply line and being also connected through a first one of the windings of the voltage boosting device to a second wire of a supply line, the other end of the primary transformer being connected through a second one of the windings of the voltage boosting device to one of the load line wires, the other wire of which load line is connected to the mentioned second supply line wire, and the ends of the series of coils of the compensating device being connected across the said primary transformer winding.

2,320,538
ROOF SHINGLING SEAT
William Blaine Vogt, Herald, Calif., assignor of one-half to Eli A. Strehlow, Sacramento, Calif.
Application February 19, 1941, Serial No. 379,691
1 Claim. (Cl. 304—20)

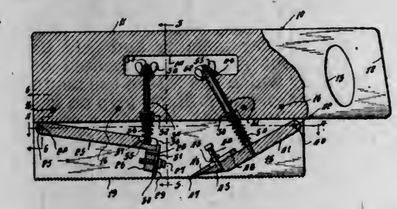
In a roof shingling seat, a seat-board opposed

base bars, and support means for and connected to the seat-board comprising seat-board supporting bars pivoted adjacent one end thereof to the base bars and provided, respectively, at said one end with integral pointed anchoring prongs, and angle iron legs pivoted at one end thereof to said seat-board supporting bars, and each of said legs having adjacent the free end thereof one flange provided with a notch to ac-



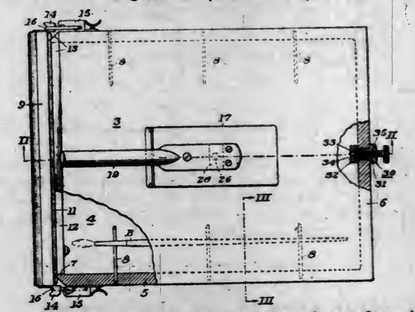
commodate a supporting bar and a second flange thereof extended longitudinally beyond said notch and having an edge thereof biased to provide at the extremity of the second flange, an anchoring point; and interengaging means on the supporting bars and the point-equipped ends of the second-named flanges of said legs for adjustably, pivotally connecting said legs to said supporting bars.

2,320,539
DADO AND GAIN SAWS
John P. Weddle and Joe W. Meyers, Weleetka, Okla.
Original application February 21, 1940, Serial No. 320,214. Divided and this application February 6, 1941, Serial No. 377,743
5 Claims. (Cl. 145—31)



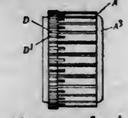
1. A dado saw comprising an elongated frame, saw blades arranged one on each side thereof, said saw blades having depending, cutting edges disposed beneath the lower edge of the frame, levers each pivotally connected to the saw blades at an end thereof and disposed therebetween below said frame, a gouging bit detachably and adjustably connected to one of said levers, a cutting bit detachably and adjustably connected to the other of said levers and disposed behind the gouging bit, and means connecting said levers to the saw frame and provided with spring means in conjunction therewith for adjustably and yieldably mounting the gouging bit and cutting bit between and adjacent the cutting edges of the saw blades.

2,320,540
ARTIST'S PALETTE CASE
Arthur R. Weissflog, Pittsburgh, Pa.
Application June 25, 1940, Serial No. 342,273
1 Claim. (Cl. 21—61)



An artist's accessory of the class described comprising a relatively thin flat casing having an interior chamber of a size and dimension to receive an artist's palette, said casing having a removable air-tight closure therefor of a dimension such as to permit the insertion and removal of a palette, the closure being co-extensive with the full width of the casing, means for removing oxygen from within the casing, said means comprising a pump mounted directly on the exterior of the casing for exhausting air from the interior thereof, a manually operable release valve for admitting air to the chamber, and means within the chamber for preventing one surface of the palette from contacting the opposite wall of the chamber.

2,320,541
COMMUTATOR FOR DYNAMOELECTRIC MACHINES
Cecil Burnham Wilson, Greenford, England, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application April 10, 1941, Serial No. 387,847
In Great Britain May 30, 1940
10 Claims. (Cl. 171—320)



5. A method of manufacturing a commutator for a dynamo-electric machine which consists in forming a metal ring with a number of inwardly projecting radial ribs, inserting a tool into each end of the ring so that each tool engages all the ribs for approximately half their length, then turning the tools in opposite directions to distort the ribs so that they are all similar in shape but no longer radial to the ring, embedding the ribs so distorted in a mass of insulating moulding material and subsequently, after the moulding material has set, slotting the ring between the ribs to form separate commutator segments.

2,320,542
MEANS FOR REMOVING ICE CUBES FROM FREEZING TRAYS
William S. Wright, Newark, Ohio, assignor to The Hoover Company, Canton, Ohio, a corporation of Ohio
Application November 29, 1937, Serial No. 177,161
5 Claims. (Cl. 62—108.5)

1. In combination with a freezing tray, a grid

having a longitudinal partition removably supported therein, transverse partitions vertically movably carried by the longitudinal partition and extending above the longitudinal partition, and



an operating bar carried by the grid and separable therefrom, said bar being adapted to be passed through the extensions of the transverse partitions and adapted to vertically move the same on the longitudinal partition.

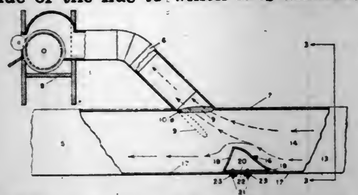
2,320,543
WIRE ROPE CLAMP AND SOCKET
Reginald A. Doughty, Abilene, Tex.
Application October 31, 1941, Serial No. 417,223
4 Claims. (Cl. 287—78)



1. In a cable socket and clamp, the combination of a sectional body adapted to be threadedly connected at its midsection, a longitudinal conical bore in the upper section, a set of slips, each having their inner faces spirally grooved to receive the individual spiral strands of a cable, operatively arranged in the said bore, a spring extending into the said bore engaging the lower ends of the said slips normally urging the same into the said bore and means in the upper end of the said body adapted to engage the upper ends of the said slips to dislodge the same from the said bore.

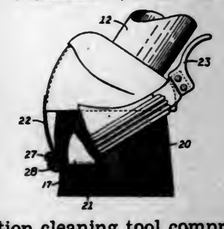
2,320,544
COTTON SAMPLER APPARATUS
George E. Gaus, Washington, D. C., and Charles A. Bennett and Askew G. Ross, Stoneville, Miss.; dedicated to the free use of the people in the territory of the United States
Application July 30, 1941, Serial No. 404,626
2 Claims. (Cl. 19—156)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination with a cotton lint flue having a duct tapped in at one side of said flue sloping in the general forward direction of travel of the cotton lint through the flue, a hinged closure valve in said flue adjacent the mouth of said duct, and means operated from the exterior of the flue for actuating said valve, said valve being streamlined in the direction of flow of the cotton lint through the flue, bat-forming means subjoined to said duct, a baffle within the flue attached to the side thereof opposite said duct having its rearward end substantially tangent to the side of the flue to which it is attached and



its forward end projecting in the general direction of said duct so as to deflect and traject cotton lint passing through the flue toward said duct, and means for changing the position of said baffle in a forward and rearward direction.

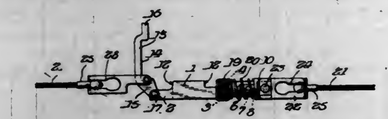
2,320,545
SUCTION NOZZLE
Adrian E. Ross, Stamford, Conn., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application February 24, 1941, Serial No. 380,219
5 Claims. (Cl. 15—158)



1. A suction cleaning tool comprising a hollow body having an outlet adapted to be connected to a tube leading to a source of suction and having an inlet to which is attached a tubular member of resilient material, a band of brush bristles surrounding the inlet mounted on the body member and extending beyond said tubular member, the axis of said band being inclined to the axis of a tube connected to said outlet, a ring pivotally mounted on said body member and extending around said tubular member and said band of bristles, the pivot point being located on that side of the body which lies within the acute angle between said axes, and a finger grip on said ring adjacent said pivot point extending away from said body member adapted to be grasped by that hand of an operator in which the tool is held, said ring when pivoted from normal position into a second position engaging a portion of said bristle band between said tubular member and said ring.

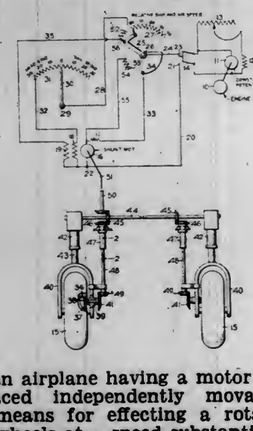
2,320,546
DETACHABLE CLEVIS
Henry G. Shakespeare, Kalamazoo, Mich., assignor to Shakespeare Products Company, Kalamazoo, Mich., a corporation of Michigan
Application November 18, 1941, Serial No. 419,607
6 Claims. (Cl. 24—68)

4. A device of the character described, comprising a body, spaced longitudinal bearing fingers on one end thereof, a longitudinal extension on its opposite end, a part of said extension having one side flattened, a latch lever pivoted between the bearing fingers having a seat formed in its inner side inwardly of its pivoting and its free end portion receivable, at times, upon the flattened side of said extension, and means on



the extension lockingly engageable with the free end portion of the latch lever when received upon said flattened side.

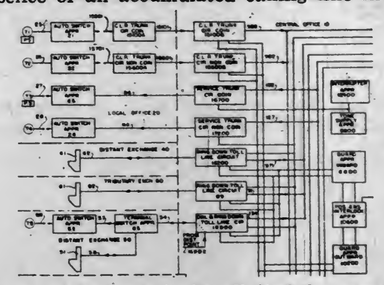
2,320,547
LANDING WHEEL ROTATING DEVICE FOR AIRPLANES
Roy L. Tiger, Boulder, Colo.
Application January 30, 1942, Serial No. 428,929
12 Claims. (Cl. 244—103)



1. In an airplane having a motor and at least two spaced independently movable landing wheels, means for effecting a rotation of the landing wheels at a speed substantially equal to the relative plane and ground speed at landing, comprising a variable speed electric motor operatively connected with each wheel, a source of electric current carried by the airplane, said current supply being connected with the motors to effect rotation of the wheels, and two separate speed control means, one being adjustable in response to relative plane and air speed and the other to relative air and ground speed in the direction of landing, for controlling the rotation of the wheels in accordance with said variables to obtain a peripherial speed substantially equal to the relative plane and ground speed at the time of landing.

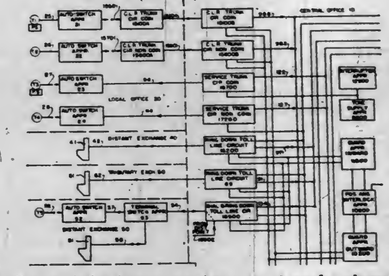
2,320,548
TELEPHONE SYSTEM
John H. Voss, Downers Grove, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application May 31, 1941, Serial No. 396,237
209 Claims. (Cl. 179—27)

1. In a telephone system, a plurality of groups of lines, switching apparatus having access to said lines, an allotter operating through a given cycle to allot to said switching apparatus only one calling line in each of said groups accumulated during a prior cycle or cycles of operation thereof, means for accumulating calling lines in each of said groups appearing during said given cycle of operation of said allotter to be allotted during a subsequent cycle or cycles of operation of said allotter, and means controlled by the presence of an accumulated calling line in any



one of said groups to be allotted for operating said allotter.

2,320,549
TELEPHONE SYSTEM
John H. Voss, Downers Grove, and Frank Kessler, Villa Park, Ill., assignors to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application May 31, 1941, Serial No. 396,238
60 Claims. (Cl. 179—27)



1. In a telephone system, a trunk circuit, a first trunk extending to said trunk circuit and including two line conductors and a control conductor, a second trunk extending from said trunk circuit, an operator position having access to said first trunk, a register sender associated with said operator position, switching apparatus associated with said second trunk, means controllable from said operator position for connecting said operator position to said first trunk and for applying a holding potential to the control conductor of said first trunk, means included in said trunk circuit and responsive to the application of a holding potential to the control conductor of said first trunk for controlling said switching apparatus over said second trunk, whereby said switching apparatus is conditioned to receive switch directing signals, means included in said trunk circuit and controlled over said second trunk in response to the conditioning of said switching apparatus for applying a ready potential to one of the line conductors of said first trunk, means controllable from said operator position for registering switch directing signals in said register sender and for connecting said register sender to said first trunk, means included in said register sender and responsive jointly to a switch directing signal registration therein and the application of a ready potential to the one line conductor of said first trunk for operating said register sender to send over the other line conductor of said first trunk the registered switch directing signal or signals, and means included in said trunk circuit for repeating over said second

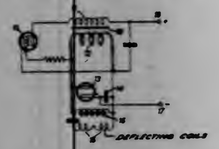
trunk to said switching apparatus a switch directing signal received over the other line conductor of said first trunk.

2,320,550
WELL DRILLING BIT
Charles L. Allen, Portland, Oreg., assignor of two and one-half per cent to Earl Brunk, Salem, Oreg.
Application June 24, 1940, Serial No. 342,067
2 Claims. (Cl. 255—27)



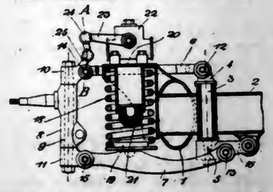
1. In self feeding bits, the combination of a drill bit, a drill bit shaft having threads formed upwardly thereupon, a suitable piston mounted on the uppermost top end of said shaft, said piston, shaft and bit being hollow through their central portion to allow circulating fluids to pass therethrough downwardly, a drill pipe having a nut solidly mounted therein, said nut having engaging threads to threads on said shaft, a suitable packed, bearinged head around said shaft mounted solidly in the lower end of said pipe, and a check valve mounted in said pipe above said piston to restrict the upward flow of circulating fluids on the upward stroke of said piston and thereby feeding circulating fluids through said bit.

2,320,551
RELAXATION OSCILLATOR
Herbert Bähring, Klein-Machnow, Germany; vested in the Alien Property Custodian
Application March 20, 1941, Serial No. 384,336
In Germany March 13, 1940
6 Claims. (Cl. 250—27)



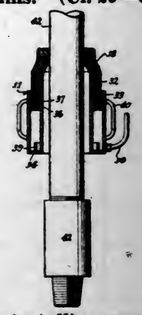
6. Saw tooth current generator including a transformer with ferromagnetic core, a discharge tube having an anode, a cathode and a grid, a primary coil on said core connected to said anode, a secondary coil on said core, a diode arranged in parallel to said secondary winding, deflecting coils lying in parallel to said secondary winding, an additional winding on said ferromagnetic core connected to the cathode of the discharge tube and a high alternating current resistance connected to the deflecting coils and said additional winding.

2,320,552
SHOCK ABSORBER ARRANGEMENT, ESPECIALLY FOR MOTOR VEHICLES
Max Balz, Esslingen-on-the-Neckar, and Rudolf Kosche, Stuttgart-Unterturkheim, Germany; vested in the Alien Property Custodian
Application February 17, 1939, Serial No. 256,838
In Germany July 22, 1938
12 Claims. (Cl. 267—20)



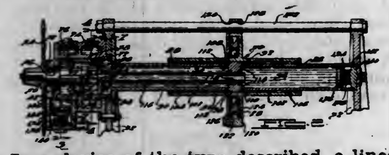
1. A shock absorber arrangement for motor vehicles in which the whels are guided by a closed link system and cushioned by helical springs which bear on the one hand against the lower link and on the other hand against a spring abutment arranged on the chassis, comprising an arrangement of the shock absorber on the spring abutment independently of the guide links of the wheel and being actuated by a rod system which is connected to one of the links, the links forming the closed link system being mounted on a vertical pivot pin yieldably mounted on a cross chassis member in such a manner that the longitudinal chassis member and also the spring abutment serving as support for the helical spring and as fixation for the shock absorber and rigidly connected to the chassis member extend through the closed link system, the upper guide link being connected to a link pin by means of a hinge piece to which the rod system actuating the shock absorber is also hingedly connected at the same time.

2,320,553
MEANS FOR POSITIONING EXPANSIBLE COLLARS ON PIPE OR THE LIKE
Byron H. Barnes, San Marino, and Burt S. Minor, Whittier, Calif., assignors, by mesne assignments, to B. H. Barnes and Harriet C. Barnes, both of San Marino, Calif.
Application July 25, 1939, Serial No. 286,410
2 Claims. (Cl. 29—88.2)



1. A device for installing an expansible rubber collar on a member of greater external diameter than the normal bore of the collar comprising an open-ended sleeve having an unobstructed bore of substantially uniform diameter extending from end to end of the sleeve and being of greater internal diameter than the diameter of the member to which the collar is to be applied so as to completely slip over said member, said member being substantially longer than the length of the sleeve and said sleeve being movable to any position on the member, said sleeve having a concentric spaced outer wall connected to one end of the sleeve by an annular end wall and forming in cooperation therewith an annular cylinder, said sleeve being adapted to receive an expanded rubber collar, said outer wall being sufficiently spaced so as not to obstruct the reception of an expanded rubber collar on said sleeve, an annular piston in the cylinder space between the outer wall and the sleeve and engaging one end of the collar, said outer wall being of sufficient length to permit the piston moving within it to a point where the collar is moved far enough off the sleeve to permit the collar to engage said member and draw itself off said sleeve by its contraction, and means for admitting fluid under pressure to the cylinder space behind said piston for moving the piston to force the collar off of said sleeve and on to said member.

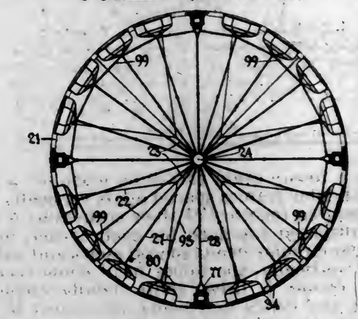
2,320,554
HYDRAULIC SPOOLING DEVICE
Edward R. Barrett, Detroit, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application January 26, 1942, Serial No. 428,155
14 Claims. (Cl. 242—158)



1. In a device of the type described, a linearly movable element, a rotatable element, and means for moving said first-named element in a linear path in response to rotative movement of said second-named element, said last-named means including an hydraulic fluid displacement system, said system including a casing containing separate supplies of fluid, piston means disposed within said casing for reciprocation and rotation therein to displace fluid within said casing in opposite directions therein, means forming opposite fluid chambers associated with said first-named element, and means communicating said separate supplies of fluid with said opposite fluid chambers, respectively, and means operatively connecting said rotatable element with said piston to rotate and reciprocate said piston upon rotation of said rotatable element.

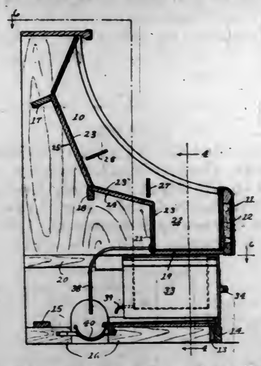
8. A power winch construction comprising, in combination, a spool having a cable wound thereabout, driving means for rotating said spool, a reciprocable guide element having a cable receiving guide portion and movable longitudinally of said spool between the ends thereof, a rotatable element, means operatively connecting said rotatable element with said driving means for synchronous rotation therewith, and means for reciprocating said guide element in response to rotation of said rotatable element, said last named means including an hydraulic fluid displacement system, said system including a casing containing separate supplies of fluid, piston means disposed within said casing for reciprocation and rotation therein to displace fluid within said casing in opposite directions therein, means forming opposite fluid chambers associated with said first named element, and means communicating said separate supplies of fluid with said opposite fluid chambers, respectively, and means operatively connecting said rotatable element with said piston means to rotate and reciprocate said piston means upon rotation of said rotatable element.

2,320,555
AMUSEMENT APPARATUS
Norman Bartlett, North Tonawanda, N. Y., assignor of one-half to Marjorie Bartlett, North Tonawanda, N. Y.
Application January 22, 1941, Serial No. 375,478
8 Claims. (Cl. 272—36)



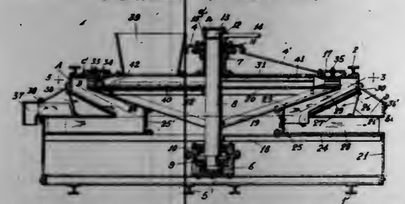
1. In amusement apparatus, a circular track, a plurality of wheels adapted to roll around said track, a framework mounted for rotation about an upright axis disposed centrally of the track and including an axle for each wheel, a passenger carriage associated with each wheel for rotation about the axis of rotation of the wheel, friction clutch means associating each wheel and carriage and engageable while the latter are relatively rotating, said clutch means when engaged tending to secure the wheel and carriage for movement as a unit about the axis of rotation of the wheel.

2,320,556
DISPLAY AND STORAGE CASE
Charles F. Belshaw, Greenville, Mich.
Application July 15, 1941, Serial No. 402,532
4 Claims. (Cl. 312—171)



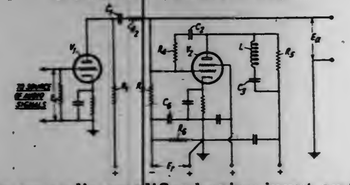
1. A structure of the class described comprising a pair of spaced vertically disposed end members, a horizontally disposed trough interposed between the end members adjacent their forward vertical edges, an upwardly and rearwardly inclined shelf interposed between the end members whose forward portion is disposed above the upper portion of the rear wall of the trough, a wall interposed between the end members above the shelf adjacent its forward portion, a drawer disposed below the trough, a drain gutter disposed rearwardly of the drawer, and conduits communicating with both the trough and drawer leading to the gutter.

2,320,557
ROTARY GRAIN THRESHING MACHINE
John L. Betzen, Wichita, Kans.
Application October 26, 1942, Serial No. 463,331
3 Claims. (Cl. 130—27)



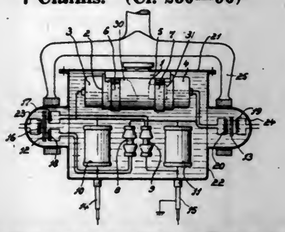
1. In a rotary grain threshing machine, a pair of rectangular frames spaced apart vertically and being secured together at their corners by a vertically disposed standard for each corner, upper and lower circular heads spaced apart and axially aligned vertically, the upper head being secured to the frame, a drive shaft axially engaging through the heads and being journalled in the frame, the lower head being secured to the drive shaft and rotatable therewith, a series of webs spaced around each confronting side of the heads to pre-thresh grain, and an annular toothed element carried by the confronting sides of said heads and being external of the webs for final threshing of the grain, one of said elements being adjustably carried by its head, there being an annular V-shaped channel, the legs of which are formed by upper and lower plates to receive the grain as finally threshed, the channel structure rotatable with the lower head, and an annular vertically disposed wall carried by the channel structure to join the inner peripheral edges of the plates, said wall having openings there through and spaced therearound, and an annular plate apertured in registry with the wall to slidably engage to open and close the opening in the wall, a screen carried at the lower side of the upper leg of the V-shaped channel through which the grain will pass as separated from chaff and straw, the straw and chaff being discharged outward through the lower leg of the channel, and means to receive the grain as it passes through the screen.

2,320,558
AUDIO BAND WIDTH CONTROL
Heinz Boucke, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application April 3, 1941, Serial No. 386,653
In Germany January 16, 1940
6 Claims. (Cl. 179—171)



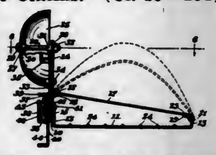
1. In an audio amplifier having input and output terminals, an impedance element across the output terminals, an impedance simultation tube having input electrodes connected across said element whereby the input tube resistance between said input electrodes is effectively in shunt with said impedance element, a resonant circuit tuned to a predetermined audio frequency in circuit with the tube output electrodes to cause the input resistance to have a desired freqency response characteristic, and means for varying the tube gain thereby to vary solely the magnitude of the input resistance.

2,320,559
X-RAY TUBE
Albert Bouwers, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application January 15, 1941, Serial No. 374,582
In the Netherlands October 6, 1939
7 Claims. (Cl. 250—90)



1. In an X-ray apparatus, an X-ray tube comprising an evacuated envelope, a cathode and an anode within said envelope, said envelope comprising a metal wall portion electrically insulated from and extending beyond the ends of the anode and absorbing substantially all of the heat generated thereby, a metal container enclosing the X-ray tube, an insulating fluid in said container and metallic heat transmitting means directly conducting substantially all of the heat absorbed by said wall portion to said container.

2,320,560
TOY
Allard A. Braddock, Evanston, Ill.
Application March 24, 1941, Serial No. 384,826
6 Claims. (Cl. 46—191)



1. In a device of the class described, a frame adapted for association with a person's foot, a bell fixedly mounted upon said frame, a striking lever pivotally mounted upon the frame and having a hammer arm, a spring connected to said striking lever and to the frame for normally positioning the hammer arm out of contact with the bell, an actuating lever fulcrumed on the frame and having a depending leg adapted to contact the tread surface for reciprocating said actuating lever during the lowering and raising movements of the person's foot, said actuating lever being operatively associated with the striking lever for moving the hammer arm farther away from the bell and tensioning said spring and ultimately releasing the striking lever during the lowering movement of the person's foot, said spring thereupon moving the striking lever so that its hammer arm contacts the bell and finally returning the striking lever to its normal position.

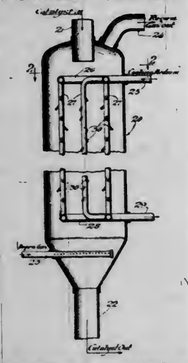
2,320,561
CIGARETTE HOLDER
James Henry Brady, Louisville, Ky., assignor of one-half to William E. Curry, Sunset Harbor, Fla.
Application July 16, 1941, Serial No. 402,662
1 Claim. (Cl. 131—257)

A cigarette holder, comprising a flat sheet of material having a shape such that one end portion thereof is of greater width than the other end portion, said other narrow end portion having a circular aperture of a diameter corresponding to that of a cigarette, the mass of the wide end portion of the holder being greater than the combined mass of the narrow end portion and the cigarette held within said aperture,



whereby when the wide end portion of the holder is supported upon a surface and the narrow end portion and the cigarette held within said aperture positioned in the space adjacent the edge of said surface, the greater mass of the wide end portion will support the combined mass of the narrow end portion and the cigarette in such position.

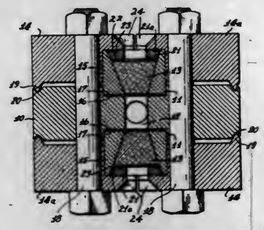
2,320,562
REGENERATION APPARATUS
David W. Bransky, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 20, 1940, Serial No. 370,943
7 Claims. (Cl. 23—288)



4. In combination, a vessel adapted to hold a bed of a comminuted material, means for introducing said material into the upper portion of said vessel and removing it from the lower portion thereof, means for introducing an oxygen-containing gas into the lower portion of said vessel, means for removing combustion products from the upper portion of said vessel, a plurality of horizontally spaced tubes mounted substantially vertically within said vessel, means for supplying a cooling fluid to each of said tubes, means spaced along each of said tubes for allowing said fluid to flow from the interior of said tubes to said bed of comminuted material, and valve means associated with each of said spaced means adapted to open only when the temperature in the vicinity thereof exceeds a predetermined value.

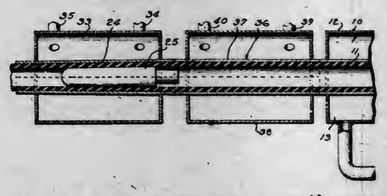
2,320,563
LIQUID LEVEL GAUGE
Harry E. Brelsford, Birmingham, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application February 5, 1940, Serial No. 317,301
1 Claim. (Cl. 73—330)

A gauge comprising a solid gauge glass body member having a longitudinal opening therethrough adapted for connection at each end to a boiler and having recesses on opposite sides thereof each adapted to receive a gauge glass, each glass being of trapezoidal cross-section with its small base exposed to the interior of said body member, a two-part retaining means for each of said glasses having fulcrum means near its perimeter coactive with a fulcrum mating means on said body member, said retaining means each



being bolted to said body member and having a sidewall substantially coplanar with a sidewall of one of said recesses and having a shoulder portion overhanging said glass, a solid pressure member trapezoidal in cross-section between each of said shoulder portions and the bottoms of the underlying recesses, and a metallic secondary pressure member between the outer end of each of said shoulders and said gauge glasses.

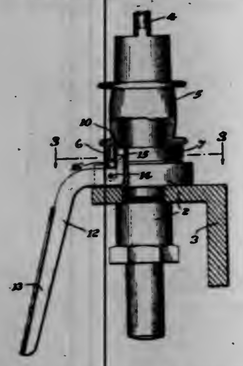
2,320,564
METHOD AND APPARATUS FOR MANUFACTURING TUBING
Raymond Orley Brooks, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application February 2, 1942, Serial No. 429,326
11 Claims. (Cl. 18—6)



1. The method of forming a continuous tube of vulcanizable material which comprises progressively curing predetermined lengths of uncured stock by successively introducing the predetermined lengths of stock into an elongated vulcanizing chamber and by heating the stock while in the vulcanizing chamber, and cooling the portion of the stock adjacent the entrant end of the chamber during the curing operation.

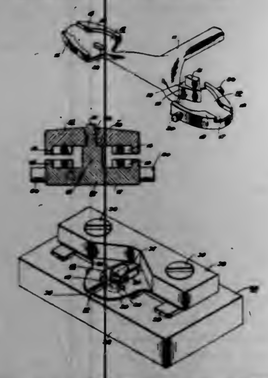
8. In apparatus for vulcanizing tubular stock, a vulcanizing chamber having an elongated tube open at both ends and adapted to receive successive lengths of stock as the latter is moved step by step through the tube, means operating during the intervals of rest of the stock for creating a difference in pressure between the interior of the tube and the interior of the stock in the tube with a preponderance of pressure in the stock to urge the latter outwardly into intimate contact with the inner surface of the tube, means for circulating a heated fluid around the tube in heat conducting relation therewith during the intervals of rest of the stock to vulcanize the length of stock in the tube, and means for circulating a cooling medium around the tube subsequent to the completion of each curing operation.

2,320,565
SPINDLE BRAKE MECHANISM
Deane A. Cabot, Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application March 7, 1942, Serial No. 433,771
2 Claims. (Cl. 57—88)



1. In a spindle structure, the combination with a spindle blade, a whirl secured fast thereon and a base in which said blade is mounted for rotation, of a brake ring resting on the horizontal surface of a portion of said base and encircling an extension of said base projecting upwardly above said surface, said ring being positioned within the skirt of said whirl and having opposed ends spaced apart at the forward side of said structure, the end portions of said ring adjacent to said ends being bent backwardly, a wedge positioned between said opposed ends of the ring, and a lever at the forward side of said structure, fulcrumed on said base, and having an end portion engaging said wedge to move it backward and forward between said ends of the ring.

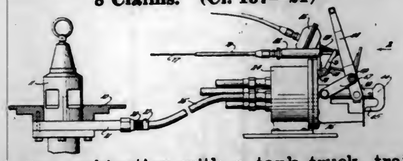
2,320,566
METHOD OF AND BLANK FOR MAKING SLIDE FASTENERS
Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application January 17, 1941, Serial No. 374,891
8 Claims. (Cl. 29—148)



1. A blank for making die cast sliders for slide fasteners comprising an integral die cast gate including a pair of slider-forming members having complementary connecting means providing permanent connection therebetween when subjected to heat and pressure, said members being connected by an integral severable sprue, and said connecting means comprising an aperture in one slider-forming member and an integral wedge member on the other member having a reduced extension expansible in said aperture upon application of heat and pressure fixedly to secure said slider-forming members in predetermined spaced relation.

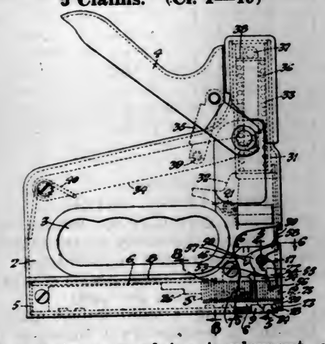
3. A method of making die cast sliders for slide fasteners comprising die casting slider-forming blanks comprising pairs of slider-forming members connected by severable sprues, while forming complementary interengageable connecting means on the members of each pair, severing the sprues from complementary pairs of said slider-forming members, assembling severed pairs of slider-forming members with their connecting means interengaged, and connecting the assembled slider-forming members permanently together by application of heat and pressure locally to said connecting means.

2,320,567
INTERNAL SAFETY VALVE SYSTEM
Samuel E. Carlson, Alhambra, Calif.
Application September 2, 1941, Serial No. 409,201
8 Claims. (Cl. 137—21)



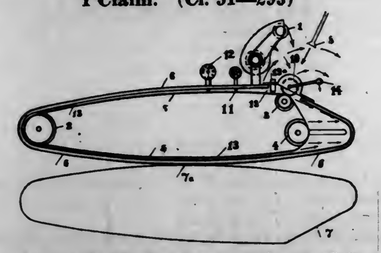
1. In combination with a tank truck, trailer, or the like, having tank compartments provided with outlet valves, a single operating means for opening the valves, and selector means for selectively connecting the operating means to any one of the valves so that the valve may be opened thereby, spring means urging the valves and operating means into valve-closing position, means for locking the operating means in valve-opening position, and means operable by the operation of the engine of the tank truck for releasing the valve operating means to allow any open valve to close.

2,320,568
FASTENER-APPLYING IMPLEMENT
John F. Cavanagh, Providence, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application July 3, 1941, Serial No. 400,930
5 Claims. (Cl. 1—49)



1. In a fastener-applying implement, a magazine for holding a supply of fasteners, fastener-applying means for driving fasteners from the magazine, a gate mounted on the magazine for pivotal movement outwardly and upwardly away from the front of the magazine and for vertical sliding movement in a plane parallel to the direction in which the fasteners are driven, said gate being adapted to pivot to open the magazine to receive a supply of fasteners and close the magazine to adapt fasteners to be driven therefrom, cooperating notch-and-lug detents on the magazine and gate for releasably holding the latter against pivoting movement, and manually-operable means for holding the gate against vertical sliding movement whereby to positively lock the gate in closed position on the magazine.

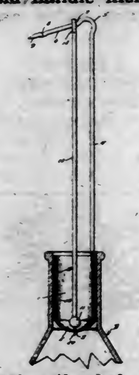
2,320,569
TREATMENT OF WORN ABRASIVE BELTS
Hans Conrady, Kelkheim in Taunus, Germany; vested in the Alien Property Custodian
Application May 3, 1939, Serial No. 271,619
In Germany May 2, 1938
1 Claim. (Cl. 51—293)



In the method of renewing the usefulness of worn abrasive belts in which the abrasive has been bonded to the backing member by glue or other similar material, the steps comprising placing said belt upon pulleys in a closable heated chamber, subjecting said belt to a preliminary dry cleaning by a rotary brush and then to the action of moist heat to melt the glue bond causing the belt to move about said pulleys, subjecting the grit bearing face of said belt to the action of a second rotary brush while the belt is moving about said pulleys and while said bond is in a softened condition to relocate the worn abrasive on said belt thereby exposing new sharp cutting faces on the abrasive grains and subsequently cooling and drying said belt to recement the relocated abrasive grains thereon.

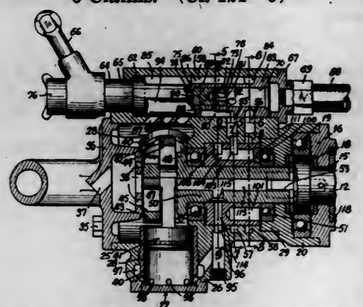
2,320,570
CREAM DIPPER
Clarence P. Crocker, Arcata, Calif.
Application October 8, 1941, Serial No. 414,181
2 Claims. (Cl. 210—51.5)

1. A cream dipper for removing cream from the top of a milk bottle comprising an elongated bowl adapted to fit into the neck of a milk bottle and having an axial inlet port in the bottom thereof, a rod-like handle attached at one end to the rim of the bowl to extend upwardly therefrom at one side thereof, a ball valve in said bowl movable upwardly and downwardly to open and close said port, respectively, and provided with a stud extending into said port to guide the valve in closing movement thereof, a valve operating rod attached at one end to said ball valve and extending out of said bowl for lifting and lowering to move said valve upwardly and downwardly, respectively, a loop on the other end of said rod and means to retain said valve operating rod in lifted or lowered position comprising a lateral extension on said handle inclined with respect



thereto and passing through said loop, the loop being adjustable along said extension into different set positions.

2,320,571
MOTOR
John C. Curtis, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application March 13, 1941, Serial No. 383,196
6 Claims. (Cl. 121—9)

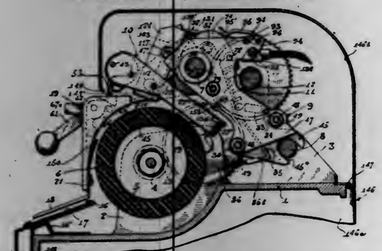


1. A fluid actuated motor comprising, in combination, a cylindrical motor casing, a crankshaft extending axially of said casing, a plurality of cylinders supported by said casing and extending radially from said crankshaft, pistons reciprocable in said cylinders and connected to said crankshaft for driving the latter, passages opening through the inner wall of said motor casing adjacent the rear end of said crankshaft and communicating with the outer ends of said cylinders, a sleeve member rotatable with said crankshaft, separate passages in said sleeve member opening through the outer periphery thereof at points spaced angularly from each other, said separate passages communicating successively with said first mentioned passages on rotation of said sleeve member, and means including passages opening through the inner wall of said motor casing adjacent the forward end of said crankshaft for connecting said separate passages selectively to supply and exhaust.

2. In combination, in a motor, a crankcase, cylinders supported thereby, a crankshaft extending into said crankcase, means for venting the interior of said crankcase to atmosphere, a distributing valve for said motor, and dual exhaust means for said motor including passages both controlled by said valve and one extending

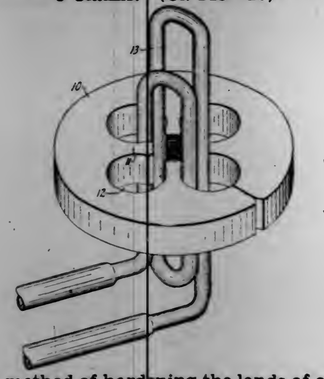
through said crankcase and another through said crankshaft into communication with the vented interior of said crankcase.

2,320,572
PHONOGRAPH
Charles W. Dann, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application May 1, 1940, Serial No. 332,722
19 Claims. (Cl. 179—100.4)



1. Apparatus for carrying a phonographic translating device of the type adapted to cooperate with a cylindrical record, having a frame comprising an assembly of parallel plates supported in planes normal to the longitudinal axis of the record and spaced from each other longitudinally of the record, and means bridging said plates to hold the same in said fixed spaced relationship.

2,320,573
METHOD FOR HARDENING METALS
William J. Doelker, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application May 22, 1941, Serial No. 394,692
3 Claims. (Cl. 148—10)



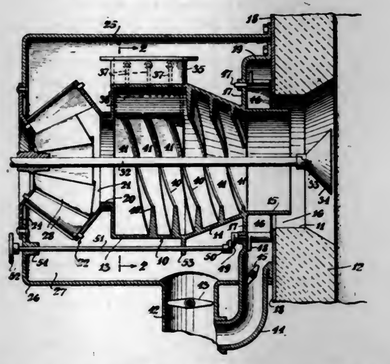
1. A method of hardening the lands of a button type external screw thread cutting die without hardening the periphery of said die, including the insertion of a coil within the clearance slots between the lands of the die, the said coil having its turns symmetrically positioned with respect to the lands so that each land is in an equivalent heating zone of the internal field of said coil and the periphery of the die is in the external field of the coil; the step of energizing said coil whereby the lands in the internal field are quickly heated, leaving the periphery of the die in the external field relatively cool; and the step of quenching the die after the proper temperature for the lands has been reached.

2,320,574
HYDROAIRCRAFT
Claude Dornier, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian
Application January 31, 1939, Serial No. 253,746
In Germany February 2, 1938
9 Claims. (Cl. 244—102)



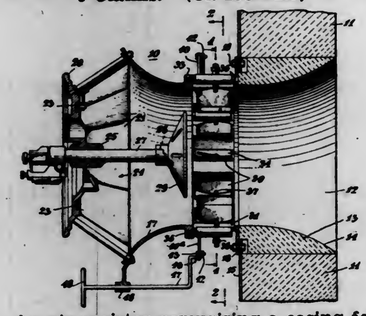
1. A hydroaircraft having a fuselage comprising an upper part, a plurality of floats forming the lower part of said fuselage and being hinged to said upper part and being movable into flying and floating position about axes which extend substantially in the direction of flight of said aircraft, said upper part having a keeled bottom surface which floats on the water when said floats are in floating position, said bottom surface being completely covered by said floats when in flying position.

2,320,575
FUEL BURNER
John Dunn, Yonkers, N. Y., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York
Application August 22, 1941, Serial No. 407,857
5 Claims. (Cl. 110—104)



1. A pulverized fuel burner comprising a burner tube open at its outlet end to a burner throat and having a secondary air inlet opening at its inlet end to receive secondary air from an air register, a fuel inlet duct supplying pulverized fuel to said burner tube, and a plurality of vanes in said burner tube extending from said fuel inlet duct toward the outlet end of said tube to control the advance of fuel therein and to distribute the fuel uniformly around the periphery of the burner tube at its outlet end, said vanes extending in depth substantially entirely across said fuel inlet duct and tapering in depth to said outlet end, said burner tube being correspondingly enlarged in diameter at the inlet end so that the inner peripheral diameter of each of said vanes is at least as great as the diameter of said secondary air inlet opening and provides an unobstructed passage for said secondary air to said burner throat.

2,320,576
AIR REGISTER
John Dunn, Yonkers, N. Y., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York
Application November 29, 1941, Serial No. 420,993
9 Claims. (Cl. 158—1.5)



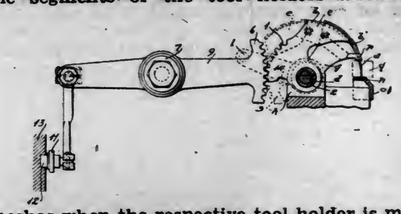
1. An air register comprising a casing forming an air chamber having an axial air discharge throat opening, means to supply air to said chamber and to cause the air to rotate in said chamber and to advance toward said throat opening, and a peripheral set of vanes disposed in the path of the advancing air stream and arranged to control the angle of rotation of the air at said throat opening, said vanes being mounted to be retracted out of the path of the air stream when not in use.

2,320,577
GEOCHEMICAL PROSPECTING
Thomas H. Dunn, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
No Drawing. Application February 9, 1940, Serial No. 318,193
8 Claims. (Cl. 23—230)

4. In the art of exploration for underground hydrocarbon deposits, the steps which comprise systematically collecting a series of samples of surface soil at spaced locations, extracting said samples separately with an organic solvent for solid, petroleum-derived constituents present initially in said samples in soluble form, evaporating said organic solvent from each of said extracts, and weighing the residual solid, petroleum-derived constituents, whereby valuable information is obtained concerning the location of said underground hydrocarbon deposits.

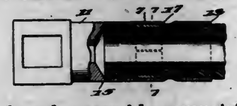
2,320,578
SOLE-SEWING MACHINE
Adam Ehresmann, Kaiserslautern, Pfalz, and Ludwig Streibel, Karlsruhe, Baden, Germany; vested in the Alien Property Custodian
Application January 18, 1940, Serial No. 314,554
In Germany January 2, 1939
4 Claims. (Cl. 112—35)

1. In a shoe sole sewing machine, a pair of laterally spaced tool holders oscillatable on a common axis, a work support having a tool receiving opening, means for moving said holders simultaneously along said axis to bring the tool holders alternately into operative position in a plane of oscillation passing through said opening, a toothed segment on each of said tool holders, and an oscillatory operating lever pivoted to oscillate in a fixed plane and having a toothed segment for alternate drive connection with the tool holder segments and wherewith each of the segments of the tool holders alternately



meshes when the respective tool holder is moved into operative position.

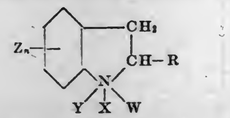
2,320,579
FERRULE
George G. Eisenbeis, Binghamton, N. Y., assignor to Stow Manufacturing Company, Inc., Binghamton, N. Y., a corporation of New York
Application September 21, 1942, Serial No. 459,143
6 Claims. (Cl. 285—84)



1. An end ferrule assembly comprising, in combination, a rubber hose and an end ferrule therefor, the said hose having its end portion reduced in diameter to snugly fit inside the end ferrule, an annular channel formed in said reduced diameter portion of the hose, a split ring positioned in said annular channel, and an indentation in said ferrule immediately adjacent the rear edge of said ring.

2,320,580
QUATERNARY INDOLE DERIVATIVES AND THEIR MANUFACTURE
Curt Engel, Saint Louis, France, and Kurt Pfaehler, Riehen, near Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application April 9, 1940, Serial No. 328,796. In Switzerland May 19, 1937
2 Claims. (Cl. 260—319)

1. The colorless quaternary dihydro-indoles of the formula

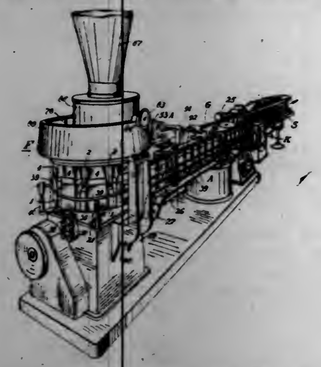


wherein R represents an alkyl group containing more than 5 carbon atoms; Y represents a member of the group consisting of methyl and ethyl; X and W represent radicals derived from a reactant of the formula X—W selected from the group consisting of $CH_3—SO_4CH_3$, $C_2H_5—SO_4C_2H_5$, $Cl—CH_2COOCH_3$, $Cl—CH_2COOC_2H_5$, $Cl—CH_2CHOHCH_2OH$ and $Cl—CH_2C_6H_5$ wherein the first-named radical constitutes X and the second-named radical constitutes W; Z represents a member of the group consisting of H and CH_3; and n represents one of the integers 1 and 2.

2,320,581
APPARATUS FOR CONVEYING AND FILLING CARTONS
George B. First and Hans Grotewold, Philadelphia, Pa., assignors to Stokes and Smith Company, Summerdale, Philadelphia, Pa., a corporation of Pennsylvania
Application November 4, 1939, Serial No. 302,807
11 Claims. (Cl. 226—97)

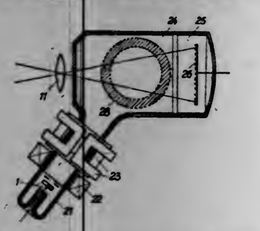
7. Apparatus for conveying and filling cartons

comprising an endless conveyor for moving a series of cartons, a rotatable support, a plurality of filling snouts depending from said support and circumferentially spaced about the axis of rotation thereof, and means for enclosing each



snout in succession by the carton flaps comprising means for bending at least one of the flaps of each carton outwardly and downwardly as the carton approaches alignment with a snout and releasing it after alignment with the snout.

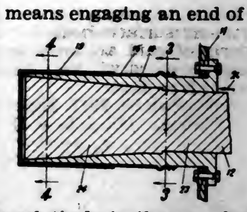
2,320,582
CATHODE RAY TUBE
Werner Flechsig, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application October 16, 1940, Serial No. 361,379
In Germany November 8, 1939
13 Claims. (Cl. 250—161)



1. In combination, means for generating a beam of electrons of relatively small cross-sectional area, a target member which presents a substantially planar surface to said beam, means for deflecting the beam over a two-dimensional field on said surface to scan said field, and means including an electron-optical lens between said deflecting means and said target to cause the beam to approach the target throughout said entire field to be scanned in paths normal to the plane of said surface despite the action of said deflecting means.

2,320,583
MOLD FOR MANUFACTURE OF DIPPED ARTICLES
György Forro, Budapest, Hungary; vested in the Alien Property Custodian
Application May 15, 1940, Serial No. 335,379
In Great Britain August 9, 1938
4 Claims. (Cl. 18—41)

1. A mold for manufacturing hollow articles from settable materials comprising a deformable sheath, a core covered at least partly by said sheath, and means engaging an end of the sheath



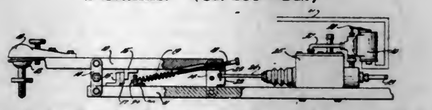
and movable relatively to the core for stretching the sheath.

2,320,584
SHOE HEEL
David Giesser, Chelsea, Mass.
Application October 27, 1941, Serial No. 416,702
1 Claim. (Cl. 36—34)



A shoe heel comprising a transparent body having a channel in its top surface, said channel having upwardly tapering side walls and opening through the front of the body, an opaque insert shaped to fit the channel slidably disposed therein, a rod extending through the body and insert from side to side, and screw threaded members received in sockets provided in the ends of the rod.

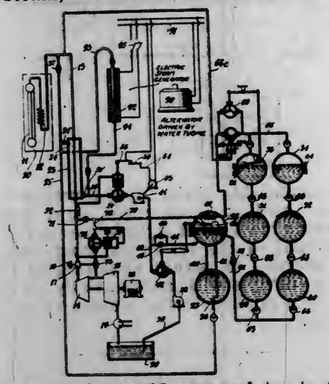
2,320,585
AUTOMATIC TRAILER BRAKE
James R. Gill and Walter Solon, Los Angeles, Calif.
Application August 29, 1941, Serial No. 408,804
2 Claims. (Cl. 188—142)



1. A trailer brake comprising a towing hitch beam, a towed hitch beam, shackles connecting the hitch beams, stop means between the hitch beams limiting forward movement of the towing hitch beam relative to the towed hitch beam in a position wherein the hitch beams are in spaced relation to each other, spring means urging the towed hitch beam rearwardly with relation to the towing hitch beam, and means operatively connected to one of the shackles for applying the brakes of a trailer on which the towed hitch beam may be mounted upon rearward movement of the towing hitch beam relative to the towed hitch beam.

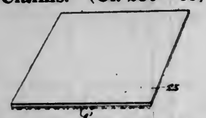
2,320,586
ACCUMULATOR PLANT
Paul Gilli, Vienna, Austria; vested in the Alien Property Custodian
Original application February 24, 1936, Serial No. 65,271, now Patent No. 2,089,915, dated August 10, 1937. Divided and this application July 7, 1937, Serial No. 152,290. Renewed October 16, 1939. In Germany February 19, 1936.
1 Claim. (Cl. 60—94)

In a steam plant, a steam boiler, means for superheating steam generated by said boiler, a high pressure steam consumer supplied with the superheated steam, a steam accumulator, a two compartment surface heat exchanger disposed exteriorly of said accumulator, one compartment being supplied with superheated steam and the other compartment being supplied with water whereby the water is heated to produce steam having a temperature corresponding to a pressure higher than the pressure of the superheated steam, means for introducing the high



pressure water into said accumulator to thereby charge the accumulator at a pressure above boiler pressure, means for supplying steam to said high pressure consumer from said accumulater while the accumulator pressure remains above boiler pressure, a low pressure consumer, and means for supplying steam to said low pressure consumer when the accumulator pressure drops below boiler pressure.

2,320,587
KYMOGRAPH GRID
Carl K. Gieringer and Elbert E. Greenberg, Cincinnati, Ohio, assignors to The Liebel-Flarsheim Company, Cincinnati, Ohio, a corporation of Ohio
Application March 11, 1941, Serial No. 382,768
9 Claims. (Cl. 250—65)

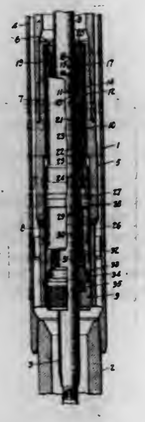


1. A kymograph grid which is comprised of material opaque to X-rays, said grid having a plurality of slots spaced equidistantly apart from one another through which X-rays are free to pass, the slots being of such width and profile relative to the thickness of the opaque material bounding the slots that the greatest angle between a line passing medially through any slot and the most oblique path along which an X-ray may travel and still pass through the slot is an angle whose tangent is not substantially greater than .25.

2,320,588
DYED CELLULOSE MATERIALS OF IMPROVED FASTNESS TO LIGHT AND PROCESS OF PREPARING SAME
Charles Graenacher, Riehen, Carlo Rossi and Heinrich Bruengger, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application May 25, 1940, Serial No. 337,316. In Switzerland June 9, 1939
12 Claims. (Cl. 8—74)

1. A process for improving the fastness to light of materials containing cellulose which have been dyed with water-soluble dyestuffs containing at least one acid group, comprising supplementing the dyeing process by a treatment with a neutralized primary ester of phosphoric acid with a hydroxy compound of the benzene series.

2,320,589
PACKING ASSEMBLY
Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 28, 1941, Serial No. 390,783
2 Claims. (Cl. 286—27)

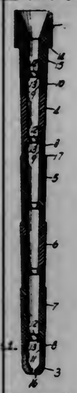


2. In combination with a cylindrical packing housing surrounding a reciprocating rod and having an inturned flange, a cylindrical sleeve disposed in said housing and having its inner end engaging said flange with a sealing member therebetween, a packing element within said sleeve and engaging said reciprocating rod, a sealing ring between the outer end of said sleeve and the inner wall of the housing, and a plug secured in the end of the housing for pressing said sleeve against said first named sealing member and for compressing said sealing ring, said sleeve being radially spaced from said housing in the central portion of the sleeve to provide a fluid chamber which is sealed at its respective ends.

2,320,590
FUNNEL
Hugh D. Haley, Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 21, 1941, Serial No. 399,121
9 Claims. (Cl. 57—76)

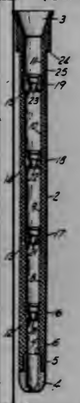
1. As an article of manufacture, a hollow tube adapted for guiding a filamentary material having a body portion and complementary coupling portions integral therewith extending from opposite ends of the body portion, the interior of one of said coupling portions and that of the body portion forming a continuous inner wall, the ends of which are adapted to form inside joints with the complementary coupling portions of other such tubes, and said tube having an annular bead

integrally formed therein projecting substantially directly inwardly from one end of said inner wall



whereby said bead prevents contacting of the adjacent joint by the filamentary material.

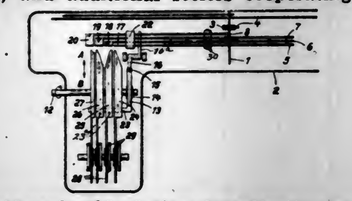
2,320,591
SPINNING FUNNEL
Hugh D. Haley, Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 21, 1941, Serial No. 399,122
3 Claims. (Cl. 57—76)



1. A funnel comprising an integral tube having a plurality of sections, each section having a different inside diameter, said diameter being of larger size in each successive section from one end to the other of said tube, and a beaded ring in each section having an outside diameter substantially equal to the inside diameter of its respective section.

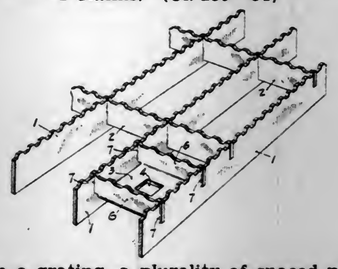
2,320,592
PRINTING DEVICE FOR WEIGHING MACHINES
Arthur Hahn, Balingen, Germany; vested in the Alien Property Custodian
Application June 2, 1939, Serial No. 277,074
In Germany May 20, 1938
8 Claims. (Cl. 234—5.4)

1. Printing mechanism for a weighing machine which includes a rotatable pointer shaft, comprising at least one disc mounted on the pointer shaft and having weight valve devices adapted to be explored, double arm levers each having an initial feeler on one arm thereof for exploring and lightly contacting the said value devices on said disc, means providing explorable devices on the other arm of each said levers, means providing a fixed guide within which said levers are movable with the guide serving to prevent bending of said levers, and additional feelers cooperating with



the said explorable devices for adjusting and setting the printing mechanism, said additional feelers being movable at right angles to the planes of movement of the levers carrying said initial feelers whereby to permit exploring of the said explorable devices with substantially no increase in the force applied to the weight value devices on said disc.

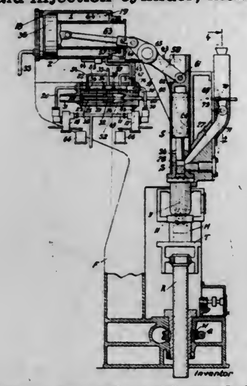
2,320,593
GRATING ATTACHMENT
William C. Heath, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 27, 1941, Serial No. 385,480
4 Claims. (Cl. 189—84)



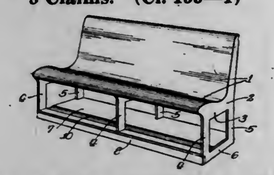
2. In a grating, a plurality of spaced parallel bars having upper serrated surfaces presenting a common safety tread, and a clamping lug extending between two adjacent bars and having upstanding flanges set on edge in vertical slots in said bars and welded thereto, the upper edges of said flanges being serrated and lying in the plane of the serrated tread surface to provide a part of said tread.

2,320,594
INJECTION MOLDING MACHINE
Emil Hempel, Zerbst, Germany; vested in the Alien Property Custodian
Application October 4, 1939, Serial No. 297,837
In Germany July 7, 1938
5 Claims. (Cl. 18—30)

3. An injection molding machine comprising an injection cylinder, a balance comprising a scale mounted at a higher level than the same, a chute leading from said balance to said cylinder, a hopper above the scale of said balance, a shutter adapted to close said hopper, a cooperative connection being provided between said shutter and said balance for closing said hopper when a predetermined quantity of material has been fed through said hopper to said scale and depresses the latter, a tripping mechanism coordinated to said balance and for discharging the scale thereof after said hopper has been closed, a conduit adapted to establish a communication between said injection cylinder and a mold, a piston in said injection cylinder, means for driving said piston towards said conduit, a driving mechanism for said piston, and means operative to actuate said tripping mechanism only if said piston has completed its injection stroke towards said conduit.

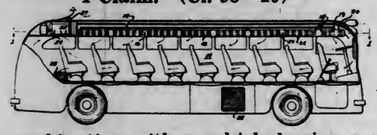


2,320,595
SEAT OR BENCH STRUCTURE FOR BOWLING ALLEYS
Andrew L. Henkel and Burke M. Ewing, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application June 24, 1940, Serial No. 342,069
5 Claims. (Cl. 155—1)



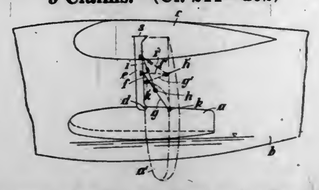
1. A seat structure including a seat member with upright supporting frames therefor, each frame having upright members with a horizontal bottom bar connecting them, and a platform panel extending over said bottom bars at a distance below the seat member affording space for the storage of bowling balls, said platform panel having a trough or groove extending substantially parallel to its front edge dimensioned to receive and guide a bowling ball in said space.

2,320,596
REFRIGERATING APPARATUS
Charles F. Henney, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application January 26, 1940, Serial No. 315,845
1 Claim. (Cl. 98—10)



In combination with a vehicle having a relatively long narrow passenger compartment, evaporator means adjacent the upper rear corner of said compartment, means for flowing air to be conditioned in thermal exchange relationship with said evaporator means, means for distributing the conditioned air within the passenger compartment comprising a pair of air distributing means arranged along opposite sides of said passenger compartment, each of said distributing means comprising an air distributing chamber extending along one side of said compartment for substantially the full length of said compartment and having the one side thereof provided with stamped sheet metal air grille means extending substantially the full length of said chamber, said air grille means being provided with integrally formed oppositely disposed air deflecting louvers for directing converging streams of air outwardly towards the center of the bus, certain of said louvers adjacent the front end of said compartment being arranged to direct air forwardly along the front wall of said compartment, a return air grille adjacent the rear of said passenger compartment through which air returns to said evaporator, and refrigerant liquefying means for supplying liquid refrigerant to said evaporator means.

2,320,597
SUPPORTING FLOAT FOR AIRCRAFT
Heinrich Hertel, Rostock, Germany; vested in the Alien Property Custodian
Application March 31, 1939, Serial No. 265,269
In Germany April 1, 1938
5 Claims. (Cl. 244—102)



1. In an aircraft including a fuselage with lateral wings having recesses in the profile thereof, a float associated with each wing, a connection between each wing and its associated float including a float supporting strut hinged at one end to the wing and at the other end to the float, means for turning the float on its hinge connection with the strut comprising a pair of pivoted levers respectively hinged at their outer ends to the strut and float, a piston and cylinder mechanism connecting the strut and pivoted levers for operating the latter, and means for retracting the float into the profile of the wing comprising a pair of pivoted levers respectively hinged to the wing and strut and a piston and cylinder mechanism connecting the wing and the last named pivoted levers for operation of the latter.

2,320,598
PROCESS FOR THE MANUFACTURE OF DISTILLABLE OILS FROM WOOD AND OTHER PLANT MATERIALS
Harold Hibbert and Archibald B. Cramer, Montreal, Quebec, Canada
No Drawing. Application December 14, 1938, Serial No. 245,706
1 Claim. (Cl. 260—124)

A process for converting lignin constituents of ligno-cellulose into distillable liquid and crystalline products comprising the following steps, (1) subjecting the ligno-cellulose to the action of absolute ethanol in the presence of a catalytic

quantity of anhydrous hydrochloric acid for a period of from twelve to forty-eight hours; (2) filtering the resulting mixture; (3) washing the residue of Step (2) with a hot ethanol wash liquor and then adding the wash liquor to the filtrate; (4) evaporating the resulting combined solution to a small volume and then adding water thereto with sufficient agitation to effect the separation of a lignin precipitate; (5) separately extracting the aqueous ethanol solution and the lignin precipitate resulting from Step (4) and combining the two extracts; (6) evaporating the said combined extracts until the solvent is substantially removed and there is left a thick viscous liquid residue; and (7) fractionating said liquid residue to recover high boiling point liquid and crystalline products comprising (*a*) an aldehydic constituent boiling at 130 to 150° C. at a low pressure of the order of 0.002 m. of mercury; (*b*) a phenolic substance boiling at 130 to 150° C. at a pressure of the order of 0.005 mm. of mercury; and (*c*) a neutral substance boiling at 150 to 160° C. at a pressure of the order of 0.010 mm. of mercury.

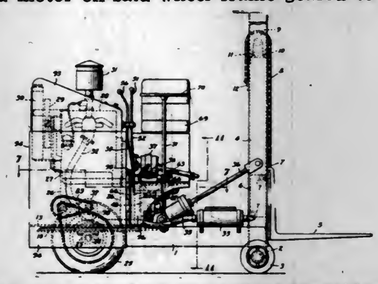
2,320,599
SCREW CAP OPENER
Hal Hickman, Lancaster, Calif.
Application April 20, 1942, Serial No. 439,763
3 Claims. (Cl. 81—3.43)



1. A screw cap opener comprising first and second levers, the first lever being provided adjacent to its working end with an anchor, a flexible member comprising a loop made up of frictionally-contacting inner and outer layers and a bend connecting the layers, the outer layer holding the inner layer in contact with the screw cap to be manipulated, the bend extending around the anchor, means for securing the end portion of the inner layer to the second lever, adjacent to the working end of that lever, the end portion of the outer layer being extended between the end portion of the inner layer and the second lever, and means for pivotally connecting the levers intermediate their ends.

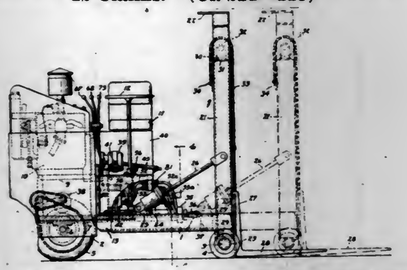
2,320,600
INDUSTRIAL TRUCK
Roy C. Howell, Lakewood, Ohio
Application September 5, 1942, Serial No. 457,460
5 Claims. (Cl. 214—113)

1. An industrial truck comprising a frame, wheels supporting the forward end of the frame, a load carrying member mounted for vertical movement at the forward end of the frame, a horizontal bearing annulus forming the rear cross member of the frame, a wheel frame having an annulus beneath and rotatably engaging said bearing annulus, an axle mounted on the wheel frame and extending across the axis of the annulus, a wheel on said axle, means for turning said wheel frame to steer the truck, a fluid motor on said wheel frame geared to said



wheel, reversible fluid connections for said motor including pipes on said truck frame, flexible hose connections from said pipes to said motor, pressure and return lines adapted to be connected to said pipes, a pump on the truck frame for maintaining pressure in the pressure line, an engine on the truck frame for driving said pump, and means for controlling the direction of flow of fluid through said motor.

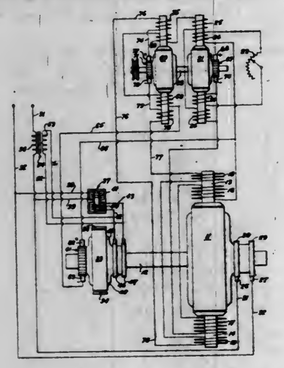
2,320,601
INDUSTRIAL TRUCK
Roy C. Howell, Lakewood, Ohio
Application January 20, 1943, Serial No. 472,973
12 Claims. (Cl. 214—113)



1. An industrial truck having front and rear telescopically connected wheel supported frame sections, an elevator on the front section having means for supporting a load forwardly of the supporting wheels of said section, and independently controlled means carried by the truck for propelling the same, for telescoping said sections and for operating said elevator.

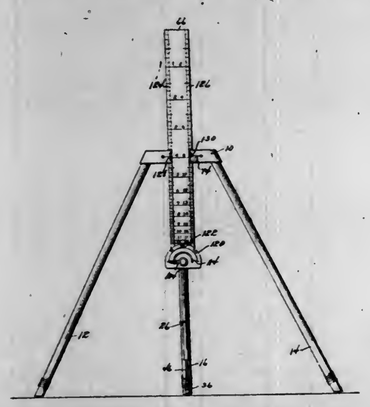
2,320,602
ALTERNATOR AND CONTROL SYSTEM THEREFOR
Fenton F. Hutchinson, San Francisco, Calif., assignor to Kohler & Chase, San Francisco, Calif., a corporation of California
Application June 15, 1940, Serial No. 340,760
3 Claims. (Cl. 171—241)

1. A system for automatically compensating for the voltage drop in a load circuit supplied by an alternator as well as for accurate overcompounding of the alternator under varying load conditions in the load circuit, said system comprising a constant current transformer having its primary connected across such load circuit, a series transformer having its primary connecter in series with the load and its secondary connected in parallel with the secondary of said constant current transformer; said constant current and series transformers so connected being



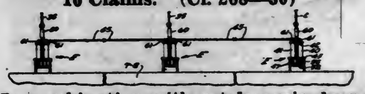
adapted to derive a variable potential from such load circuit under variable load conditions, means for rectifying the derived variable potential to produce a direct current voltage of varying magnitude, and means utilizing the variable, rectified potential for variably exciting the alternator automatically in response to variations in load.

2,320,603
DRAFTING INSTRUMENT
Jessie T. Ivy, Seattle, Wash.
Application August 29, 1942, Serial No. 456,685
4 Claims. (Cl. 33—27)



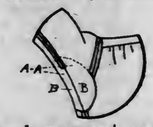
1. A drafting instrument comprising a head having supporting legs, an inscribing rod depending from said head, a universal connection between the upper end of the inscribing rod and said head, a pattern contour guide located to engage the inscribing rod intermediate its ends to control its inscribing movement, extensions for said legs, and means for varying the size of the inscribing rod at its point of engagement with the pattern contour guide to vary the size of the pattern reproduced by the inscribing rod.

2,320,604
DOOR
Lynn E. Jackson, Los Angeles, and James T. Dickson, Playa Del Rey, Calif., assignors to Firguson Door Co., Los Angeles, Calif., a corporation of California
Application April 10, 1942, Serial No. 438,436
10 Claims. (Cl. 268—30)



2. In combination with a telescopic door comprised of relatively slidable panels having adjacent overlapping edges, cables for applying lifting force to the respective panels at spaced points between their side edges and tension equalizing members, one interposed between each cable and a panel, each of said equalizing members consisting of a pair of parallel fluid-containing cylinders secured to the overlapping portion of a panel, a pair of pistons, one slidably mounted in each cylinder and a connecting rod slidably disposed between the cylinders and being connected at its lower end to said pistons and connected at its upper end to a cable.

2,320,605
GARMENT
Rhoda Jansson, St. Louis, Mo., assignor to Rice-Stix Dry Goods Company, St. Louis, Mo., a corporation of Missouri
Application July 25, 1941, Serial No. 404,055
3 Claims. (Cl. 2—115)



1. An improved garment comprising a bodice having a pair of armholes and a pair of semi-elliptical projections, said semi-elliptical projections extending from and being integral with the material forming the lower portion of the armholes, a pair of sleeves that each has a longitudinal seam on the under side thereof and a semi-elliptical projection on one end thereof that is integral with the material of which the sleeve is made, said semi-elliptical projection on each of the sleeves having a longitudinal seam therein but having no transverse seam therein, said semi-elliptical projection on each of the sleeves being substantially similar to the corresponding semi-elliptical projection on the bodice, a pair of pockets formed by sewing the edge of the semi-elliptical projection on each of the sleeves directly to the material of the bodice below the armhole and sewing the edge of each of the semi-elliptical projections of the bodice to the under side of the adjoining sleeve, a pair of elliptical inserts of oiled silk that are positioned in the said pockets and are adapted to protect the outer portion of each of the said pockets from the action of under-arm perspiration, said pockets having longitudinal seams therein but having no transverse under-arm seam.

2,320,606
WORK HOLDER
John Jesionowski, Hartford, Conn.
Application December 11, 1940, Serial No. 369,631
13 Claims. (Cl. 81—35)

1. In a work holding device, a vise having a horizontal base and stationary and movable jaws

on the upper face thereof, and telescopic threaded actuating connections between said base and movable jaw disposed longitudinally of said base above said upper face including telescopic members fixed to said base and movable jaw and



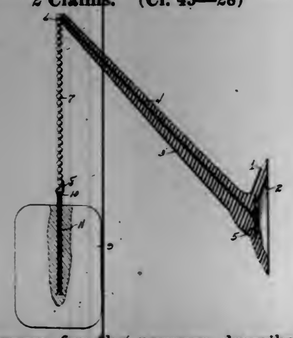
telescoping one within the other and an intermediate connecting member having its opposite ends oppositely threaded to said members and free from external threading intermediate its threaded ends.

2,320,607
IRONING TABLE TOP
Edward T. John, Minneapolis, Minn., assignor to The J. R. Clark Company, Minneapolis, Minn., a corporation
Application November 22, 1940, Serial No. 366,537
4 Claims. (Cl. 38—137)



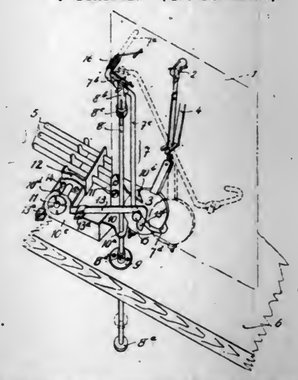
4. An ironing table top comprising an outer rim extending about the outer limits of the ironing table top and having a downwardly turned flange, a series of truss members secured to the upper portion of said rim and extending across the ironing table top, a series of longitudinal inverted T-members having their bases resting upon the truss members and having the upper narrow edges of the T's in a common plane, and a sheet of wire screen material resting upon said T-members and having its outer portions turned downwardly along said flange and secured thereto and having its edges outwardly turned, and an extension of the flange overlying and covering said outwardly turned edges.

2,320,608
SOAP CAKE HANGER
Morris L. Jones, Burbank, Calif.
Application October 28, 1941, Serial No. 416,878
2 Claims. (Cl. 45—28)



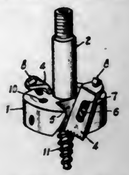
1. A hanger for the purpose described, comprising a base, means for attaching the base to a support, an outwardly extending self-supporting elastic arm carried by the base, a strand of wire secured within the base and extending centrally throughout the arm and having an eye beyond the end thereof, and a flexible cord secured within the eye with an attaching means at its outer end.

2,320,609
SECURING DEVICE FOR CLOCKS
Helmut Junghans, Schramberg-Sulgen, Wurttemberg, Germany; vested in the Alien Property Custodian
Application July 15, 1939, Serial No. 284,806
In Germany June 16, 1938
7 Claims. (Cl. 58—129)



1. A device for securing striking clocks with pendulum movement and with sound producing means during transportation, comprising a pendulum gripper having means to move into pendulum gripping position, means for engaging the sound producing means of the clock, and means on said engaging means and the gripper to interlock both said gripper and engaging means to prevent movement of the pendulum and the sound producing means.

2,320,610
DRILL BIT
Charles W. Kandle, Chicago, Ill.
Application October 21, 1940, Serial No. 362,020
3 Claims. (Cl. 255—70)



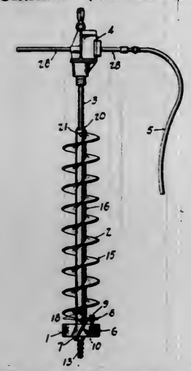
1. A drill bit comprising a circular plate of metal of substantial thickness, cutting means secured thereon and disposed to deliver spoil on the upper side of the plate, a hollow drill stem extending upwardly from the center of the plate to rotate the same, and a passage connecting with the hollow drill stem and providing a port in the upper surface of the plate for discharging cleaning fluid for removing spoil from the hole being drilled.

2,320,611
GRAPPLE HOOK
Charles W. Kandle, Chicago, Ill.
Application January 31, 1941, Serial No. 376,866
9 Claims. (Cl. 294—100)

1. In a device of the class described, a tubular casing carrying a reciprocable grapple hook at one end, an actuating rod extending longitudinally through the casing from said grapple hook and out of the other end of the casing, a handle on the outer end of said actuating rod spaced from the end of the casing a distance not less than the reciprocating travel of said grapple hook relative to the casing, a tubular member covering the exposed end of said actuating rod and extending from the handle to a point inside said casing, said tubular member fitting snugly in said casing and being telescoped thereby to provide for reciprocation of the actuating rod by the handle, and a coil spring inside said tubular member and casing and extending from said handle to an inside projection on the casing to bias the parts to normal position.

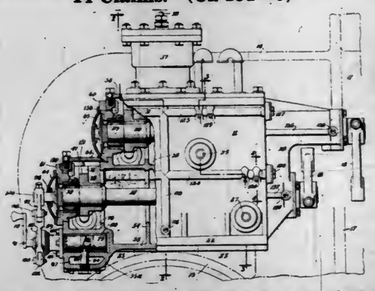


2,320,612
EARTH BORING TOOL
Charles W. Kandle, Chicago, Ill.
Application June 27, 1941, Serial No. 399,967
2 Claims. (Cl. 255—69)



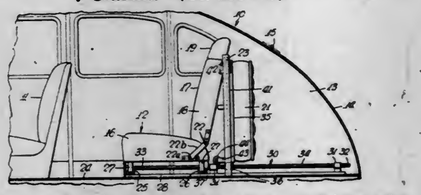
2. A manually portable power operated earth boring tool for drilling post holes and the like, comprising a rotatable drill shaft having a flight of convolutions welded thereto for lifting spoil, said shaft and flight being made up of at least one of several like units adapted to be removably secured end to end for the progressive drilling of a hole of substantial depth, a portable power unit removably resting upon the upper end of said shaft and connected thereto to rotate the same, a horizontal plate of a diameter approximating that of said flight removably secured to the lower end of said shaft and flight to be rotated thereby, said plate serving to support the drill against threading into the earth under the weight of said power unit, shaft, and flight, a cutting blade secured to said plate in an opening therein adjacent and in front of the lower end of said flight and extending downwardly to engage and raise spoil onto said plate and flight, and a blunt nosed lead screw for holding the cutting blade in cutting relation at the bottom of the hole being drilled.

2,320,613
LOCOMOTIVE VALVE ACTUATING MECHANISM
Julius Kirchhof, Baltimore, Md.; vested in the Alien Property Custodian
Application July 1, 1939, Serial No. 282,338
14 Claims. (Cl. 184—6)



1. Locomotive valve actuating mechanism comprising a movable admission-valve cam shaft and moving parts associated therewith, a movable exhaust-valve cam shaft and moving parts associated therewith, actuating connections adapted to impart movements to said shafts varying with changes in locomotive operation, but a lesser average movement to one of said shafts than to the other under normal high-speed operation of the locomotive, pump means for lubricating both of said shafts and associated moving parts, and driving connections to said pump means from the shaft of greater average movement under normal high-speed operation of the locomotive.

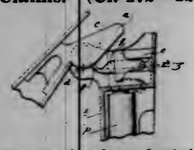
2,320,614
AUTOMOBILE BED
Harry A. Kleine, Teaneck, N. J.
Application December 14, 1940, Serial No. 370,099
7 Claims. (Cl. 155—7)



1. In an automobile having three cushions pivotally connected in series and foldable into position to form a seating arrangement with the forward end cushion in substantially horizontal position to afford a seat, the intermediate cushion in substantially upright position to form a back rest for said seat and the rear end cushion foldable substantially into an upright position close to said intermediate cushion, a rotatable driving member mounted below said cushions and accessible from the outside of the automobile, and driven means responsive to the rotation of said driving member operative to move the front and

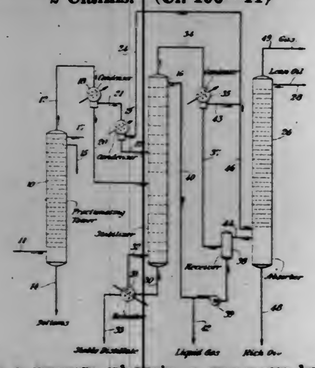
intermediate cushions forwardly and the rear end cushion backwardly into substantially horizontal alignment to form a bed.

2,320,615
DIRECTION INDICATOR FOR MOTOR CARS
Albert Koch, Stuttgart, Germany; vested in the Alien Property Custodian
Application August 30, 1939, Serial No. 292,723
In Germany August 30, 1938
3 Claims. (Cl. 172—126)



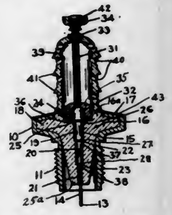
1. In an interrupter for electric circuits, an arm adapted to oscillate vertically in its position of use, electromagnetic means adapted to actuate said arm, arm actuated means to control said electromagnetic means, comprising an interrupter including a slidably movable contact member, a stationary contact member, an elastic contact member spaced from said stationary contact member, said slide being adapted to connect said elastic contact member with said stationary contact member, and means on said arm for actuating said slide, said arm having an axle, said slide being arranged behind said axle, a means supporting said slide and contacts, said slide being provided with a hook-shaped end directed towards said arm, said arm being provided with two abutment members arranged at varying distances from the axle of the said arm, said abutment members being adapted to cooperate with said hook-shaped end of said slide in such a manner that one abutment actuates said slide in one direction as said arm is moved to one position and said other abutment actuates said slide in the opposite direction as said arm is moved to an opposite position.

2,320,616
STABILIZATION
Ludwig Kniel, Jackson Heights, N. Y., and August Henry Schutte, Westfield, N. J., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application May 3, 1939, Serial No. 271,478
2 Claims. (Cl. 196—11)



1. In a process wherein a vaporous hydrocarbon mixture consisting of normally liquid constituents having 5 or more carbon atoms per molecule and falling within the boiling range of gasoline and of normally gaseous constituents having 4 or less carbon atoms per molecule is subjected to fractionation to separate the gasoline constituents therefrom, the steps which comprise subjecting said vaporous hydrocarbon mixture to a plurality of partial condensation stages maintained at progressively lower temperatures to produce a plurality of liquid fractions of progressively lower boiling range and containing substantially all the normally liquid constituents having 5 or more carbon atoms per molecule and to produce a final gas fraction containing predominantly only normally gaseous constituents having 4 or less carbon atoms per molecule, separately removing said liquid fractions from said partial condensation stages, removing the final gas fraction from the last of said partial condensation stages, directly introducing said separate liquid fractions into different portions of a stabilization zone in such a manner that the higher temperature fractions will have no deleterious effect on the lower temperature fractions to eliminate from said separate fractions the greater portion of any normally gaseous constituents of 4 or less carbon atoms per molecule unavoidably contained therein, removing from said stabilization zone a stabilized liquid gasoline fraction comprising predominantly constituents having 5 or more carbon atoms per molecule, and maintaining the pressure on said partial condensation stages and on said stabilizing zone substantially the same.

2,320,617
SPARK PLUG
Reginald F. Landrum, Torrington, Conn., assignor of one-half to Eyvind Svendsen, Torrington, Conn.
Application May 12, 1941, Serial No. 393,089
7 Claims. (Cl. 123—169)

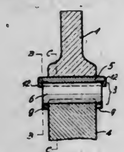


1. In a spark plug, a removable main electrode having a plurality of stepped sections provided with undercut shoulders on their lower ends, an insulating block surrounding said electrode and having a plurality of stepped bores provided with seats for said shoulders, leakproof washers on said seats, and means to urge said electrode downwardly with respect to said block to clamp said undercut shoulders thereof upon said washers.

2,320,618
ROLLER BEARING
Richard Lang, Ravensburg, Germany; vested in the Alien Property Custodian
Application August 30, 1940, Serial No. 354,898
In Germany August 31, 1939
3 Claims. (Cl. 308—217)

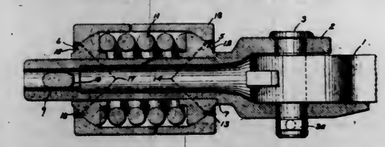
1. A roller bearing comprising an outer race way, an inner race way, rollers disposed between and in rolling engagement with the outer and inner race ways, and a cage for the rollers formed as a plurality of individual arcuate segments, each cage segment having spaced side portions

formed with individual recesses receiving and contacting the opposite ends of one group of the rollers, the side portions of the cage segments contacting the rollers only in portions of the



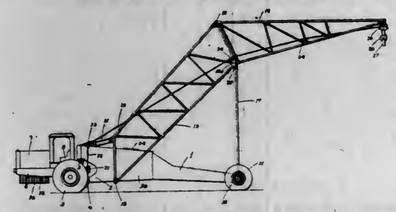
roller surfaces which do not contact either of the raceways, and axially extending end members interconnecting the side portions, the end members of adjacent cage segments being disposed in abutting relation.

2,320,619
RAILROAD CAR COUPLER
Ernst A. Larsson, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application October 5, 1942, Serial No. 460,905
2 Claims. (Cl. 213—40)



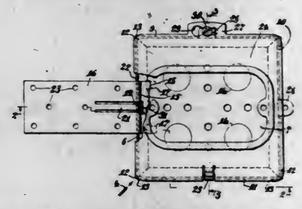
2. In a coupling draft gear; a separable housing therefor; a bar having a coupler clevis thereon, said bar and its axis extending axially of said housing; said housing having internal concave cylindrical surfaces at each end thereof the radii of which lie on the axis of said housing; follower blocks on said bar having convex cylindrical surfaces thereon concentric with said concave surfaces when said shank is in a horizontal position and adapted to engage said housing concave surfaces; the axis of curvature of said blocks lying on the axis of said shank; a spring on said bar extending between said follower blocks; and said follower block convex surfaces, said housing concave surfaces and said spring acting to restore said bar to its axial position whenever displaced therefrom.

2,320,620
SELF-PROPELLED CRANE
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application August 24, 1942, Serial No. 455,903
11 Claims. (Cl. 212—144)



1. A portable crane comprising a relatively long, substantially horizontal body, wheels supporting the body adjacent its rear end, a two-wheel tractor ahead of the body, said tractor having a frame and engine assembly projecting forwardly of the wheels in overhanging relation to the ground, draft means connecting adjacent ends of the tractor and body in vertically inflexible relation, a relatively long boom secured to and extending at an upward and rearward incline from the forward end portion of the body, and an upstanding post unit mounted in connection with the rear end portion of the body, said post unit being secured at its upper end to the boom intermediate its ends and a substantial distance from the outer end thereof.

2,320,621
OUTLET BOX, SWITCH BOX, AND THE LIKE
Edward A. Lefebre, Jamaica, N. Y.
Application July 12, 1941, Serial No. 402,131
7 Claims. (Cl. 220—3.9)



1. A box of the character disclosed having connected back and side walls and an opening through said back wall adjoining the side wall and a bracket for mounting said box, including a hooked end portion extendible through said opening, a brace portion to lie against the inside face of the adjoining side wall, an outwardly angled supporting arm projecting outwardly over the rim of said side wall and means for rigidly securing said supporting arm portion of the bracket to said side wall, including an upwardly projecting lug on the rim of said side wall, the supporting arm having an opening to pass said lug and a spring tongue at the edge of said opening to snap over and into locking engagement with said lug.

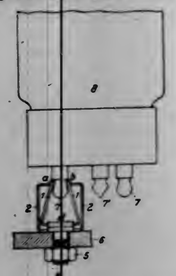
2,320,622
CONDITIONING OF DRILLING MUDS
Benjamin S. Lindsey, Houston, Tex., assignor to The Milwhite Company, Incorporated, Houston, Tex.
No Drawing. Application May 13, 1940, Serial No. 334,901
1 Claim. (Cl. 252—8.5)

In the art of compounding a drilling mud from a natural clay of the Jackson group and the Catahoula formation of the Cenozoic Age, the step of altering the colloidal phase of the clay to obtain a slow rate of swelling and a low ultimate gel strength in combination by adding a small percentage of sodium carbonate to the clay.

2,320,623
ULTRA-SHORT WAVE TUBE SOCKET
Edmund Löpp and Erwin Greifendorf, Berlin, Germany; vested in the Alien Property Custodian
Application January 16, 1941, Serial No. 374,650
In Germany January 20, 1940
2 Claims. (Cl. 173—328)

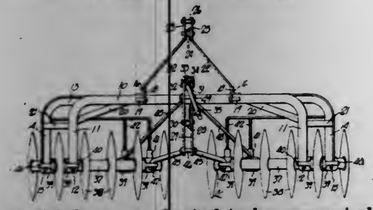
1. A contact assembly for receiving lead-in pins of ultra-short wave tubes as herein described, comprising a U-shaped strap of high conductive metal and having each end thereof formed into a hollow bead, the bight of the strap being fastened on a bolt, a highly resilient spring part having a

portion thereof extending through each hollow bead and having another portion fastened on the



bolt, so as to form a tight junction to receive lead-in pins from the ultra-short wave tubes.

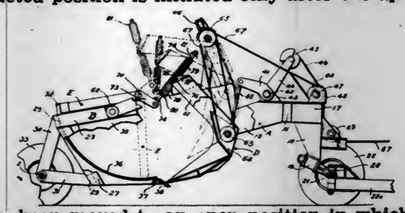
2,320,624
DISK HARROW
Jabez A. Love, Eau Claire, Mich.
Application July 7, 1941, Serial No. 401,317
18 Claims. (Cl. 55—83)



1. A disk harrow adapted to be connected to a tractor at three or more points of which at least one is above the others, comprising a rigid frame including a pair of spaced transverse inverted U-shaped rigid frame members and a plurality of spaced rigid longitudinal frame members extending between and fixedly secured to said first frame members, a pair of aligned connector elements secured to the front of said frame, a rigid upwardly projecting member fixedly secured to said frame at the front thereof, a connector element carried by said last-named member at its upper end, a plurality of disk gangs each including a shaft, a bearing journaled adjacent the outer end of each shaft and including an eyelet, a rigid hook fixedly carried by each end of each transverse frame member and each fitting in one of said eyelets, a member carried by one of said longitudinal frame members in forwardly spaced relation to the front transverse frame member, and a plurality of links, each of said links connecting the inner end of the shaft of a disk gang with said last named member.

2,320,625
CARRYING SCRAPER
John J. Low, Los Angeles, Calif., assignor to Kay-Brunner Steel Products, Inc., a corporation of Delaware
Application July 6, 1938, Serial No. 217,658
8 Claims. (Cl. 37—126)

1. A scraper, comprising; a bowl; an apron at the front of the bowl movable to occupy open and closed positions with respect to the bowl; an ejector movable in the bowl to or from a retracted position at the back of the bowl to or from an advanced position at the front of the bowl; and a mechanism operatively connecting the apron and ejector for advancing or retracting the ejector according as the apron is opened or closed, said mechanism including elements relatively movable; springs so associated with the elements that movement of the ejector from retracted position is initiated only after the apron

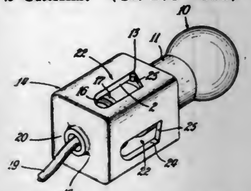


has been moved to an open position in which it does not obstruct ejection of earth from the bowl by the ejector, and other springs so associated with the elements as to cushion movement of the ejector back to retracted position.

2,320,626
METHOD OF TREATING METALS AND RESULTING PRODUCT
Christopher Luckhaupt, Jamaica, N. Y., assignor to Henry J. Lucke, East Orange, N. J.
No Drawing. Application November 28, 1941, Serial No. 420,862
4 Claims. (Cl. 117—127)

1. The method of improving the normal characteristics of metal selected from the group consisting of steel, cast iron, aluminum, copper and brasses which comprises subjecting the same to the action of terpin hydrate at or above the temperature of 115° C.

2,320,627
SOCKET FOR BAYONET BASE LAMP OR THE LIKE
Walter E. Lundell, Lake Forest, Ill.
Application June 25, 1941, Serial No. 399,595
2 Claims. (Cl. 173—328)

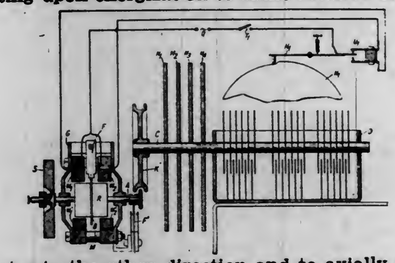


1. A square socket for reception therein of the bayonet base of a bayonet base lamp or the like, said socket having each of the surrounding sides thereof spaced from the opposite side to tangentially engage the bayonet base therebetween and having internal corners between adjoining sides constituting guideways to slidably accommodate a bayonet pin of the bayonet base, each side having a seat facing toward the inner end of the socket and enterable laterally from an adjoining corner whereby a bayonet pin may enter therein from said corner, and an electrical contact in the bottom of the socket and resiliently depressible by an inserted bayonet base to resiliently lock the bayonet pin thereof in said seat.

2,320,628
PUSH BUTTON DEVICE
Werner Mahnken, Berlin, Germany; vested in the Alien Property Custodian
Application May 11, 1940, Serial No. 334,673
In Germany January 17, 1939
3 Claims. (Cl. 172—240)

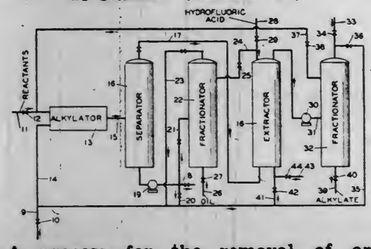
1. In a reversible electric motor assembly, a

rotor therefor shiftable between two extreme positions, a first motor winding acting upon energization to cause rotation of the motor in one direction and to axially shift the rotor to one of said extreme positions, a second motor winding acting upon energization to cause rotation of the



motor in the other direction and to axially shift the rotor to the other of said extreme positions, and means adapted to engage the rotor in a position intermediate said two extreme positions when neither of said motor windings is energized for maintaining the rotor in locked position.

2,320,629
TREATMENT OF PREDOMINANTLY SATURATED HYDROCARBON MATERIALS
Maryan P. Matuszak, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 26, 1941, Serial No. 395,282
18 Claims. (Cl. 196—10)



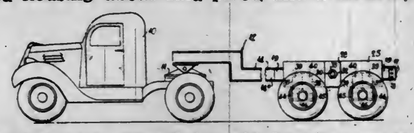
1. A process for the removal of organic fluorine compounds from predominantly saturated hydrocarbon materials containing the same, which comprises contacting such a hydrocarbon material with liquid hydrofluoric acid, separating the resulting hydrofluoric acid extract from the hydrocarbon material, and freeing the extracted hydrocarbon material from a small proportion of dissolved hydrofluoric acid.

2,320,630
TAENIACIDE
Orley J. Mayfield and Jack P. Henry, Charles City, Iowa, assignors to Dr. Salsbury's Laboratories
No Drawing. Application January 29, 1941, Serial No. 376,540
5 Claims. (Cl. 167—53.1)

4. A taeniacide containing areca nut and comprising as the essential active ingredient a quaternary nitrogen containng organic compound of the alkaloid group consisting of strychnine derivatives, muscarine and curare.

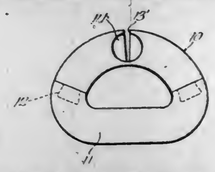
2,320,631
HEAVY DUTY TRAILER
Marvin W. McCombs, Statesville, N. C.
Application May 11, 1942, Serial No. 442,403
4 Claims. (Cl. 280—81)

1. Trailer construction comprising a chassis beam, a housing encasing said beam, said housing being secured intermediate its ends to said beam by means of a transverse pivot, the ends of the housing being substantially larger at the top and bottom portions than the beam which it encases to thereby permit limited oscillation of said housing about said pivot, and a transverse



wheeled axle secured to said housing on each side of said transverse pivot by means of a longitudinal pivot, said longitudinal pivot being disposed in a plane substantially parallel to a plane passing through the transverse pivot and positioned substantially at right angles to said transverse pivot.

2,320,632
METHOD OF PRODUCING MAGNET STRUCTURES
Archie J. McMaster, Highland Park, Ill., assignor to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application November 27, 1939, Serial No. 306,305
2 Claims. (Cl. 29—155.5)



1. The method of producing a magnet structure for electric meter and the like, which comprises forming a magnet pole piece member of low coercive force material having ends of such a shape as to become readily mechanically bound to a permanent magnet body when cast around them, and with a transverse slot intermediate such ends, said slot extending almost across the pole piece member from that edge thereof which will comprise the periphery of the final magnet structure, casting a permanent magnet body of high coercive force material with said magnet pole piece member inserted so that its ends are banded to the magnet body, the said slot allowing the pole piece member to be distorted about the slot when the permanent magnet body cools after casting whereby to relieve strains in the entire structure, and machining the resulting structure to final form wherein the pole piece member forms pole pieces of the final structure.

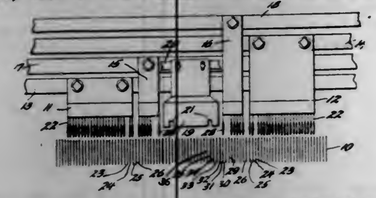
2,320,633
WATER SEALING COMPOSITION FOR OIL WELLS
David L. Mitchell and Harry Marks, Los Angeles, and Harry C. Beene, Long Beach, Calif.
No Drawing. Application November 16, 1940, Serial No. 366,010
4 Claims. (Cl. 106—93)

1. A water sealing composition for oil wells comprising oil well cement 70% by volume, unslacked lime 15% by volume, beidellite 10% by volume, and iron oxide 5% by volume.

2,320,634
KNITTING MACHINE
Louis H. Mendelsohn, Paterson, N. J.
Application March 2, 1942, Serial No. 433,048
5 Claims. (Cl. 66—89)

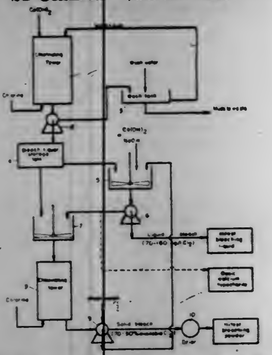
1. In a full-fashioned knitting machine, nar-

rowing mechanism comprising a covering knife having gaps in its lower edge adjacent each side of the knife, a narrow comb at each side of the knife, and a wide comb beyond each narrow



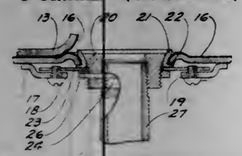
comb, each narrow comb having a series of points interrupted at the second and third places from the inner end of the series, and each wide comb having a series of points interrupted at the third place from the inner end of the series.

2,320,635
MANUFACTURE OF HIGH TEST BLEACH
Francis C. Mericola and Howard F. Roderick, Wyandotte, Mich., assignors, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan
Application January 23, 1940, Serial No. 315,226
21 Claims. (Cl. 23—86)



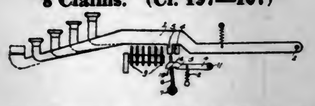
1. In the manufacture of high test bleach, the steps of chlorinating a solution carrying basic calcium hypochlorite and saturated with respect to normal calcium hypochlorite, all of the normal calcium hypochlorite present being in solution, and then separating out the precipitated normal calcium hypochlorite.

2,320,636
TANK CONNECTION
John W. Miller, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application October 6, 1941, Serial No. 413,748
3 Claims. (Cl. 285—50)



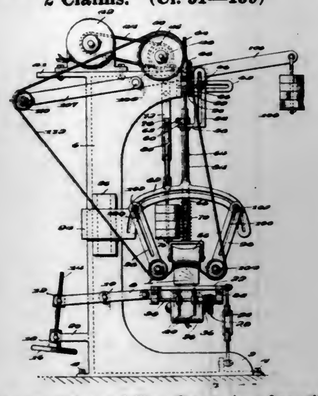
1. In a fluid container having an opening in a wall thereof, means for connecting a pipe to said container at said opening, said means comprising a generally frusto-conical spud located in said opening, a malleable ring surrounding the spud and located in said opening, said ring having a portion of less external diameter than the diameter of said opening, the greatest diameter of said spud being slightly less than that of said opening and greater than the internal diameter of said malleable ring, means engaging the spud exteriorly of the container and attached to the latter for holding the spud against rotation relative to the opening, and screw threaded means connected to the spud exteriorly of the container for drawing the spud axially of the opening and said ring to expand said ring tightly against the container wall about the opening.

2,320,637
SELECTIVE BLOCKING ARRANGEMENT FOR THE KEYBOARDS OF TELEPRINTERS HAVING COMPLETE KEYBOARDS
Gino Modigliani, Ivrea, Aosta, Italy; vested in the Alien Property Custodian
Application September 28, 1939, Serial No. 296,922
In Italy September 29, 1938
8 Claims. (Cl. 197—107)



8. In a teleprinting or like apparatus having a keyboard with two key lever groups, each key lever group being provided with respective aligned projections; a blocking member extending transversely of said key lever groups and being swingable into two predetermined positions for cooperation with the aligned projections of the respective key lever groups, a projection positioned on said member, two key levers each adapted to shift said member into one of its positions, and a swingable lever engaging said projection of said blocking member to maintain said member in each of its positions.

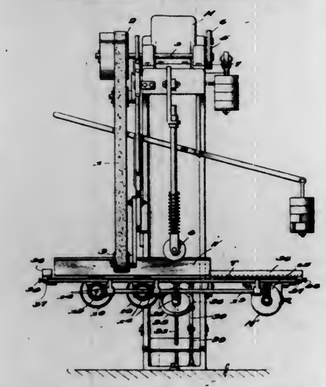
2,320,638
SANDING BELT MACHINE
Fred H. Morris, High Point, N. C.
Application February 14, 1941, Serial No. 378,980
2 Claims. (Cl. 51—139)



2. In a machine of the character described, the combination of a main frame, a work support, links pivoted to the main frame and to the work support, a cross-bar connecting the links, means of adjusting the level of the work support including a threaded shaft swiveled to a part of the main frame and threaded through the cross-bar for tilting the work support from one end, adjustable means at the opposite end of the work support connected therewith and with the main frame, thereby providing means of adjustment of the work support from opposite points, where-

by the work support may be positioned in any desired slanting direction by means of the two adjustments which are independent of each other, an endless sanding belt, means for pressing the belt against the work, and means for driving said belt.

2,320,639
SANDING BELT MACHINE
Fred H. Morris, High Point, N. C.
Application March 30, 1942, Serial No. 436,881
4 Claims. (Cl. 51—139)



1. A sanding machine including a frame, a table divided lengthwise into at least two leaves, means for angularly adjusting said leaves independently or as a unit whereby they may be held in alignment or at various angles with respect to each other to accommodate the work or stock being sanded.

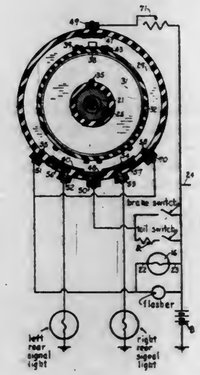
2,320,640
MECHANISM FOR THE PROPULSION OF WATERCRAFT
René Joseph Louis Moineau, Paris, France; vested in the Alien Property Custodian
Application July 29, 1939, Serial No. 287,297
In France August 8, 1938
3 Claims. (Cl. 115—32)



1. In combination with a watercraft having a hull, a mechanism for propelling said watercraft comprising at least one blade arranged in a substantially horizontal position below the waterline of said hull, said blade having a transverse profile whose thickness decreases from one longitudinal edge of the blade to the other, elements associated with said blade for steering said watercraft, and means for imparting to said blade a reciprocating beating movement substantially at right angles to the chords of said blade.

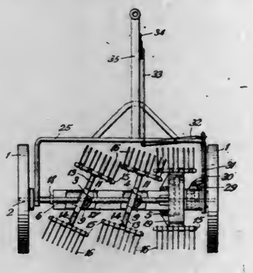
2,320,641
VEHICLE SIGNAL
Howard J. Murray, Jr., New York, N. Y.
Continuation of application Serial No. 89,700, July 9, 1936. This application May 10, 1939, Serial No. 272,798
10 Claims. (Cl. 177—337)

1. A manually closable switch; a signal circuit including the switch; a control circuit also including the switch; a current source common to both circuits; said switch designed to energize both said circuits when closed; an electrically energized time-delay means in said control circuit; said time-delay means entering into mechanical engagement with the said switch upon manual closing of the latter and designed to operate approximately after a predetermined period



of uninterrupted energization of the said control circuit following the closing of said switch to result in an opening of said switch and a consequent deenergization of both said circuits; an interruption in the energization of the said control circuit during the said predetermined period resulting in a deenergization of the said time-delay means, a postponement of its operation, and a corresponding maintenance of the energization of the said signal circuit.

2,320,642
HAY HARVESTING MACHINE
Martin Neidhart, Bonstetten, Zurich, Switzerland
Application August 16, 1941, Serial No. 407,196
In Switzerland August 17, 1940
8 Claims. (Cl. 56—372)



1. A hay harvesting machine, comprising a substantially horizontal shaft, a plurality of tine fork carriers mounted on said shaft and revolvable about the axis of said shaft in planes extending transversely with respect to the shaft, and bearings for mounting said fork carriers, said bearings being swingable and adjustable about an axis perpendicular to the axis of the shaft so that the carriers can be adjusted to obliquely oppositely facing positions.

2,320,643
WELL SURVEYING METHOD AND APPARATUS
Jacob Neufeld, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application May 14, 1941, Serial No. 393,495
5 Claims. (Cl. 250—83.6)



1. Method of geophysical prospecting that comprises placing quantities of radiation-emitting material within a frangible envelope at selected locations within the locality being studied, permitting the material to distribute itself within the locality in a manner related to a significant geological characteristic thereof, and detecting variations in said characteristics by measuring radiation in said locality.

2,320,644
WAX COMPOSITION
Edward A. Nill, Detroit, Mich., assignor to The H. A. Montgomery Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application August 15, 1938, Serial No. 225,046
13 Claims. (Cl. 106—268)

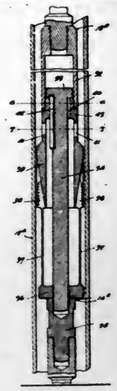
13. A wax composition having improved tensile strength, high melting point, fine grain structure, and increased water-repellent characteristics, which comprises about 1% to about 7.5% of at least one water-insoluble soap and about 1% to about 7.5% of a member of the group including the higher fatty acid anilides and their homologues, and the balance of hydrocarbon waxes having properties which are inferior to those of the composition.

2,320,645
WAX COMPOSITION
Edward A. Nill, Detroit, Mich., assignor to The H. A. Montgomery Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application September 14, 1938, Serial No. 229,917
11 Claims. (Cl. 106—245)

1. A wax composition having improved properties which comprises less than approximately 10% of hydrogenated glycerides, less than approximately 10% of a metallic fatty acid soap, and the balance mineral wax, said composition being characterized by its fine grain, increased tensile strength, increased melting point, and high water-repellency.

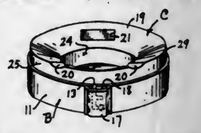
2,320,646
ROD CATCHER
Charles M. O'Leary, Houston, Tex.
Application December 13, 1940, Serial No. 369,997
7 Claims. (Cl. 255—28)

4. A rod catcher comprising upper and lower connecting bodies, an expander having an upper apertured sleeve depending from the upper body and provided with wall openings, a solid, axial stem connecting said upper and lower bodies for limited relative lengthwise movement between said bodies, and an expansible slip assembly slidably mounted upon said stem, said expander being spaced annularly from the stem and forming with said sleeve openings a fluid by-pass between the



stem and the expander communicating above and below the expander.

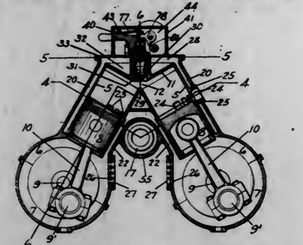
2,320,647
PORTABLE ASH TRAY
Stanton Phillips, Atlantic City, N. J.
Application June 24, 1941, Serial No. 399,520
2 Claims. (Cl. 220—20.5)



1. In a portable ash tray combination, a base member comprising a bottom wall and a cylindrical side wall extending upwardly from the bottom wall, a top member comprising an annular wall and inner and outer spaced apart cylindrical skirts extending downwardly from the inner and outer margins of said annular wall, said outer skirt including a lower section telescopically slidable within said cylindrical side wall, and an upper section emerging therefrom, and a cover member comprising a top wall and a cylindrical peripheral wall extending downwardly from the top wall, said peripheral wall being telescopically slidable over the upper section of said skirt, and said annular wall being provided with an opening forming a pocket, said pocket being completely bounded by side walls extending downwardly from said annular wall adjacent the opening, and a bottom wall in a plane disposed between the upper and lower ends of said skirts.

2,320,648
DIESEL ENGINE
Frederic W. Plumb, Huntington, N. Y.
Application July 27, 1942, Serial No. 452,430
11 Claims. (Cl. 123—53)

9. A two-cycle opposed-piston engine of the compression-ignition internal combustion type, consisting of a plurality of like units cooperatively assembled for joint operation, each unit comprising a water-jacketed bent cylinder having an intermediate compression-ignition chamber with opposite angularly extending piston bores, and a piston in each bore operatively connected to a crank shaft mounted in a crank casing extension of said bore, a fuel injecting mechanism mounted over said compression-ignition cylinder chamber having an injection plunger opening to said chamber and a shaft for operating said plunger, a main cam shaft mounted at a central location equidistant from each cam shaft and from said plunger operating shaft, intermeshing gears mounted on said shafts within a casing on the outer face of an end unit, each crank shaft having an end coupling engagement with the crank shaft of its adjacent unit, said plunger operating shaft co-

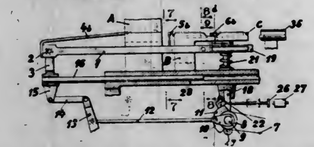


operatively actuating the respective injection plungers of the respective fuel injecting mechanisms, a pump operated by one cam shaft for circulating water through the water jacket of all said cylinders, a pump operated by the other cam shaft for circulating lubricating oil to all of said crank cases, and means for simultaneously and determinedly controlling the amount and timing of the plunger injected fuel oil charges to the compression-ignition chambers of the respective cylinders.

2,320,649
COFFEE MOLDING COMPOUND
Herbert S. Polin, New York, N. Y.
No Drawing. Application August 7, 1940, Serial No. 351,666
1 Claim. (Cl. 260—3)

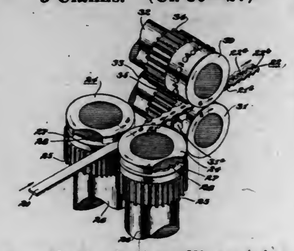
A plastic comprising a relatively small percentage of rubber material, and a relatively larger percentage of a moldable plastic product of reaction, under heat and pressure, of constituents of the coffee bean from which a substantial part of the oils have been removed.

2,320,650
PACKAGING MACHINE
Vladimír Dmitrijevič Popov, Prague - Dejvice, Czechoslovakia; vested in the Alien Property Custodian
Application December 15, 1939, Serial No. 309,379
In Czechoslovakia December 6, 1938
7 Claims. (Cl. 226—5)



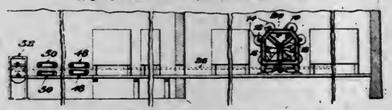
1. In a machine for stacking and packaging articles of uniform shape comprising a bed over which said articles are advanced, a member reciprocable in a plane substantially parallel to said bed, driving means to move said member forward and backward in a predetermined cycle, a pusher element mounted on said member and displaceable relative thereto in a plane disposed at substantially right angles to said bed between an operative end position in which it is adapted, during a forward stroke of said reciprocable member, to engage and advance an article on said bed, and an inoperative end position, in which it moves at a distance from such article, the combination of resilient means urging said pusher element into said operative end position, a cam coupled to said driving means and acting upon said pusher element to displace the same, during each return stroke of said reciprocable member, against the action of said resilient means, to its inoperative position, and means to retain said pusher element in said inoperative position during the forward stroke of said member in case of faulty operating conditions.

2,320,651
SLIDE FASTENER MANUFACTURE
Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application February 24, 1940, Serial No. 320,628
5 Claims. (Cl. 80—27)



1. In a method of die rolling strips of interlocking slide fastener members, the steps of die rolling the lateral strip edges substantially to finished form while reducing the strip width to less than the width of the finished strip, then roll-coining the partially preformed strip to form the other surfaces thereof while bringing the preformed lateral surfaces firmly against the walls of the coining die cavities.

2,320,652
MACHINE FOR CUTTING AND FOLDING TISSUE
Harry Preston, Brooklyn, N. Y., assignor to San-Nap-Pak Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application August 5, 1941, Serial No. 405,552
20 Claims. (Cl. 270—40)

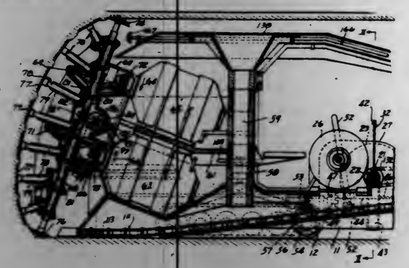


3. A machine of the class described comprising a flying shear; a series of stands each mounting a plurality of rolls of tissues, and having a folding device associated with each such roll; a pair of collector rollers mounted on each such stand receiving a folded web from each roll and bringing the several folded webs into superimposed relationship; a polished surface receiving, in sequentially superimposed relationship, the superimposed webs from each of the several stands; and means for drawing all of the webs over said polished surface for presentation to said flying shear.

2,320,653
MINING APPARATUS
Erskine Ramsay, Birmingham, Ala.
Application August 15, 1941, Serial No. 406,963
8 Claims. (Cl. 262—9)

8. In a mining machine, the combination with

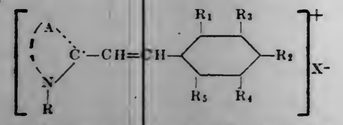
supporting frame work, of a supplemental frame mounted for horizontal oscillatory movement about a vertical axis and before an upright mine face, coal cutting mechanism comprising a plurality of cutters mounted on the supplemental frame to oscillate therewith and adapted to cut coal in both directions of their oscillatory movement, power means for driving the cutters, re-



versing gear means interposed between the power means and the cutters to effect oscillatory movement thereof, and means to advance the machine toward the mine face during the oscillatory movement to effect a cutting action which is a resultant of the oscillatory motion plus the forward motion of the machine as a whole during both directions of the oscillatory movement.

2,320,654
SENSITIZATION OF PHOTOGRAPHIC EMULSIONS
Oskar Riester, Dessau-Haideburg, Germany; vested in the Alien Property Custodian
No Drawing. Application February 17, 1942, Serial No. 431,265. In Germany August 8, 1940
3 Claims. (Cl. 95—7)

1. A photographic emulsion containing as the sensitizer a dyestuff of the following general formula:



wherein A means groups of molecules necessary to complete a ring selected from the class consisting of a 5-membered and a 6-membered ring usual in cyanine dye art,

R means a radical selected from the class consisting of alkyl, aryl, alkylenecarboxylic acid,

R_1 and R_2 mean radicals selected from the class consisting of hydrogen and hydroxyl, at least one of said radicals always being hydroxyl,

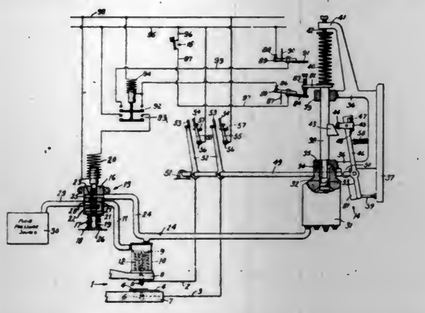
R_3 and R_4 mean radicals selected from the class consisting of hydrogen, halogen, alkyl and alkoxy, at least one of said radicals always being halogen,

R_5 means a radical selected from the class consisting of hydrogen and alkyl,

X means an anionic acid radical.

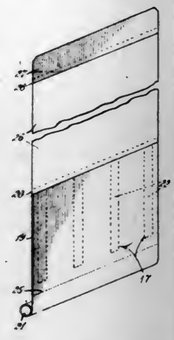
2,320,655
PERIODICALLY OPERATING ELECTRIC SWITCH
Charles H. Rippl, Cleveland, Ohio, assignor to The Clark Controller Company, Cleveland, Ohio, a corporation of Ohio
Application January 13, 1937, Serial No. 120,360
28 Claims. (Cl. 175—375)

28. In an electro fluid pressure apparatus an electrically energizable circuit, a source of fluid pressure, a source of electric current, a current timing electric switch mechanism comprising a reciprocatory element movable by fluid pressure in one direction to close the switch and by continued pressure effected movement in the same direction, to open it, to initiate and interrupt the flow of electric current from the current source to



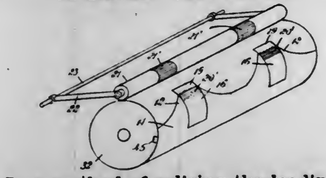
the circuit, magnetic valve means for controlling communication of fluid pressure from the source to the fluid pressure movable element manually actuable contactor means for actuating the magnetic valve means and means for maintaining said magnetic valve means actuated independently of the manually actuable means until after the electric current is interrupted.

2,320,656
WEB ROLL CHANGING
Oscar C. Roesen, Scarsdale, N. Y., assgnor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application July 22, 1941, Serial No. 403,515
27 Claims. (Cl. 242—58)



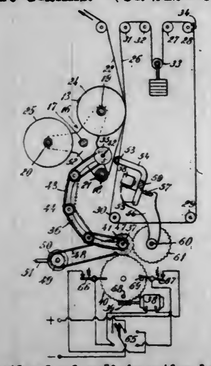
5. A web roll arranged for making a high speed splice comprising a substantially cylindrical roll wound from a continuous web around a central core, a layer of self-sticking adhesive adhering to one surface of the web substantially transversely of its leading outer end and having an exposed surface capable of tenaciously adhering to a similar adhesive layer surface but incapable of adhering to the uncoated web surface, and a layer of similar self-sticking adhesive adhering to the other surface of the web adjacent its inner core end for a longitudinal distance at least equal to the circumference of the web roll.

2,320,657
WEB ROLL SPLICING METHOD AND APPARATUS
Oscar C. Roesen, Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application August 6, 1941, Serial No. 405,630
14 Claims. (Cl. 242—58)



13. In a method of splicing the leading end of a web on a new web roll to a web running from an expiring web roll, the steps of applying a tacky adhesive to the outer surface of the leading end of the web on the new roll, covering said tacky adhesive with a removable shield, accelerating the new web roll by contact with the running web, and applying a roller to the surface of the new web roll to strip the shield therefrom.

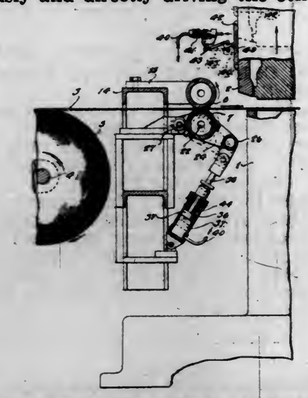
2,320,658
WEB ROLL REPLACEMENT
Oscar C. Roesen, Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application January 13, 1942, Serial No. 426,557
10 Claims. (Cl. 242—58)



1. In a method of splicing the leading end of a web on a new web roll to a web running from an expiring web roll, the steps of applying and drying a layer of self-sticking adhesive on the outer surface of the web on the new roll substantially at its leading end, contacting the cylindrical surface of the new roll with the inner surface of the running web whereby the new roll is accelerated, and fixing to the inner surface of the running web approaching the new web roll a flexible sheet having an exposed surface carrying a self-sticking adhesive whereby upon contact of such sheet carried adhesive with the self-sticking adhesive layer on the new roll, the webs are spliced together through said sheet.

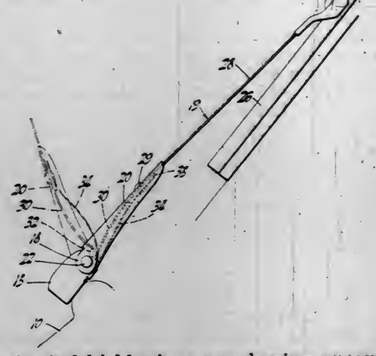
2,320,659
MATERIAL HANDLING DEVICE
Henry Sahlin, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 17, 1941, Serial No. 411,093
9 Claims. (Cl. 164—49)

1. A material handling device for handling material without scratching or marring the same comprising a pair of rollers adapted to move relatively toward and away from each other and to receive work therebetween, means for driving the rollers at substantially the same speed, the said means directly driving one of the said rollers continuously and directly driving the other of said



rollers only when the rollers are moved relatively away from each other whereby when the rollers are moved toward each other they are both rotating at substantially the same speed and grip the work therebetween and transport the same and the second mentioned roller serves as an idling pressure roller.

2,320,660
WIPER ARM FOR WINDSHIELD CLEANERS
Earl V. Schaal, East Aurora, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application March 15, 1941, Serial No. 383,594
13 Claims. (Cl. 15—255)



1. A windshield wiper arm having an annular shaft engaging member formed to interlock with a drive shaft for joint rotative movement, said wiper arm and said annular member being pivotally connected for relative pivotal movement in a plane substantially perpendicular to a windshield, resilient means normally urging said wiper arm toward the windshield, and latch means engageable with the drive shaft to restrain axial movement of said annular member with respect thereto and thereby effect assembly of said annular member with respect to such shaft, said latch means comprising an elongate flexible member secured at one end to said wiper arm

with its other end eccentric with respect to said pivotal connection to provide a latch portion, whereby pivotal movement of said wiper arm toward and away from a windshield moves said latch portion to and from locking position with respect to said annular member and the shaft.

2,320,661

PROCESS OF REMOVING PHOSPHORUS AND ARSENIC COMPOUNDS FROM VANADATE SOLUTIONS

Kurt Schneider, Bitterfeld, Germany; vested in the Alien Property Custodian

No Drawing. Application January 13, 1939, Serial No. 250,713. In Germany February 12, 1938
6 Claims. (Cl. 23—22)

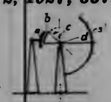
1. A process for removing phosphorus and arsenic compounds from alkali metal vanadate solutions which comprises treating the alkali metal vanadate solution with solid calcium vanadate so as to precipitate the arsenates and phosphates present in the form of the corresponding insoluble calcium compounds.

2,320,662

ELECTROSTATIC VOLTMETER

Richard Schroeder, Aachen, Germany; vested in the Alien Property Custodian

Application January 23, 1939, Serial No. 252,510
In Germany January 22, 1938
4 Claims. (Cl. 171—95)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. An electrostatic voltmeter comprising a pair of relatively movable electrodes, one of said electrodes being rotatable around a substantially horizontal axis, being normally yieldably suspended in juxtaposition with the other electrode, being normally substantially offset from its axis of rotation towards the other electrode, and the center of gravity of said one electrode being slightly above and offset from its axis of rotation towards said other electrode, tension means substantially horizontally suspending said one electrode in juxtaposition with the other electrode, means for applying an electrostatic difference of potential between the relatively movable electrodes, and a voltage scale placed to indicate relative displacement between said electrodes, and a pointer operatively connected with said one electrode and arranged to play on said scale.

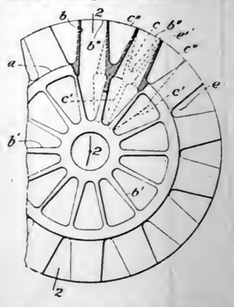
2,320,663

CENTRIFUGAL IMPELLER

Erich Schultz, Stuttgart-Rotenberg, Germany; vested in the Alien Property Custodian

Application May 28, 1940, Serial No. 337,617
In Germany June 6, 1939
7 Claims. (Cl. 103—115)

7. A centrifugal impeller formed with a first set of passages starting inward generally axially from one end face thereof and having a second set of passages starting inward generally axially from the other end face thereto, both sets curving gradually to generally radial directions and extending outwardly terminating in a single series of peripheral openings comprising openings of said first set interspersed with openings of said second set, said passages having a trapezoidally shaped cross section, the cross section of the passages being substantially uniform throughout their length and the walls between



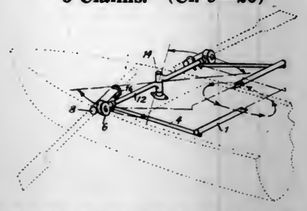
adjacent passages being of substantially uniform thickness through at least that part of their length in which said passages are interspersed.

2,320,664

OAR ACTUATING APPARATUS

Jean Victor Lucien Sertin, Paris, France; vested in the Alien Property Custodian

Application April 17, 1940, Serial No. 330,219
In France April 26, 1939
5 Claims. (Cl. 9—26)



1. In an oar actuating apparatus, in combination, two arms both horizontally pivoted at one end about a pivot secured on the axis of the boat, two rockers each mounted on the free end of said arms and adapted to rock in a vertical plane, two oars each fixed in one of said rockers, resilient means cooperating with said rockers and normally maintaining them in a position where the oar blades are out of water, a control bar connected with said arms by means of connecting rods, and means carried by said connecting rods and adapted to promote rocking of said rockers when the control bar is downwardly displaced.

2,320,665

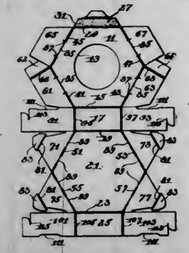
BOX

John P. Shearer, Newark, N. Y., assignor to Bloomer Bros. Company, Newark, N. Y., a corporation of New York

Application September 19, 1941, Serial No. 411,507
4 Claims. (Cl. 229—16)

1. A folding box of hexagonal shape comprising paper board stock cut, scored and folded to provide opposite, top and bottom walls of hexagonal shape, a rear side wall hinged to both of said hexagonal walls at corresponding edges thereof, a front side wall hinged to said hexagonal walls at corresponding edges thereof, side closure flaps hinged to the remaining edges of a first one of said hexagonal walls with the outer edges of said flaps resting upon the opposite hexagonal wall, a slit having closed ends formed in each of said flaps at the hinge connection

thereof with said first hexagonal wall, side closure flaps hinged to the remaining edges of the other of said hexagonal walls and each overlapping one of the closure flaps of said first hexagonal wall and having at its outer edge a locking tongue with a lateral width greater than the



length of said slit and inserted and locked therein, and additional side flaps hinged to the lateral edges of said front and rear side walls and extending along the remaining sides of the box and connected together in pairs inside said side closure flaps.

2,320,666

PROCESS OF COPYING PRINTED OR WRITTEN MATTER

Joseph F. Spainhour, Jr., Morganton, N. C., assignor of one-fourth to Nelson J. Jewett, Arlington County, Va.

No Drawing. Application September 21, 1939, Serial No. 295,997
16 Claims. (Cl. 95—5)

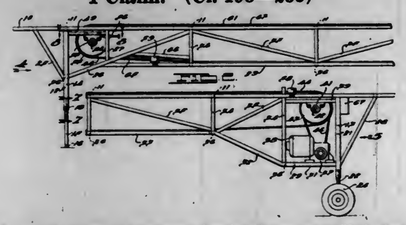
1. The process of copying matter, printed, written or drawn on a water absorbing material, with a medium causing variation of the absorptive characteristics in proportion to the amount of medium present, which process comprises: applying a film of a water solution of bleaching, development inhibiting material to the surface bearing the matter to be copied; transferring to the surface upon which the copy is to be produced, by contact and pressure, portions of the bleaching, development inhibiting material; the amount of said portions selectively determined by the variable absorption of the solution caused by the intensity present at various points of the medium in which the original matter is produced.

2,320,667

PORTABLE CONVEYER

Frank M. Smith, Dearborn, Mich., assignor to Clippert Brick Company, Dearborn, Mich., a corporation of Michigan

Application March 20, 1940, Serial No. 324,995
1 Claim. (Cl. 198—233)



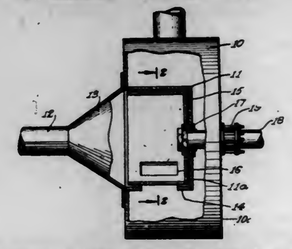
A portable conveyer including parallel frame elements, cross members for spacing said frame elements and forming a top element, parallel frame elements disposed below said first named frame elements which are also joined by cross members forming a bottom element, said top and bottom elements being joined by vertical and diagonal braces, supporting legs joined to said top element inwardly of the ends thereof, bracing means for said legs joined to said top and bottom elements, adjustable foot portions disposed in said legs at the one end of the conveyer, wheels for the legs at the other end of the conveyer, means for adjustably mounting said wheels on said last legs, rollers carried between the top and bottom frame elements, a belt over the rollers resting on the top and bottom elements, and means for driving one of said rollers mounted on said conveyer.

2,320,668

MECHANICAL EXHAUST SILENCER

Harry A. Smith, Garden City, N. Y.

Application August 15, 1941, Serial No. 406,960
11 Claims. (Cl. 181—64)



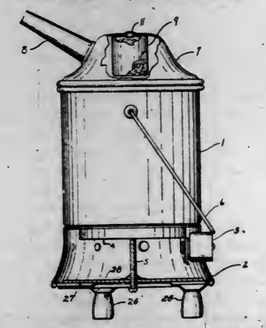
8. In a sound-dissipating device for an internal combustion engine, the combination of a chamber for receiving exhaust gases and sound pressure waves from an internal combustion engine, said chamber having at least one gas escape port therein, rotary valve means for opening and closing said port, means for rotating said valve means in time-phase relation to said engine to close said port intermittently to trap and dissipate sound pressure waves in said chamber and open said port intermittently to allow escape of exhaust gases, and means for adjusting said chamber and said rotary valve means relatively to each other to vary the phase relationship between said valve and said engine.

2,320,669

VAPORIZER

Joy B. Schmitt, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio

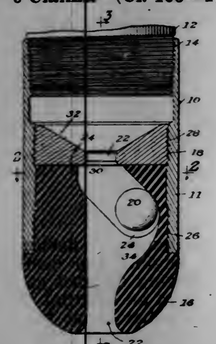
Application January 4, 1941, Serial No. 373,098
4 Claims. (Cl. 21—121)



1. In a vaporizer, a water receptacle, heating means associated with the receptacle for convert-

ing water into steam, a cover for the receptacle, an opening in the cover for the discharge into the atmosphere of the steam, a container for the medicine to be vaporized and discharged with the steam supported within the receptacle above the water, and an outlet from the medicine container for the medicinal vapor directed downwardly toward the surface of the water, sufficient space being provided within the receptacle to form a path exteriorly of the medicine container for the steam to use in reaching the discharge opening in the receptacle cover.

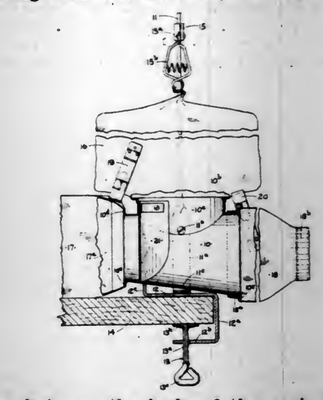
2,320,670
WELL CASING ATTACHMENT
Domer Scaramucci, Oklahoma City, Okla., assignor to Oil Equipment Engineering Corporation, Oklahoma City, Okla., a corporation of Oklahoma
Application July 12, 1939, Serial No. 284,084
9 Claims. (Cl. 166—1)



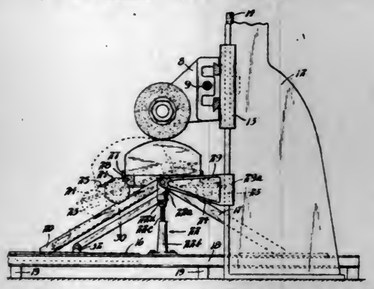
1. A casing attachment which comprises a tubular member adapted to be joined to a casing; frangible plug means in the tubular member, said plug means having a passageway therethrough with an enlarged portion intermediate its ends; valve means in the form of a floating ball within the enlarged portion of said plug passageway and having a diameter greater than the portions of the passageway adjacent the enlarged portion; and means for guiding the ball out of the passageway and retaining it laterally thereof when fluid is flowing through said passageway from above.

2,320,671
APPARATUS FOR FILLING CUSHIONS AND LIKE ARTICLES
Robert W. Stavely, Cleveland Heights, Ohio
Application May 23, 1941, Serial No. 394,825
2 Claims. (Cl. 226—43)

1. An apparatus for the purpose specified comprising a generally T-shaped casing having opposed branches and an intermediate branch, means for forming a tight connection between an outlet in a container and the intermediate branch, means for securing a receiving case to one of the opposed branches with the receiving opening of the said case in close engagement with the said branch, a sleeve secured to the other of the opposed branches of the casing and adapted to fit snugly about the arm of an operator, and a resilient flap valve secured to and located within said casing adjacent to the inner end of the branch of the casing to which the case is attached, the said valve adapted to yieldably engage the arm, wrist and hand of the operator while being inserted into and removed from the receiving case and normally closing communication between the body of the casing and the said branch.



2,320,672
MACHINE FOR GRINDING CURVED SURFACES
Albert A. Stein, Cold Spring, Minn., assignor to Cold Spring Granite Company, Cold Spring, Minn., a corporation of Minnesota
Application November 25, 1940, Serial No. 366,983
6 Claims. (Cl. 51—46)



1. A device for moving and guiding a piece of work beneath a grinding mechanism to produce curved surfaces comprising, a pair of oppositely inclined track sections converging toward a point below said grinding mechanism, means for supporting said track sections at various inclinations to the horizontal, a work-supporting truck having truck-supporting, track-engaging means at the opposite ends thereof, each of said truck-supporting means engaging one of said track sections for travel thereover, means on said truck including a plane supporting surface and clamping means for holding a piece of relatively thick solid material to be ground, and means for reciprocating said truck on said inclined track sections.

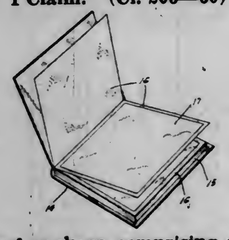
2,320,673
WELL TREATING FLUID
Troy J. Stewart, Great Bend, Kans., assignor to Leo Clark Morgan, Wichita, Kans.
No Drawing. Application August 3, 1940, Serial No. 351,187
6 Claims. (Cl. 252—8.55)

1. A well treating fluid comprising an acid capable of forming water soluble salts with the earth formation, said acid containing a compound selected from the group consisting of the monovalent and bivalent metal salts of a sulphonic acid having the formula

$$HSO_3—A—R—A—SO_3H$$

wherein A is a bivalent aromatic radical and R is a bivalent aliphatic radical, the compound being present in an amount sufficient to maintain the mud present in an oil well in a suspended and dispersed condition in the presence of strong acids.

2,320,674
PACKAGE
Donald D. Swift, Hartford, Conn., assignor to M. Swift & Sons, Inc., a corporation of Connecticut
Application May 13, 1940, Serial No. 334,942
1 Claim. (Cl. 206—60)



A gold leaf package comprising a plurality of paper sheets bound in book form between front and back covers, sheets of gold leaf filmed between said paper sheets, said gold being powdered with finely divided rouge, and a Cellophane sheet between said front cover and said paper sheets and between the back cover and said paper sheets, said Cellophane sheets having a smooth surface adapted to minimize friction between said cover and said paper sheets when said book is flexed.

2,320,675
ELECTRIC ARC WELDING OF MANGANESE BRONZE
Clinton E. Swift, Hales Corners, Wis., assignor to Ampco Metal, Inc., Milwaukee, Wis., a corporation of Wisconsin
No Drawing. Application July 4, 1942, Serial No. 449,805
8 Claims. (Cl. 219—10)

5. The process of electric arc welding stock of copper-zinc alloys, comprising establishing a welding arc with the work as one electrode, progressively supplying to said arc aluminum bronze weld metal, and fusing the aluminum bronze with the metal of the work to provide a dense weld.

2,320,676
ARC WELDING ELECTRODE
Clinton E. Swift, Hales Corners, Wis., assignor to Ampco Metal, Inc., Milwaukee, Wis., a corporation of Wisconsin
No Drawing. Application July 24, 1942, Serial No. 452,170
5 Claims. (Cl. 219—8)

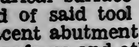
2. A covered arc welding electrode of aluminum bronze substantially free of iron.

2,320,677
COVERING FOR ARC WELDING ELECTRODES
Clinton E. Swift, Wauwatosa, Wis., assignor to Ampco Metal, Inc., Milwaukee, Wis., a corporation of Wisconsin
No Drawing. Application September 26, 1942, Serial No. 459,843
7 Claims. (Cl. 219—8)

1. A covering for arc welding electrodes of the class described comprising one or more fluorides, a binder of sodium silicate, and a substantially inert filler material to increase the mechanical strength of the covering for handling and shipping purposes.

2,320,678
SYNTHETIC TANNINS
Edmond Marie Tassel, Senlis, France; vested in the Alien Property Custodian
No Drawing. Application October 19, 1939, Serial No. 300,233. In France November 25, 1938
6 Claims. (Cl. 260—49)

1. A process for the manufacture of synthetic tannins consisting in condensing with alkaline sulphites, in an aqueous medium and with gradual addition of a strong acid during the condensation, methylol derivatives of phenols of the generaal formula:



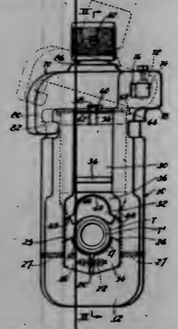
in which R is a member of the group consisting of alkyl, aryl, hydroxyaryl, aralkyl, hydroxyaralkyl and cycloalkyl radicals.

2,320,679
BOLT ROTATING TOOL
John J. Taylor, Wadsworth, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Original application June 21, 1940, Serial No. 341,715. Divided and this application June 11, 1942, Serial No. 446,673
2 Claims. (Cl. 81—90)



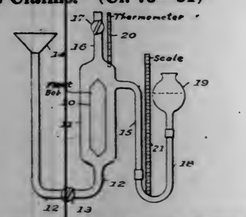
1. A tool for rotating a bolt having its head castellated to provide abutments, the inner faces of which are substantially semi-cylindrical surfaces, said tool comprising a bar having an operating portion at one end bent at an angle to the axis of said bar, a notch adjacent said one end, the surface of said notch being curved to conform to the curvature of the inner surfaces of said abutments, the distance from the axis of curvature of said notch to the farthest free end point of said operating portion being slightly less than the distance between the axis of curvature of the inner surface of one of said abutments to the nearest point on the surface of the next adjacent abutment so that when the surface of said notch contacts the cylindrical surface of one of said abutments the end of said tool may be swung past the next adjacent abutment about the axis of the contacting surfaces and other curved surfaces formed on the inner side of said bent operating portion having a curvature adapted to conform to said abutments, said second surfaces employable when said bar is rotated about its own axis.

2,320,680
PRESS
Robert Temple, Pittsburgh, Pa.
Application April 10, 1941, Serial No. 387,926
17 Claims. (Cl. 140—113)



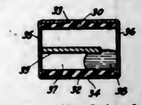
1. Apparatus for compressing a plurality of relatively telescoping members together comprising a frame, a piston slidably mounted on the frame, an anvil associated with the frame in alignment with the movement of the piston, a plurality of dies carried on the anvil and adapted to engage with portions of the periphery of a member, means yieldably holding the dies apart, a die carried by the piston and adapted to engage with a portion of a member, said die having oppositely inclined side portions engaging in the operation of the apparatus with similarly inclined side portions on the first-named dies to force the first-named dies together against the action of the yieldable means, a breech associated with the frame and piston and adapted to receive an explosive charge, a breech block removably positioned over the breech, means for detonating an explosive means carried by the breech, means for clamping the members to be compressed in the operating position, and means for holding the piston against movement until a predetermined pressure has been reached by the detonated explosive means, said last-named means including a strip of material having a portion thereof adapted to be sheared when the predetermined pressure has been reached and then moved along to present another portion for the next operation of the apparatus.

2,320,681
METHOD OF ANALYZING EARTH FORMATIONS
Hubert H. Thompson, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application May 21, 1940, Serial No. 336,411
3 Claims. (Cl. 73—51)



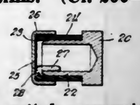
2. In a method of well logging wherein a plurality of samples of earth formations are taken at a plurality of vertically spaced points, the improvement comprising treating at least a portion of each of said samples with a liquid of known density, recovering at least a portion of each of said liquids, separately determining the pressure change necessary to render the apparent density of the recovered liquids equivalent to the initial known density of the treating liquid.

2,320,682
MERCURY SWITCH
Charles W. Trautman, Elkhart, Ind., assignor, by mesne assignments, to Herbert E. Bucklen, Jr., Elkhart, Ind.
Application December 6, 1940, Serial No. 368,779
3 Claims. (Cl. 200—152)



1. In a switch, a cylindrical insulating sleeve, a pair of cup-shaped electrode caps pressed over opposite ends of said sleeve and held in insulated relation thereby, a body of mercury in said sleeve and movable axially along the internal surface of said sleeve, said cap members having their internal facing surfaces exposed to said mercury at opposite ends of said sleeve, and an electrode pin on one of said cap members projecting axially through said sleeve to a point adjacent the other cap member and radially spaced from said internal sleeve surface a distance less than the meniscus height of said body of mercury, whereby said mercury contacts said pin at all times and is stabilized against undesired motion thereby.

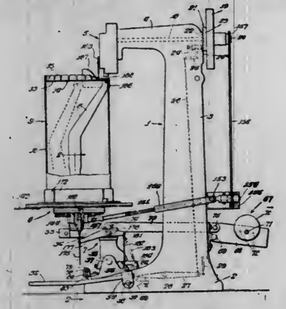
2,320,683
MERCURY SWITCH
Charles W. Trautman, Elkhart, Ind., assignor, by mesne assignments, to Herbert E. Bucklen, Jr., Elkhart, Ind.
Application July 17, 1941, Serial No. 402,759
3 Claims. (Cl. 200—152)



1. A mercury switch comprising a first cup-shaped metallic electrode having a projecting cylindrical sleeve, said sleeve having an outwardly beveled end on the projecting end thereof, an insulating sleeve pressed thereover and of a length equal to said sleeve, a second metallic electrode cap frictionally held on said insulating sleeve, an insulating ceramic ring clamped between the end of said first electrode sleeve and the inner face of said cap to hold said cap in spaced relation to the the end of said first electrode sleeve, a body of mercury in the chamber formed by said electrodes, said ring being of an internal diameter such that said beveled end and ring define an annular well between said cap and said electrode sleeve, stabilizing the mercury when in contact between said cap and said first electrode.

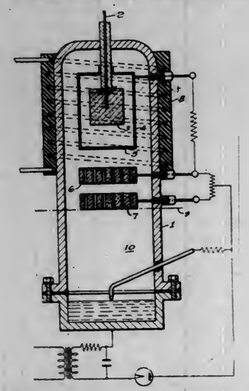
2,320,684
STAPLING MACHINE
Raymond H. Van Saun, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application June 15, 1940, Serial No. 340,790
10 Claims. (Cl. 93—55.1)

1. A mechanism for stapling tubular containers having flat closure elements adapted to be secured to a tubular body blank provided with tab parts extending from the body blank and arranged, when folded down, to overlap the flat closure element; said stapling mechanism comprising a rotary table adapted to support a tubular container, a staple driving mechanism, a staple clinching anvil, means for clamping the container to the rotary table, and means for rotating the table and the container clamped thereto in a



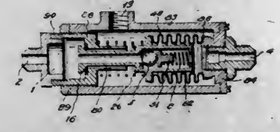
step-by-step manner whereby rotation of the table will cause successive edge portions of the container and closure element to be presented to the stapling mechanism, and means operative upon movement of the container to move the tabs on the tubular body from aligned position with the tubular body wall into flatwise engagement with the closure element to present successive portions thereof to the stapling mechanism.

2,320,685
VAPOR ELECTRIC DEVICE
Hans von Bertele, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian
Application May 1, 1941, Serial No. 391,341
In Germany January 22, 1940
7 Claims. (Cl. 250—27.5)



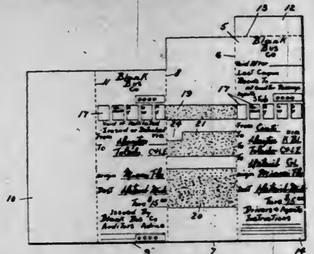
1. An electric discharge device comprising a container defining a discharge space, an anode in said space, a cathode spaced from said anode, an anode stem connected to said anode, said stem passing through the container wall, a shield about the anode, a grid-like end member in said shield, a plurality of control grids between said anode shield and said cathode, said grids being spaced from each other and from the side wall of the container a distance less than the critical breakdown distance at the pressure prevailing under operating conditions and means for maintaining a temperature gradient in the space between the end of the anode shield and the surface of the control grid nearest to the cathode.

2,320,686
PRESSURE CONTROL VALVE
Charles Raymond Waseige, Rueil-Malmaison, France; vested in the Alien Property Custodian
Application March 6, 1941, Serial No. 382,105
In France February 27, 1940
4 Claims. (Cl. 137—153)



1. A control valve more particularly for a plant for distributing air on aircraft including a body provided with two internal chambers, a passage between said two chambers, an inlet opening to the first chamber, a tubular member mounted to reciprocate in said passage and projecting in the other chamber, said tubular member being provided with an enlarged portion forming a by-pass valve adapted to obturate said passage, an outlet valve carried by said member to allow the gas only to flow within said member from said first chamber, said further chamber being provided with an outlet and a by-pass, a pressure responsive member within said further chamber forming part of said tubular member, gas tight means between one face of said pressure responsive member and said outlet, said face being opposite said by-pass valve whereby pressure of the gas in said outlet beyond said outlet valve urges the by-pass valve in its opening direction and resilient means urging said outlet valve towards its closing position.

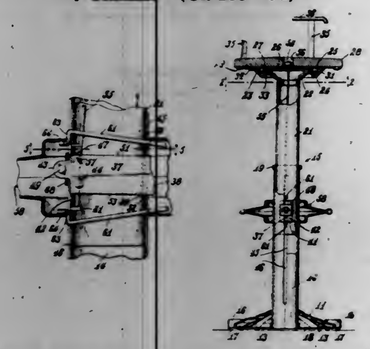
2,320,687
TRANSPORTATION TICKET OR OTHER PAPER
George C. Wehmann, Jr., New Richmond, Ohio
Application August 1, 1941, Serial No. 405,051
2 Claims. (Cl. 282—12)



2. A bus or other transportation ticket comprising a sheet of paper folded in back-and-forth fashion along parallel tear lines to provide a series of overlying sections, the face of one of the outer sections having appropriately designated spaces for indicating thereon in progressive succession the units or stages of a total trip, and areas of duplicating material disposed on the rear of said sections in predetermined relative positions such that each section below said total-trip section will be inscribed with only one unit of the trip, said units being shown on successive sections whereby the latter may be removed in

order, as required, during the progress of a trip, said total-trip section being retained at the issuing point, or the like.

2,320,688
ADJUSTABLE STOOL
Louis Wesling, Chicago, Ill., assignor to Benjamin Franklin Forsyth, Chicago, Ill.
Application October 21, 1940, Serial No. 361,998
7 Claims. (Cl. 155—94)

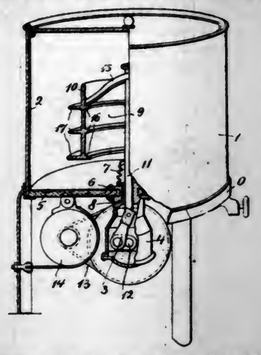


5. An adjustable seat comprising a cylindrical sleeve having diametrically opposed longitudinal slots, a hollow post having one end telescoped into one end of said sleeve and having diametrically opposed openings in its sides one aligned with each slot, a bar fitted into and movable with said post having its ends extending through the respective openings and slots, and a pair of clamp plates loosely mounted on one end of said bar, one of said plates being arranged in one of said openings against the inside face of the sleeve and the other disposed outside of said sleeve, said plates co-acting normally to clamp said sleeve therebetween to prevent relative movement of the sleeve and post in one direction.

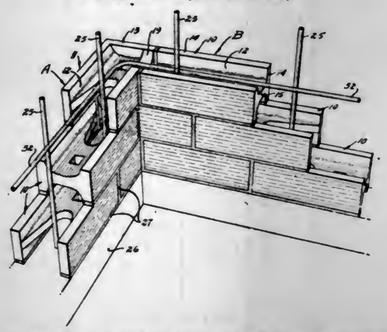
7. In an adjustable stool, in combination, a standard, an external flange on the upper open end of said standard, a plurality of recesses in the top face of said flange circumferentially spaced inwardly of its outside circumferential edge, a bearing in each recess, a retaining plate overlying the upper open end of said standard and having a circumferential raceway to receive said bearings, a seat arranged over said retaining ring, and means on said seat underlying the circumferential margin of said external flange to prevent separation of the parts.

2,320,689
WASHING MACHINE
Walter Wiest and Erwin Winkeler, Stuttgart-Unterturkheim, Germany; vested in the Alien Property Custodian
Application April 6, 1939, Serial No. 266,236
In Germany July 14, 1938
9 Claims. (Cl. 68—131)

1. In a washing machine having a chamber for receiving washing liquid and goods to be laundered, an agitator movably disposed in said chamber, said agitator comprising a tubular substantially cylindrical body which is open at each end, a plurality of annular ribs disposed on and projecting from the outside wall of said body, a plurality of annular ribs disposed on and projecting from the inside wall of said body, a reciprocating shaft projecting upward substantially centrally into said body, and means disposed inside said body near one end thereof for connecting said body with said reciprocating shaft, said ribs being so dimensioned that the distance between the outer edge of said outside ribs and the inside wall of said chamber substantially equals the distance between the inner edge of said inside ribs and said shaft, whereby the goods placed into said chamber for laundering can execute a circulating motion within the spaces defined by the walls of said agitator when said agitator is moved by said reciprocating shaft.



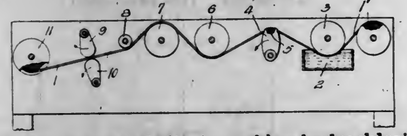
2,320,690
BUILDING WALL CONSTRUCTION
Wilmer H. Willis, Los Angeles, Calif.
Application July 30, 1940, Serial No. 348,352
2 Claims. (Cl. 72—30)



2. A wall construction embodying a building block of rectangular outline having a longitudinal recess in a horizontal surface and extending from end to end, so as to form two side flanges and a connecting web, and having a notch in said web extending inwardly from one end of the block to a substantial depth, and a second building block of rectangular outline having a longitudinal recess in a horizontal surface and extending from one end of the block to a point just short of the other end of the block, so as to form two side flanges, an end flange, and a connecting web, the first mentioned block being placed in an abutting relation to the side of the second block and in a position adjacent the flanged end of the second block, a notch in the side flange of the second block adjacent the end flange of said block, said notch coming opposite the end of the first block, a high point on the web of the second mentioned block at a position opposite said flange notch, a horizontal reenforcing bar positioned in the passageway formed by said longitudinal recesses in said blocks and said notch in the side

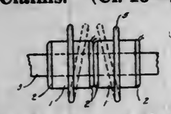
flange of the second block and supported by said high point on the web of the second mentioned block at an elevation superior to the remainder of said web, and the notches in the webs of said blocks forming vertical passages for reception of vertical reenforcing bars and/or cementitious grout.

2,320,691
RUBBER PRODUCT AND METHOD OF MAKING SAME
Le Moine Wright, Worcester, Mass.
Application January 31, 1940, Serial No. 316,627
3 Claims. (Cl. 117—7)



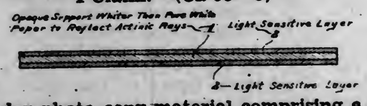
1. The process of altering rubber hydrochloride stock which is naturally non-elastic to a state of rubber hydrochloride elastic so as to preserve it in such latter state for dry storage for subsequent use without fear of deterioration by exposure to the elements, which consists in heat penetrating the rubber by heated paraffin to block resistance thereof to stretching, thereafter initially stretching the rubber, removing surface paraffin thereon, and again stretching the treated hydrochlorinated rubber.

2,320,692
INDUCTION FURNACE
James R. Wyatt, Llanerch, Pa., assignor to Ajax Electric Furnace Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application September 19, 1941, Serial No. 411,461
7 Claims. (Cl. 13—29)



7. An electric furnace of the submerged resistor type comprising refractory walls, a hearth, a pair of melting channels opening into and depending from said hearth, a pair of primary coils, similarly connected to a single phase source of alternating current, placed end to end and close to each other around a common iron core, each associated with one of said melting channels, said melting channels being positioned close to each other and close to the adjoining ends of their respective primary assemblies.

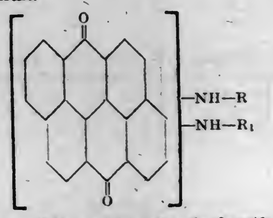
2,320,693
DUPLEX PHOTOGRAPHIC MATERIAL
Edwin C. Yauck, Brighton, and John Dessauer, Irondequoit, N. Y., assignors to The Haloid Company, Rochester, N. Y., a corporation of New York
Application January 8, 1941, Serial No. 373,652
1 Claim. (Cl. 95—8)



Duplex photo-copy material comprising a single ply opaque paper base or support coated on both sides with a light-sensitive photographic layer, the paper support containing substantially fifty percent more white pigment than pure white paper normally contains and possessing white surfaces on both sides that reflect substantially all actinic rays during exposure of the light-sensitive layer and prevent said rays penetrating the support to an appreciable extent and affecting the light-sensitive layer on the other side.

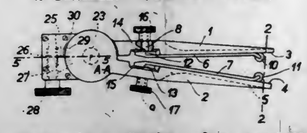
2,320,694
VAT DYESTUFF OF THE ANTHANTHRONE SERIES
Werner Zerweck and Rudolf Müller, Frankfort-on-the-Main-Fechenheim, and Kurt Bähr, Leverkusen I. G. Werk, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 14, 1940, Serial No. 340,546. In Germany June 27, 1939
3 Claims. (Cl. 260—359)

1. Vat dyestuffs of the anthanthrone series of the formula



wherein one of R and R_1 stands for the anthraquinone radicle and the other for the radicle of a benzoylamino-anthraquinone, which dyestuffs dye the vegetable fibers mostly blue to grey shades of excellent fastness properties, which dyestuffs are distinguished by their ability to be absorbed equally on the fiber, even on mixed fabrics.

2,320,695
MEASURING DEVICE
Gustav Zieher, Jena, Germany; vested in the Alien Property Custodian
Application September 4, 1940, Serial No. 355,373
In Germany October 6, 1939
2 Claims. (Cl. 33—179.5)

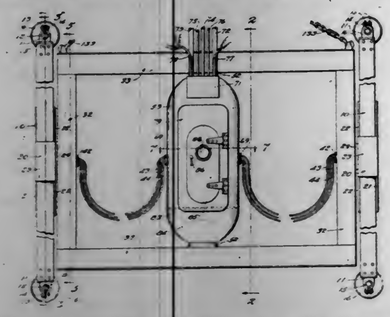


1. A measuring device for measuring the tooth-width of bevel gears comprising two measuring legs mounted pivotally about an axis, each of said legs being formed with measuring planes, facing each other, and with their intersecting line parallel to said axis, means for measuring the angle between said measuring planes, and means for measuring the pitch of teeth of bevel gears, said device having a further measuring plane prevented by one of said measuring legs, said further measuring plane being so situated that it contains the intersecting line of said measuring planes.

2,320,696
DIVER CONTROLLED SALVAGE BELL
Carl M. Zoll, Dundalk, Md., assignor to Universal Hydraulic Stress Equalizer, Inc., Dundalk, Md.
Application July 15, 1941, Serial No. 402,533
12 Claims. (Cl. 61—69)

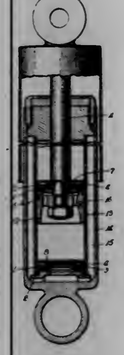
1. In salvaging bell apparatus, a bell body, a

frame surrounding said body and having the body mounted therein for lateral movement between the frame sides, supporting means for the frame, said frame having vertical and horizontal movements between said supporting means, electro-



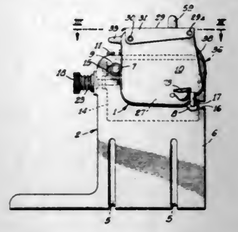
magnetic means for securing the supporting means on a ship hull, actuating means for effecting the movement of the body in the frame and for effecting the movements of the frame, and means within the bell body controlling operation of said actuating means.

2,320,697
SHOCK ABSORBER WITH SPRING-PLATE VALVE
Richard Binder, Schweinfurt, Germany; vested in the Alien Property Custodian
Application October 8, 1940, Serial No. 360,274
In Germany October 24, 1939
11 Claims. (Cl. 188—88)



1. A disc valve particularly adapted for hydraulic shock absorbers, and operating alternately as a throttle valve and a check valve, comprising a seat member, a valve body, said seat member and said valve body defining a valve passage, and a resilient disc disposed between said seat member and said valve body and having its outer periphery seated on said seat member for controlling the flow through said passage, said valve body being movable by the pressure of liquid acting on said valve body axially towards said seat member and in position to clamp the periphery of said disc between said seat member and said valve body, said seat member having a concave conical surface radially inwardly of its disc seating section, and said disc having a central opening to permit said disc to flex from valve check position axially into limiting contact with said conical surface and in position to permit flow through said opening and through said passage, said passage permitting flow of said liquid against said disc to exert flexing pressure on said disc.

2,320,698
INKING DEVICE FOR PRINTING APPARATUS
Edward P. Drake and Commodore D. Ryan, Los Angeles, Calif., assignors to National Postal Meter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application February 5, 1941, Serial No. 377,420
12 Claims. (Cl. 101—363)



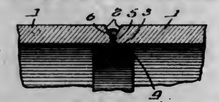
1. Apparatus of the type described comprising an ink reservoir, a drum dipping into ink in said reservoir and adapted to bear against and frictionally engage a roller for transfer of ink thereto by capillary attraction, a carriage and means rotatably mounting said drum on said carriage, an oscillatable arm within said reservoir, means detachably connecting said carriage to said arm for oscillation therewith, and spring means urging said arm in such direction as to move said drum toward said roller.

2,320,699
METHOD AND SYSTEM FOR TELEVISION COMMUNICATION
John H. Homrighous, Oak Park, Ill.
Application May 13, 1940, Serial No. 334,864
12 Claims. (Cl. 178—516)



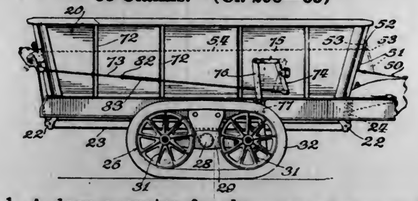
1. In a television system, a cathode ray camera tube having an image plate and an electron ray directed toward the image plate, a motor, means for moving the said electron ray to scan the said image plate, including mechanism driven at adjustable speeds by the said motor, said mechanism provided with apparatus and suitable circuits to control the movement of said electron ray in vertical directions during spaced periods of time, and provided with other apparatus and suitable circuits to control the movement of said electron ray in horizontal reciprocating directions, said mechanism also provided with a half wave rectifier, and suitable circuits for adjusting the said electron ray vertically, during alternate periods, a distance equal to the space of one horizontal line location on the said image plate, whereby even line locations on the said image plate are scanned during alternate periods, and odd line locations on said image plate are scanned during intervening periods.

2,320,700
BACKUP RING OR SLEEVE FOR WELDING
Charles E. Kent and Otto M. Carlson, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application November 28, 1940, Serial No. 367,552
2 Claims. (Cl. 113—112)



2. In the process of joining substantially tubular members or the like together by welding which comprises assembling the said tubular members in end to end relation with a space therebetween for the subsequent welded joint, applying a thermally disintegrable ring having an outside diameter substantially equal to the inside diameter of the tubular articles, said disintegrable ring comprising a pair of concentric circular members, the outer of said circular members being of an organic plastics material of the type having high heat insulating and slow burning properties and the inner of said circular members being of an easily combustible material, inserting such disintegrable ring in position so that the outer circular member is in substantial contact with the inside walls of each of the said tubular members, the inserted ring combination being tardily combustible at preliminary welding temperatures, whereby upon the subsequent combustion of the inner circular member the entire ring combination is disintegrated to the extent of being readily removable from the joined tubular members.

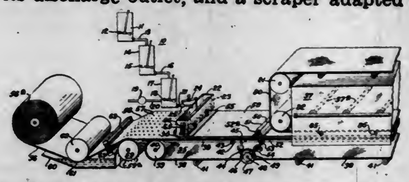
2,320,701
DOOR OPERATOR FOR DUMP WAGONS
Joseph Kuchar, Chicago, Ill., assignor to Athey Truss Wheel Company, Chicago, Ill., a corporation of Illinois
Application September 13, 1934, Serial No. 743,792
Renewed April 6, 1938
35 Claims. (Cl. 298—35)



1. A door operator for dump wagons comprising flexible means for closing the door, a drum adapted to be rotated to wind up said flexible means to close the door, reciprocable driving means for actuating said drum, a latch for holding the door closed, clutch elements between said reciprocable driving means and the drum adapted to release on overload, and a latch member automatically released by the release of the clutch members for maintaining the clutch members in released condition.

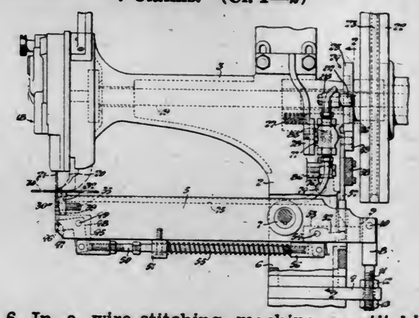
2,320,702
APPARATUS AND METHOD FOR MAKING COMPOSITION MATERIAL
John Marchese, Los Angeles, Calif., and Stanley J. Selden, Tacoma, Wash., assignors to Process Holdings Company, a corporation of Oregon
Application October 26, 1939, Serial No. 301,448
8 Claims. (Cl. 154—1)

1. An apparatus for making sheet material from a fluid mix including means for mixing suitable material into a fluid slurry, an elongated continually movable carrier, a hopper having a discharge outlet transversely overlying the carrier for feeding fluid slurry on said carrier, said hopper including a rotatable ribbed feed roller at its discharge outlet, and a scraper adapted to



enter between the ribs and remove slurry therefrom, means operative simultaneously with the transit of the slurry on the carrier for agitatorially manipulating the slurry, and a drying furnace adapted for receiving the carrier and subjecting the fluid slurry thereon to heat and evaporation of its moisture whereby it is changed from a fluid mix to a stable sheet body.

2,320,703
WIRE-STITCHING MACHINE
Arthur H. Maynard, Warwick, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application June 16, 1941, Serial No. 398,211
7 Claims. (Cl. 1—2)

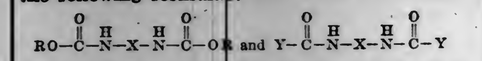


6. In a wire-stitching machine, a stitching head for driving U-shaped fasterners through the work, a work-supporting anvil having an opening therein, the fastener legs and anvil acting to punch burrs from the work to provide holes through which the legs of the fastener are projected, a source of fluid under pressure, a nozzle adjacent the opening in the anvil and connected to the source of fluid, a valve for controlling the supply of fluid to the nozzle, means operated from the stitching head for opening the valve to direct a stream of air across the ends of the legs of the fasteners as they penetrate the work to remove the burrs therefrom, and means for clinching the legs of the fasteners against the under side of the work.

2,320,704
SPINNING OF SOLUTIONS OF CELLULOSE DERIVATIVES
Siegfried Petersen, Leverkusen Schlebusch, and Paul Schlack, Berlin Treptow, Germany; vested in the Alien Property Custodian
No Drawing. Application July 1, 1941, Serial No. 400,714. In Germany June 6, 1940
12 Claims. (Cl. 18—54)

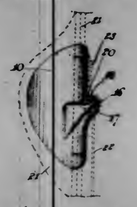
2. In the spinning of solutions in organic sol-

vents of cellulose derivatives containing free hydroxyl groups, the improvement which comprises incorporating in such solutions prior to the spinning thereof, a diisocyanate derivative selected from the class consisting of those of the following formulae:



wherein X is selected from the class consisting of alkylene and arylene, R is selected from the class consisting of aryl and ethenyl alkyl, and Y represents the radicle of an organic compound containing an activated methylene group, and subjecting the material after the spinning thereof, to a temperature at which reaction between the cellulose derivative and the diisocyanate derivative occurs.

2,320,705
KIDNEY GUARD
George C. Reynolds, St. Louis, Mo., assignor to National Vulcanized Fibre Co., Wilmington, Del., a corporation of Delaware
Application September 19, 1941, Serial No. 411,511
5 Claims. (Cl. 2—2)



5. A kidney guard comprising a molded sheet generally curved in a fore and aft section and generally planar transverse to said section, said sheet having a rounded front edge and a rounded rear edge of greater diameter than said front edge, the upper and lower edges of said sheet being respectively convex and concave to fit snugly over the hip of the wearer, said sheet including an integral fore and aft elongated corrugation forming an upwardly disposed wedge shaped pocket.

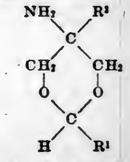
2,320,706
SPRING-FILLED PACKING
Charles T. Ripley and Walter M. Gibbs, Chicago, Ill., assignors to Spring Packing Corporation, Chicago, Ill., a corporation of Illinois
Application March 8, 1941, Serial No. 382,375
8 Claims. (Cl. 308—243)



1. Spring-filled packing of the class described comprising a body of waste and a multiplicity of generally isolated springs embedded therein and distributed therethrough, each spring being a relatively short but quite open helix of spring wire, each end of the wire being turned axially away from the body of the spring into a small terminal eye disposed substantially in a plane at a normal to a radius from the axis of the helix, with the end edge of the wire disposed opposite, and in close fending proximity to, the wire at the other end of the eye.

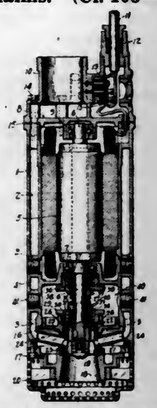
2,320,707
SURFACE ACTIVE AGENT AND THE PROCESS OF TREATING FIBROUS MATERIALS THEREWITH
Hillary Robinette, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application November 15, 1941, Serial No. 419,318
7 Claims. (Cl. 252—355)

1. A bath for the wet treatment of organic fibrous materials to change the surface active properties thereof, comprising an added solubilizing compound of the sulfur-containing type and an aminodioxane having the formula:



wherein R^1 represents an alkyl group containing at least 5 carbon atoms, and R^2 is an alkyl group.

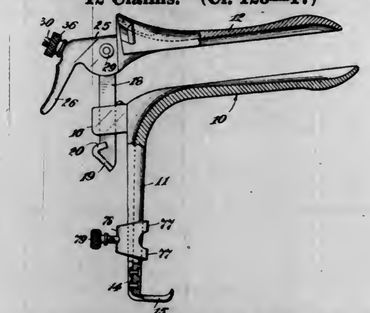
2,320,708
SUBMERSIBLE ELECTRICALLY DRIVEN PUMP
Lloyd Yost, Los Angeles, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application November 22, 1940, Serial No. 366,691
6 Claims. (Cl. 103—102)



1. In a device of the class described, a housing providing a motor chamber and a pump chamber separated by a sealing chamber sealed against communication with said first two chambers, a motor in said motor chamber and having its shaft extending through said sealing chamber into said pump chamber, said motor shaft having a section in said sealing chamber tapered to a smaller diameter toward the pump chamber, a collar having a tapered bore complemental to the taper on said shaft and mounted thereon in said sealing chamber, means biasing said collar on said shaft to make tight contact therewith and prevent leakage of fluid therebetween, and a sealing ring pressed against the side of said collar facing the pump chamber and secured by a sealed expansion member to the wall of the housing between the sealing chamber and pump chamber to prevent leakage of fluid from the pump chamber into said sealing chamber, said sealing chamber being

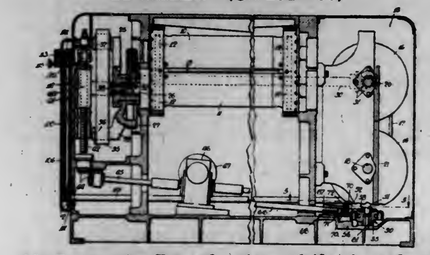
partially filled with a liquid lubricant for the sealing ring and collar and which tends to raise the viscosity of liquid leaking into the sealing chamber to thereby prevent its further leaking into the motor chamber.

2,320,709
SPECULUM
Walter A. Arnesen, New York, N. Y., assignor to National Electric Instrument Co. Inc., Long Island City, N. Y., a corporation of New York
Application August 1, 1941, Serial No. 404,980
12 Claims. (Cl. 128—17)



9. A speculum comprising a handle, a lower blade, an upper blade, a straight bar passing through an aperture of substantially constant effective dimensions in the lower blade, the upper blade being pivotally connected to the upper end of said bar, said bar passing through said aperture at such an angle relative to the lower blade as to be slidable upon the application of linear longitudinal pressure to an end of the bar, said bar having such a frictional fit in said aperture and said angularity being such that pressure applied forwardly of the bar to draw the ends of the blades together wedges the bar in the aperture against sliding movement.

2,320,710
SPEED CONTROL MECHANISM FOR CUTOFFS
Herbert C. Behrens, Haddon Heights, N. J., assignor to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey
Application January 9, 1942, Serial No. 426,139
14 Claims. (Cl. 164—66)



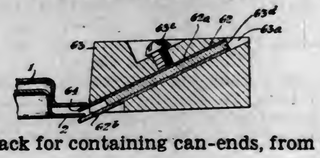
11. In a cut-off mechanism of the type having a knife which cuts a continuously advancing sheet into sections, and which travels with said sheet at the instant of cutting, an infinite speed change drive for said knife having a speed ratio adjusting member by which the total time cycle of said knife is changed to alter the length of sections cut, and a mechanism for driving said knife at a varying speed during its cycle and at the speed of the sheet during cutting, the combination comprising an adjusting control member, means driven from said control member for adjusting the variation in speed of said knife during its cycle in accordance with the changes in the total time cycle of said knife, and means driven from said control member for moving said speed ratio adjusting member simultaneously with the adjustments in said speed variation, but at a variable rate with respect to the movement of said control member to effect changes in the total time cycle of the knife corresponding to said adjustments in speed variation, and to thereby maintain the cutting speed of said knife constant and equal to that of the traveling material for all changes in the length of sections cut.

2,320,711
CREAM SEPARATOR DEVICE FOR MILK BOTTLES
Arthur Bramhall, Livingston, N. J.
Application December 9, 1940, Serial No. 369,221
6 Claims. (Cl. 210—51.5)



1. A cream separator device for milk bottles comprising a disc member comprised of spring material and having a size and diameter approximating but larger than the cross-sectional area of the bottle at the approximate level for cream separation, an arm member having one end secured to the said disc member at a point intermediate the center and edge of the said disc member, said arm member extending upwardly therefrom along a plane substantially normal to the surface of the said disc member, a hook end on the opposite end of the arm member, said hook end extending outwardly from the arm axis in a direction opposite to the direction of extension of said disc member therefrom, and a spring leaf member on the underside of said hook member having one end secured thereto at a point adjacent the hook end with the free end thereof extending towards the said arm and downwardly towards the said disc member with the end of the spring lying in a position to engage the lip of the bottle mouth upon the insertion of the disc member within a milk bottle.

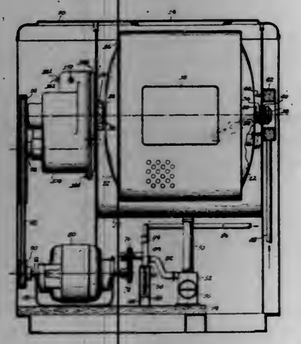
2,320,712
BLANK SEPARATING AND FEEDING DEVICE
Julius Brenzinger, Fairfield, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a corporation of New York
Application March 13, 1942, Serial No. 434,589
1 Claim. (Cl. 312—43)



In a stack for containing can-ends, from which

stack can-ends are to be separated one by one, supporting means for the can-ends including: a plurality of pairs of spring members, each pair consisting of two superimposed and spaced-apart flat, stiff springs, an intermediate spacing member, interposed between the springs of each pair, and means to clamp the spring members of each pair and their intermediate spacing member together.

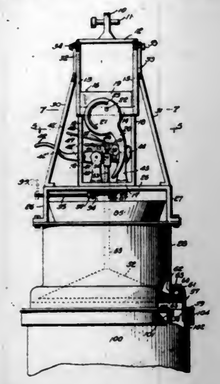
2,320,713
LAUNDRY APPARATUS
Hyman Brotman, Detroit, Mich.
Application March 11, 1938, Serial No. 195,293
2 Claims. (Cl. 74—370)



1. In a laundry machine transmission, a shaft supported for rotation about its axis, a pair of driving gears freely carried on said shaft with a fixed axial spacing therebetween and unitarily rotatable about said axis one at a relatively high speed and the other at a relatively low speed, said low speed gear having a hub extending toward said high speed gear, the portion of said shaft residing between said high speed gear and said hub being integrally formed with axially extending splined means, an annular spring loaded driven member carried on said shaft portion and being internally splined for driving engagement with said means, said member being movable along said means in opposite directions toward and away from said hub and said high speed gear and biased in the direction of said high speed gear, a friction clutch having a driving section formed on the side of said high speed gear facing said member and a driven section formed on the end of said member facing said high speed gear, said sections being interengageable upon movement of said member toward said high speed gear for driving said shaft at the speed of said high speed gear, and a jaw clutch having a driving section formed on said hub and a driven section formed on the opposite end of said member, said last two mentioned sections being interengageable upon movement of said member toward said low speed gear for driving said shaft at the speed of said low speed gear.

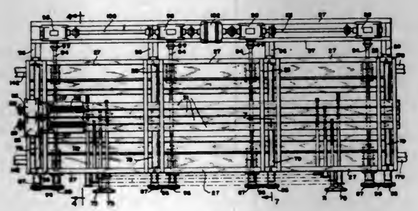
2,320,714
MOLD CHARGING APPARATUS
Edward D. Boyle, Valdosta, Ga.
Application January 22, 1941, Serial No. 375,504
8 Claims. (Cl. 259—8)

1. A mold charging apparatus comprising a casing having an annular shoulder and an enlarged lower section therebelow, a vertically movable bottom engageable with said shoulder, means carried by said casing to effect vertical movement of said bottom toward and away from said shoulder, and additional means connected to said



bottom whereby the size of the opening between said bottom and said enlarged section may be adjusted.

2,320,715
GLUE MACHINE
Robert T. Bowling, Lewiston, Idaho, assignor to Potlatch Forests, Inc., Lewiston, Idaho
Application January 13, 1941, Serial No. 374,232
1 Claim. (Cl. 144—279)



A gluing machine for a set of boards consisting of a plurality of individual members to be joined edge to edge, which machine comprises a table having slots to receive the boards composing a set, heater means in said slots for heating edges of certain boards, pusher means across said table movable lengthwise thereof for advancing boards thereon, means for advancing and retracting said pusher means, means for receiving and supporting the set of boards with the members in edge to edge relation, means for applying pressure laterally of the joints in said set, means for applying vertical pressure on said set to prevent buckling, and means for applying heat to the joints in said set while it is subjected to lateral and vertical pressure.

2,320,716
TERPENE ADHESIVE
Frank W. Corkery, Crafton, and Samuel G. Burroughs, Pittsburgh, Pa., assignors to Pennsylvania Industrial Chemical Corporation, a corporation of Pennsylvania
No Drawing. Application April 13, 1940, Serial No. 329,576
3 Claims. (Cl. 260—3)

1. An adhesive composition composed essentially of rubber, white mineral oil, and a tack-imparting content of beta-pinene polymers melting within the approximate range of 80° C. to 150° C. and compatible with the rubber and with the white mineral oil.

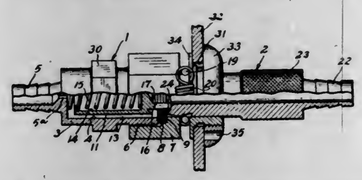
2,320,717
TERPENE COATING
Frank W. Corkery, Crafton, and Samuel G. Burroughs, Pittsburgh, Pa., assignors to Pennsylvania Industrial Chemical Corporation, a corporation of Pennsylvania
No Drawing. Application April 13, 1940, Serial No. 329,578
2 Claims. (Cl. 260—32)

1. A coating material base consisting of a beta-pinene resin, having a melting point from of at least about 80° C., in solution with petroleum distillate, the said coating material base remaining unclouded at temperatures as low as —10° F. when the base contains as little as one-half pound of the resin, to one gallon of the petroleum distillate.

2,320,718
RUBBER COMPOUND
Frank W. Corkery, Crafton, and Samuel G. Burroughs, Pittsburgh, Pa., assignors to Pennsylvania Industrial Chemical Corporation, a corporation of Pennsylvania
No Drawing. Application April 13, 1940, Serial No. 329,579
5 Claims. (Cl. 260—3)

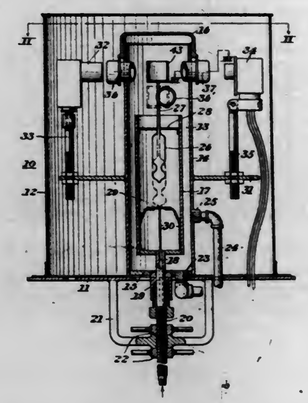
1. A vulcanized rubber composition containing rubber, rubber filler, and pinene resin consisting preponderantly of beta-pinene polymers higher than the dimer and melting within the approximate range of 80° C. to 150° C.

2,320,719
VALVED CONNECTOR
Wilfred W. Davies, Chicago, and George A. Page, La Grange, Ill., assignors to United Air Lines Transport Corporation, Chicago, Ill., a corporation of Delaware
Application August 29, 1941, Serial No. 408,788
6 Claims. (Cl. 284—14)



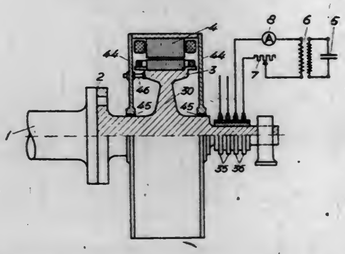
1. In a valved connector, a socket having an axial bore with a normally closed valve therein, said socket having a reduced open end adapted to be secured in the opening of a panel so that a plug may be inserted therein and providing a shoulder for engagement with the back of said panel, means for securing said socket in said panel so that only the open end of said socket is accessible from the front of said panel, oppositely disposed transverse slots through the wall of said socket back of said shoulder and between said shoulder and said valve intersecting said bore, and resilient detents in said slots and extending into said bore, and a conduit plug having an annular portion for automatic cooperation with said detents so that said detents cause an inward and outward snap action of said plug when it is inserted and removed.

2,320,720
DEVICE RESPONSIVE TO CHANGES IN DENSITY OF LIQUIDS
George M. Croft, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application July 19, 1941, Serial No. 403,151
2 Claims. (Cl. 265—45)



1. A device responsive to changes in the density of liquid in an enclosed system, comprising a closed chamber, an overflow cup in the chamber for holding a liquid pool, a pipe extending slidably through a liquid sealing means at the bottom of the chamber for supporting the cup therein, said pipe being connected with the enclosed system to supply liquid therefrom to the overflow cup, adjusting means engaging the pipe below the chamber for vertically adjusting the position of the overflow cup and thereby the level of the liquid pool with respect to the chamber, a hydrometer floating freely in the pool, and a window in said chamber through which the position of the hydrometer may be viewed.

2,320,721
ELECTRODYNAMIC OSCILLATION DAMPER
Nils Ericson, Stockholm, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application July 18, 1939, Serial No. 285,087
In Sweden July 19, 1938
6 Claims. (Cl. 74—574)



1. Means for damping predtermined angular oscillations of a certain period in a rotating element, comprising a first rotary member rigidly connected with said element for rotation there-

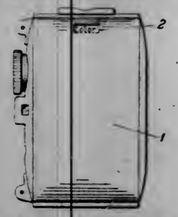
with, a second rotary member, means rotatably mounting said second rotary member adjacent the first member, magnet poles carried by one of said members, an armature winding of the alternating current type carried by the other of said members, a capacitative load circuit connected to said winding and dimensioned to substantially compensate the inductance thereof at said certain period whereby to tend to hold said magnet poles in certain angular position with respect to said armature winding by magnetically coupling said members, and means for connecting said elements whereby to couple the same upon predetermined relative angular movement therebetween but allowing comparatively free angular movement therebetween about said certain angular position.

2,320,722

MAGAZINE LOADED WITH DIFFERENT SORTS OF FILMS

Paul Frost, Munich, Germany; assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application September 12, 1940, Serial No. 356,443
In Germany July 5, 1939
5 Claims. (Cl. 116—114)



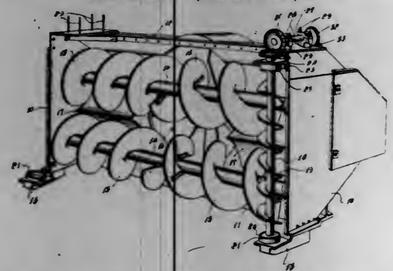
1. A camera for receiving light-tight supply magazines loaded with different types of film, a magazine with a given type of film for use in said camera, registering means on said camera, and means on said magazine cooperating with said camera means, said camera means and magazine means giving a visible indication of the type of film when said camera is closed with the magazine in operative position.

2,320,723

AUGER ATTACHMENT FOR SNOWPLOWS OR THE LIKE

Levi P. M. Gaylord, Lowville, N. Y.

Application April 2, 1941, Serial No. 386,539
3 Claims. (Cl. 37—43)



1. In combination with a snow plow or like machine comprising a frame adapted for attachment at its rear end to the front end of a tractor and having a central blower and horizontal spiral snow gathering plows forwardly thereof, means adapted to be arranged adjacent a side edge of the snow gathering plows and in advance thereof for cutting a path forwardly of the snow gathering plows, said means comprising a perpendicular auger, a skid shoe at each side of the frame and at the front ends thereof for the ground support of the front end of the frame and an end thrust bearing carried by said skid shoe in which the lower end of the auger is journaled.

2,320,724

METHOD OF TREATING STYRENE-UNSATURATED DICARBOXYLIC ACID RESINS

Howard L. Gerhart and William W. Bauer, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

No Drawing. Application March 14, 1940, Serial No. 323,945
4 Claims. (Cl. 260—23)

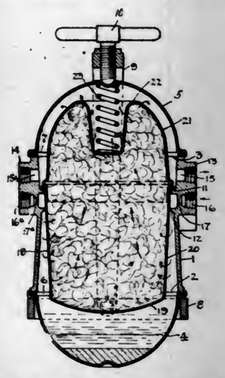
1. A method of treating resin resulting from the polymerization by addendum reaction of styrene and a material selected from a group consisting of $\alpha\ \beta$ unsaturated ethylene $\alpha\ \beta$ dicarboxylic acids and the anhydrides of said acids, the resin containing the reactive carboxylic groups of said groups, which method comprises esterifying part of the carboxyl groups of said resin with a monohydroxy alcohol containing not substantially more than 4 carbon atoms and then further esterifying the remaining carboxyl groups of the resin with a monohydroxy alcoholic ester of a polyhydroxy alcohol and a fatty acid.

2,320,725

FILTER

Richard W. Hautzenroeder, Mansfield, Ohio

Application October 4, 1938, Serial No. 233,224
5 Claims. (Cl. 210—131)



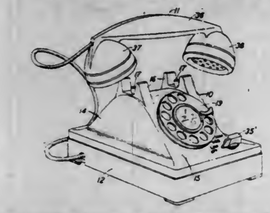
1. In a device of the character described, the combination of a casing open at opposite ends, a removable filter member in said casing separating the interior thereof into upper and lower chambers, an inlet passage communicating with said lower chamber, an outlet passage communicating with said upper chamber, an annular flange within said casing just below said inlet passage for distributing the incoming fluid about the periphery of said filter member, said filter member being imperforate adjacent said flange, removable identical cup shaped head members closing the opposite ends of said casing, and a single external clamping means for securing said heads to said casing, said annular flange extending circumferentially around the interior of said casing and extending toward the filter member but being spaced therefrom.

2,320,726

TELEPHONE STATION EQUIPMENT

Alfred Hereckmans, Caldwell, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 29, 1940, Serial No. 367,689
2 Claims. (Cl. 179—81)



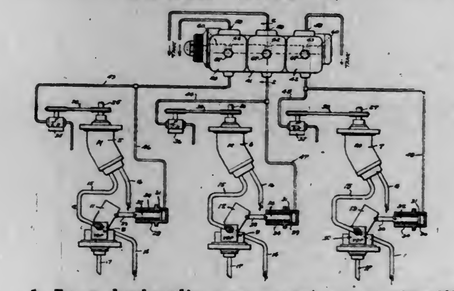
1. In combination, a hollow mounting including a telephone receiver support, said mounting having a base portion closed by a removable plate member, a telephone receiver to be held against a user's ear when in use but resting on said support when not in use, line terminals in said mounting for connection with a telephone line leading to an exchange, a receiving circuit connected to said line terminals and including said receiver, a plurality of contacts in said mounting to complete and to interrupt said receiving circuit, said contacts interrupting said circuit when the receiver is on its support and completing said circuit when the receiver is removed from its support, an amplifier in said mounting and supported on said plate member, means for connecting said amplifier in circuit with said receiver, for amplifying audio frequency currents incoming to the circuit through said line terminals and supplying said amplified currents to said receiver for translation into sound waves, and means including a multiposition contact device and a plurality of resistors supported in said mounting independently of said plate member but connected in circuit with said amplifier, to adjust the degree of such amplification.

2,320,727

HYDRAULIC SPEED CONTROL APPARATUS

Kenneth R. Herman and James Robinson, Detroit, Mich., assignors to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan

Application January 22, 1940, Serial No. 315,000
2 Claims. (Cl. 60—97)



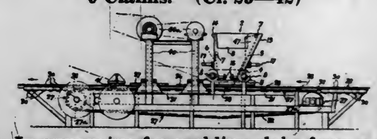
1. In a hydraulic power system, a plurality of fixed displacement motors, a work shaft on each of said motors, a plurality of variable delivery pumps respectively hydraulically connected with the motors, a movable part on each of said pumps for controlling the delivery of pressure fluid to said motors, a plurality of control pumps, each of said work shafts respectively driving a control pump, a group of metering valves respectively connected to the pressure outlets of the control pumps, each of said valves having a throttle valve opening and a pressure responsive member for controlling the pressure drop across said opening, means for regulating said pressure responsive member to control flow through said throttle valve opening, a member common to each of said metering valves located in said throttle valve opening for adjusting the size thereof and flow therethrough, a plurality of pressure responsive means respectively connected hydraulically to the control pump outlets and each operably connected respectively with the movable part of a variable delivery pump, and means urging each said movable part to a maximum volume position, whereby pressure liquid from the control pumps will tend to urge said movable parts to a lower volume position and the setting of said metering valves will control the pressure acting on the pressure responsive means.

2,320,728

APPARATUS FOR MOLDING CONCRETE SLABS

Walter Reginald Hume, Melbourne, Victoria, Australia

Application February 13, 1940, Serial No. 318,764
In Australia February 24, 1939
9 Claims. (Cl. 25—42)



6. In apparatus for molding slabs from a semi-dry or non-plastic cementitious material, a feed hopper having a wall in the form of a knocker plate hinged at its upper end and hanging freely therefrom, means for imparting forcible impacts to said knocker plate adjacent the lower edge thereof in order to convert a non-plastic semi-dry mixture contained therein into a plastic and substantially homogeneous condition by the time it reaches the bottom of the feed hopper, and means for conveying a series of open topped molds successively beneath a discharge opening at the bottom of said hopper, said feed hopper having a compartment for a liquid cementitious material, said compartment being located adjacent the rear of the hopper and adapted to deliver the liquid cementitious material into the molds where the latter successively enter beneath the discharge opening at the bottom of the hopper.

2,320,729

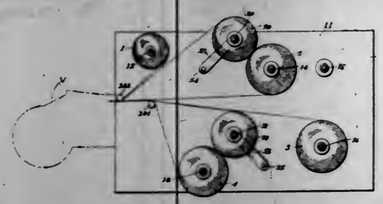
APPARATUS FOR FEEDING FOIL

Henry Frank Hild, Philadelphia, Pa., assignor to Condenser Corporation of America, South Plainfield, N. J., a corporation of New York

Original application March 15, 1939, Serial No. 261,952, now Patent No. 2,228,764, dated January 14, 1941. Divided and this application October 7, 1940, Serial No. 360,104
2 Claims. (Cl. 242—55)

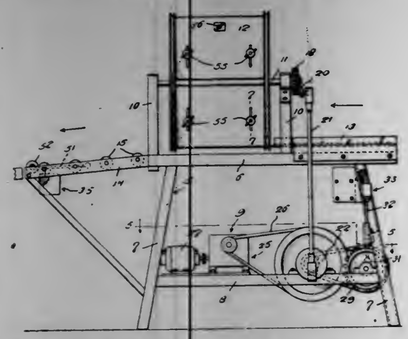
1. In a machine for feeding strips of conducting and insulating material to a mandrel for winding into a condenser roll, a supporting means, a plurality of rolls of insulating strip rotatably carried by said supporting means, means passing the strips from said rolls to the mandrel, a separate roll of conducting strip, said conducting strip being adapted to be fed adjacent said insulating strips on the way to said mandrel, and

means for independently rotatably supporting said conducting strip roll so that the roll as a whole is movable and resiliently held with its



surface in frictional engagement with the surface of one of said rolls of insulating strip to feed said insulating strip and said foil strip at the same rate.

2,320,730
BEVERAGE MIXER
Alonzo R. Hite and Joseph N. Hendrix, Mattoon, Ill.
Application April 7, 1942, Serial No. 438,032
1 Claim. (Cl. 259—54)



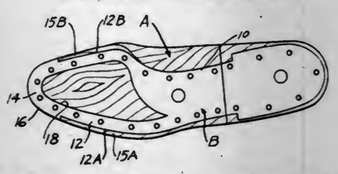
In a bottled beverage mixer, a supporting structure, an agitator rack mounted on said supporting structure including receiving and discharging ends to permit bottled beverages in cases to be slid therein at the receiving end and to permit a case of bottled beverage to be forced therefrom at the discharge end by the incoming case, an inclined ramp at the discharge end of the rack to receive thereon the discharged case for gravitation over said ramp, an electric motor mounted on the supporting structure, a drive means connecting said motor to the rack for rotating the latter in opposite directions, a timing cam driven by said motor and rotatably mounted on the supporting structure, a pair of electric circuits electrically connected to said motor and both connected to an electric source, a self-closing electric switch mounted on the supporting structure and electrically connected to one of the circuits for opening and closing thereof to rotate the rack by the motor for a predetermined length of time to provide cycles of operation to the rack, a plunger for opening said switch and operated by the cam to bring about stopping of the motor to complete a cycle of operation of the rack, and a self-opening switch electrically connected in the other circuit and closed by movement of a case over the ramp to start the motor after the completion of a cycle of operation of the rack and for a length of time sufficient for the cam to move to free the first switch of the plunger to permit said first switch to close for another cycle of operation of the rack.

2,320,731
LIQUID LEVEL GAUGE
Virgil I. Hooper, Gordon, Tex., and Louis G. Hooper, Shreveport, La., assignors to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application August 4, 1939, Serial No. 288,262
13 Claims. (Cl. 73—292)



1. In a thermometer and depth gauge assembly for tanks and the like, a hollow passage fitting, a tubular gauge member positioned within said fitting and adapted to have longitudinal movement therethrough, a stop on said tubular member limiting its outward movement, packing about said tubular gauge member, a dipper portion removably connected to the lower end of said tubular gauge member beyond the stop, said dipper having a plurality of holes therein and positioned at different levels, said tubular member having an opening therein above said stop and above said first mentioned holes, means for sealing the holes from communication with the opening through the tubular member, means for controlling the outflow of the contents of the tank through said opening, a thermometer positioned and supported by said sealing means in said tubular member and having its bulb in said dipper portion and being visible through said opening above said holes and means for exerting compression upon said sealing means to force same against said thermometer.

2,320,732
FOOT HARMONY LAST
Robert F. Lafferty, Spreydon, Christchurch, New Zealand
Application August 27, 1941, Serial No. 408,460
In New Zealand November 14, 1940
5 Claims. (Cl. 12—133)



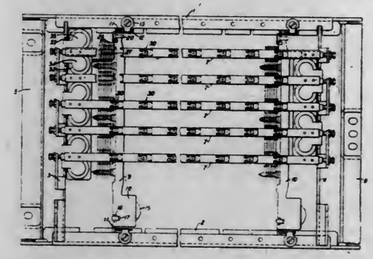
1. A wooden shoe last characterized by the provision of two comparatively narrow strips of metal recessed into the underside or sole of the last to lie flush with the surface of the wood and to extend parallel with but at an interval or margin from the lateral edges of such sole at the part from the joints to the toe.

2,320,733
SCREW TYPE FLUID PROPELLING APPARATUS
John Taylor McIntyre, Johannesburg, Transvaal, Union of South Africa, assignor to Macard Screws, Limited, Johannesburg, Transvaal, Union of South Africa
Application November 4, 1938, Serial No. 238,908
In Union of South Africa January 7, 1938
2 Claims. (Cl. 230—122)



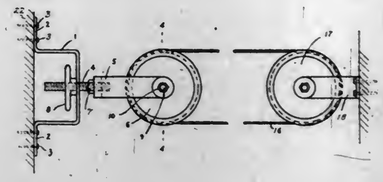
1. A multi-stage screw type fluid propelling apparatus, comprising in each stage the combination of an impeller having blades of aerofoil cross-section increasing in width and total area progressively in the direction from tip to hub with fluid inlet means comprising helical inlet guide vanes coaxial with the impeller, the concavity of which vanes faces in the circumferential direction opposite from that of the impeller blades to impart to the whole of the fluid ingoing to the impeller a counterswirl substantially in excess of the impeller drag to increase the difference between the velocity of the rotor and that of the incoming fluid, to consequently increase the pressure of fluid discharged by the rotor; the guide vanes being of the same helical hand as that of the impeller blades, and the tangents to the median lines of the interstage vanes, at their receiving ends, making a substantial angle with the axis.

2,320,734
SWITCHING MECHANISM
Edward D. Mead, Caldwell, N. J., and Victor F. Miller, Queens Village, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 9, 1941, Serial No. 392,658
6 Claims. (Cl. 179—27.54)



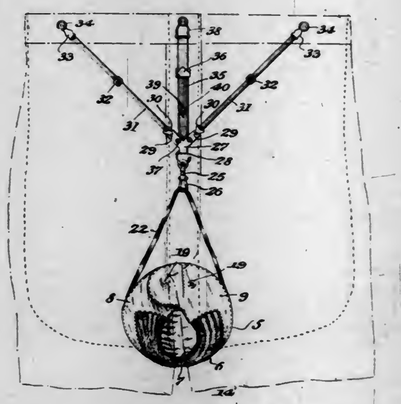
1. In a crossbar switch, horizontal and vertical intersecting contact making strips, horizontal and vertical intersecting operating bars, means for rotating said bars, a frame member for each vertical bar having knife edges on which the associated vertical bar is mounted for rotation, means responsive to the rotation of a horizontal bar and a vertical bar for actuating sets of contact strips at the intersecting point, an extension on each frame, a member for each vertical bar having a flat portion and two opposite clip members extending therefrom arranged to slip over the extension of an associated frame and provided with a flexible spring projection extending from said flat portion to engage the associated vertical bar and press it against the knife edges on the frame.

2,320,735
MOVABLE CLOTHESLINE
Charlie A. Nelson, Chattanooga, Tenn., assignor of one-half to J. Roscoe Horton, Chattanooga, Tenn.
Application February 7, 1942, Serial No. 429,908
2 Claims. (Cl. 211—119.09)



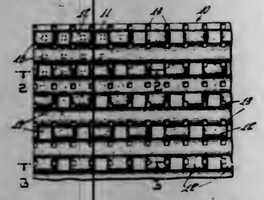
1. The combination with an endless line and grooved pulleys for supporting the line at its ends, of a fixed support in which one of the pulleys is rotatably mounted, a bifurcated block rotatably supporting the other pulley, a fixed bracket, a screw-threaded shank having threaded connection with said block to permit longitudinal adjustment of said block on the shank, and means adjustably connecting said shank to said bracket.

2,320,736
SURGICAL APPLIANCE
Sol T. Nevins, Brooklyn, N. Y.
Application November 10, 1941, Serial No. 418,568
4 Claims. (Cl. 128—158)



1. In a suspensory of the character described, a pocket comprising an elastic central portion, an inelastic end portion secured to each end of the central elastic portion, said inelastic end portions adapted to overlie one another to provide a member encircling portion, a pivotal connection between the overlying end portions permitting movements of the central and end portions to adapt the suspensory to a comfortable support of the scrotum, a supporting strap for the suspensory having its ends attached to opposite sides of the suspensory, the intermediate portion of the strap adapted to have sliding support on a garment element whereby the garment element and strap may relatively move without disturbing the scrotum supporting position of the suspensory.

2,320,737
SOUND DAMPING INSULATION AND PROCESS OF MANUFACTURE
Henry B. Hutten, Detroit, Mich., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey
Application June 22, 1939, Serial No. 280,596
7 Claims. (Cl. 154—28)



1. The method of increasing the sound damping qualities of a sheet of felted fibrous structure which comprises flexing the sheet, and imposing successive sets of indentations of different size and depth in the faces thereof to displace portions of the fibrous structure from their original planar position, and to increase the flexibility and sound damping efficiency of the sheet without diminishing its tensile strength.

2,320,738
FRACTIONATION OF MIXTURES OF FATTY OILS AND FREE ACIDS DERIVED THEREFROM
John D. Jenkins, Forest Hills, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application May 13, 1940, Serial No. 335,007
12 Claims. (Cl. 260—428)

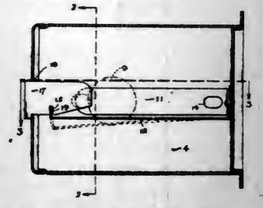
1. A process of separating into fractions a material selected from a class consisting of glyceride oils and free fatty acids derived from such oils, which material comprises components, one of which is of relatively high polar moment and another of which is of relatively low polar moment, which process comprises contacting the material with a non-reactive solvent mixture containing a selective polar solvent and a substantial amount of water dissolved therein at a temperature below that of complete miscibility of the material with the wet solvent, but substantially above that of freezing of the material, to dissolve a substantial amount of the first-mentioned component and to leave a substantial amount of the second-mentioned component undissolved, then separating the two liquid phases from each other and removing the solvent and water from them to obtain the desired fractions.

2,320,739
DRAWBENCH
Earl Knudsen and Howard H. Talbot, Pittsburgh, Pa.; said Talbot assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 23, 1941, Serial No. 403,678
19 Claims. (Cl. 205—3)



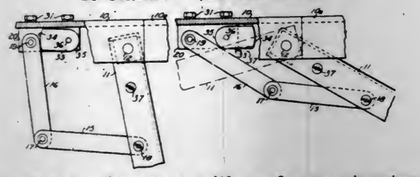
1. A draw bench comprising a blank-gripping carriage adapted to be positioned in front of a die, a traveling endless chain for detachably engaging the carriage to pull it with a gripped blank forward away from the die to a position at which the blank is released from the die and carriage, means for returning the released carriage to blank-gripping position in front of the die and including a track inclined downwardly from the front end of said chain, and means depending from the bottom of the carriage adapted to be engaged by the chain to push the car onto said track.

2,320,740
PAPER ROLL DISPENSER
Albert George Krueger, Green Bay, Wis., assignor to Morton White & Co., Vancouver, British Columbia, Canada
Application October 22, 1941, Serial No. 416,067
3 Claims. (Cl. 242—55.2)



1. A paper roll dispenser comprising a base, a bracket extending from the base, a mandrel adapted to receive a paper roll, said mandrel being connected at one end to the bracket, a keeper having a tongue at one end, a latch bolt normally projecting outwardly through a side of the mandrel, said latch bolt being mounted upon a leaf spring, said leaf spring being attached to a part of the mandrel, said tongue being adapted to enter the mandrel and engage the spring to prevent the retraction of the latch bolt, and means to prevent the withdrawal of the tongue from the mandrel.

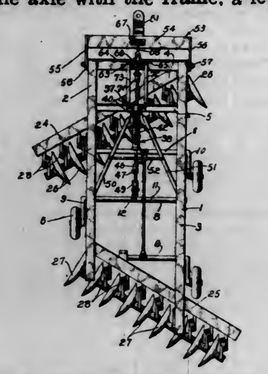
2,320,741
TRAVEL LIMITING DEVICE
John H. Michael, West Allis, and Thomas G. A. Sillers, Wauwatosa, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 7, 1941, Serial No. 392,230
10 Claims. (Cl. 292—263)



1. The combination with a frame structure, and a door swingable relative to said frame, of means for variably limiting the extent of swing of said door in one direction comprising an element connected to said frame and to said door, means adjustable to one position to stop said door at a predetermined position and adjustable to another position to stop said door at another predetermined position, and means for controlling the extent of swing of said door in another direction comprising means cooperating with the second said means when adjusted to the said other position to stop said door at a third predetermined position.

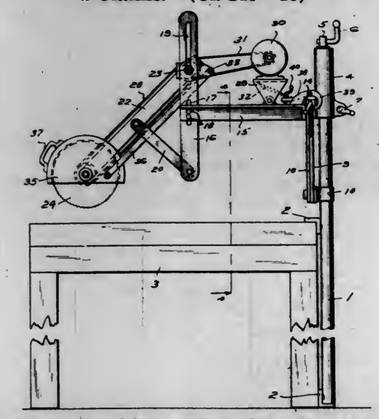
2,320,742
SUCTION DISK PLOW
Clarence E. Newkirk, Orange, Calif.
Application October 10, 1940, Serial No. 360,667
8 Claims. (Cl. 97—53)

1. In a suction disk plow, a frame having side members, a front cross member connecting the side members at their forward ends, one of said side members being longer than the other, a sub-frame carried at the rear of the frame and mounted on said frame in oblique relation thereto, disks carried by the sub-frame, a sub-frame carried at the forward end of the frame in oblique relation thereto and having disks thereon, an axle mounted on the frame medially of the length thereof and having a crank portion, a wheel carried by the crank portion, bearings shiftably connecting the axle with the frame, a lever carried



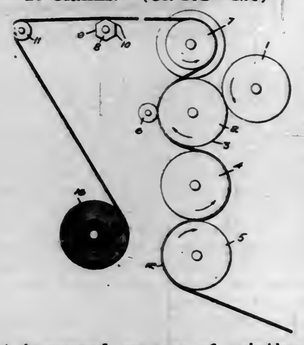
by the axle, a standard carried by the frame near its forward end, a jack cylinder carried by the standard, a piston rod carried by the jack cylinder and connected with the lever, and means carried by the jack cylinder and operable for controlling fluid flow to said jack cylinder, said jack cylinder being operable for shifting the piston rod whereby the axle, lever and crank portion will be shifted for rocking the axle and moving the wheel to operative or inoperative position for raising or lowering the frame and the disks thereon out of or into operative position.

2,320,743
CROSSCUT SAW
Nicolai Nilsen, Wallace, and Thorvald R. Christofferson, Gem, Idaho
Application June 3, 1941, Serial No. 396,450
2 Claims. (Cl. 143—46)



2. A saw machine of the character described comprising a supporting structure including a pair of uprights having vertical slots therein, a rod mounted for vertical sliding movement in the slots, a bracket mounted on the rod and slidable on one of the uprights, a swinging beam mounted on the rod, a rotary saw mounted on said beam, means for actuating the saw, a guard for the saw rockably mounted on the beam, a link connecting the guard to the bracket for rocking said guard upon swinging movement of the beam, and a pair of links pivotally connected to the beam and the uprights.

2,320,744
METHOD OF PRINTING
John J. Ormond, Boston, Mass., assignor of two-thirds to Joseph D. Ramsey, Boston, Mass.
Application September 16, 1941, Serial No. 411,031
10 Claims. (Cl. 101—426)



1. That improved process of printing napped material which comprises applying a printing ink on a printing roll, wrapping a web of napped material, held under tension, about the printing roll, then applying a friction roll member to the web of napped material at its outer surface while the web is being maintained in contact with the printing ink to obtain transfer of the printing ink to the napped material, and then subjecting the napped material and transferred printing ink to a series of impacts for the purpose of driving the printing ink into the napped material.

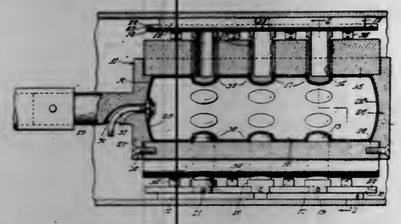
2,320,745
ANTIOXIDANTS
Philip T. Paul, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 30, 1941, Serial No. 391,142
9 Claims. (Cl. 260—809)

4. The method which comprises incorporating in a rubber composition an anti-oxidant consisting of a 1,3-diaryl, 1,3-dialkyl cyclobutane in which one of the aryl groups is directly connected in the para position, to the secondary amino nitrogen atom of the group —NH—R where R is an aryl radical.

2,320,746
ANTIOXIDANT
Philip T. Paul, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 30, 1941, Serial No. 391,144
10 Claims. (Cl. 260—810)

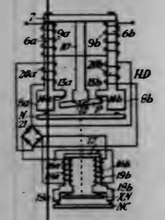
1. The method of preserving rubber compositions which comprises incorporating therein a product of acid-catalyzed reaction of a polyhydric phenol and an aliphatic diene hydrocarbon.

2,320,747
CYLINDER HONING
Victor W. Peterson and Frank J. Daley, Chicago, Ill., assignors to Hannifin Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 29, 1938, Serial No. 248,213
5 Claims. (Cl. 51—184.1)



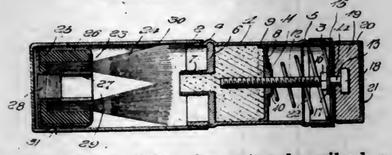
1. A device for forming true round and straight bores in cylinders comprising in combination a rotary and reciprocating tool body, a plurality of longitudinally extending honing means radially slidable in said body and each honing means being slidable independently of the other, a flexible impervious tube inside said body bearing against said honing means, said tube having therein a volume of gas such as air under substantial compression to force said honing means outwardly under resilient pressure, the volume of compressed gas inside said tube being sufficient to maintain substantially constant pressure against the stones throughout the honing operation despite stone wear during honing.

2,320,748
RAILWAY SIGNALING APPARATUS
George R. Pflasterer, Greenville, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original application February 23, 1939, Serial No. 257,929. Divided and this application December 13, 1940, Serial No. 369,928
9 Claims. (Cl. 175—320)



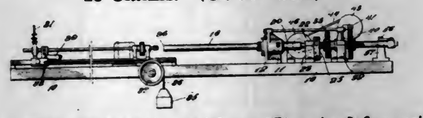
1. In combination, a relay having an operating winding, a neutral armature operated by said winding to detect energization of the relay and a polar armature operated by said winding to detect the polarity of energization of said relay, retaining means active at times to retain said neutral armature in its energized, picked-up position, electromagnetic means inductively coupled with said operating winding and responsive to changes in flux conditions in said relay for rendering said retaining means active when periodically interrupted or coded current is supplied to the relay and when the polarity of energization of the relay is reversed, and a code detecting member controlled by said electromagnetic means to an operated position when and only when periodically interrupted or coded current is supplied to said relay.

2,320,749
DISPENSING DEVICE
Herbert G. Pressentin, Madison, Wis.
Application August 4, 1941, Serial No. 405,391
2 Claims. (Cl. 221—79)



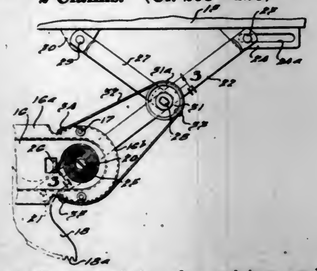
1. In a device of the character described, a cylindrical container having externally threaded front and rear end portions and outstanding beads at inner ends of its threaded portions defining internal grooves about walls of the container, a head fitting in the front end portion of said container and seated in the groove formed by the front bead, a cap screwed upon the threaded rear end portion of the container and abutting the rear head bead, said cap having formed therewith a central opening, a threaded stem rotatably mounted through the opening of the cap and held against longitudinal movement, and a piston in the container threaded upon the stem and moved longitudinally in the container as the stem is turned.

2,320,750
GUN RIFLING MACHINE
Andrew Raiche, Providence, R. I.
Application May 16, 1941, Serial No. 393,800
13 Claims. (Cl. 90—28.1)



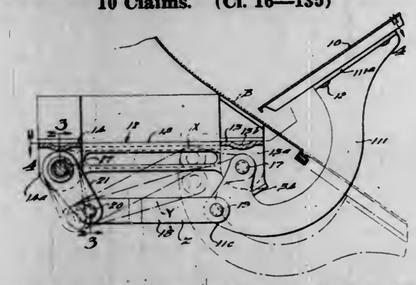
1. The combination with a rifling tool for cutting channels in the walls of a bore with the cutting portion of the tool being provided with spaced cutting edges, of fluid means for forcing said tool through the said bore, a clearing tool adapted to be positioned adjacent the said cutting portion and operable for severing the material raised from the walls of the bore by the said rifling tool during the advance thereof in forming cutting channels in the walls of the bore and means for actuating said clearing tool simultaneously with the actuation of said rifling tool.

2,320,751
WINDOW REGULATOR
John H. Roethel, Detroit, Mich., assignor to Marvel Equipment Corporation, Detroit, Mich., a corporation of Michigan
Application November 16, 1939, Serial No. 304,814
2 Claims. (Cl. 268—126)



1. A window regulator for raising and lowering a window panel, comprising a mounting plate, a relatively long arm mounted to swing from the plate and having means at its outer end for connection to the panel, a relatively short arm extending entirely to one side of the long arm and pivoted at its inner end thereto, the outer end of the short arm having means for connection to the panel and the short arm adapted to swing oppositely to the long arm and past the same when the panel is raised and lowered, and a flexible member attached to the short arm at a point spaced from the pivot thereof and also at constant vertically spaced points to the plate and effective to hold the short arm against pivotal movement independent of the long arm in any adjusted position of the latter.

2,320,752
DECK LID HINGE
John H. Roethel, Detroit, Mich., assignor to Marvel Equipment Corporation, Detroit, Mich., a corporation of Michigan
Application December 19, 1940, Serial No. 370,783
10 Claims. (Cl. 16—135)



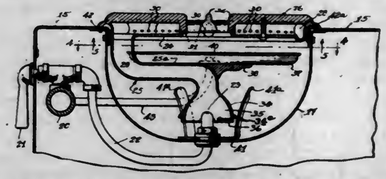
10. A hinge structure for a swinging lid or closure adapted to be raised and lowered to open and close an opening, comprising a fixed support, a hinge arm fixed at one end to the lid and pivoted at its opposite end to the support, a spring connected to the support, and means including a member pivoted to the hinge arm at a point spaced from the pivot of the arm and having means for connection to the spring to vary the effort exerted by the spring on the lid as the latter is swung, the point of connection of said means to the spring in the closed position of the lid being further from the pivotal axis of the hinge arm than from the point of pivotal connection of the member to the hinge arm.

2,320,753
THERMOMETER
John Leonard Schwartz, Philadelphia, Pa., assignor to Philadelphia Thermometer Company, Philadelphia, Pa., a copartnership composed of John Leonard Schwartz, Clarence Rossman, and Hugo Englehardt
Application May 7, 1941, Serial No. 392,203
4 Claims. (Cl. 73—371)

1. A differential thermometer comprising in combination, a hollow bulb, a main stem, with a bore in said stem connected with the inside of said bulb, there being mercury or other expandable fluid within said bore and said bulb, a lower portion to said bore, opening directly into said bulb, having a comparatively enlarged section, an upper portion to said stem having an exceedingly fine length of bore, a scale adjoining said last mentioned length of bore, having finely divided subdivisions per degree, and a closed reservoir at the top of said main stem in open communication with said bore, said reservoir being in line with said stem, an open ended, auxiliary tubular stem forming an extension to said main stem, running up into said reservoir, forming with the walls of said reservoir, an annular, surrounding pocket at the lower end of the said reservoir, for receiving an excess of the thermometer fluid, expelled from the open end of said auxiliary, tubular stem, said reservoir containing gas under pressure and an expanded portion to the bore of said auxiliary, tubular stem at its lower end, forming a chamber through which portions of expandable fluid can pass between the main bore of the auxiliary, tubular stem and the bore in the main stem and allow any confined gas to arise above the expandable fluid portion dropped therein from above and come in free communication with the gas in the reservoir.

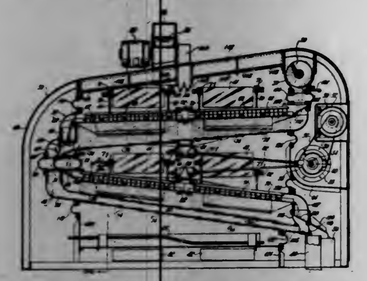


2,320,754
GAS BURNER
Alvin G. Sherman, Grosse Pointe, Mich., assignor to Sherman-Jackson-Roose Company, Detroit, Mich., a corporation of Michigan
Application May 5, 1938, Serial No. 206,233
4 Claims. (Cl. 126—39)



2. In a stove, a top panel having apertures therein, a burner box housing below said top panel, a gas supply tube projecting vertically into said housing to a point spaced below an aperture in said top panel, a burner comprising a main housing having a fuel passage, and combined grid and burner members projecting inwardly into the space enclosed by said main housing, a supply housing with one end connected with said main housing having a passageway joining said fuel passage and extending for a portion of its length in a horizontal direction under said burner, and a removable drip pan adapted to lie under the space enclosed by said burner housing and supported by the horizontal portion of said supply housing, a mixing chamber formed at the other end of said supply housing, and means on said burner box housing around said gas tube to guide said mixing chamber into position around said tube.

2,320,755
REFINING APPARATUS
Frank M. Smith, Chicago, Ill.
Application June 12, 1939, Serial No. 278,600
7 Claims. (Cl. 209—21)

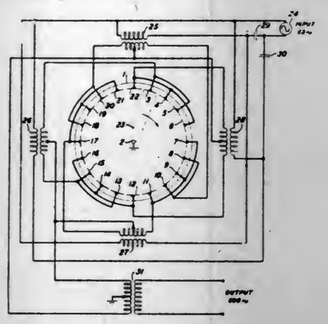


1. Apparatus for refining pulverulent material, said apparatus comprising a pair of oppositely inclined vibratory structures disposed one above the other, each of said structures comprising a downwardly inclined screen and a downwardly inclined series of overlapped plates disposed below said screen and adapted to receive the material passing therethrough, means for leading material from the lower end of said upper screen to the upper end of said lower screen, an auxiliary series of overlapped plates associated with the lowest portion of said lower vibratory structure below the series of overlapped plates forming part of said lower vibratory structure, said series of overlapped plates being adapted to cascade material from the upper to the lower ends thereof, means for leading screened particles from the lower end of said upper series of overlapped plates to the upper end of said auxiliary series of overlapped plates, and means for passing a countercurrent of air through said vibratory structures to clean and dry the pulverulent material whereby said auxiliary series of overlapped plates aids in cleaning and drying the screened material.

5. Apparatus for refining pulverulent material, said apparatus comprising a downwardly inclined screen, means for arcuately reciprocating said screen, and bristle brushes positioned above and in spaced relation to the screen and engageable with the material thereon by reason of the reciprocation of the screen, said brushes comprising a plurality of transversely directed rows of tufts with the tufts of one row being staggered relatively to the tufts in the adjacent rows the arcuate reciprocation of said screen effecting a component of vertical movement tending to toss the pulverulent material vertically upon said screen and into a crushing engagement between said bristle brushes and said screen.

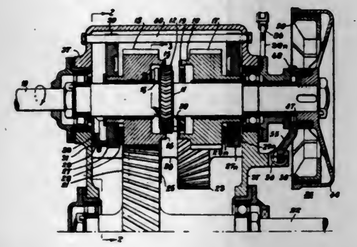
2,320,756
ELECTRONIC DEVICE
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 7, 1942, Serial No. 442,057
2 Claims. (Cl. 172—281)

1. A device for multiplying the frequency of an alternating current comprising an electronic tube having a cathode and a plurality of targets or anodes mounted in a cylindrical boundary encompassing the said cathode and coaxial therewith, a circuit arrangement for said tube including coils in quadrature for producing a rotating magnetic field, a source of alternating current connected to said coils, a secondary coil in transformer relation with each of said coils, said secondary coils being connected to said anodes in a pattern to produce a commutated direct current through the rotating beam in said tube, an



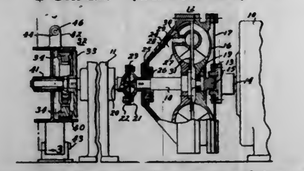
output circuit and connection between said output circuit and said secondary coils to transform the impulses of said commutated direct current into an alternating current of a frequency a given multiple of the frequency of said supply current.

2,320,757
POSITIVE SYNCHRONIZING COUPLING MECHANISM FOR POWER TRANSMISSION
Harold Sinclair, London, and Robert Cecil Clerk, Egham, England, assignors to Hydraulic Couplings Patents Limited, London, England, a company of Great Britain
Application July 31, 1940, Serial No. 348,706
In Great Britain August 19, 1939
20 Claims. (Cl. 74—337)



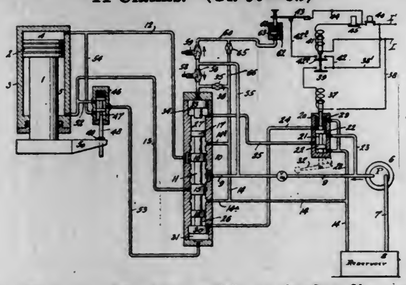
1. In a toothed wheel power transmission gearing, a positive synchronizing coupling mechanism serving as a clutch for establishing a drive through said gearing and including a first member, a second member rotatable relatively to said first member, an intermediate member in driving connection with said second member and capable of sliding relatively to said first and second members into and out of meshing engagement with said first member, and a subsidiary ratchet drive between said first and intermediate members operative while these members are disengaged to synchronize them for meshing cleanly together when said first and second members are urged to rotate relatively to each other in one sense, wherein helical teeth are disposed on the exterior of said intermediate member to co-operate with helical teeth on one of the others of said members and thereby to effect sliding of said intermediate member under the influence of torque transmitted through the mechanism.

2,320,758
ROTARY POWER TRANSMISSION MECHANISM
Harold Sinclair, Kensington, London, England
Application February 8, 1941, Serial No. 377,943
In Great Britain March 1, 1940
1 Claim. (Cl. 192—12)



An apparatus for driving a machine alternatively at a creeping speed and at a higher normal running speed, said mechanism including a driving member for said machine, a driving motor, a hydraulic coupling of the kinetic type having an impeller connected to said motor and a runner connected to said driving member, a brake drum independent of said hydraulic coupling, a rotatable braking element on said driving member for engaging said brake drum and having a brake torque characteristic rising automatically with speed, and a second braking element operable for retaining or releasing said brake drum.

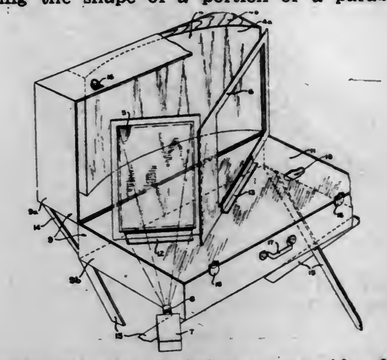
2,320,759
FLUID OPERATED MOTOR
Thomas F. Stacy, Piqua, Ohio, assignor to The French Oil Mill Machinery Co., Piqua, Ohio
Application February 15, 1939, Serial No. 256,561
11 Claims. (Cl. 60—52)



1. The combination with a hydraulic press comprising a main cylinder, a pull back cylinder, and a ram element operated in opposite directions by liquid pressures in said cylinders, of a valve and connections to supply liquid under pressure to each cylinder and release liquid from the other cylinder alternately, said valve having a movable element, a pilot member actuated responsive to pressure in the main cylinder for moving said valve element to apply increased pressure in the main cylinder after an initial movement of the ram element in one direction, and a supplemental pilot member actuated responsive to pressure in the main cylinder for preventing movement of said valve element to the position to deliver liquid to the pull back cylinder for returning the ram element until after the pressure in the main cylinder is relieved.

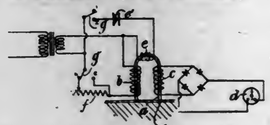
2,320,760
IMAGE PRODUCING APPARATUS
Anning F. Surré, Woodcliff, N. J., assignor to Mendez Corporation, New York, N. Y., a corporation of Delaware
Application July 12, 1940, Serial No. 345,050
3 Claims. (Cl. 88—16.6)

2. In apparatus of the class described, a translucent screen, means for projecting a laterally foreshortened image on said screen from one side thereof, and a specular, concave reflector on the other side of said screen for reflecting said image toward an observer, the surface of said reflector having the shape of a portion of a parabolic



cylinder, said portion being on one side of the center of the parabola and having a mean slope of approximately 55° to the parabola axis, said screen being located between the focal axis of said parabolic cylinder and the center of said reflecting surface.

2,320,761
APPARATUS FOR ELECTRICALLY TESTING THE THICKNESS OF THIN LAYERS
William Henry Tait, Pinner, and Bruce Chalmers, London, England
Application October 22, 1940, Serial No. 362,290
In Great Britain October 26, 1939
8 Claims. (Cl. 175—183)

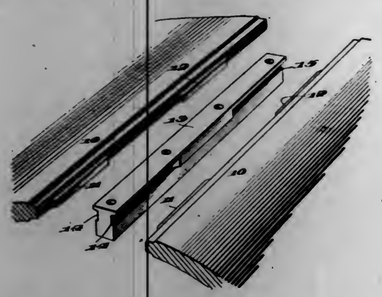


1. Apparatus for determining the thickness of a relatively thin layer carried by a magnetizable base member comprising, a transformer including a primary winding and a secondary winding and a magnetizable core adapted to be bridged at ends thereof by said base member forming a magnetic circuit with said layer forming a gap in the magnetic circuit, means for supplying alternating current to said primary winding, means for measuring the voltage across the secondary winding, and means for magnetically saturating said core.

2,320,762
PRINTING PLATE CLAMP
Paul L. Tollison, North Plainfield, and Isidor Tornberg, Plainfield, N. J., assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application November 28, 1941, Serial No. 420,878
7 Claims. (Cl. 101—378)

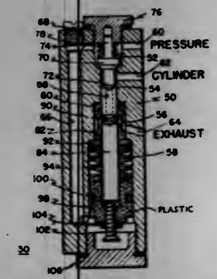
1. The combination with a printing plate cylinder, of printing plates, each of said plates being provided on its straight longitudinal edge with a plurality of spaced apart tongues, a margin bar rigidly secured to said plate cylinder and having a plurality of spaced apart grooves for the reception of the tongues on the edge of the plate, to thereby hold the straight edge of the

plate against the cylinder and to provide flat bearing surfaces for a straight edge plate and



means for clamping the curved edges of the plates on the cylinder.

2,320,763
PILOT VALVE
Walter C. Trautman, North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation, Ltd., North Hollywood, Calif., a corporation of California
Application November 29, 1941, Serial No. 420,975
4 Claims. (Cl. 277—21)



1. In a pilot valve, a valve housing having a pressure port, a cylinder port, an exhaust port, and a bore connecting said ports and having a valve seat formed therein between said pressure port and said cylinder port, a first poppet valve adapted to seat on said valve seat and sealing said pressure port from said cylinder port, a second poppet valve sealing said cylinder port from said exhaust port, said second poppet having a lost-motion connection with said first poppet, a seat for said second poppet having a variable axial position with regard thereto, and pressure responsive means governing the position of said second poppet valve seat and acting through said second poppet to open said first poppet.

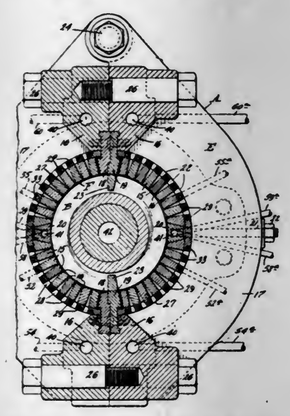
2,320,764
CONTAINER
William L. Ulrich, Washington, D. C.
Application September 23, 1941, Serial No. 412,014
3 Claims. (Cl. 229—5.5)

1. In a container, laminated layers of material forming side walls of a container, a liner engaging the innermost layer, metallic reinforcing strips secured to the laminated layers and protruding beyond edges thereof and bent to engage each other, and metallic reinforcing strips engaging and clinched to the liner and protruding beyond edges thereof and bent to engage and



overlie the other metallic strips coacting therewith in forming mounting for end walls.

2,320,765
EXPRESSING PRESS
Charles B. Upton, Piqua, Ohio, assignor to The French Oil Mill Machinery Company, Piqua, Ohio
Application September 17, 1941, Serial No. 411,131
15 Claims. (Cl. 100—50)

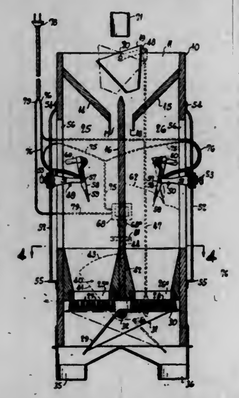


1. In an expressing press which comprises a cage having escape openings through its walls for expressed liquid and means for subjecting material in the cage to pressure for expressing liquid therefrom and extruding material through a discharge opening in the cage, an improved cage comprising a lining which confines the material and provides the escape openings for the expressed liquid, an outer cage frame structure which supports and braces said lining, and a canal grid which is interposed between said lining and said outer structure and is provided with passages which extend transversely therethrough and communicate with the openings in the lining for the escape of the expressed liquid and with a plurality of internal canals which extend approximately parallel with and in close proximity to the outer surface of said lining, said canals being formed in portions of said grid which are disposed between said liquid escape passages of the grid and directly contact with said lining, said canals being connected with means for circulating therethrough a fluid temperature changing medium.

2,320,766
METHOD OF SEPARATING ALBUMIN FROM NATURALLY AND ARTIFICIALLY PREPARED SOLUTIONS, PARTICULARLY BLOOD
Peter Voskresensky and Maria Sheremet, Moscow, Union of Soviet Socialist Republics
No Drawing. Application March 12, 1940, Serial No. 323,632. In Union of Soviet Socialist Republics June 23, 1938
10 Claims. (Cl. 260—122)

1. The method of preparing products, suitable for use in preparing plastics, glues, lacquers and finishes, from natural and artificial albumins, which comprises adding to the aqueous solution of such an albumin a water-soluble, sulfonated organic compound selected from a class consisting of sulfonated naphthas, sulfonated naphthenes and sulfonaphthenic acids, and recovering the resulting precipitate.

2,320,767
AUTOMATIC MEASURING APPARATUS
Edward D. Washburn and Pinkney M. Washburn, Shelby, N. C.
Application September 2, 1942, Serial No. 457,008
4 Claims. (Cl. 73—219)



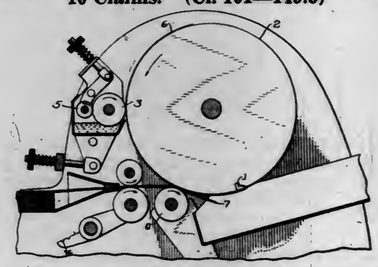
1. A measuring device for coarse material such as grain, feed-stuff, and the like, a pair of juxtaposed measuring containers, a movable material deflector adapted to communicate with said containers one at a time, a pivoted bottom member adapted to close the lower ends of said containers one at a time, a weighted arm having one end fixed to said bottom at its pivot point, a pivoted lever disposed within each container, a normally opened mercury switch on one end of each of said levers, and a material feeler on the other end of each of said levers, electro-magnetic means connected to each of said switches for engaging the weighted arm and holding the bottom member in position to close the bottom of one of the containers at one time, said electromagnetic means being controlled by said switches one at a time for releasing said arm, and allowing the weight of the material within the compartment to swing the bottom member on its pivot to where the bottom member will engage the lower end of the other container to close the same, a connection between said bottom member and said deflector for moving the deflector when the bottom member is moved, each of said levers being moved by the weight of the material when the material reaches a predetermined high point in a container.

2,320,768
SHOE FITTING DEVICE
Elmer Jared Bliss, Chilmark, Mass.
Application February 18, 1942, Serial No. 431,418
5 Claims. (Cl. 33—3)



1. In a device of the character described, a flexible strip adapted for insertion into a shoe, and an upright member connected to said strip adjacent one of the ends of the latter, a second member, and means secured to one of said members to frictionally engage the other of said members at different vertically aligned points on the latter whereby the upper edge of said second member may be variably spaced from said strip.

2,320,769
DUPLICATION PROCESS AND MASTER SHEET FOR USE THEREIN
William J. Champion, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application November 17, 1941, Serial No. 419,395
10 Claims. (Cl. 101—149.5)



1. The method of duplicating which comprises applying to the non-design portions of a master having thereon a design of a soluble dye a coating which is substantially non-absorbent of a solvent for said dye, applying said solvent to the surface carrying the design, and thereafter contacting said surface with a copy sheet.

2,320,770
RESPIRATOR
Harvey S. Cover, South Bend, Ind.
Application December 20, 1940, Serial No. 370,913
11 Claims. (Cl. 128—146)



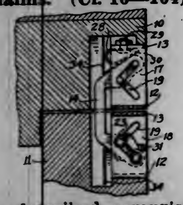
1. In a respirator, means for attaching a filter element of a respirator to the body portion, said means including a clamping ring provided with integral means for clamping a filter element to the clamping ring and a locking cap adapted to

extend through an aperture in the wall of the body portion of the respirator and engage with the clamping ring to lock the filter element to the body portion of the respirator.

2,320,771
PAPER SIZING
Paul B. Davidson, Wilkinsburg, Pa., assignor to Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts
No Drawing. Application December 19, 1939, Serial No. 310,040
6 Claims. (Cl. 106—135)

2. A paper sizing consisting of an aqueous solution having a density of 2.8 to 4.5 degrees Beaumé and a pH of 8.0 to 9.5 and containing 3½ to 8½ percent of animal glue, an alkali and substantially ½ percent of borax as a buffering agent for maintaining the solution at said pH, and having between substantially ¼ and 1¼ percent of bentonite suspended therein.

2,320,772
HINGE
John P. Doman, Los Angeles, Calif.
Application November 10, 1941, Serial No. 418,620
7 Claims. (Cl. 16—164)



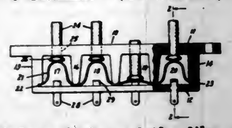
5. A hinge as described comprising a pair of bracket members each having a U-shaped portion, the opposite sides of said portions each having a V-shaped pin guide slot, a link having angularly disposed end portions, a pair of bearing pins in each said end portion and extending into and being slidable in the said guide slots of one of said bracket U-shaped portions and a pair of springs each adapted to engage one end of said link whereby to resiliently secure said pins in an extreme position in said slots.

2,320,773
ELECTRODEPOSITION OF MANGANESE
Colin Garfield Fink, New York, and Morris Kolodney, Brooklyn, N. Y., assignors to Electro Manganese Corporation, Minneapolis, Minn., a corporation of Delaware
No Drawing. Application April 4, 1940, Serial No. 327,824
14 Claims. (Cl. 204—45)

13. A composite anode for use in the electrodeposition including the electrowinning of manganese comprising an electrically conducting core and an outer layer containing about 9% to about 50% tin, a small amount to about 4.4% cobalt effective to minimize manganese dioxide formation and the balance principally lead.

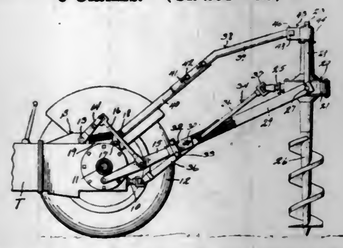
14. A process for the electrodeposition of manganese including the electrowinning of manganese, which comprises electrolyzing a solution containing manganese sulfate, ammonium sulfate and sulfuric acid in the presence of an anode comprising an electrically conducting core and an outer layer containing about 9% to about 50% tin, a small amount to about 4.4% cobalt effective to minimize manganese dioxide formation and the balance principally lead.

2,320,774
MULTIPLE SWITCH AND THE LIKE
Frank V. Flynt, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application August 25, 1942, Serial No. 455,998
6 Claims. (Cl. 200—5)



1. A multiple switch and the like comprising a casing having first and second spaced walls, a plurality of spaced elements to be actuated held on the first wall, a plurality of actuating members held on the second wall, each of the actuating members being located opposite of one of the elements to be actuated, a plurality of abutments held on the casing and slightly spaced from portions of said first wall and centrally located between the elements to be actuated, and a spring having ends fixed on the casing, portions of the spring forming corrugations, each having a crest in cooperative relation with one of the actuating members and a trough engaging one of the abutments, one portion of the spring being substantially flat and engaging one of the elements to be actuated.

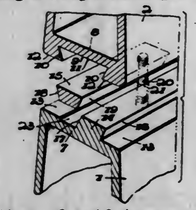
2,320,775
TRACTOR OPERATED HOLE DIGGER
Carlton Morris Garner, New Madrid County, Mo.
Application July 7, 1942, Serial No. 450,047
6 Claims. (Cl. 255—19)



1. An earth boring mechanism comprising a differential gearing unit, a pair of axles operatively coupled together by said differential unit, means maintaining said axles vertically, an earth auger connected with the lower one of the axles, means for transmitting driving power to the differential unit, and means yieldingly frictionally holding the upper one of said axles against turning during the driving of the auger into the earth and yielding for the rotation of the upper axle in the event of stoppage of the turning of the auger.

2,320,776
MACHINE TOOL
George Gorton, Racine, Wis., assignor to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin
Application May 16, 1941, Serial No. 393,811
5 Claims. (Cl. 90—11)

5. A machine tool having a supporting deck provided with vertical guide means and a part providing transverse abutment means; a normally-fixedly clamped ram longitudinally slidable on said deck; said deck having a longitudinal male tenon portion; said ram providing a female longitudinal groove receiving and longitudinally slidable on said tenon, said groove having longitudinal downwardly converging opposite edge surfaces, said tenon providing complementary longitudinal upwardly diverging opposite edge surfaces, and a longitudinal elongated clamping bar providing one of the longitudinal upwardly diverging edge surfaces of said tenon, and constituting a cooperative partial-width lon-



gitudinal portion of said tenon, said bar being relatively vertically movable to and from ram clamping positions, and provided with pull-down means fixed thereto and loosely laterally confined by said guide means; and stop means having elongated screw-threaded connection with said pull-down means, and operatively cooperating with said abutment means.

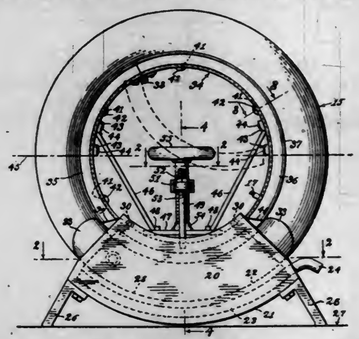
2,320,777
CONNECTOR
Roy G. Graham, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application October 26, 1942, Serial No. 463,310
6 Claims. (Cl. 287—77)



1. A connector comprising a body member provided with a groove formed therein which is open at the outer surface of said body member, said groove being adapted to receive a conductor having a diameter slightly greater than the depth of said groove in order that the conductor received by the groove will extend outwardly beyond the groove a slight distance, and a split clamping member possessing resiliency which is mounted for rotation on said body member, said clamping member being provided with a bore through which a portion of said body member extends and an elongated opening which extends transversely of the wall of said clamping member from the outer surface thereof to said bore, the wall of said bore of the clamping member and the surface portion of the body member with which said bore wall contacts for rotary movement with respect thereto being substantially parallel relative to the axis of the body member, said clamping member being rotatable relative to the body member to bring the opening thereof into alinement with the groove of the body member to permit a conductor to be introduced into said groove and being rotatable to position said opening in offset relation with respect to said groove to clampingly engage the conductor in said groove between the face of the bore of the clamping member and the base of the groove of said member.

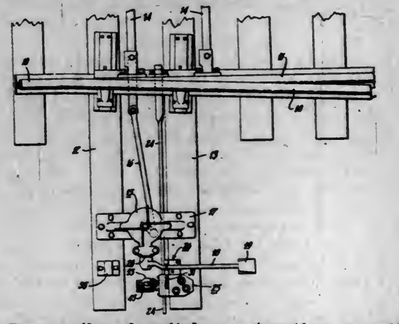
2,320,778
TIRE VULCANIZING APPARATUS
Irving N. Herman, Chicago, Ill.
Application April 13, 1942, Serial No. 438,769
10 Claims. (Cl. 18—18)

9. A vulcanizing apparatus comprising a mold section adapted to receive a portion of a tire with an inner tube and having a bead plate to engage the beads of the tire, means carried by the mold for exerting adjustable pressure against the bead plate and including a pressure plate resting on said bead plate, a rim consisting of a plurality of hinged sections limited in their outward movement to a portion of a true circle and adapted to



collapse inwardly, the free end of the rim sections being spaced apart to engage the end of the bead plate, stops on the inner surfaces of the rim sections, abutments on the pressure plate, and diverging brace bars extending from said abutments to said stops to hold the tire and rim in position when the tire is inflated to vulcanizing pressure.

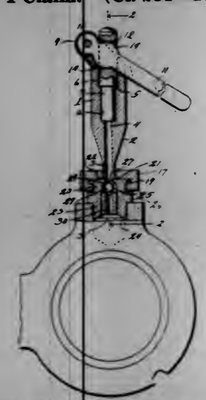
2,320,779
SAFETY LOCKING DEVICE
Albert F. Huber, Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application May 23, 1940, Serial No. 336,701
9 Claims. (Cl. 246—401)



9. In a railroad switch construction, a switch stand comprising a body having operating mechanism to connect with a switch, an operating lever having connection with said mechanism, a lever latch to receive said lever when the switch is in main line position, said latch comprising a support having a slot to receive said lever, a lever catch pivoted to said support and having a first part engaging said lever, a locking device comprising a housing having a recess, a lock rod having a notch and slidable in said recess and extending to said switch, a treadle lock having a locking lug slidable in said housing and engageable with said notch and having a treadle projecting through the side of said housing, said lever catch also having a second part which has simple contact engagement with said treadle lock, said lever catch and said support being so

arranged that the raising of said lever to throw the switch swings said lever catch to disengage said lug from said notch, said lug being disengageable from said notch also by stepping upon said treadle, said switch stand and lever latch being readily and completely disengageable from said locking device in case said switch stand and lever latch are carried away by accident.

2,320,780
GREASE GUN AND FITTING
William T. Jennings, Medford, and Raymond F. Clark, North Billerica, Mass.
Application May 17, 1941, Serial No. 394,026
1 Claim. (Cl. 284—17)



In combination with the discharge end portion of the cylinder of a grease gun, a substantially flat attaching plate surrounding the discharge extremity of the barrel, means for rigidly securing said plate to the discharge extremity of the barrel, a tubular fitting to be operatively placed with respect to a lubricating opening, the outer face of the plate being provided substantially radially thereof with a slot open at one end through the periphery of the plate, a part of the fitting being slidable into the slot, said part and the side walls of the slot interlocking, the bore of the barrel and fitting being in register when the barrel and fitting are engaged, the bore of the fitting having an internal valve seat, a ball valve within the member and coacting with said valve seat to prevent retrograde flow through the fitting, and a tubular plug within the end portion of the bore of the fitting remote from the valve seat to limit the movement of the ball valve away from the seat, the inserted end of the plug having its wall provided with notches to allow grease to be forced out through the plug without hindrance by the ball valve when said valve is at the limit of its movement as determined by the plug.

2,320,781
MATCH BOOK
John E. Knopp, Tulsa, Okla.
Application March 27, 1940, Serial No. 326,277
1 Claim. (Cl. 206—29)

A match book comprising a package of matches, and a folder for said package in which the package is secured, said folder comprising a cover flap, and a base keeper flap for receiving the free edge of the cover flap between the same and said package, said keeper flap being divided along its longitudinal median line into an abrasive scratch zone and an advertising zone, and a strip of transparent material covering the advertising zone, said strip having an edge forming a dividing line between said zones, said edge comprising a guide



for matches scratched on said abrasive zone to prevent the same from being scratched into the advertising zone.

2,320,782
FOREHEAD PERSPIRATION DIVERTER
Thomas H. Larsen, Washington, D. C.
Application May 28, 1942, Serial No. 444,845
4 Claims. (Cl. 2—171)



1. A forehead protector of the class described comprising in combination, a pad of absorbent material, a clamping band having a symmetrical form with a portion bent to receive and hold the middle portion of the pad, and means for attaching the band and supporting it on the head of an individual.

2,320,783
CONVERTIBLE JACKET
Robert E. Lee, Toledo, Ohio, assignor to The Hettrick Manufacturing Company, a corporation of Ohio
Application January 12, 1942, Serial No. 426,429
3 Claims. (Cl. 2—94)

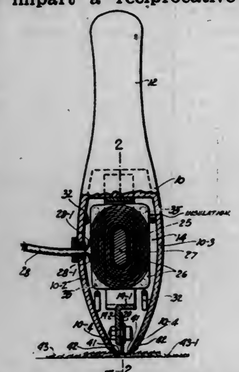


1. A hunting jacket comprising a hip length garment, a strip extending around and overlapping the lower edge of the garment, a detachable skirt portion adapted to be connected to such lower edge, cooperable fasteners on the top edge of said skirt and lower edge of said garment respectively, a game pocket in said skirt portion provided with an upwardly extending flap, and detachable fasteners on the upper edge of said flap and the lower edge portion of said garment respectively whereby the weight carried by the game pocket is transmitted to the garment instead of said skirt portion, said last fasteners being concealed by said overlapping strip.

2,320,784
SEAM RIPPER
Harold A. Livingston and Carlos J. Cardona, Hollywood, Calif.; said Cardona assignor to said Livingston
Application January 1, 1943, Serial No. 470,968
21 Claims. (Cl. 30—272)

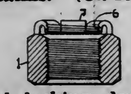
1. A seam ripper, including in combination, a

free-swinging blade having a longitudinally extending cutting edge; and electromagnetic means operative to impart a reciprocative draw-cut



motion to the said blade along a line that is substantially in alignment with the longitudinal dimension of the said cutting edge.

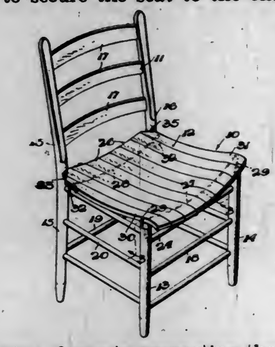
2,320,785
THREADED LOCKING DEVICE
Richard W. Luce, Southport, Conn.
Application March 7, 1940, Serial No. 322,650
5 Claims. (Cl. 151—21)



5. A threaded locking device comprising in combination a body portion having the load-carrying thread, a relatively thin wall section extending from one end of the body portion and inwardly bent to provide an end portion spaced from and axially aligned with the body portion, the wall of the end portion being sufficient to receive and maintain a thread and having a thread therein of like pitch as the thread of the body portion, and the bent portion uniting the two threaded portions constituting a resilient portion normally maintaining the threaded portions with the threads thereof out of phase toward each other and arranged to partake of a bending action upon relative axial movement of the threaded portions and so proportioned that it may bend under a force acting against the threads of the two threaded portions and without substantial damage to the threads, to an extent greater than the amount required to accommodate commercial thread tolerances.

2,320,786
CHAIR
Walter Clyde Lucas, Asheboro, N. C.
Application June 10, 1941, Serial No. 397,457
3 Claims. (Cl. 155—178)

2. A chair having a pair of front posts and a pair of rear posts, a plurality of rounds connecting said posts and including a front top round, a rear top round and side top rounds, the ends of said front top round connecting the front posts below the tops of said front posts, a seat comprising a plurality of slats, means for securing the slats together as a unit in edge to edge contact including a pair of front and rear rods, each rod passing through openings in the slats and of sufficient springiness to permit the rods to be bowed, the ends of the front rod being bent downwardly and penetrating into the front posts, with each end slat in contact with its respective front post, the ends of the rear rods each being bent downwardly and around its respective top side round and cooperating with the ends of the front rod to secure the seat to the chair frame



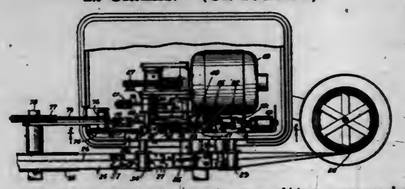
and fastening elements connecting the top front and rear rounds to a centrally positioned slat of the seat whereby the front and rear rods are placed under tension and the rods and slats are bowed downwardly and inwardly to provide a transversely curved seat.

2,320,787
BROACH
Max B. Mentley, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan
Application April 29, 1940, Serial No. 332,349
6 Claims. (Cl. 29—95.1)



1. A spline broach having a series of involute cutting teeth thereon, said teeth being relieved back of their cutting edges with involute relief.

2,320,788
TELEGRAPHIC TAPE TRANSMITTER
Albert W. Mills and Frank J. Furman, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 2, 1942, Serial No. 449,446
12 Claims. (Cl. 178—17)



1. A telegraphic tape transmitter comprising a plurality of constantly rotating cam elements, tape feeding means including a feeding pawl and a latch lever actuated by one of the said constantly rotating cam elements, a positionable inverted T lever having one arm thereof actuated by another of said constantly rotating cam elements, a plurality of sensing elements controlled by said T lever for sensing the telegraphic tape, said cam elements being arranged to render the tape feeding pawl effective after the actuation of the said T lever, electro-mechanical

latching means for latching another arm of the said T lever and rendering the second mentioned constantly rotating cam element ineffective for further actuating the said T lever and sensing elements, and additional latching means pivotally supported on still another arm of the said T lever for latching the said latch lever and rendering the first mentioned constantly rotating cam element ineffective for further actuating the said tape feeding pawl, said additional latching means being arranged to permit a tape feeding operation after the latching of the said T lever.

2,320,789

METHOD OF AND APPARATUS FOR MOLDING FIBROUS PULP ARTICLES

Stephen F. Montague, Oswego, and Lee D. Pierce, Fulton, N. Y., assignors to Berst-Forster-Dixfield Company, New York, N. Y., a corporation of Maine

Application October 18, 1939, Serial No. 299,936
4 Claims. (Cl. 92—54)



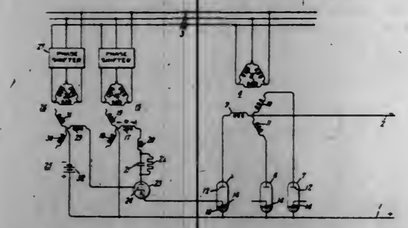
1. A die for molding fibrous pulp, having a molding face against which an article of fibrous pulp is adapted to be molded, said die having gaseous pressure outlets arranged about the entire periphery fo the die and peripherally of and spaced from the margin of said molding face and positioned to direct a blast of compressed gas to impinge directly against the entire peripheral edge of the article in engagement with said face to blow down and mat the pulp fibres at said edge.

2,320,790

ELECTRIC VALVE CIRCUITS

Elmo E. Moyer, Scotia, and August Schmidt, Jr., Niskayuna, N. Y., assignors to General Electric Company, a corporation of New York

Application February 3, 1942, Serial No. 429,383
11 Claims. (Cl. 175—363)



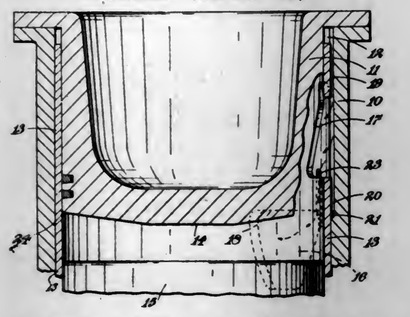
1. In combination, an alternating current supply circuit, a load circuit, electric translating apparatus connected between said circuits and comprising electric valve means having a control member requiring the passage of a predetermined minimum current therethrough for rendering said electric valve means conductive, and an excitation circuit energized from said supply circuit and comprising in series with said supply circuit a series resonant circuit having a natural frequency substantially greater than the frequency of said supply circuit and an electric discharge device connected in series relation with said resonant circuit and said control member.

2,320,791

SLEEVE-VALVE INTERNAL-COMBUSTION ENGINE

Frank Morgan Owner and Harry Thomas Underwood, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company

Application May 11, 1942, Serial No. 442,522
In Great Britain May 26, 1941
4 Claims. (Cl. 123—75)



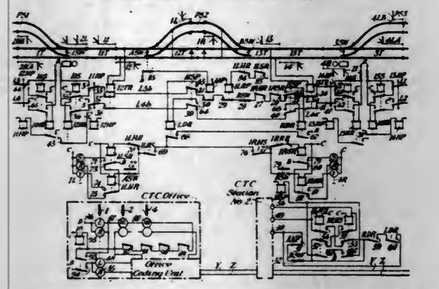
1. In a four-stroke internal-combustion engine, a cylinder having a re-entrant head to provide a sleeve-valve pocket, a sleeve-valve having a combined reciprocating and oscillating movement within the cylinder with its end accommodated within the pocket, and a piston reciprocable within the sleeve-valve, which cylinder and sleeve-valve are formed with co-operating exhaust ports, and which cylinder is formed with a passage opening to the inner end of the pocket, and so positioned with respect to the travel of the valve that it registers with the exhaust port in the sleeve-valve whilst the valve is moving inwards in the pocket, and that it is covered by the sleeve valve during the power and exhaust strokes of the piston in the cylinder.

2,320,792

RAILWAY TRAFFIC CONTROLLING APPARATUS

John M. Pelikan, Chicago, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application December 30, 1941, Serial No. 424,901
8 Claims. (Cl. 246—3)



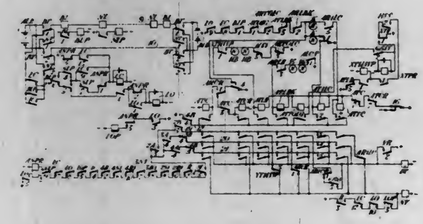
1. In railway traffic controlling apparatus the combination comprising, a stretch of railway track over which traffic moves in both directions and including a passing siding, a two-wire line circuit extending along said stretch controlled by traffic occupying the stretch and adaptable of being connected to a current source at one end or the other to establish the direction for traffic to move through the stretch, a leaving signal at each end of the siding to govern traffic entering said stretch from said siding, two control relays, manually controlled means including a repeater relay effective when picked up to open said line circuit and connect said control relays one to each end portion of the line circuit, and operating means for said signals controlled by said manually controlled means and said control relays to selectively operate one or the other of said leaving signals.

2,320,793

BLOCK SIGNALING SYSTEM FOR RAILWAYS AND THE LIKE

Leslie Hurst Peter and James Perrin Coley, King's Cross, London, England, assignors, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application March 17, 1942, Serial No. 435,084
In Great Britain May 20, 1940
9 Claims. (Cl. 246—26)



1. In a signal control system for a stretch of single railway track in which signals are located at opposite ends of the stretch for governing traffic movements over the stretch, the combination comprising, manual control apparatus located adjacent each of the opposite ends of said stretch each including a manually controllable contact device freely operable at any time and a second manually controllable contact device having a normal and a reverse position and said second contact device having a normal lock for locking said second contact device in the normal position if said normal lock is deenergized, a pair of control conductors extending between the opposite ends of said stretch, means controlled by operation of one of said first contact devices if the adjacent second contact device is in its normal position for transmitting a code over said conductors to the apparatus at the opposite end of said stretch for effecting an indication "is line clear" at said opposite end of the stretch and for energizing the lock for the second contact device at said opposite end of the stretch, means controlled by the second contact device at said opposite end of the stretch if then operated to its reverse position for transmitting a code over said conductors to the first end of the stretch for effecting a "line clear" indication at the first end of said stretch, and means for clearing a signal at the first end of said stretch if the "line clear" indication has been received.

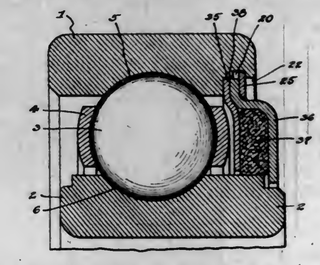
2,320,794

SEAL FOR ANTIFRICTION BEARINGS

Thomas C. Pew, Ann Arbor, Mich., assignor to Hoover Ball & Bearing Company, Ann Arbor, Mich., a corporation of Michigan

Application January 19, 1942, Serial No. 427,348
2 Claims. (Cl. 286—5)

1. The combination with an outer ring member and an inner ring member of a bearing, said members being relatively rotatable and having a space therebetween for accommodating rolling elements, of a plate member carried by the outer ring member and projecting toward the inner ring member and having an outer portion disposed substantially in a radial plane, an inner portion disposed substantially in a radial plane and an intermediate portion extending axially and connecting the inner and outer portions whereby the inner and outer portions are axially offset, the outer member having a circumferential inwardly opening groove adjacent one side thereof, the inner side wall of the groove being in a substantially radial plane and terminating on a radius less than the radius of the outer side wall of the groove, the plate member having an outside diameter such as to pass through the outer wall of the groove and the outer radial portion of the plate member being abutted against the inner radial side wall of the groove, a normally frusto-conical washer of soft metal having an outside diameter such as to pass through the outer wall of the groove and having an inside diameter substantially comparable to the outside diameter of the intermediate portion of the plate member, said washer being deformed into flattened and expanded form so as to lie substantially flush against the outer radial portion of said plate member with its outer peripheral edge lying within the groove and engaging behind the outer side wall of the groove and in such expanded form having an outside diameter less than the diameter of the bottom of the groove whereby the plate member and washer are tightly engaged between the inner and outer side walls of the groove without pressure engagement of the peripheral edge of the washer with the bottom of the groove, said washer having its inner peripheral edge in biting engagement with the intermediate axial portion of the plate.



2,320,795

POLYMERIZATION OF ROSIN AND ROSIN ESTERS

Oscar A. Pickett, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 31, 1940, Serial No. 348,686
10 Claims. (Cl. 260—97)

1. The process of polymerizing a material selected from the group consisting of rosin and rosin esters, which comprises treating said material at a temperature between about 50 and about 275° C. with a polymerizing agent comprising a mono-alkali acid salt of an acid selected from the group consisting of sulfuric and phosphoric acids, said agent being employed in amount equal to at least about 2% by weight based on the weight of said material, for a period of time sufficient to effect at least a 5° C. increase in melting point of said material.

2,320,796
METHOD OF MAKING HIGH TENSION ELECTRIC CABLE
Hubert H. Race, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 5, 1942, Serial No. 429,646
2 Claims. (Cl. 154—2.24)



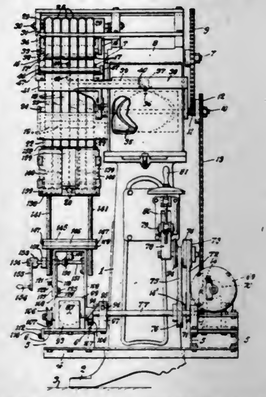
1. The method of making a high potential stranded electric conductor comprising assembling bare metal strands in concentric layers to form the conductor with small outwardly opening spaces between the strands of the outer layer, spirally wrapping a thin body of relatively dry fibrous material over the strands, thereafter adding sufficient moisture to the dry body to render it soft and pliable, wrapping additional insulation over said moistened body under sufficient tension to cause said thin body of fibrous material to substantially fill the strand spaces of the outer layer of strands, removing moisture from the body and the insulation, impregnating the fibrous body and the insulation, and enclosing the insulation in an impervious sheath.

2,320,797
CONVEYER SYSTEM
William H. Robinson, Schenectady, N. Y., and Jasper E. Anderson, Saugus, Mass., assignors to General Electric Company, a corporation of New York
Original application January 20, 1940, Serial No. 314,830. Divided and this application March 25, 1941, Serial No. 385,070
3 Claims. (Cl. 198—20)



1. A conveyer system comprising an endless belt, means for discharging rod-like articles in end-to-end succession lengthwise of said belt, a second endless belt having a travel such that a longitudinal portion of its article-carrying surface is transverse to and spaced from the discharge end of said first-mentioned belt, a third endless belt having a travel such that a longitudinal portion of its article-carrying surface is inclined to and extends across said longitudinal portion of said second-mentioned belt in line with said first-mentioned belt, an abutment on the side of said second-mentioned belt opposite the discharge end of said first-mentioned belt and in line with the travel of said longitudinal portion of said third-mentioned belt across said second-mentioned belt and means for propelling said belts, said first-mentioned belt and said third-mentioned belt being propelled at speeds such that said articles on said first-mentioned belt are discharged lengthwise onto said longitudinal portion of said third-mentioned belt and are propelled by said third-mentioned belt into impactive engagement with said abutment before they fall upon said longitudinal portion of said second-mentioned belt in side by side relationship.

2,320,798
PACKAGING MACHINE
Ernest M. Runquist and Lothar A. Ederer, Chicago, Ill., assignors to R. J. Ederer Company, Chicago, Ill., a corporation of Illinois
Application December 15, 1941, Serial No. 423,064
27 Claims. (Cl. 28—21)

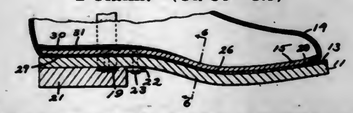


1. In a mechanism for packaging stranded material, a drum, a plurality of rows of pins fixed thereto, and means for carrying a continuous strand of material alternately about a pin, first on one side of the drum and then on the other, a plurality of belts positioned about said drum, and adapted to engage said continuous strand as it passes about said drum, guide means for said belts whereby they are held parallel to each other during a portion of their travel.

2,320,799
CATALYSTS AND PREPARATION THEREOF
Robert F. Ruthruff, Chicago, Ill.
No Drawing. Application February 7, 1940, Serial No. 317,770
10 Claims. (Cl. 196—52)

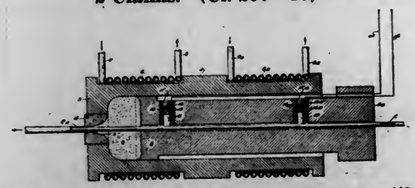
4. A process of converting hydrocarbons of relatively low value and utility into hydrocarbons of higher value and utility comprising contacting said hydrocarbons of relatively low value and utility at conversion temperature with a catalyst comprising a substrate of substantially flat, highly adsorptive plates, flakes or sheets of silica obtained from vermiculite by treating said mineral with acid, united with alumina.

2,320,800
ORTHOPEDIC SHOE
Isadore Sabel, West Philadelphia, Pa., and Laurie S. Macdonald, Brockton, Mass.
Application August 2, 1940, Serial No. 349,689
1 Claim. (Cl. 36—8.5)



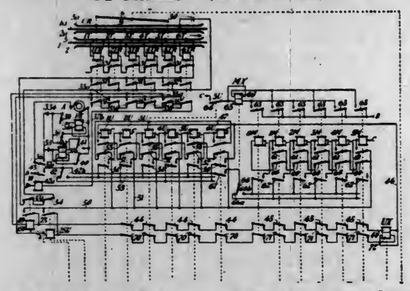
A brace shoe of the Goodyear welt type having an upper and an outer sole extending to the heel end of the shoe, an inner sole, a welt, and a reenforcing metal plate disposed between the outer and inner sole and extending rearwardly from substantially the ball line of the shoe to at least beyond the midpoint of the heel thereof, said reenforcing plate extending transversely of the shoe substantially from the inseam on one side to substantially the inseam on the other side, said reenforcing plate comprising a one-piece hardened thin metal plate, a stirrup and fastening means extending through the inner sole, plate, outer sole and stirrup for securing the same rigidly together.

2,320,801
METHOD OF COATING METAL
Leon Simons, New York, N. Y.
Application October 3, 1940, Serial No. 359,504
2 Claims. (Cl. 207—10)



1. A method of covering a metal core with a sleeve of covering metal, which consists in advancing the core through an extrusion zone and while contacting the core with said covering metal in the extrusion zone, extruding the covering metal out of said extrusion zone in the form of a jacket around said core, heating the core in said extrusion zone by means of an electric current, indirectly heating the covering metal in said extrusion zone by means of said electric current to extrusion temperature while maintaining the covering metal which is located in said extrusion zone and which is spaced from the core at a temperature below the melting point of said covering metal.

2,320,802
RAILWAY BRAKING APPARATUS
Clarence S. Snavely, Churchill Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 24, 1941, Serial No. 424,338
34 Claims. (Cl. 303—21)

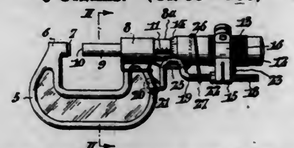


1. Apparatus for measuring the speed of a vehicle comprising a chain of counting relays, a source of controlled frequency alternating current, and means effective while said vehicle is traversing a fixed distance for successively energizing said relays at the rate of one for each cycle of said source.

11. Apparatus for repeatedly measuring the speed of a car traversing a stretch of track comprising a series of track sections formed in said stretch, said sections being of such lengths that only one wheel of a car can occupy a section at a time, a track circuit for each section including the section, a source of current, the winding of an associated track relay and a back contact of each of the track relays in advance, whereby the track relays will become successively energized and de-energized as the car traverses said stretch, and time measuring means set into operation by the energization of each relay, said time measuring means comprising a source of constant frequency alternating current, and means for counting the cycles of said source.

22. In combination, a stretch of railway track, a fluid pressure operated car retarder associated with said stretch for retarding the speed of a car traversing said stretch, a series of relatively short insulated control sections formed in one rail of said stretch, a series of track relays one associated with each track section, a track circuit for each track relay including a source of current, the associated section, the opposite rail of said stretch, and a back contact of each track relay in advance, whereby each track relay will pick up when and only when the associated track section is the leading occupied section, time measuring means comprising a source of constant frequency alternating current and a counting chain for counting the cycles of said source, means controlled by each track relay for setting said time measuring means into operation, and means controlled by said time measuring means for controlling the pressure of the fluid supplied to said car retarder.

2,320,803
STOP MEANS FOR MICROMETER CALIPERS
George A. Staib, Norristown, Pa.
Application April 16, 1942, Serial No. 439,153
6 Claims. (Cl. 33—166)



1. Stop means for a micrometer caliper having a jaw piece with the fixed gauge point on one of its extremities and a bearing for the stem of an opposing shiftable gauge point on its other extremity, and a regulating screw thimble for shifting said movable point, said stop means including an arm with means for securing it to the thimble with capacity for circumferential adjustment thereabout; a stop independently adjustable on said arm and adapted to contact with the jaw piece at one side; and spring means operative to normally maintain the stop yieldingly in contact with said jaw piece.

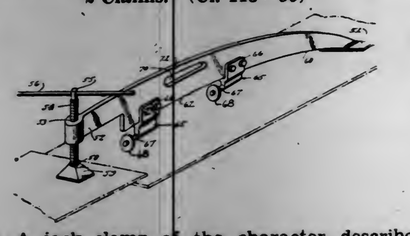
2,320,804
SHADE ROLLER BRACKET
Ralph F. Smart, St. Louis, Mo.
Application November 19, 1942, Serial No. 466,128
4 Claims. (Cl. 248—270)



2. A shade roller bracket comprising a supporting plate composed of sheet metal having its upper and lower ends extended toward each other forwardly beyond the plate and cooperating with said plate to form transverse grooves, and having a vertically elongated and laterally narrow slot through both of said ends and through adjacent portions of said plate at the opposite sides of said

grooves, and also having a vertically narrow and laterally elongated slot between said ends; a bracket including a base having its ends slidable transversely in said grooves and provided with a relatively elongated and wide slot adjacent to each end and registering with said respective slots in said plate, leaving said bracket and said plate vertically adjustable together as a unit and leaving said bracket laterally adjustable on said plate when fasteners extend through said slots in said ends and in said base, and also having a hole registering with said last named slot in said plate for receiving a fastener preventing vertical movement of said bracket and said plate together as a unit and also preventing relative lateral movement of said bracket on said plate.

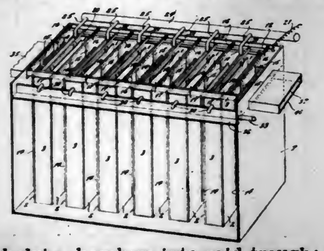
2,320,805
STRUCTURAL TOOL
Richard F. Smith, Norfolk, Va., assignor to Welding Tools and Engineering Corporation, Norfolk, Va., a corporation of Virginia
Application November 14, 1940, Serial No. 365,714
2 Claims. (Cl. 113—99)



1. A jack clamp of the character described for operating on one side only of a structural metal member, comprising an elongated and narrow beam member having top and bottom edges, said beam member having a transversely extending widened base rigidly secured to one end, a threaded rod, a pressure pad having a ball and socket connection with one end of said threaded rod, the other end of said beam member being provided with a threaded bore portion extending depthwise thereof and receiving said threaded rod, means for turning the threaded rod, and a hook member secured to said beam member against rotating movement, said hook member including a projection depending from the bottom edge of the beam member in alignment therewith and in a direction perpendicular to the axis of the threaded rod, and said projection being transversely rounded on its portion adjacent the beam member to provide pivotal accommodating movement with an engaged washer or similar member.

2,320,806
CELL CONSTRUCTION
Robert M. Stewart, Knoxville, Tenn., assignor to Electro Manganese Corporation, Minneapolis, Minn., a corporation of Delaware
Application February 27, 1942, Serial No. 432,599
2 Claims. (Cl. 204—263)

1. In a cell for the electrowinning of manganese, said cell having end walls and side walls and containing a series of catholyte chambers, each of said chambers being separate from the cell and having side walls and end walls, said chambers being arranged side by side and in spaced relation to each other with the side walls thereof extending transverse to the side walls of the cell, at least one end wall of each chamber being in spaced relation to the adjacent side wall of the cell, the walls of the chamber and the walls of the cell defining an anolyte chamber to contain anolyte liquid; a trough secured to the interior of said side wall of the cell adjacent the top of said wall; means separate from said trough to deliver catholyte liquid from each of



said catholyte chambers into said trough; means to maintain the level of anolyte liquid in the cell at a level in relation to said trough to prevent ingress of anolyte liquid into said trough, and means to remove catholyte liquid from said trough.

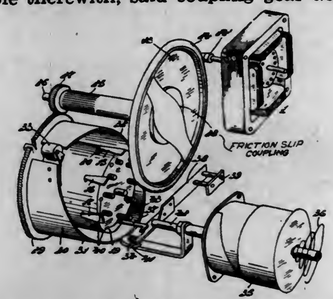
2,320,807
SHAVER HEAD GUARD
Harry E. Upham, Bridgeport, Conn., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application November 6, 1942, Serial No. 464,767
7 Claims. (Cl. 30—90)



2. A guard for shaver heads, wherein a shaver has a casing provided with driving means for operating a shaver head mounted on one end thereof with a shaving section projecting outwardly beyond the end of said casing, comprising a head protecting section engaging over said shaving section, opposite side sections extending in the same direction from said head protecting section; and complementary parts on said casing and side sections for detachably securing said guard on said casing in head protecting position.

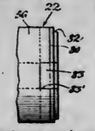
2,320,808
WIRELESS RECEIVING SET
Johannes Antonius van Lammeren and Johan Willem Alexander, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y.
Application June 22, 1940, Serial No. 341,826
In the Netherlands June 5, 1939
10 Claims. (Cl. 250—40)

1. In radio receiving apparatus or the like of the type having a variable controlling instrumentality provided with an axially adjustable element which is movable between two extreme positions, a spring device for yieldingly forcing the adjustable element toward one of said extreme positions, a cam and cam follower device, an electric motor for operating said cam, means for connecting the cam follower to said adjustable element, said cam being so shaped that in the operation thereof to a predetermined position, the adjustable element is moved to its other extreme position against the force of the spring device, an adjustable carrier having mounted thereon a plurality of stop members representing desired intermediate positions of said adjustable element, each of said stop members being adapted to be positioned in the path of said adjustable element by selective operation of said carrier, a coupling gear mounted on said cam and movable therewith, said coupling gear acting to



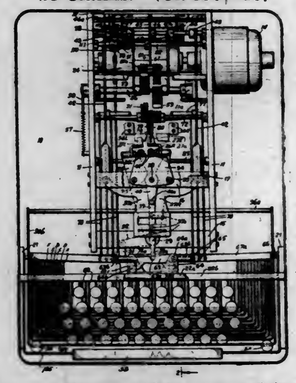
couple the motor to said carrier so as to operate the carrier upon adjustment of said cam to said predetermined position, a plurality of selectively operable means one for each of said stop members, each of said selectively operable means acting upon operation to control the operation of the motor and thereby effect the movement of said cam to said predetermined position thereby coupling the motor to said carrier and effecting the movement of said carrier to a position wherein the stop corresponding to the operated selectively operable means is placed in the path of said adjustable element.

2,320,809
CONTROL APPARATUS
Rosser L. Wilson, Mahwah, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a corporation of Delaware
Application January 9, 1942, Serial No. 426,118
29 Claims. (Cl. 303—21)



1. In railway equipment and the like having control operation effecting means effective when operated to counteract wheel sliding tendencies in said equipment and which equipment embodies a wheel and axle assembly with a journal box supported about a projecting end of the axle, the combination of detecting means for initiating operation of said control operation effecting means and including a cover for said journal box adapted to be secured on said journal box in opposed relation to said end of said axle, means providing a pair of spaced bearings in said cover in alignment with the axle, a shaft journaled in said bearings and having one end projecting toward said end of said axle, means affording a separable driving connection between adjacent ends of said shaft and said axle and adapted for interengagement when said shaft is moved endwise toward said axle in the mounting of said cover on said journal box, and electrical means mounted at least in part on said shaft between said bearings for operation by said shaft and having circuit means associated therewith for governing operation of said control operation effecting means.

2,320,810
TYPEWRITING MACHINE
Fred M. Carroll, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 18, 1941, Serial No. 411,306
23 Claims. (Cl. 197—16)



1. A typewriting machine comprising a plurality of type wheels, each type wheel having a plurality of annular rows of type; means to mount both of said type wheels for selective axial movement and selective rotary movement to select a character to be printed, means to selectively rotate said type wheels and to move them axially, and means to move a selected one of said type wheels into cooperation with the selective rotation and moving means.

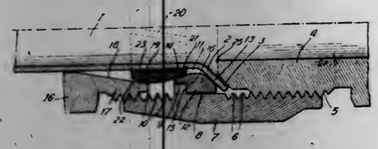
2,320,811
PROTECTIVE DEVICE
Leonard W. Cook, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application July 3, 1942, Serial No. 449,655
7 Claims. (Cl. 200—138)



1. A thermostat comprising a main bimetallic strip, a contact arm, means for supporting said strip and said arm in spaced relation, an auxiliary bimetallic strip having one end secured to said arm and having mounted on its opposite end an electrical contact, a cooperating electrical contact mounted on said main bimetallic strip, said main and auxiliary strips being arranged to deflect in the same direction when heated, a current conducting projection extending from said contact arm beneath the free end of said auxiliary strip and acting to stress said auxiliary strip so that it does not deflect at a temperature below a predetermined value at which said main strip deflects to open said contacts, said projection acting also normally to shunt current flowing through said contacts around said auxiliary strip, said auxiliary strip acting to deflect away from said projection and force said contacts together when heated above said predetermined tempera-

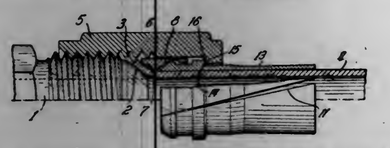
ture value by arcing between said contacts so that said current then flows through and heats said auxiliary strip whereby said contacts are maintained in engagement.

2,320,812
CONDUIT AND COUPLING THEREFOR
Irving Cowles, Detroit, Mich., assignor to himself and Rudolph W. Lotz, Chicago, Ill., as successor cotrustees of Utility Patents Trust
Application July 22, 1940, Serial No. 346,711
9 Claims. (Cl. 285—86)



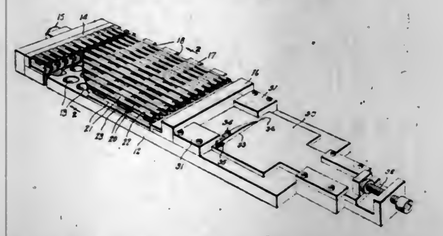
1. In a tube coupling, a male member equipped with a seat for the flared end of a tube, a female member having threaded engagement with the male member and adapted to embrace a portion of the tube, a radially contractible longitudinally non-collapsible collar slidably mounted upon the tube and gapped longitudinally to a predetermined degree for limiting contraction thereof to an inner diameter only slightly less than that of said tube for limiting the contraction of the tube by said collar, and a device associated with said collar and said female member and rotatable with respect to the latter and said collar for effecting progressive contraction of said collar and simultaneously therewith disposing the same in a predetermined position longitudinally of the tube when said collar has attained the limit of its contraction, the bore of said collar being flared along its outer end portions, said female member being free from engagement with the tube flange.

2,320,813
COUPLING FOR FLANGED METAL TUBING
Irving Cowles, Detroit, Mich., assignor to Irving Cowles and Rudolph W. Lotz, Chicago, Ill., successor cotrustees to Union Bank of Chicago, Illinois, a corporation of Illinois
Application November 17, 1941, Serial No. 419,423
28 Claims. (Cl. 285—86)



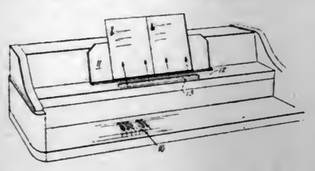
1. A coupling of the type specified comprising a threaded male member equipped with a seat for the flange of a tube, a sleeve nut engaged at one end with said male member and equipped at its other end with an inwardly extending annular flange, a ring member within the nut engaged with the tube flange at one end and equipped at its other end with a tapered bore portion, a split sleeve having a tapered nose portion engaged in the tapered bore of the ring member and equipped with an annular shoulder engaged with said flange and contractible to engage said tube responsively to pressure exerted thereon by said flange the nose portion of said split sleeve and the taper of the bore portion of said ring member differing to cause the inner extremity of said sleeve to be contracted first and the remainder of said sleeve to be contracted to a progressively less degree than said extremity, said respective tapers being such that their opposed surfaces meet when the said sleeve attains the inner limit of its movement.

2,320,814
WORK SUPPORTING FIXTURE AND METHOD
Roger G. Cudini, Southfield Township, Oakland County, Mich., assignor to Roy D. B. Moynahan, doing business as Moynahan Bronze Co., Detroit, Mich.
Application July 19, 1941, Serial No. 403,194
10 Claims. (Cl. 90—59)



9. The method of clamping connector strips while a plurality of notches are cut in their edges which comprises: interleaving the connector strips with support strips shorter than the connector strips; applying pressure to clamp the interleaved strips laterally; and applying a predetermined amount of endwise pressure to the connector strips to limit their endwise expansion under the heat generated by the cutting operation.

2,320,815
PIANO LAMP
George Cushing, Newark, N. J., assignor of one-third to Gerald C. Johnson, Bronxville, N. Y., and one-third to Thomas G. W. Nevell, Bayside, Long Island, N. Y.
Application June 19, 1941, Serial No. 398,753
6 Claims. (Cl. 240—4)



5. A luminaire for lighting a flat, substantially vertical surface of substantial length and width, the luminaire having a flat substantially horizontal face disposed rearwardly of and adjacent the said surface, the face of the luminaire being of the length of the surface to be illuminated and of a substantial width, the luminaire having a light source extending parallel to the face of the luminaire, and light controlling means in the flat face which transmits light obliquely toward the surface to be illuminated so that the latter surface intercepts said light, and which completely cuts off all direct light in a direction in front of the vertical plane through the source so that no light from the luminaire is received in the eye of the observer on said front side and the luminaire appears nonluminous.

2,320,816
AMINOPLAST CONTAINING A HALOGENATED NITRILE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 9, 1939, Serial No. 289,274
18 Claims. (Cl. 260—70)

13. A composition of matter comprising a soluble, fusible aminoplast intercondensed with a halogenated nitrile selected from the class consisting of alpha halogenated nitriles, beta halogenated nitriles, gamma halogenated nitriles, alpha beta halogenated nitriles, alpha gamma halogenated nitriles, beta gamma halogenated nitriles and alpha beta gamma halogenated nitriles.

2,320,817
POLYSALICYLIDE-MODIFIED AMINOPLAST
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application October 26, 1940, Serial No. 363,036
17 Claims. (Cl. 260—70)

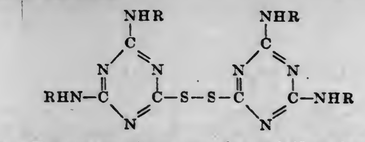
1. A composition of matter comprising a reaction product of ingredients comprising an amidogen compound and an aldehyde, said reaction product being modified with a polysalicylide.

2,320,818
CONDENSATION PRODUCTS OF AMINOTRIAZINES, ALDEHYDES, AND HALOGENATED ALIPHATIC NITRILES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application December 24, 1940, Serial No. 371,583
19 Claims. (Cl. 260—72)

1. A composition of matter comprising the condensation product of ingredients comprising essentially an aminotriazine, an aldehyde and at least one halogenated nitrile selected from the class consisting of alpha halogenated nitriles, beta halogenated nitriles, gamma halogenated nitriles, alpha beta halogenated nitriles, alpha gamma halogenated nitriles, beta gamma halogenated nitriles and alpha beta gamma halogenated nitriles, the said nitriles being members of the halogenated aliphatic series.

2,320,819
REACTION PRODUCTS OF ALDEHYDES AND BIS-DIAMINO TRIAZINYL DISULPHIDES
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application January 20, 1942, Serial No. 427,526
19 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula

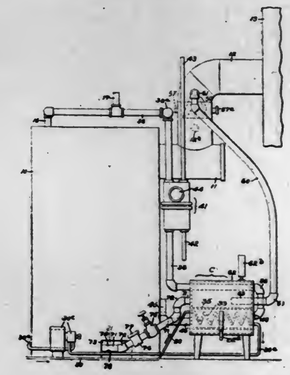


where R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,320,820
CONDENSATION PRODUCTS OF AN AMINOTRIAZOLE, AN ALDEHYDE, AND A HALOGENATED NITRILE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 19, 1942, Serial No. 435,344
20 Claims. (Cl. 260—42)

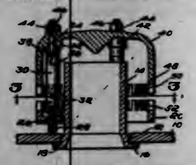
1. A composition of matter comprising the condensation product of ingredients comprising an aminotriazole, an aldehyde and a halogenated nitrile selected from the class consisting of alpha halogenated nitriles, beta halogenated nitriles, gamma halogenated nitriles, alpha beta halogenated nitriles, alpha gamma halogenated nitriles, beta gamma halogenated nitriles and alpha beta gamma halogenated nitriles, the said nitriles being members of the halogenated aliphatic series.

2,320,821
ECONOMIZING FLUID FUEL COMBUSTION SYSTEM AND METHOD
Ramón Castro Jiménez, Winthrop, Mass.
Application July 17, 1940, Serial No. 345,966
11 Claims. (Cl. 158—36)



1. An economizing fluid-fuel heating system comprising, in combination with a fluid-fuel burner having an air-impelling device, a boiler and communicating stack for gases of combustion, and a fluid-medium radiation equipment: a conditioning unit including an inner compartment and a surrounding outer chamber; a tubing coil in said inner compartment in communication with a fluid-fuel supply and with a conduit adapted to deliver the fuel to the burner; piping connections between said inner compartment and the boiler for conducting heated fluid-medium from and returning it to the boiler; means in the stack for trapping a quantity of the gaseous combustion product of the burner; a conduit leading from said means and discharging into the outer chamber of said chest; and a further conduit communicating at one end with said outer chamber and at its other end having a discharge outlet adjacent and subject to the impelling device of the burner; said outer chamber adapted to store a quantity of moisture including condensate from the incoming trapped gases and to receive and condition the latter as to their heat and moisture content while affording mutual heat exchange between them and the fluid-medium and the fuel coil in the inner compartment.

2,320,822
BUBBLE CAP
Frank J. Kerrigan, Winchester, Mass.
Application July 11, 1942, Serial No. 450,579
6 Claims. (Cl. 261—114)



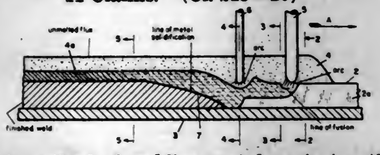
1. A bubble cap assembly adapted to cover an opening in a bubble plate comprising a riser fitted in the opening of the plate, said riser having a sealing flange to engage the underside of the plate, a plurality of rotatable posts positioned around the riser and bearing on the top surface of the plate, means in threaded engagement with said posts and engageable with the outer side of said riser below the top thereof to fix the riser in seated position and tighten the seal between the flange and the underside of the plate and a bubble cap removably carried by the upper ends of said posts.

2,320,823
FOUNTAIN MARKING DEVICE
Justin I. Kingson, Mount Vernon, N. Y., assignor to The Mono-Script Co., Inc., a corporation of New York
Application March 25, 1942, Serial No. 436,074
8 Claims. (Cl. 120—43)



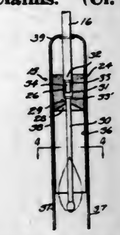
1. A fountain marking device for volatile solvent dye-ink, comprising a solvent-tight dye-ink reservoir, a tip member adapted for solvent-tight removable engagement with said reservoir, said tip member having a first central longitudinal bore of substantial diameter adapted to receive and frictionally retain a marking nib, an absorbent fibrous marking nib having a diameter substantially the same as said first bore reciprocably mounted therein, said tip member having a second central longitudinal bore of substantially smaller diameter than said first bore extending from the inner end thereof to said first bore to provide a connection permitting the flow of dye-ink from the reservoir to the fibrous marking nib, a valve at the inner end of the tip member for controlling the flow of dye-ink to said marking nib, a spring in the inner end of said first central longitudinal bore normally urging said valve to closed position and the marking nib to marking position with the outer end protruding from the outer end of said tip, said valve being displaceable to open position by pressure exerted longitudinally on the protruding end of the marking nib to permit a supply of dye-ink to flow from the reservoir into said first central longitudinal bore and to said marking nib.

2,320,824
ELECTRIC WELDING
George G. Landis and L. Keever Stringham, University Heights, Ohio, assignors to The Lincoln Electric Company, Cleveland, Ohio, a corporation of Ohio
Application June 27, 1941, Serial No. 399,984
11 Claims. (Cl. 219—10)



1. A method of welding metal parts together, which comprises melting down juxtaposed edges thereof under a deep layer of flux, whereby such parts are preliminarily joined and a portion of such flux layer rendered molten, and then subjecting the metal of the resultant juncture to further fusion without removal of such previously melted flux.

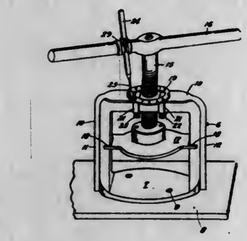
2,320,825
LIGHTER ROD
Harry C. Little, San Rafael, Calif.
Application May 17, 1941, Serial No. 393,870
2 Claims. (Cl. 67—6)



1. In a lighter for a floor furnace oil-burner or the like, a match holder member comprising an elongated body with a bore extending therethrough from one end to the other and having one end portion formed to receive a match and hold same in longitudinal alignment with the bore axis, a tubular perforated member extending outwardly and longitudinally from the match receiving end of the body to provide an enclosure for the match when operatively held in the bore, means adjacent the inner end of the said tubular member for guiding the match into said bore portion aforesaid, an extension on said tubular member arranged to project beyond the match when operatively held in the body, a rod slidable longitudinally in said bore at the other end portion thereof and having a plunger movable into and out of the match engaging portion of the bore upon the reciprocation of the rod relative to the body member so as to eject the match or leave the bore free for reinsertion of a match, and means to limit the reciprocative movement of the body and rod in opposite directions.

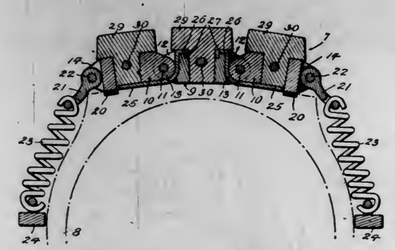
2,320,826
METHOD AND MEANS FOR MAKING DENTAL PLATES
Fritz W. Mandel, Cincinnati, Ohio, assignor of one-half to Frank Schaefer, Cincinnati, Ohio
Application July 11, 1942, Serial No. 450,603
6 Claims. (Cl. 18—33)

1. The herein described method of making a dental appliance which consists in placing a trial plate in a separable two-part flask filled with impressionable material, initially subjecting the flask to a pressing operation until the material has hardened, obtaining a base number indicative of the position of the press parts in the initial pressing operation, removing the trial plate material from the flask, inserting moldable denture material in the impression made by the trial plate material, again subjecting the flask to a second pressing operation by exerting a predetermined



pressure thereon, obtaining a reference number indicative of the position of the press parts, comparing the reference number to the base number to determine the exact amount of denture material added to the impression in the flask, subjecting the flask to a number of pressing operations and changing the mass of moldable denture material in said flask after each pressing operation until the reference number for a pressing operation coincides with the base number under said predetermined pressure, and then subjecting the flask to a curing operation.

2,320,827
TIRE ARMOR
Frank Moore, Los Angeles, Calif.
Application October 2, 1942, Serial No. 460,557
4 Claims. (Cl. 152—184)



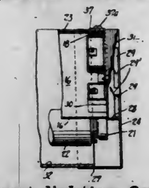
1. A tire armor comprising a central tread member to lie against the central portion of a tire tread, two lateral tread members to lie against the marginal portions of the tire tread, hinges connecting said lateral tread members with said central tread member, the axes of said hinges being disposed circumferentially of the tire, spring means associated with said hinges and exerting outward force on said lateral tread members tending to swing them outwardly from the tire tread, and securing means connected to the outer ends of said lateral tread members and exerting an inward pull thereon overcoming said tendency of said spring means to swing said lateral tread members outwardly from the tire tread, whereby all of said tread members are held solidly against the tire tread.

2,320,828
ANIMAL FEEDING APPARATUS
Charles P. Murphy, Cleveland, Ohio
Application August 29, 1940, Serial No. 354,732
4 Claims. (Cl. 211—88)



3. A supporting member for animal feeding receptacles comprising an elongated section of wire bent to form downwardly projecting members at spaced positions on each side of its center to provide openings for fastening elements to be engaged therewith, and having a short spacing section formed at the central portion of said length of wire and circular portions formed at each end thereof of a size to receive animal feeding receptacles, such circular openings being fixed in size through the engagement of said wire lengths around said spacing portion, such lengths continuing at an angle downwardly and then vertically downwardly and forming an opening to receive a separate fastening element.

2,320,829
LIGHTING FIXTURE
Shirley R. Naysmith, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application April 18, 1941, Serial No. 389,144
4 Claims. (Cl. 240—78)

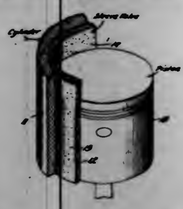


1. A fluorescent lighting fixture comprising a semi-cylindrical body having a reflecting exterior, end plates carried by the body and extending laterally of and below the body, fluorescent lamps supported outside the body, the end plates having inwardly extending semi-cylindrical flanges beyond the lamps for reflecting light generally toward the axis of the body and away from the lamps, inwardly extending semi-cylindrical elements having windows to transmit the reflected light and outwardly inclined surfaces above the said elements to intercept the light transmitted through the windows and be rendered luminous thereby.

2,320,830
CYLINDRICAL SURFACE OF INTERNAL COMBUSTION ENGINES
Harry Ralph Ricardo, London, and John Forster Alcock, North Lancing, England; said Alcock assignor to said Ricardo
Application October 14, 1940, Serial No. 361,186
In Great Britain October 26, 1939
1 Claim. (Cl. 309—2)

In an internal combustion engine, the combination with a cylinder made of a light alloy, of a sleeve valve made of a copper base alloy having a coefficient of expansion of at least 16×10^{-6} per degree centigrade and a thermal conductivity which exceeds that of high carbon steel, the coefficient of expansion of the sleeve being slightly lower than that of the light alloy of which the cylinder is made and the strength

and elasticity modulus of the sleeve being higher than those of said light alloy, said sleeve valve having a sliding fit with said cylinder and having its inner surface spray-coated with a layer



of a metal which is substantially harder than the base metal of which the sleeve valve is formed, this metal when sprayed on having a degree of porosity which causes the coated surface to act as an oil carrier as set forth.

2,320,831

DOUGHNUT SUGAR

John W. Schlegel and Louis Lang, New York, N. Y., assignors to The National Sugar Refining Company, Edgewater, N. J., a corporation of New Jersey

No Drawing. Application June 4, 1940, Serial No. 338,758

7 Claims. (Cl. 99—92)

1. Food-dusting sugar, having wax incorporated therein to the extent of about 0.4% of the weight of the sugar.

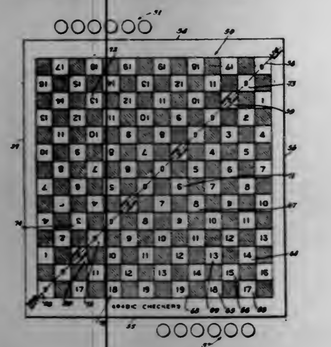
2,320,832

EDUCATIONAL GAME

Mark J. Schoenberg and Harry I. Maximon, New York, N. Y.; said Schoenberg assignor to said Maximon

Original application December 29, 1938, Serial No. 248,222. Divided and this application June 14, 1941, Serial No. 398,026

2 Claims. (Cl. 273—130)



1. A rectangular gameboard having squares; a home line on said board drawn diagonally thereon and intersecting opposite corners thereof dividing said board into two right triangles; numerical indicia in alternate squares; the values of said numerical indicia being greatest at opposite ends of said board and decreasing progressively toward said home line; the two triangles on either side of the home line being harmonious in their arrangement; the squares intersected by said home line having no numerical value.

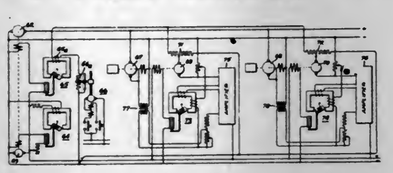
2,320,833

CONTROL SYSTEM

David R. Shoults and Frederick E. Crever, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application March 29, 1941, Serial No. 385,902

2 Claims. (Cl. 172—293)



1. A control system for a sectionalized machine having a plurality of elements operating successively on a length of material subject to stretch or shrinkage between said elements comprising an individual electric motor for driving each of said elements, an adjustable voltage generator for supplying said motors, said generator being provided with a field winding, an exciter for exciting said field winding, a regulator for maintaining the voltage of said exciter substantially constant, a second regulator responsive to the voltage of said generator for maintaining the voltage of said generator substantially constant, a speed regulator for each of said motors comprising a tachometer generator driven by each of said motors and means responsive to the difference between a portion of said generator voltage and the voltage of said tachometer for controlling the associated motor to reduce said differential voltage to a predetermined low value, and means for varying said portion of said generator voltage for certain of said speed regulators thereby to cause said motors to operate in predetermined speed relationship with each other.

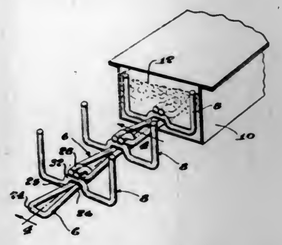
2,320,834

CONVEYER

Arthur C. Schroeder, Syracuse, N. Y., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts

Application February 13, 1941, Serial No. 378,734

13 Claims. (Cl. 198—176)



1. A conveyer flight adapted for connection to other flights to form a conveying element, comprising two separate metal members each formed of a length of bar stock, one member comprising a tension member bent to provide connecting means at each of its ends, one of said connecting means being in the form of a hook, and the second member comprising a flight member of open shape having a base portion and spaced upright portions, said flight member being disposed transversely of the tension member with the base portion thereof welded to the end of said hook to form a unitary structure.

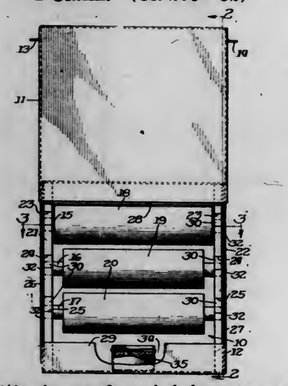
2,320,835

HECTOGRAPH BLANKET CONDITIONING CONTAINER

Joseph H. Tathwell, Charlotte, N. C., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application May 19, 1941, Serial No. 394,236

1 Claim. (Cl. 206—52)



A conditioning and containing means for hectograph rolls comprising a pair of spaced standards, having vertically spaced mounting sockets, comprising slanting notches extending downwardly from one side edge of each standard, spindles for said rolls having their ends mounted in said sockets, removable means for holding the spindle ends in the sockets, said standards being wider than the diameter of the rolls, and said sockets being positioned substantially midway between the side edges of the standards and spaced apart a distance greater than the diameter of said rolls whereby to hold the rolls apart, and enclosing means for said standards and rolls comprising an inner shell open at one side to permit access to said rolls and so as to permit any one or more of the rolls to be removed from the shell through the opening while the standards are resting on the bottom face of the shell and fitting against said standards at the outer surfaces thereof, and an outer shell adapted by telescopic engagement with said inner shell from above to close the open side thereof.

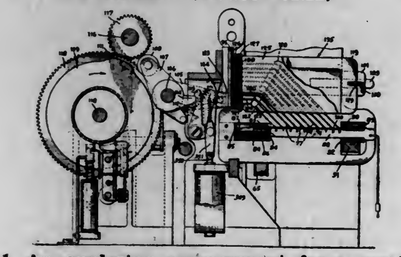
2,320,836

SENSING MECHANISM

Gustav Tauschek, Vienna, Germany, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Original application June 24, 1936, Serial No. 86,920. Divided and this application November 13, 1940, Serial No. 365,531

3 Claims. (Cl. 235—61.11)



1. An analyzing arrangement for a machine controlled by a perforated record provided with a plurality of columns of index points comprising, a plurality of insulated digit impulse transmitting bars, one for each index point position, and wherein at each card column each bar is provided with an aperture to thereby provide by all of said bars at each record column position a series of aligned apertures, a brush support plate of insulating material provided with analyzing brushes projecting exteriorly of one edge of the support plate for analyzing the series of index points of the record column correlated with the brushes, and means for attaching the support plate to the series of impulse transmitting bars at the column position desired comprising contact pins integrally connected to each of the brushes and projecting exteriorly from another edge of the support plate, whereby the insertion of such contact pins in the series of apertures of the bars at the column to be analyzed electrically connects the brushes to the respective impulse transmitting bars and simultaneously disposes each analyzing brush over the related index point position to be analyzed.

2,320,837

COMBINATION RHEOSTAT AND SWITCH

Basil S. Turner and Mervin B. Arisman, Elkhart, Ind., assignors to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana

Application January 31, 1941, Serial No. 376,830

13 Claims. (Cl. 201—55)



1. In a combined volume control and power switch for radio-phonograph combinations: a rheostat mechanism including a resistance element section for radio volume control; a resistance element section for phonograph volume control, and contactor means selectively movable across said resistance element sections from a neutral position with respect to said sections; a single actuator for the volume control and power switch movable in one direction from a "switch-off" neutral position for effecting traversal of the contactor means across one resistance element section and movable in the opposite direction from said "switch-off" neutral position for effecting traversal of the contactor means across the other resistance element section; a snap switch for controlling the power supply of the radio and phonograph; pivoted toggle mechanism for snapping the switch to its closed and open positions; and toggle tripping means drivingly connected with the actuator and operable to trip the toggle mechanism to close the switch during initial movement of the actuator in either direction from its "switch-off" neutral position so that closure of the power switch precedes traversal of the contactor means across either resistance element section.

2,320,838

TELEPHONE INSTRUMENT

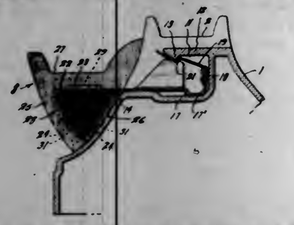
Joseph C. Watson, Washington, D. C.

Application March 14, 1941, Serial No. 383,413

10 Claims. (Cl. 179—146)

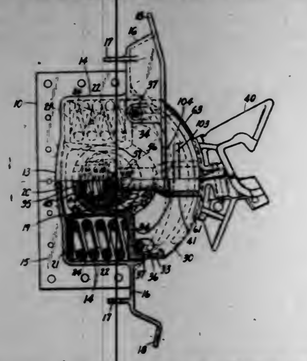
1. A telephone instrument comprising a stand, a hand set, a recess in the stand, and a holder

adapted to receive the hand set without breaking the telephone circuit, said holder adapted to be



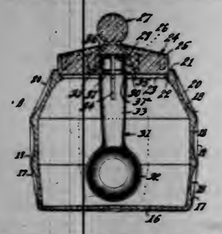
supported by the stand and having a portion detachably mounted within the recess of the stand.

2,320,839
DRAFT AND BUFFING GEAR
Russell J. Wittmer, Cleveland Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application March 15, 1941, Serial No. 383,585
26 Claims. (Cl. 213—12)



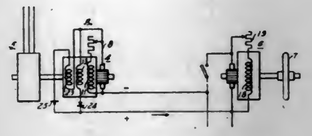
1. In a car structure a draft rigging comprising relatively movable draft and buffing members, spring means normally urging said members away from each other, said buffing member having a curved forward portion, a coupler having a shank pivotally secured to said members and movable rearwardly relative to said buffing member, and means on said coupler normally spaced from said buffing member adapted to engage said curved forward portion to resist pivotal movement of said coupler when in buff.

2,320,840
CONTAINER
Roland B. Worthington, Kansas City, Mo.
Application March 3, 1941, Serial No. 381,453
10 Claims. (Cl. 65—45)



8. A cover for containers including a cover member, a serving member having a split end, one member having a socket with a restricted portion and the other member having a portion provided with a reduced portion adapted to enter the socket beyond the restricted portion to retain the parts in connection.

2,320,841
POLARIZED-FIELD GENERATOR
George L. Abell, Pitcairn, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 26, 1940, Serial No. 362,914
5 Claims. (Cl. 172—239)

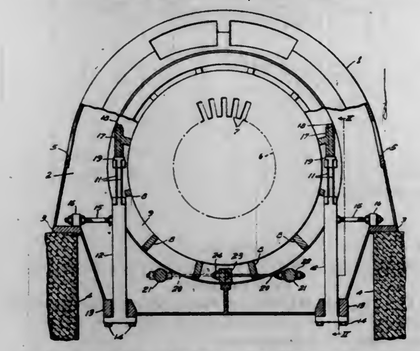


1. A combination including a compound direct-current self-excited generator and a load-circuit device connected to said generator, means for electrically connecting the load-circuit device for operation from said generator, means for driving said generator at a substantially constant speed at all times when said generator is in operative condition, said load-circuit device including a shunt motor and a driven load having sufficient inertia to drive the motor as a generator when the generator-voltage is suddenly reduced, said compound direct-current self-excited generator comprising an armature-circuit, shunt exciting field-winding means, series exciting field-winding means, circuit-means for energizing said shunt exciting field-winding means in shunt-circuit relation from said armature-circuit, field-rheostat voltage-regulating-means for varying the amount of shunt-excitation of the generator, circuit-means for energizing said series exciting field-winding means in series-circuit relation from said armature-circuit, rectifier-means, and means for connecting said rectifier-means to said series exciting field-winding means for affecting the conditions of current-flow therethrough when the armature-current reverses, whereby the series exciting field-winding means is prevented from leaving the generator with reversed residual magnetism after a period of reversed current-flow from the load-circuit device.

2,320,842
PAINT INSPECTION
Charles F. Arnold and Laurence L. Kortkamp, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application June 29, 1942, Serial No. 449,012
5 Claims. (Cl. 117—66)

4. The method of painting or lacquering and determining the presence or lack of thin spots therein which includes applying an undercoat containing a fluorescent material, applying one or more layers of paint or lacquer to the undercoat, subjecting the paint or lacquer coating to conventional sanding or smoothing operations, and inspecting the coating under ultra-violet light whereby any thin spots in the paint or lacquer are readily visible due to the excitation of the fluorescent material in the undercoating.

2,320,843
CONSTRUCTION FOR DYNAMOELECTRIC MACHINES
René Baudry, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 18, 1939, Serial No. 268,504
11 Claims. (Cl. 171—252)



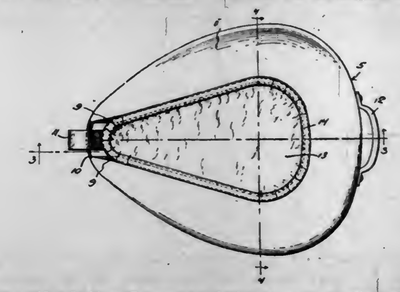
3. A dynamo-electric machine comprising a stator-member and a rotor-member, said stator-member comprising core-laminations having a plurality of core-supporting bars extending longitudinally along the periphery of said laminations and secured thereto so as to provide a mechanically rigid unit, the construction and arrangement of the machine being of such nature that the stator-core is subject to objectionable distortions due to the rotating magnetic field during the operation of the machine, said stator-core being slotted and having a stator-winding in the slots, a stator frame-member surrounding said unit, and radially yieldable supporting-means for so supporting the longitudinal peripheral bars of said unit from said stator frame-member that radial distortions of the periphery of said unit are resiliently cushioned from said stator frame-member at the yieldable supporting-points, and so that said unit is relatively rigidly supported against displacement, as a whole, relative to said stator frame-member.

2,320,844
PREPARATION OF ORGANIC ACID ESTERS
Howard C. Black, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 10, 1941, Serial No. 418,554
14 Claims. (Cl. 260—410.7)

1. The process which comprises esterifying an alcohol with a long chain carboxylic acid compound of the class consisting of carboxylic acids, carboxylic acid esters, carboxylic acid anhydrides, and carboxylic acid halides in the presence of activated carbon and at an elevated temperature.

2,320,845
BEDPAN
Marion A. Bolton, Hancock, Mich.
Application March 28, 1942, Serial No. 436,667
1 Claim. (Cl. 4—112)

A bed pan comprising a substantially oblong outer pan member having an inwardly turned flange at its top provided with a downwardly offset inner edge portion, an inner pan member having an outturned flange at the top thereof adapted to rest upon the downwardly offset edge portion of the flange of the outer pan member so as to be sustained by the latter, and a waterproof lining for the inner pan member having an outwardly turned upper edge portion terminating in a downwardly and inwardly turned portion arranged to extend over and under the flange of the inner pan member and to be clamped be-



tween the latter flange and the downwardly offset edge portion of the flange of the outer pan member so as to be sustained in an orderly open condition when the bed pan is in use, said outer pan member having a slot at the upper front portion thereof and through the top flange thereof, and a handle on the front of the inner pan member extending outwardly through said slot.

2,320,846
TERPENE CONDENSATION PRODUCT
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 1, 1940, Serial No. 332,685
20 Claims. (Cl. 260—612)

1. A condensate of a terpene compound and an ether selected from the group consisting of diaryl and alkyl-aryl ethers.

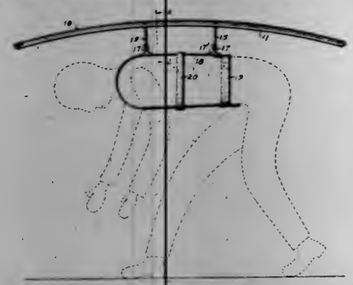
2,320,847
Δ^5-CHOLESTENONE-3 AND A METHOD FOR PRODUCING THE SAME
Adolf Butenandt, Berlin-Dahlem, Germany, assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Original application March 25, 1937, Serial No. 132,954, now Patent No. 2,224,856, dated December 17, 1940. Divided and this application December 14, 1940, Serial No. 370,134. In Germany March 31, 1936
2 Claims. (Cl. 260—397.2)

2. Δ^5-cholestenone-(3).

2,320,848
FIELD UMBRELLA
Hollie Lee Byars, Parrish, Ala.
Application September 29, 1941, Serial No. 412,780
2 Claims. (Cl. 224—5.1)

1. A field umbrella comprising a grid-like frame having a central longitudinal member, a pair of other longitudinal members coplanar with and in equally-spaced relation on opposite sides of said central member, a pair of spaced, parallel, transverse members fixed to and in perpendicular relation with central portions of said longitudinal members, a cover on said frame to form a canopy adapted to shield and protect the head and back of a wearer when in stooped position, a strut fixedly projecting on the uncovered side of said

frame from each junction of said transverse members with said longitudinal members in substantially perpendicular relation with the plane of said frame, a bar rigidly interconnecting the free ends of the struts in each group aligned

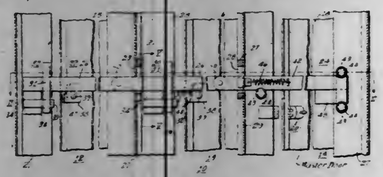


transversely of the frame, attaching brackets fixed to said bars between said struts, and a mounting harness including a pair of back straps each engaged at longitudinally-spaced points by corresponding brackets associated with the separate groups of struts.

2,320,849
INTERLOCK SYSTEM

Glen L. Claybourn, Wilkinsburg, and Lloyd E. Keck, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 26, 1941, Serial No. 380,648
11 Claims. (Cl. 70—265)



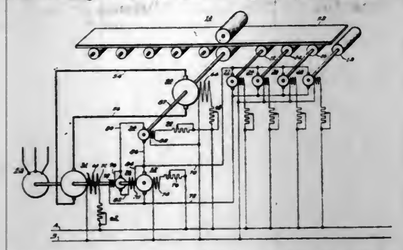
1. A latch mechanism for a sub-door and a master door comprising, a latch member for locking the sub-door in the closed position, connecting means for actuating the latch member, means to bias the connecting means to the open position to free the sub-door when the master door is opened, and operating means to actuate the connecting means in response to closure of the master door and prevent closing of the master door while the sub-door is open.

2,320,850
CONTROL SYSTEM

Willard G. Cook, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original application April 25, 1939, Serial No. 269,907. Divided and this application January 9, 1941, Serial No. 373,855
6 Claims. (Cl. 172—239)

6. In a control system for a pair of motors having individual main generators connected to energize their respective armatures, a booster generator connected in series circuit relation with the field winding of one of the main generators, a pair of field windings for said booster generator connected in opposed relation, means connecting each of said booster field windings to be energized by the output potential of a



separate one of said main generators, and means for simultaneously varying the excitation of the main generators.

2,320,851
PROCESS OF DEPOLYMERIZING OLEFINIC POLYMERS

Paul L. Cramer, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

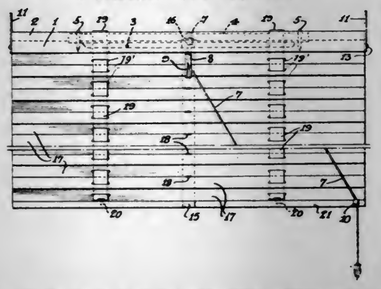
No Drawing. Application October 6, 1941, Serial No. 413,825
8 Claims. (Cl. 260—683)

1. The process of depolymerizing olefinic polymers which includes treating said polymer at elevated temperature in the presence of dehydrated aluminum sulfate.

2,320,852
MODERNISTIC SHADE AND MEANS FOR ADJUSTING SAME

Joseph De Falco, Vineland, N. J.

Application January 19, 1942, Serial No. 427,380
3 Claims. (Cl. 160—84)

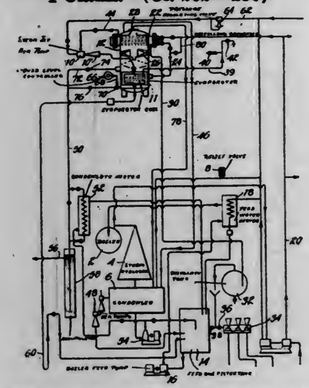


1. A plaited shade of the type described, tapes loosely passing through slots in the plaited shade, the combination of a roller to which the upper ends of the tapes are secured, the tapes being windable on the roller, a saddle piece adapted to be mounted on a window frame and on which said roller is rotatably supported, a pull cord secured to the roller and windable on the roller in a direction reverse to that of the tapes, a bottom piece to which the lower end of the plaited shade is attached and to which the tapes are operatively engaged, whereby a pull on the pull cord will operate the roller and wind the tapes and raise the shade, and a tube extending through and depending from the saddle through which the pull cord passes, said tube having a tapered slot into which the pull cord can be pulled and releasably wedged to hold the shade in any desired adjusted position.

2,320,853
DISTILLATION APPARATUS FOR STEAM PLANTS

Patrick James Delahanty, Cliffside Park, N. J.

Application March 21, 1941, Serial No. 384,491
1 Claim. (Cl. 202—180)

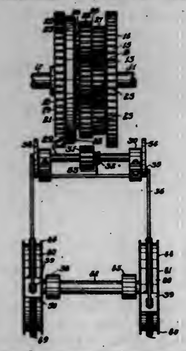


In a steam plant a feed and filter tank, a distilling condenser whose cooling medium is sea water, a barometric evaporator for producing fresh water, the distilling condenser receiving the fresh water vapor emanating from the surface of the feed water within the evaporator shell, means for conducting a cooling medium through the said distilling condenser and thence to the evaporator shell in its entirety whereby all of the latent heat of the fresh water vapor is transferred to the evaporator feed water and finally to the feed and filter tank, a condensate heater, means for conducting the feed water by bravity at a constant rate through said heater, and from thence to overboard, a steam jet pump for maintaining a vacuum in said distiller, and means for heating the evaporator by the discharge from said steam jet pump.

2,320,854
VARIABLE SPEED POWER TRANSMISSION MECHANISM

Kenneth George Dethridge, South Yarra, near Melbourne, Victoria, Australia

Application September 17, 1940, Serial No. 357,168
In Australia October 23, 1939
19 Claims. (Cl. 74—259)

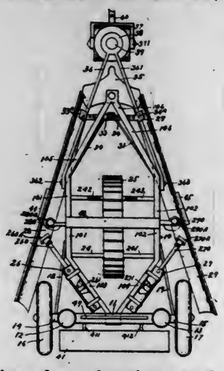


1. An improved power transmission mechanism comprising, a shaft, a fly-wheel on said shaft, a slide movable on the rim of the fly-wheel, springs connected to the slide and to the fly-wheel whereby movement of said slide imparts rotational movement to said fly-wheel, and an epicyclic gear mechanism connected to said slide and adapted to impart vibratory movement to the latter.

2,320,855
DITCH CLEANER

William E. Dukes, near Kingsburg, Calif., assignor to Consolidated Irrigation District, Selma, Calif., a corporation of California

Application March 19, 1940, Serial No. 324,786
7 Claims. (Cl. 37—98)

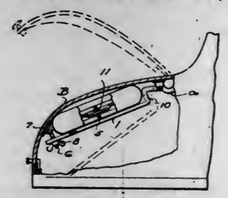


1. A device for cleaning and constructing ditches having a frame, scraper blades pivotally mounted on either side of the frame, means for adjusting the angle of the blades with relation to the frame, means for adjusting the spaced relationship of the two blades, a carriage support for the frame consisting of rear wheels, hydraulic means for adjusting the height of the rear wheels independently of each other at the will of the operator, an auxiliary carriage support for the device consisting of a tracklaying form of carriage attached to, and suspended from the frame, parallel with the center line of the frame, and positioned between the wheels, and a shoe connected with each scraper blade, a hinge connection adapting the shoe to be pressed against the bank of earth, and means operable at will for adjusting the pressure of said shoe against the earth.

2,320,856
TIRE CARRIER FOR THE COVER OF AN AUTOMOBILE LUGGAGE COMPARTMENT

Otto W. Ehlers, Los Angeles, Calif.

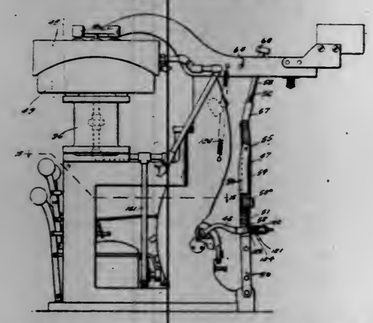
Application July 30, 1940, Serial No. 348,573
1 Claim. (Cl. 224—29)



In an automobile including a rear luggage compartment, and a closure cover for said compartment hinged at its front end for vertical swinging into opening and closing positions and provided with a downwardly curving rear end, a spare tire carrier beneath said cover comprising a support upon which a tire is freely slidable and having a front end hinged to the under face of

said cover adjacent the front end of the latter, and a rear end adapted to be fastened to said cover whereby when said rear end thereof is fastened, said support is swingable with the cover and when said rear end is unfastened and the cover opened said support is swingable downwardly on said cover into said compartment for access thereto, means to secure a tire on top of said support for carrying between the same and said cover, the major portion of said support being downwardly offset from the front end thereof to space the same from said cover when the support is fastened, and means to fasten the rear end of the support to the curved rear end of the cover to space said end of the support from the top of said cover said front end of the support being of angular form and providing a right angled front end abutment for limiting forward sliding of the tire on the support, said support and fastening means being constructed and arranged to clamp the tire against said cover.

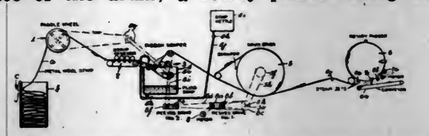
2,320,857
PRESSING MACHINE
John Erick Erickson, Pawtucket, R. I., assignor to Raymond Healey, Cumberland, R. I.
Application February 16, 1939, Serial No. 256,709
4 Claims. (Cl. 38—38)



3. In a pressing machine, a fixed buck, a movable head, toggle mechanism for operating said movable head, a source of power, clutch mechanism for operatively connecting said source of power to said toggle mechanism, said toggle mechanism including means for straightening said toggle and imparting pressure to said movable head after said toggle has caused said movable head to contact said buck, and means for releasing said clutch mechanism to open said toggle after a predetermined period of time.

2,320,858
APPARATUS FOR MAKING METAL WOOL PRODUCTS
Crosby Field, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc., a corporation of New York
Original application June 22, 1939, Serial No. 280,532, now Patent No. 2,240,114, dated April 29, 1941. Divided and this application August 2, 1940, Serial No. 349,731
23 Claims. (Cl. 29—1)

1. A plant for making resilient, soap-containing metal wool pads from a continuously supplied strip of fluffy metal wool, said plant serially including a high-level rotor for lifting and non-positively feeding the strip; resistance and traction means for tensioning and widening the strip to form a ribbon of standard width and thickness; means including rolls for forwarding said ribbon under tension and while under tension, impregnating it with hot fluid soap; rolls for elastically applying predetermined pressure to squeeze out excess soap; means for progressively drying both surfaces of the soaped ribbon to a predetermined degree while maintaining tension thereon; said means including a heated drier drum around which the ribbon is tensioned, the transfer means for guiding the ribbon from and to said drum in a series of convolutions and twisting the ribbon during transfer to apply first one surface, and then the other against the surface of the drum; a rotary padder along the

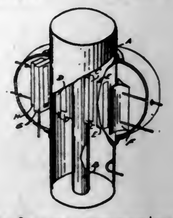


periphery of which the partially dried ribbon is wound; said padder including means for cutting off successive predetermined lengths of the ribbon, means for edgewise engaging each length and winding it to form a roll, and means for compressing the roll diametrically to form a pad, in combination with means for driving the rotary padder at constant speed; adjustable means for rotating the drier drum at the speed required for supplying ribbon at the set speed of the padder; and means for driving the soaper, tensioner and feeding rotor from a driven shaft of the drum through an intervening adjustable speed chamber.

2,320,859
STABILIZATION OF STYRENE
Stanley George Foord, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
No Drawing. Original application December 14, 1942, Serial No. 204,975. Divided and this application November 14, 1940, Serial No. 365,658. In Great Britain April 1, 1938
5 Claims. (Cl. 260—669)

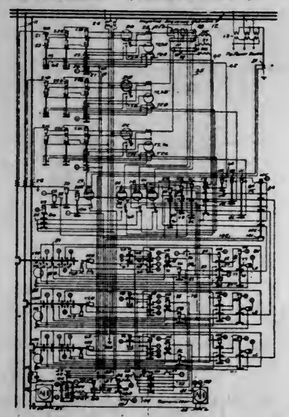
1. A process of inhibiting styrene against polymerisation which comprises adding 1.5 dinitroanthraquinone to the styrene.

2,320,860
ELECTRON DISCHARGE APPARATUS
John Heaver Fremlin, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application November 27, 1940, Serial No. 367,401
In Great Britain December 22, 1939
11 Claims. (Cl. 250—27.5)



1. Electron discharge apparatus comprising a substantially closed hollow resonator including an outer portion and a conductive reentrant portion extending between opposed surfaces of said resonator, said resonator having a set of apertures extending along a line passing through said resonator and through said reentrant portion, and electron gun means external of said resonator and aligned with said set of apertures, whereby electrons entering the resonator are controlled in velocity and in leaving the resonator collectively yield more energy to the resonator than they take from it.

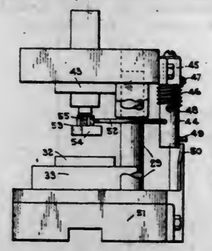
2,320,861
SINGLE-POLE PROTECTIVE RELAYING SYSTEM
Shirley L. Goldsborough, Basking Ridge, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 30, 1941, Serial No. 424,957
30 Claims. (Cl. 175—294)



1. A ground-fault phase-selector apparatus for selectively responding to the particular phase-conductor of a polyphase line which may be subject to a ground-fault condition from less than all of the phase-conductors of the line to ground, said apparatus comprising: means for deriving, from the line, two different relaying quantities of different phase-sequence compositions such that the phase-angle relationships between said two relaying quantities vary in accordance with which phase-conductor of the line is grounded, at least one of said relaying quantities being a polyphase quantity having one phase for each phase-conductor of the line; a plurality of force-producing means, one for each phase-conductor of the line, each force-producing means having two energizing-circuits and producing a force which is responsive to the phase-angle relationship between the currents in its two energizing-circuits; and circuit-means for energizing the two energizing-circuits of each force-producing means from said two relaying quantities, with phases corresponding in such manner that each force-producing means produces a force in opposite directions according to whether its own line-conductor is or is not faulted, under predetermined conditions.

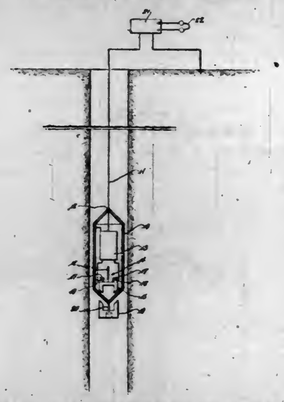
2,320,862
METHOD OF AND MEANS FOR MAKING TUBULAR RIVETS OR SOCKETS
Graham Bradford Goodman, Birmingham, England, assignor to George Goodman Limited, Birmingham, England
Application March 31, 1942, Serial No. 436,950
In Great Britain April 10, 1941
6 Claims. (Cl. 10—11)

5. Means for making tubular rivets or like articles from a solid blank of wire comprising a hollow die for receiving the blank and restraining it against radial expansion and against endwise movement in one direction, an ejector for removing the finished article and serving as the bottom of the die during the manufacturing operation, a punch having a shoulder adapted to meet the upper surface of the die and having



also a tapered portion corresponding with the hole to be formed in the blank, an annular recess in the punch around said tapered portion and of a shape corresponding with the head to be formed on the rivet and into which the metal of the blank is caused to flow in a direction contrary to the movement of the punch when the punch is forced into the blank, and means for lubricating the punch before insertion into the blank.

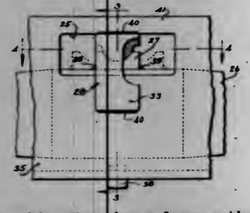
2,320,863
WELL SURVEYING METHOD AND APPARATUS
William G. Green, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application June 21, 1940, Serial No. 341,753
1 Claim. (Cl. 177—311)



A device for cable suspension within a deep well bore for locating the well bottom which comprises, a fluid tight hollow capsule, electrical means within said capsule for transmitting a signal to a point exterior of the well bore, a normally open switch also within the capsule for controlling operation of said electrical means, an armature carried by said switch, said armature being interiorly supported from the capsule in proximity to the bottom wall thereof, magnetic means located wholly exteriorly of said capsule and means for supporting said magnetic means from said capsule for vertical sliding movement therebeneath, whereby when the magnetic means strikes the bottom of the well it is displaced up-

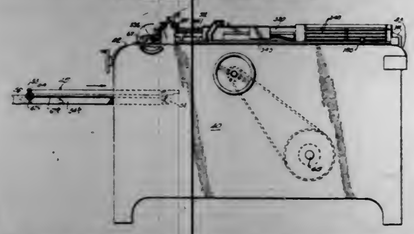
wardly toward the armature to increase the lines of force acting thereon sufficiently to cause the switch to be closed.

2,320,864
EQUALIZING FULCRUM ARRANGEMENT
Edward J. Harley, Philadelphia, Pa.
Application November 30, 1940, Serial No. 367,967
9 Claims. (Cl. 105—82)



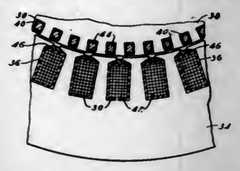
1. The combination in a locomotive comprising a frame having opposed transversely spaced walls that extend longitudinally to form a side member of the frame, said walls being connected by an upper horizontal wall, a spring rigging system including an equalizing beam pivotally connected at its ends to the springs in the system and disposed between said walls, and a fulcrum seat member and a fulcrum pin member, said members being in vertical alignment and having direct pivotal engagement with each other, means whereby one of said members is supported non-rotatably at all times on the top surface of said equalizing beam between said end pivotal connections thereof, and means whereby the other of said members is supported non-rotatably at all times against the under surface of said horizontal wall, said top surface being substantially straight for a sufficient distance beyond the ends of the member seated thereon so that longitudinal slidable adjustments of said latter member may be made to any extent on said top surface necessary to effect a desired fulcrum position.

2,320,865
WRAPPING MACHINE
John A. Heckman, Chicago, Ill., assignor to Miller Wrapping and Sealing Machine Company, Chicago, Ill., a corporation of Illinois
Application November 17, 1941, Serial No. 419,385
14 Claims. (Cl. 93—2)



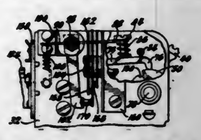
1. In a wrapping machine, the combination of a package feeding carrier adapted to transport packages toward the wrapping position, means adapted to receive packages singly from the carrier and elevate the same by intermediate stages first to an intermediate wrapping position and after a period of rest to an uppermost position for discharge, means for advancing wrapper sections singly and adapted to position each wrapper section in overlying relation to a package when in its lowermost position with the ends and sides of the wrapper section projecting beyond the walls of the package, means coacting with the elevator means for folding down the projecting ends of the wrapper section along the sides of the package as the package is elevated to the intermediate wrapping position, means for performing folding and tucking operations on the projecting portions of each wrapper section, a portion of said means being operable at the intermediate level and the remaining portions being operable at a higher level, and power transmission connections for actuating the operating parts in properly timed relation to one another.

2,320,866
FLEXIBLE INSULATING MATERIAL
Lawrence R. Hill, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 29, 1941, Serial No. 404,473
12 Claims. (Cl. 171—206)



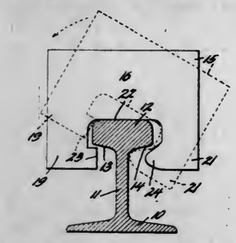
11. In a dynamo-electric machine having a magnetic core provided with slots and a winding in the slots, a flexible, moisture resisting insulating material in the slots intermediate the windings and the core to protect the windings, the insulating material composed of a first ply of fabric woven from glass fibers in contact with the slot walls, the first ply of fabric being impregnated with a resin selected from the group consisting of polyvinyl alcohol and polyvinyl acetate to provide for improved tear resistance, a layer of mica flakes on the first ply of fabric, a second ply of fabric over the mica flakes in contact with the winding and a binder composed of polyisobutylene having an average molecular weight of 3,000 to 20,000 for bonding the plys of glass fabric and the mica flakes.

2,320,867
REMOTE AUTOMATIC RADIO CONTROL
Robert H. Hill, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application June 28, 1938, Serial No 216,301. Divided and this application December 19, 1940, Serial No. 370,849
7 Claims. (Cl. 192—142)



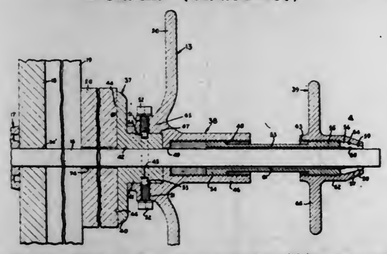
1. In a control device, a shaft to be indexed, means for driving said shaft, control means connected to said shaft comprising a plurality of adjustable cams, followers for said cams, remotely positioned control switching means for the driving means, hold-in means for the latter and switching means operated by the followers for actuating the hold-in means for the remote switches.

2,320,868
RAIL CLAMP
Francis K. Holmested, Charleston, W. Va.
Application January 18, 1943, Serial No. 472,762
8 Claims. (Cl. 104—257)



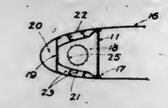
1. A rail clamp comprising a body of substantially flat form in a direction transversely of the rail axis and having a portion adapted to extend above the rail for engagement by a car wheel flange, said body also having a portion adapted to fit over the rail head and providing a pair of lugs, located in the plane of the body and extending below the rail head and each being adapted to engage the under side of the rail head when said body is rocked about its vertical axis in response to engagement of a car wheel flange therewith.

2,320,869
TIE FOR CONCRETE FORMS
William H. Jenkins, El Monte, Calif.
Application January 4, 1941, Serial No. 373,121
1 Claim. (Cl. 254—67)



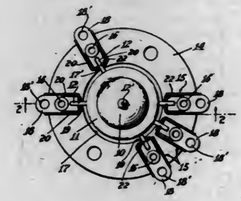
In a tie device for a concrete form, a rod, a tension device on said rod, said tension device including a base portion having an aperture therein, said rod being positioned in said aperture, said base including a hub portion coaxial with said aperture, said tension device further including a compression member, said compression member including a body portion having a recess therein at one end and a reduced threaded recess at the other end and a reduced aperture opening into said recess and said threaded recess, said hub portion of said base being positioned in said recess and said rod being positioned in said aperture and said threaded recess, a shank member, said shank member having an aperture therethrough in which said rod is positioned, said shank including an integral externally threaded head portion and an integral externally threaded tail portion, said head portion being positioned in said threaded recess of said compression member, said shank head including a plurality of integral semi-resilient jaws extending beyond said externally threaded tail portion and surrounding said rod, each of said jaws including an outwardly tapered surface, and a grip member on said shank, said grip member having a threaded aperture therein to receive said threaded tail portion of said shank, said grip member including a projecting end tapered to engage said tapered surfaces of said jaw members, said grip member when rotated in one direction being adapted to force said jaw members into engagement with said rod and when rotated in the opposite direction to allow said jaws to release from said rod.

2,320,870
ANTI-ICING DUCT
Clarence L. Johnson, Burbank, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application September 20, 1940, Serial No. 357,539
6 Claims. (Cl. 244—134)



1. A wing section of the single spar type having a main beam and a detachable nose section removably secured to said main beam, said nose section comprising spaced inner and outer skins having connections to the main beam common to both skins and beam to facilitate the removal of said nose section as a unit, transverse ribs supporting said inner skin, a plurality of longitudinal members supporting said outer skin from said inner skin and said ribs, and means for conducting a heating fluid through the spaces defined by said longitudinal members and said inner and outer skins, whereby to heat the outer skin for anti-icing purposes.

2,320,871
ACORN TUBE SOCKET
Walter S. Keith, Long Island City, N. Y., assignor to The Hammarlund Manufacturing Company, Incorporated, New York, N. Y., a corporation of New York
Application June 13, 1941, Serial No. 397,862
4 Claims. (Cl. 173—328)

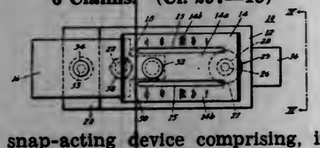


2. A prong receiving contact for use in high frequency circuits, including an elongated body formed in one piece of sheet metal and having two longitudinal slits therein so as to render said body trifurcated into three parallel and adjacent tines joined together at one end of said body, the two outer tines thereof being bent about their respective points of juncture with the central tine, so as to extend in planes lying respectively at right angles to said central tine, and so as to lie substantially parallel to each other, said outer tines also being bent inwardly near the respective free ends thereof so as to form coplanar jaws for making substantially a line contact with a connecting pin inserted between said jaws, whereby said jaws by their opening cause said outer tines to flex about the common point of juncture of the three tines.

2,320,872
CARBURIZER
Paul H. Kramer and Francis J. Steigerwald, Detroit, Mich., assignors to Park Chemical Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application January 30, 1942, Serial No. 428,922
5 Claims. (Cl. 148—19)

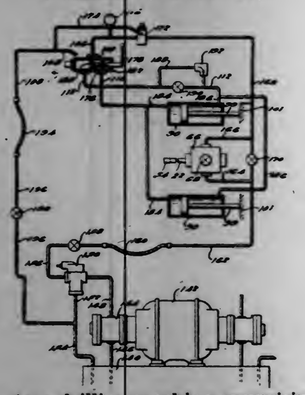
1. A carburizing material characterized by its property of preventing copper migration during selective carburizing, comprising soft coal coke impregnated with between 7% and 25% of a material from the group consisting of calcium carbonate and calcium oxide and combined with a carburizing activator from a group consisting of barium carbonate and barium oxide.

2,320,873
THERMOSTAT
Paul R. Lee, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 17, 1940, Serial No. 353,021
6 Claims. (Cl. 297—15)



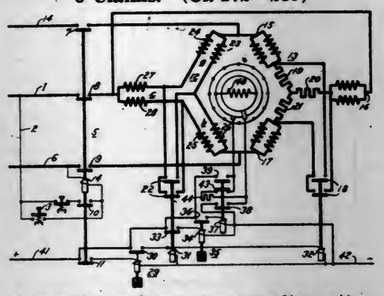
1. A snap-acting device comprising, in combination, a supporting structure, a snap-acting bimetallic element including a central strip and two exterior strips together with end portions joining the respectively adjacent ends of said strip, and a resilient member rigidly attached solely to the central strip as distinguished from said end portions and to the supporting structure for supporting said element outside of its boundaries.

2,320,874
MINING MACHINE
Albert F. Lehmann, Detroit, Mich., assignor to Hydraulic Machinery, Inc., Detroit, Mich., a corporation of Michigan
Application January 18, 1941, Serial No. 374,987
6 Claims. (Cl. 255—45)



1. A rotary drilling machine comprising a drill, a first hydraulically actuated means for rotating said drill, a second hydraulically actuated means for feeding said drill inwardly and outwardly, common means forming an hydraulical circuit for supplying fluid under pressure to both of said first and second means, means interposed in said circuit between said first and second means to regulate the flow of fluid to said second means depending upon the pressure within said second means, a reversing valve to control the flow of fluid to said second means, and restricting means interposed in said circuit for controlling the flow of fluid through said second named means.

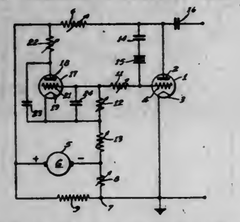
2,320,875
MOTOR STARTING CONTROL
Michael Liwschitz, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 22, 1941, Serial No. 407,942
5 Claims. (Cl. 172—289)



1. A starting scheme for an alternating current motor having two three phase primary windings each arranged for normal Y connection and each leg of each of the two three-phase primary windings having two parallel sections, a three phase source of supply, one of the primary windings having the second section of the first leg connected in series with the first section of the second leg and the second section of the second leg connected in series with first section of the third leg and the second section of the third leg connected in series with the first section of the first leg, the other of the primary windings having the sections of each leg of the Y connection connected in parallel and each parallel connection connected in series to a common neutral junction through three resistors connected in Y connection, said resistors having resistance values such as to make said other primary windings substantially inactive during the initial stages of starting of the motor and at the same time prevent damage to the insulation of these primary windings, switching means for connecting both primary windings to said source of supply, second switching means, operable after the operation of the first named switching means, and including means for connecting the sections of each leg of the said one of said primary windings in parallel and to a common neutral junction and for connecting the parallelly connected sections of each leg of the said other of the primary windings directly to a common neutral junction by shunting said resistor sections.

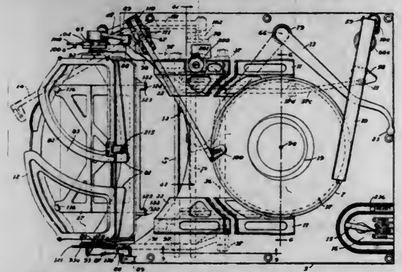
2,320,876
AUTOMATIC AMPLITUDE CONTROL FOR OSCILLATOR CIRCUITS
Forrest Summers Mabry, Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 30, 1941, Serial No. 424,898
4 Claims. (Cl. 250—27)

4. In combination with an electrical discharge tube having a principal electrode circuit and a control electrode circuit, means for supplying exciting current through an electromechanical vibrator to said control electrode circuit, a second electrical discharge tube having principal electrodes and a control electrode circuit, means



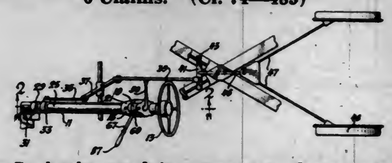
for impressing a voltage varying with said exciting current on the last-mentioned control electrode circuit, and means for impressing a voltage varying with the current between the last-mentioned principal electrodes on the first-mentioned control electrode circuit.

2,320,877
PHONOGRAPH
Ray H. Manson and Albert E. Schell, Rochester, N. Y., assignors to Stromberg-Carlson Telephone Manufacturing Co., Rochester, N. Y., a corporation of New York
Application September 7, 1940, Serial No. 355,850
8 Claims. (Cl. 274—10)



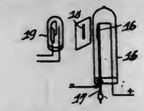
1. In an automatic phonograph, a turntable, a motor for operating the same, circuits for operating said motor, selectively operable switching means for controlling said circuits, a magazine supporting a stack of records and being mounted for rotary and bodily movement adjacent said turntable to cooperate therewith, said magazine including at the bottom thereof a main compartment and at the top thereof an auxiliary compartment, record shifting mechanism for moving records from said magazine to said turntable and vice versa in the intervals between the playing of a series of records on said turntable, means for elevating and lowering said magazine, means for rotating said magazine to reverse the position of the auxiliary compartment and to present one edge of the magazine adjacent said turntable for the reception from said shifting mechanism, of a played record, the records being received in said auxiliary compartment or at the then top of the record stack in said main compartment depending on the elevation of the magazine with respect to the turntable, said means also rotating said magazine to present the other edge thereof adjacent said turntable whereby the now uppermost record of the stack, whether in the main or auxiliary compartment, is in a position to be shifted by said mechanism to said turntable, controlling means for governing the operation of said elevating and lowering means, and a single manually operated device for selectively adjusting said switching means and also for operating said controlling means.

2,320,878
BRAKE
William H. Manning, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 29, 1942, Serial No. 428,753
6 Claims. (Cl. 74—485)



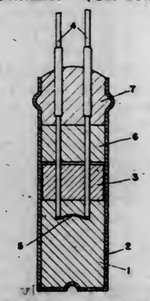
1. In brake applying means a sleeve, mechanism to rotate said sleeve about its axis, first means to reciprocate said sleeve in response to its rotation and other means actuated by said sleeve reciprocation to apply a brake, together with pawl means reciprocable jointly with said sleeve and yielding means to resist reciprocation of said pawl and to press said pawl into locking engagement with the said sleeve.

2,320,879
PHONOGRAPH REPRODUCING APPARATUS
Oran T. McIlvaine, St. Charles, Ill.
Application October 15, 1940, Serial No. 361,319
6 Claims. (Cl. 179—100.41)



1. In a pick-up device adapted to be associated with a light responsive device, a stylus adapted to be actuated by a sound record and having an extended portion, an enclosed lamp receiving said extended portion of the stylus therein, said extended portion of the stylus having means connected therewith in the lamp for varying the light on the light responsive device.

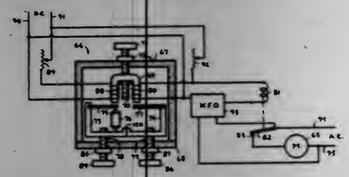
2,320,880
BRIDGE PLUG ASSEMBLY
Henry E. Nash, Saranac Lake, N. Y., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application May 25, 1940, Serial No. 337,211
4 Claims. (Cl. 102—28)



1. An electric firing device of the character described, including, in combination, a casing, an

explosive charge and a firing assembly adjacent said charge, said assembly comprising a pair of leg wires disposed in spaced relationship to each other, a bridge wire electrically connecting said leg wires, said bridge wire being made of zirconium and having a metallic oxide adhering to said wire whereby said bridge wire is caused to be pyrophorized under a relatively low electrical potential during a relatively short period of time.

2,320,881
CONTROL APPARATUS
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 3, 1940, Serial No. 350,296
7 Claims. (Cl. 236—44)



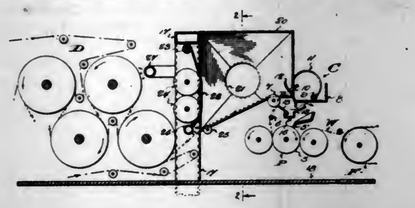
4. A system for operating a current responsive control device in accordance with the effective temperature of a space to be controlled, including in combination, a source of alternating electrical energy, an impedance having a core of magnetic material and a coil about said core, an armature having its ends adjacent the ends of said core, means for regulating the distance between one end of said armature and the adjacent core end in accordance with the temperature of the space to be controlled, means for regulating the distance between the other end of said armature and the corresponding core end in accordance with the humidity of the space to be controlled and a connection between said source of energy and said control device including said coil.

2,320,882
PROCESS FOR PREPARING FORMOGUANAMINES
Wilbur Null Oldham, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 30, 1941, Serial No. 409,127
5 Claims. (Cl. 260—248)

1. A method of preparing formoguanamines which comprises reacting a biguanide with formamide.

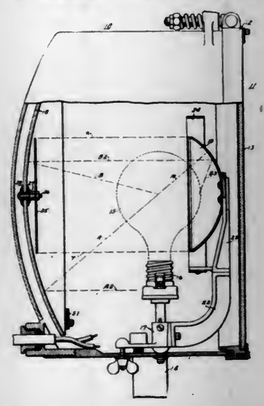
2,320,883
PAPER-COATING APPARATUS
Leonard Parkinson, Park Falls, Wis.
Application November 16, 1939, Serial No. 304,771
3 Claims. (Cl. 91—45)

3. An apparatus for coating a traveling web of paper comprising, a drip trough, means for guiding the web from immediately above said trough and over one edge only, leaving the remainder of the trough exposed, said trough including a drip plate extending to a point closely adjacent and below the overhung portion of the web, and a spray unit including a splash guard extending transversely of the web above said trough to drain into the same and allow free passage of air between the trough and guard, and spray nozzles extending through said guard for directing jets of coating material against the surface of the web



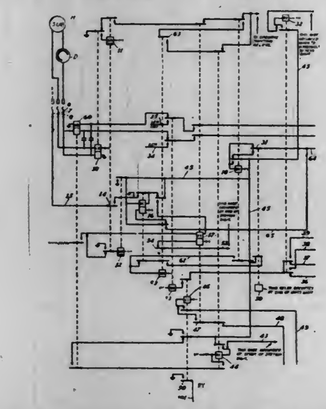
immediately below the drip plate, said drip plate being movable toward and away from the web.

2,320,884
REFLECTOR SYSTEM FOR LIGHTING UNITS
Willis A. Pennow, Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 6, 1941, Serial No. 392,029
2 Claims. (Cl. 240—41.35)



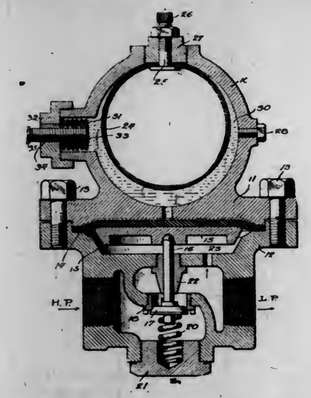
1. A lighting unit comprising, a housing having a front opening, a transparent cover for said opening, a main bowl-shaped reflector mounted in the back of the housing opposite the front opening, an incandescent lamp, means including a socket for supporting the lamp in the housing in front of the main reflector with its axis at right angles to the axis of the main reflector and the light source region on the focal point of the main reflector, an auxiliary spherical reflector of lesser diameter than the main reflector and spaced from the lamp and supported within the housing on the opposite side of the lamp directly facing the main reflector with its axis coinciding with the axis of the main reflector and its center point in the light source region of the lamp, and an opaque nonreflecting circular shield supported from the main reflector intermediate the said reflector and light source directly opposite the spherical reflector, said shield having an effective diameter of such magnitude as to mask off an area on the main reflector to prevent any light rays from the lamp being reflected from the main reflector into the spherical reflector for re-reflection onto the glass envelope of the lamp adjacent the spherical reflector, thereby to prevent damage to the glass envelope by concentrated heating.

2,320,885
SIGNALING SYSTEM
Winfred T. Powell, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York
Application March 21, 1941, Serial No. 384,517
5 Claims. (Cl. 179—17)



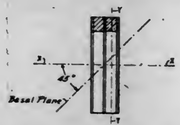
1. In a telephone system, a plurality of telephone lines, certain of which are multi-station lines, selectively actuated means including a series of counting relays for connecting any one of said lines to a wanted multi-station line, a signaling circuit including said wanted multi-station line, means for periodically completing said circuit, said means including a selected one of a plurality of channel conductors, means including a selected one of said counting relays for selecting a desired channel conductor, a series of relays closing predetermined break points in said channel conductors, and means for operating said last-mentioned series of relays in succession in time intervals of predetermined duration.

2,320,886
REDUCING VALVE
Francisco Angel Quiroz, Newark, N. J., assignor to Kieley and Mueller, Inc., New York, N. Y., a corporation
Application May 24, 1941, Serial No. 395,087
16 Claims. (Cl. 50—21)



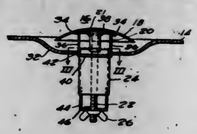
13. A hydropneumatic reducing valve comprising a valve carrying member with high and low pressure lines connected therewith, a valve separating said lines, a dome member having an opening at one portion, a diaphragm between the valve carrying member and the dome member adjacent said opening, a dampening means including a flexible container filled with gas under pressure positioned within the dome, and a fluid within the dome and substantially surrounding the container whereby both fluid and gas filled container act upon said diaphragm to cushion the movement of the valve.

2,320,887
ELECTROMECHANICAL VIBRATOR
Thomas A. Read, Scarsdale, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 24, 1941, Serial No. 403,889
9 Claims. (Cl. 171—327)



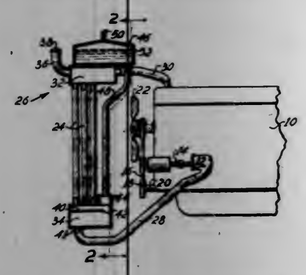
1. In combination with an electric circuit, an electro-mechanical vibrator comprising a piezo-electric crystal mechanically linked to a single crystal of zinc.

2,320,888
VENT FOR PORTABLE DISHWASHERS
Joseph H. Reifenberg, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 2, 1940, Serial No. 349,496
3 Claims. (Cl. 220—44)



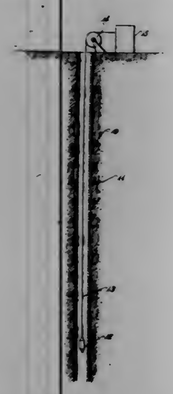
2. In a dishwasher having a washing vessel with an opening therein and a cover for such opening for preventing the escape of washing fluid from the vessel during the normal operation of the dishwasher, said cover having a depressed portion with an aperture therein, the combination of a vent structure attached to the cover substantially in line with said aperture for permitting the passage of air therethrough comprising, an exterior guard member of inverted saucer shape having its lower edges occupying a position within said depressed portion, a spacer member disposed in said depressed portion for retaining the guard member lower edges in said position, and substantially in line with said aperture, an inwardly extending hollow member of a length which tends to prevent the washing fluid from escaping therethrough, and means attached to the guard and passing through the depressed portion, aperture and hollow member for removably attaching the vent structure to the cover substantially in line with the aperture therein, said guard member cooperating with the hollow member to prevent the washing fluid from escaping from the washing vessel while permitting the passage of air therethrough.

2,320,889
COOLING SYSTEM
Frank E. Bowan, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application February 10, 1941, Serial No. 378,202
12 Claims. (Cl. 123—174)



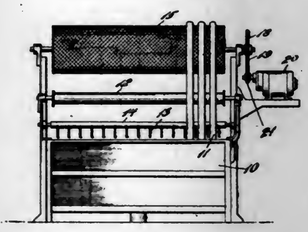
5. A cooling system for an internal combustion motor comprising a sealed upper header, a core connected to the underside of said upper header, a lower header connected to the bottom of said core and having a top wall unobstructed by said core, said top wall sloping upwardly to the center of said lower header to form a trap, a baffle positioned in said lower header underneath said core and having a lip positioned underneath said trap, an outlet for said lower header positioned underneath said baffle, an overflow tank positioned on top of said upper header, and a vent pipe communicating between said trap and said overflow tank.

2,320,890
METHOD OF GEOPHYSICAL PROSPECTING
William L. Russell, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Oka., a corporation of Delaware
Application August 2, 1941, Serial No. 405,269
2 Claims. (Cl. 250—83.6)



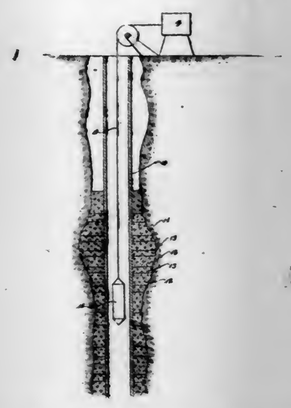
1. Method of geophysical prospecting that comprises positioning at preselected irregularly spaced locations within a well, casing units individually possessing radiation emissive characteristics capable of detection by a radiation sensitive prospecting instrument in the immediate vicinity thereof, and logging the well with a radiation sensitive prospecting instrument.

2,320,891
DYE BECK
Edward B. Ryder, Jr., East Greenwich, R. I., assignor to The Apponaug Company, a corporation of Massachusetts
Application February 19, 1942, Serial No. 431,475
4 Claims. (Cl. 68—176)



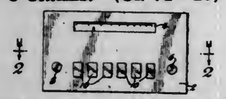
4. In an apparatus for treating wet fabric, a tub for containing a liquid bath for the work, an all metal rotatable member having a long axial extent with reference to its transverse diameter and of constant cross section throughout its axial extent with which the fabric engages, means to rotatably mount said member above said tub, said member having a fabric-contacting surface with its surface provided with cross-cross grooves of a depth to roughen the same to the degree of knurling throughout its work-engaging width and extending circumferentially to cover an area sufficient to prevent slipping of the wet work as drawn out of said tub.

2,320,892
METHOD OF GEOPHYSICAL PROSPECTING
Serge Alexander Scherbatskoy and Robert Earl Fearon, Tulsa, Okla., assignors to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application January 31, 1942, Serial No. 429,096
8 Claims. (Cl. 250—83.6)



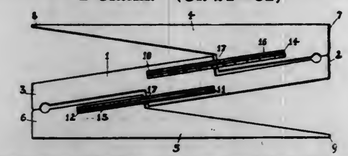
1. A method of locating cement behind a casing in a well that comprises making layers of radioactive cement separated by layers of non-radioactive cement, said non-radioactive cement layers being formed of measured quantities of cement, and determining the location of said radioactive layers.

2,320,893
AUTOMATIC TUNER
Bertram A. Schwarz and Ludwig Fichter, Kokomo, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 11, 1939, Serial No. 308,527
8 Claims. (Cl. 74—10)



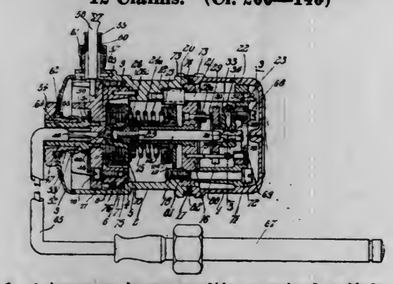
1. In a tuning mechanism, a rotatable shaft that it is desired to index to a number of different angular positions, manual means for rotating said shaft, a plurality of cam means axially spaced upon said shaft, frictional means for mounting the cam means whereby the cams may be rotated with respect to said shaft, movable means cooperating with each said cam means whereby certain indexing positions are obtained and means operated by the movable means during a certain portion of its travel for varying the strength of the frictional mounting means for all cams for resetting purposes.

2,320,894
TWO-WAY CLOTHESPIN
William Schwedler, Buffalo, N. Y.
Application October 27, 1942, Serial No. 463,451
1 Claim. (Cl. 24—81)



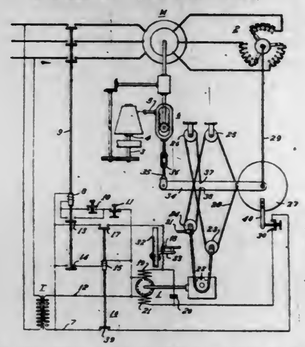
A two-way clothes pin comprising a combination of a center member and a pair of co-acting levers formed with opposite seats and arranged upon opposite sides of the center member, flat springs adapted to connect pivotally said levers to said center member, and an elastic adhesive substance holding said springs in slots provided in said center member and levers, said elastic adhesive substance covering entirely the broad sides of said springs, substantially as set forth.

2,320,895
THERMALLY OPERATED ELECTRIC SWITCH
John Edward Sherlock and William Frederick Forrest Martin-Hurst, Sunbury-on-Thames, England
Application October 25, 1940, Serial No. 362,856
In Great Britain June 7, 1940
12 Claims. (Cl. 200—140)



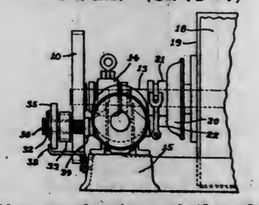
1. A temperature sensitive control switch, comprising a metallic casing formed in a number of jointed sections, a snap action switch device disposed within said casing and screened electrically thereby, an expansible metallic bellows also disposed within said casing, an axially movable spindle adapted to transmit the movement of said bellows to said switch device, means for varying the temperature at which the switch device will operate, means for sealing the joints between the said casing sections to prevent interference with the bellows operation by changes of atmospheric pressure, electrical conductors connected to said switch device and having means for electrically screening them, and a capillary tube connecting the bellows with a phial exposed where the temperature is to be controlled.

2,320,896
MOTOR CONTROL SYSTEM
Frederick D. Snyder, East Milton, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 30, 1942, Serial No. 428,902
4 Claims. (Cl. 172—274)



1. In a control system for an electric motor, in combination, an electric motor, speed control means for said motor, a load element coupled to the motor to operate in a reciprocating manner, motor means, means for connecting the motor means to operate a pre-selected number of revolutions, said motor means and load element being coupled to said speed control means to alter the speed of said motor in accordance with the combined function of the number of revolutions made by the motor means and the position of said load element.

2,320,897
STARTER GEARING
Stephen A. Staege, Hamilton, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application June 26, 1940, Serial No. 342,598
4 Claims. (Cl. 74—7)



1. Starting mechanism of the character described comprising a rotatable gear adapted for power operation at comparatively high speed, an electric starting motor having a threaded shaft

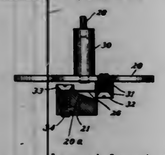
extending parallel with the gear axis, a pinion threaded on the shaft and automatically movable in an axial direction along the shaft into mesh with said gear when the starting motor is started and axially movable out of mesh when the gear is operated at high speed, a substantially stationary friction member facing towards a side of said pinion, means preventing rotation of said member about the pinion axis and supporting the member in a definite predetermined position so spaced from the gear as to be abutted by the pinion only after a substantial axial travel of the pinion following its disengagement from said gear, said member acting to temporarily reduce the speed of pinion rotation to a point below that of the shaft to cause return of the pinion a short distance toward the gear and free of the gear and the member, and means providing an adjustable friction connection directly between the pinion and the threaded shaft.

2,320,898
CIGAR BUNCH SHAPING MACHINE AND KNIFE THEREFOR
Leo Swinford, Richmond, Va., assignor to Richmond Maury, Richmond, Va., as trustee
Application December 23, 1940, Serial No. 371,457
2 Claims. (Cl. 131—83)



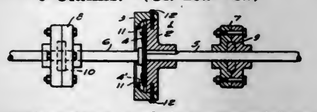
1. In a cigar making machine including a revolving turret and a plurality of molds carried by said turret, each of said molds having an opening in an end thereof through which excess tobacco protrudes, a knife adapted to be rotated by the excess tobacco protruding through an end of said mold, said knife being positioned adjacent the path of movement of the ends of said molds and mounted for free rotational movement, and means extending from said knife, and adapted to remove loose tobacco projecting from the side of said turret into the path of movement of said last mentioned means.

2,320,899
TELEPHONE RINGER
Andrew W. Vincent, Rochester, N. Y., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York
Application September 8, 1941, Serial No. 409,918
4 Claims. (Cl. 177—7)



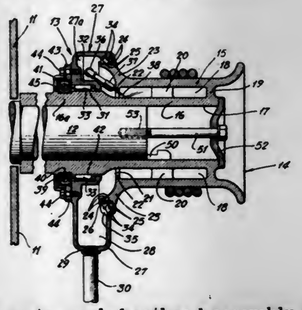
1. In a ringer, a yoke, at least one bell carried by said yoke, a pair of coils having cores supported at two of their ends on said yoke in spaced parallel relation, a fixed support adjacent the other ends of said cores, an elongated armature extending in a direction generally at right angles to the long axis of said cores with one end of said armature cooperating with one core end and the other armature end cooperating with another core end at said other ends of said cores whereby said armature ends can rock with respect thereto, a clapper in operative relation to said bell, said clapper being operated by said armature, means for mounting said armature in the position mentioned including a flexible reed-like strip extending lengthwise of said armature and in spaced parallel relation thereto and having an effective length substantially less than the distance between said cores, said strip having one end secured to said support and its other end secured to said armature, said reed being mounted to flex about an axis located adjacent the mid-portion of said armature and extending at right angles to the long dimension of said armature, and a magnet extending between said yoke and said armature to complete a portion of the magnetic circuit of said ringer.

2,320,900
BIMETALLIC CLUTCH
John G. Walz, Holyoke, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 13, 1940, Serial No. 352,417
9 Claims. (Cl. 192—82)



1. In combination, a clutch comprising a driving member and a driven member, at least one of said members including a bimetallic thermal responsive element of the snap-acting type, the other of said members comprising a substantially cup-shaped element, including a portion for engaging the thermal responsive element.

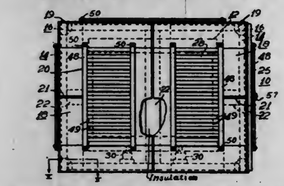
2,320,901
WATER COOLED CATHEAD
Samuel W. Webster, Houston, Tex., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a corporation of California
Application June 8, 1940, Serial No. 339,505
3 Claims. (Cl. 242—117)



3. In a water cooled cathead assembly for connection to the projecting end of a shaft of a rotary drawworks, the combination of: a spool unit having a cylindrical outer wall and a hub within said outer wall in spaced relation and connected thereto, a closure member for one end of said cylindrical wall and a raised circumferential lip projecting inwardly from the inner surface of said outer wall at a point spaced from said end closure member, the parts forming a water chamber within said spool unit, said hub projecting from one end of said spool unit; a hollow body having an opening to receive said end of said spool unit from which said hub projects, said body having an inner annular wall portion lying

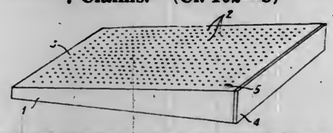
in spaced relation to said hub; bearing means disposed between said hub and said inner annular wall portion of said body to permit rotation of said hub while said body remains non-rotative; stop means to prevent rotation of said body; water delivery means carried by said body to deliver water into said chamber; and a water outlet leading from said body.

2,320,902
ELECTRICAL APPARATUS
Carroll M. Williams, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 19, 1940, Serial No. 346,254
13 Claims. (Cl. 175—361)



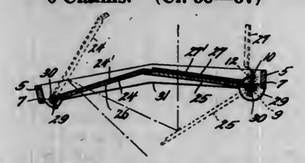
1. An enclosure for an air core reactor having a relatively high strength magnetic leakage flux comprising, a plurality of separate sections of sheet material, and a laminated frame structure of magnetic material positioned in the path of the leakage flux for supporting the sections of sheet material.

2,320,903
AUTOMATIC TANK DESTROYER
Gleason L. Archer, Boston, Mass., assignor to Suffolk University, a corporation of Massachusetts
Application December 8, 1939, Serial No. 308,192
7 Claims. (Cl. 102—8)



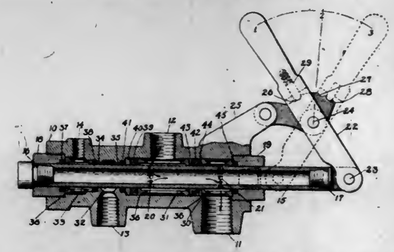
1. A tank destroyer device comprising a wedge-shaped container of material of such rigidity as to be collapsible under the weight of a tank, said container having a flat upper surface provided with a plurality of perforations, rupturable members closing said perforations, an inflammable fluid in said container, and a detonator incorporated in said device for igniting said inflammable fluid upon its ejection through said perforations upon the collapse of said container.

2,320,904
VEHICLE PASSING MIRROR
Bela Bachkai, Jamaica, N. Y.
Application July 8, 1941, Serial No. 401,504
6 Claims. (Cl. 88—87)



1. A front and rear view mirror assembly for vehicles comprising in combination, a support adapted to be attached to one side of a vehicle, two spaced and substantially parallel shafts pivotally mounted on said support, said shafts being substantially vertical to the horizontal when the support is mounted on said vehicle, a pair of mirrors respectively secured at one end to each of said shafts and disposed with the free ends of said mirrors in substantial abutting relationship in the normal position thereof, said mirrors respectively having reflecting surfaces on opposed sides thereof in said normal position, whereby one of said mirrors normally serves as a rear vision mirror, and means adapted to be actuated to rotate said shafts in the same rotary direction to move the free ends of said mirrors apart whereby the mirror having its reflecting surface facing forward of the vehicle is adapted to reflect the image of an object forward of the vehicle into the other mirror and said latter mirror is adapted to reflect said image into the eye of the vehicle driver.

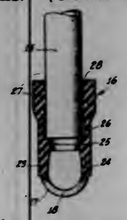
2,320,905
HYDRAULIC VALVE
Clinton Bateholts, Hoosick Falls, N. Y., assignor to Specialty Insulation Manufacturing Company, Inc., a corporation of New York
Application July 12, 1941, Serial No. 402,172
1 Claim. (Cl. 251—78)



A valve for hydraulic presses and the like comprising a casting having a longitudinal bore from which open in line and in the order named, a discharge port, a mechanism actuating port, a low-pressure port opening at its inner end into an annular groove defined by two fixed walls, and a high-pressure port, a removable gland positioned at each end of said bore, a tubular plunger having two sets of holes in the walls thereof mounted in said bore and journaled in said glands, a spacer member positioned about said plunger at the inner end of said high-pressure port, a compressible member positioned about said plunger adjacent each end of said spacer member, a spacer positioned about said plunger at the inner end of said mechanism actuating port, a pair of compressible members and an intermediate non-yielding member positioned about said plunger between one end of said second mentioned spacer and the adjacent fixed wall, a spacer positioned about said plunger at the inner end of the discharge port, a pair of non-yielding members and an intermediate compressible member positioned about said plunger between one end of said third mentioned spacer and the adjacent end of the spacer at the inner end of the mechanism actuating port, a compressible member positioned between the other end of the spacer at the inner end of the discharge port and the adjacent gland, and means for reciprocating said plunger through said glands from one fixed station to another and then back again, the distances between the two sets of holes in the plunger and the location and size of the annular grooves into which the ports

open being such that as the plunger is reciprocated from one fixed station to the other and back again communication is established in the order named between the mechanism actuating port and the low-pressure port, the high-pressure port, the low-pressure port and finally the discharge port.

2,320,906
FLUSH TANK SILENCER
Franklin Bent, Los Angeles, Calif., assignor to Janet M. Bales, Los Angeles, Calif.
Application November 5, 1941, Serial No. 417,883
2 Claims. (Cl. 181—33)



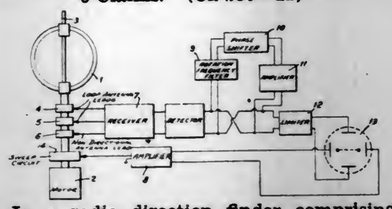
1. A flush tank silencer comprising a tubular rubber body adapted to be telescoped onto a hush tube, the lower end of the body being normally closed and slitted, the portions of the body on opposite sides of the slit being thicker than the body portions at the ends of the slit, and the tops of the relatively thin portions providing an upwardly facing shoulder engageable by the bottom of the hush tube.

2,320,907
RECLINING FURNITURE
Bernard H. Block, Detroit, Mich.
Application January 14, 1941, Serial No. 374,349
1 Claim. (Cl. 155—57)



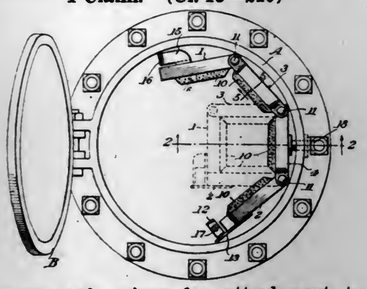
A sliding tiltable reclining chair comprising, a seat, two outer side rails secured on opposite sides of said seat, two inner side rails secured to the respective outer side rails but spaced inwardly therefrom, a bearing block secured between each respective spaced pair of inner and outer side rails, a cut-away or open portion in the under side of each bearing block formed to present inclined downwardly directed convex front and rear bearing surfaces, a base block extending upwardly between each pair of spaced side rails to engage the inclined downwardly directed bearing surfaces in each bearing block to support the chair in various inclined positions, each base block having a convex front bearing surface for engaging the convex front inclined bearing surface in the adjacent bearing block, each base block having a straight bearing surface sloping downwardly and rearwardly for engaging the convex rear inclined bearing surface in each bearing block, a cut-away open portion in each base block, and a stop member projecting from a side rail on each side of the seat and extending into the cut-away open portion in each adjacent base block for limiting the tiltable movement of the chair thereon by engaging an edge of the cut-away opening in an extreme adjusted position of the chair.

2,320,908
RADIO COMPASS
Henri G. Busignies, Forest Hills, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 5, 1941, Serial No. 381,837
6 Claims. (Cl. 250—11)



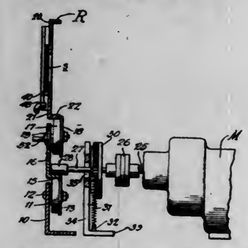
1. In a radio direction finder comprising a cathode ray indicator having a screen and means for forming a spot thereon, means for sweeping said spot along a substantially horizontal path, pick-up means including a constantly rotating member for deriving an undulating signal from incoming radio waves, means for deriving from said signal a signal whose envelope is characterized by sharp cusp shaped minima, said pick-up means including means for deriving further signals from said radio waves, means for combining said cusp-characterized signal and said further signals, means for deriving from the output of said combining means marking signals having inflection points corresponding to said sharp cusp shaped minima, means for separately deriving from the output of said combining means a wave of the frequency of said rotating member, and means for characterizing said spot during its sweep along said path under the control of said marking signals and said separately derived wave.

2,320,909
GAUGE POLE WIPER
Ray H. Bright, Chase, Kans.
Application February 20, 1942, Serial No. 431,763
1 Claim. (Cl. 15—210)



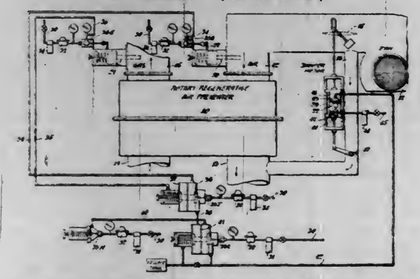
A gauge pole wiper for attachment to the hatch of a liquid tank, comprising a substantially square frame including a pair of elongated intermediate open-sided housing sections having one of their ends pivotally connected together and a pair of elongated end open-sided housing sections having one of their ends pivotally connected to the opposite ends of the intermediate sections for movement of the frame to open and closed positions, strips of wiping material secured within the open sides of the sections and extending exteriorly thereof along their length, said strips having beveled ends for fitting engagement of the strips relative to each other when the frame is in closed position, a single bolt and nut connection for securing the frame within the hatch and the bolt being fixed to one of the intermediate sections, and latching means carried by the free ends of the end sections for clamping the sections in closed position about the pole for disposing the wiping material in engagement with the faces thereof.

2,320,910
AUTOMATIC SLIDE PROJECTOR
Horace B. Brose, Chicago, Ill.
Application April 27, 1942, Serial No. 440,639
8 Claims. (Cl. 88—27)



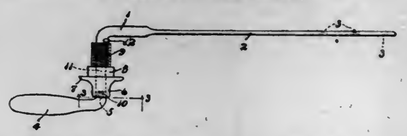
1. An automatic slide projector in which is comprised a continuously rotating drive means and thereover a circular slide mounting, antifriction means interconnecting the drive means and slide ring mounting and affording a rotatable support for the latter, a plurality of spaced apart stops on the slide mounting, a trigger engageable successively with each stop to arrest movement of the slide mounting without interrupting continuous rotation of the drive means, and a plurality of spaced apart trip means carried by the drive means adapted in succession to trip the trigger whereby to release the circular slide mounting for movement, in response to forces transmitted through the antifriction means from the drive means, through a distance equal to the spacing between the stops, the distance between the trip means in conjunction with the speed of movement of the drive means determining the period of pause of the circular slide mounting.

2,320,911
CORROSION REDUCTION IN AIR PREHEATERS
Roland S. Cooper, River Forest, Ill., assignor to The Air Preheater Corporation, New York, N. Y.
Application January 24, 1942, Serial No. 428,069
5 Claims. (Cl. 257—2)



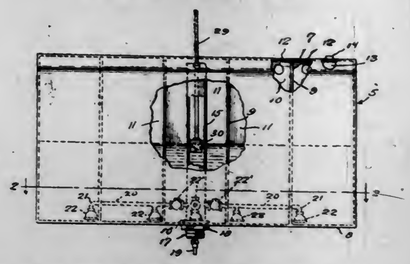
1. In a regenerative air preheater having inlet and outlet ducts for a heating gas, similar ducts for air to be heated, and a rotor carrying heat transfer elements for absorbing heat from the gases and imparting it to the air; means for measuring the temperature of air entering said preheater; means for measuring the temperature of gas leaving the preheater; means associated with said measuring means for obtaining the total of said temperatures; and means operable by said totalizing means for varying the heat transfer relation between gas and air flowing through said air preheater to maintain a predetermined total temperature.

2,320,912
FLUSH TANK OPERATING APPARATUS
Basil R. Crampton, Grand Rapids, Mich.
Application November 25, 1942, Serial No. 466,877
7 Claims. (Cl. 4—67)



1. In a structure of the class described, a unitary mounting fixture for application to a flush tank, said fixture having an axial opening therethrough, and a rod of uniform diameter located in said opening and extending through said fixture, said rod at one end of the fixture being turned laterally and formed into a handle and at the opposite end of the fixture being turned substantially at right angles to provide a lever portion adapted to have a flush tank valve connected therewith.

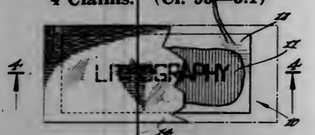
2,320,913
LIQUID FUEL OR LUBRICANT SUPPLY TANK
Thomas W. Crowell, Matthews, N. C.
Application May 28, 1941, Serial No. 395,657
1 Claim. (Cl. 137—21)



In a liquid supply for engines, a tank, a plurality of connected partitions dividing the tank into a plurality of compartments and each partition having an opening connecting said compartments with each other adjacent an upper wall of the tank, a stand pipe located in one of the compartments and including means for connecting thereof to an engine and extending through the bottom wall of the tank, branch pipes connected with the stand pipe adjacent the lower end thereof and each having a free end portion curved to extend downwardly and terminating within a compartment at a selected distance above the bottom wall of the tank, a cup-shaped depending housing secured on each of said ends of the branch pipes and having an internal shoulder and a screw threaded lower end, a ported plug threaded in each of the housings and spaced in close relation to the bottom wall of the tank, and a notched disc-like valve element operating in each of said housings between the shoulder and

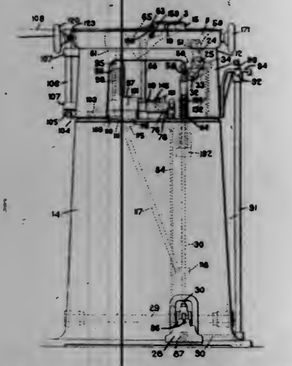
the plug to provide a check valve to permit flow of liquid from the compartment to the stand pipe and preventing reverse flow of liquid from the stand-pipe to said compartment and from one compartment to another.

2,320,914
PROCESS OF COLOR SEPARATION IN LITHOGRAPHY
James Cunningham, New York, N. Y., assignor of twenty per cent to Michael Dichiaro, Brooklyn, N. Y.
Application January 29, 1942, Serial No. 428,699
4 Claims. (Cl. 95—5.1)



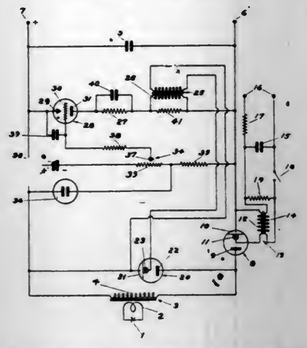
1. A process of the character described, consisting in opaquing out a part of a negative to be reproduced in one color, then applying a contact sensitized emulsion plate to the negative to make a print therefrom of the part of the negative which has not been opaqued; then applying to the part of the negative which has not been opaqued, a dye consisting of fuchsine crystals dissolved in methyl alcohol, and washing out the opaquing on the part which has been previously opaqued, placing a yellow plate over the negative, and then making a contact sensitized emulsion plate from the negative to reproduce on the second contact sensitized emulsion plate, the part of the negative which was originally opaqued, and from which part the opaquing was washed away.

2,320,915
PRE-WELT LASTING MACHINE
Fred Dawson, West Roxbury, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application June 19, 1941, Serial No. 398,777
21 Claims. (Cl. 12—12)



1. A pre-welt lasting machine comprisng a plurality of wipers for folding the welt-carrying edge of the upper over the bottom of the last, said wipers including a pair of of wipers acting on the upper at the sides of the shoe, means to operate the wipers, and a welt support to engage the welt at the sides of the shoe and support it above the path of movement of the side wipers.

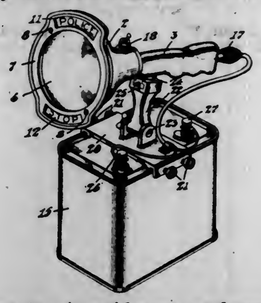
2,320,916
CONTROLLED IGNITION DISCHARGE TUBE SYSTEM
John W. Dawson, West Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application June 19, 1942, Serial No. 447,654
11 Claims. (Cl. 171—97)



11. A condenser discharge system having a condenser adapted to be charged and to be thereafter discharged through a load containing inductance, said discharge tending to be oscillatory and the polarity of the potential across said load reversing, a controlled ignition discharge tube arranged in shunt across said load and adapted to be fired when said reversed potential has reached a predetermined value, means for supplying igniting impulses to said tube, said means including a controlled rectifying tube adapted upon conduction thereof to supply said igniting impulses, said rectifying tube having a control grid, and a second condenser adapted to be charged with the same polarity as said first-mentioned condenser, means for limiting the charge on said second condenser to a predetermined voltage, the voltage on said second condenser being applied to said control grid with a polarity to prevent conduction thereof, said first-mentioned condenser being connected to said control grid and being adapted when the potential on said first-mentioned condenser has reversed to apply a potential to said control grid with a polarity opposed to that of the voltage applied by said second condenser to thereby enable said rectifying tube to conduct when said reversed potential has reached a predetermined value.

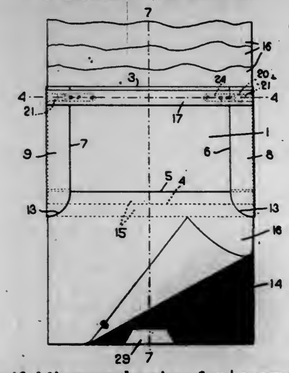
2,320,917
PORTABLE LAMP
Oscar L. Ely, Boston, Mass.
Application April 3, 1941, Serial No. 386,669
1 Claim. (Cl. 240—10.61)

A portable electric lamp structure comprising a lamp casing, a handle secured to said casing, a bracket including a plate adapted to extend across the top of a portable battery and having downwardly extending flanges at opposite ends thereof to overlap the sides of said battery, screw-threaded fasteners extending through said flanges to secure the bracket to said battery, an arm pivotally mounted on said bracket for adjustment into various angles of inclination, a handle secured to said lamp casing and projecting rearwardly therefrom, said arm having a socket in the upper end thereof transversely disposed with reference to the arm, said handle having a T-shaped lug rigid therewith and extending downwardly therefrom and shaped to fit slidably into said socket to secure the handle



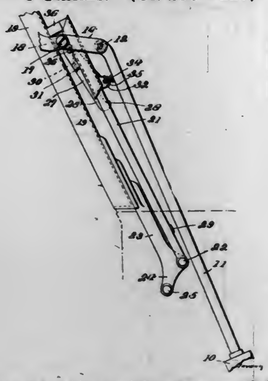
and the casing to said arm, and means for releasably fastening said lug in said socket.

2,320,918
MANIFOLDING MECHANISM FOR TYPEWRITERS
James W. Fader, Dorchester, Mass.
Application June 5, 1942, Serial No. 445,872
9 Claims. (Cl. 282—1)



7. Manifolding mechanism for typewriters comprising a rectangular carrier of thin tough flexible sheet material having a straight front edge provided with a series of slits parallel to and suitably spaced from said front edge and from one another and of a length greater than the width of the forms to be manifolded and terminating short of the side edges of the carrier sheet providing strips therebetween to which the rear edge portions of the respective transfer sheets may be attached and having marginal side portions so folded over the ends of the slits that the folds provide guides for the side edges of the superposed form sheets when inserted in interleaf relation to the transfer sheets, the folded over portions being adhesively secured to the body of the carrier from approximately the uppermost slit to the rear end thereof to reenforce the edge portions of the carrier, the body of the carrier sheet and the respective folded over marginal portions being provided adjacent the straight rear edges of the carrier sheet with apertures, a stop bar having in proximity to the ends thereof pivotally mounted clamping members provided with guides for the edges of the form sheets adapted when in upright relation to said bar to be inserted through the respective apertures in said carrier, each of said clamping members having extensions beyond the pivot thereof provided with a lateral flange, and a spring engaging the flange acting selectively to hold the clamping member in upright position for insertion or to cause the clamping member to grip the sheet against said bar.

2,320,919
OUTRIGGER OPERATING MEANS
Jeronimo Falcon, Detroit, Mich.
Application July 1, 1939, Serial No. 282,509
5 Claims. (Cl. 296—117)



1. In combination with a convertible top comprising a plurality of members at least two of which are pivotally attached to the body of a vehicle at each side thereof and others of which directly support a top covering, latch means preventing rotation of all of said members until the other members which support the covering are first collapsed, and power means adapted to retract said other members and thereafter rotate all of said members about the point of pivotal attachment to final collapsed position.

2,320,920
WELDING ELECTRODE
James Fletcher, Detroit, Mich., assignor to Tipaloy, Inc., Detroit, Mich., a corporation of Michigan
Application March 14, 1942, Serial No. 434,750
2 Claims. (Cl. 219—4)

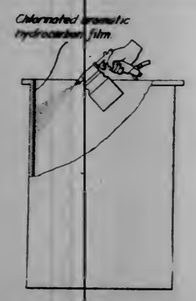


1. A welding electrode consisting of a copper alloy having a thin adherent coating of silver covering the welding face thereof and extending a substantial distance up the sides thereof.

2,320,921
RUST-PROOFING MATERIAL FOR METALS
James G. Ford, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 20, 1938, Serial No. 220,410
3 Claims. (Cl. 117—133)

1. The method of protecting a chlorinated aro-

matic dielectric employed in combination with electrical apparatus disposed in a ferrous container which comprises applying to the ferrous container a material comprising a solid chlorinated aromatic compound selected from the group consisting of chlorinated diphenyl, chlorinated naphthalene and chlorinated derivatives



of diphenyl and a solvent for the solid chlorinated aromatic compound, the solvent comprising an aromatic hydrocarbon selected from the group consisting of benzene, toluene and xylene, the materials being mixed in proportions to give a composition having a viscosity which facilitates the application to the container and which upon drying provides a protective coating.

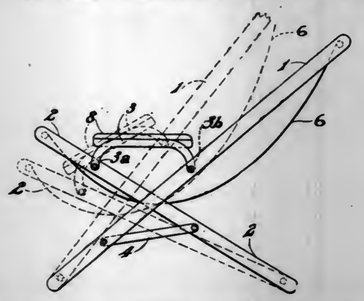
2,320,922
HIGH-VOLTAGE COIL INSULATION
James G. Ford, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 16, 1940, Serial No. 361,345
7 Claims. (Cl. 175—362)



1. In an electrical coil for use in a liquid dielectric, in combination, a conductor, solid insulation carried by the conductor, the solid insulation being permeable by the liquid dielectric, a covering applied to the solid insulation and being substantially concentric with the conductor and solid insulation, and an adhesive applied to the covering presenting an exterior adhesive surface, the adhesive being insoluble in the liquid dielectric, the covering having openings leading to the solid insulation to provide the dielectric liquid access to the solid insulation, the turns of the coil made from the conductor being bonded directly to one another by the exterior adhesive surface provided on the covering, the adhesive on any turn of the coil serving to bond it to the next turn to provide a solidly bonded coil.

2,320,923
FOLDING CHAIR
Carl Bernhard Forsberg, Jacobs, Natal, Union of South Africa
Application May 24, 1940, Serial No. 336,973
In Union of South Africa September 7, 1939
3 Claims. (Cl. 155—56)

1. A self-adjusting folding chair comprising two coacting frames each provided with a pair of longitudinal side members arranged to have points of intersection, a canvas strip supported at one section from the end of one frame and at the other section from the end of the other frame, two inverted substantially U-shaped connecting bars each pivotally connecting adjacent side members of each frame above said points of intersection, said bars each having a limb of the U pivotally supported on the side member

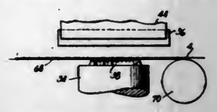


so as to extend upwardly away from a straight line drawn between the pivotal connections of said bar when the folding chair is in seating position, whereby the inner faces of the limbs of the U form a non-acute angle with the side member, and two connecting bars each pivotally connecting adjacent side members of each frame below said points of intersection.

2,320,924
TRANSLUCENT POLYMERIC METHACRYLIC ESTERS
Warren H. Gift, Bristol, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application May 8, 1939,
Serial No. 272,449
9 Claims. (Cl. 260—42)

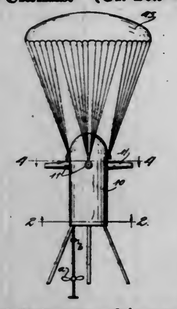
5. Uniformly translucent cast objects of a polymer from the group consisting of polystyrene and polyvinylacetate, and a polymer from the group consisting of the polymeric lower esters of acrylic and methacrylic acids, said object comprising a fine dispersion of at least one member of one of said groups in a continuous phase of at least one member of the other group.

2,320,925
METHOD OF MARKING CELLOPHANE
Donald R. Grant, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Application April 12, 1940, Serial No. 329,224
1 Claim. (Cl. 101—426)



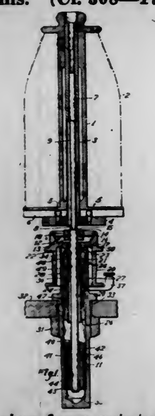
The method of marking indicia in a sheet of Cellophane which comprises positioning an inking ribbon between the sheet of Cellophane and a marking die having pointed projections arranged in the form of the desired indicia, and causing the pointed projections of the die to act through the inking ribbon to form corresponding unperforated depressions in the Cellophane in such a manner as to cause ink from the ribbon to be impressed into the bottoms of the depressions.

2,320,926
RAPID FIRING MACHINE OR BOMB
Andrew J. Guthrie, St. Albans, W. Va.
Application July 8, 1941, Serial No. 401,510
2 Claims. (Cl. 102—5)



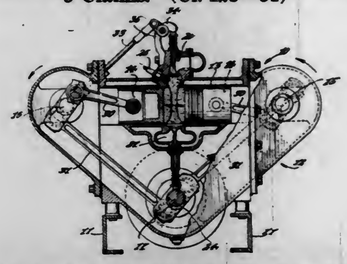
1. In a rapid firing machine or bomb, a casing having rifles radiating therefrom, a cylinder mounted for rotation within the casing having chambers adapted to aline with the rifles, a hammer operative to fire a cartridge in the cylinder, a pivotally mounted lever, a connection from the lever to the hammer whereby movement of the lever is communicated to the hammer, a spring operative to urge the lever for operating the hammer, a rotatably mounted element for engaging the lever for compressing the spring, and a motor for operating said element.

2,320,927
THRUST-BEARING MEANS
Arthur C. Hagg, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1941, Serial No. 391,048
3 Claims. (Cl. 308—170)



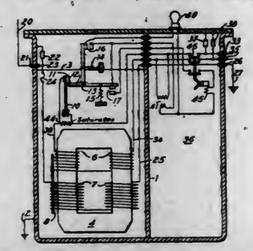
1. A thrust-bearing for a rotatable shaft, comprising, in combination with the shaft, a support therefor, and lubricating means therefor, two solid annular thrust-bearing members, one of said members being a rotating member carried by the shaft, and the other member being a stationary member surrounding the shaft and carried by the support, the thrust-supporting thrust-bearing surfaces of both of said annular thrust-bearing members being substantially continuous circumferentially and radially, and having a small slope, relative to each other, from all points around the outer circumference toward the center so as to provide a conical wedge-shaped thrust-supporting film of lubricant between the two thrust-bearing surfaces, with the thick part of the wedge toward the shaft.

2,320,928
ENGINE
West Henson, New York, N. Y.
Application May 24, 1941, Serial No. 395,001
5 Claims. (Cl. 123—51)



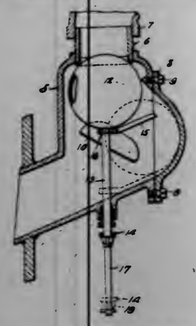
3. An engine comprising a casing of generally triangular shape, the apex of which is at the bottom, a cylinder within the central upper part of the casing, a pair of pistons in the cylinder, a pair of crank shafts in the upper outer corners in the casing, means interconnecting said pistons with said pair of crank shafts, a common output shaft in the lower portion of the casing adjacent the apex thereof, means interconnecting said common output shaft with said crank shafts, an inlet valve on said cylinder, a pivoted cam to operate said valve, means connected to one of said pair of crank shafts to operate said cam, an exhaust valve on said cylinder, and a cam on said output shaft, to operate said exhaust valve.

2,320,929
TRANSFORMER PROTECTION
John K. Hodnette, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 9, 1942, Serial No. 438,219
10 Claims. (Cl. 175—294)



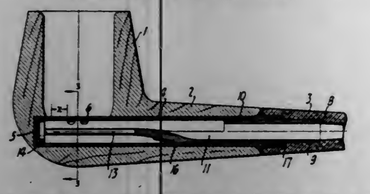
1. In combination, an oil-cooled transformer, a thermally responsive device in heat-exchanging relation to the oil, means for electrically heating said thermally responsive device in response to a load-current of the transformer, current-responsive means for causing the temperature-gradient between the thermally responsive device and the oil to be disproportionately smaller at certain currents in excess of a predetermined overcurrent than at the full-load current, said predetermined overcurrent being smaller than the permissible short-time overload of the transformer, and means responsive to a predetermined temperature of the thermally responsive device while the transformer is in useful operation.

2,320,930
SCUPPER VALVE
Frank B. Hooper, Newport News, Va.
Application December 28, 1942, Serial No. 470,367
2 Claims. (Cl. 251—135)



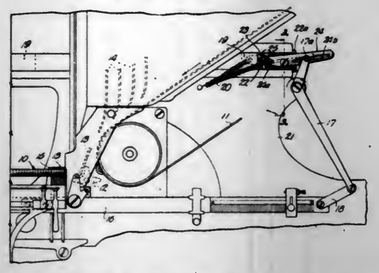
2. A scupper valve comprising a body portion having an inlet opening providing a valve seat, said body portion having a lateral valve chamber, a ball valve operating within the body portion, means for directing the ball valve laterally into said valve chamber, a slide rod operating through the wall of the body portion coaxially with said inlet opening, an arm extending laterally from the upper end of the rod and adapted to engage the ball valve, said arm adapted to move the ball valve to a position over the end of said rod when the rod is moved upwardly, and means for securing the slide rod in its valve supporting position.

2,320,931
TOBACCO PIPE
Edgar M. Houx, Berkeley, Calif.
Application July 21, 1941, Serial No. 403,321
7 Claims. (Cl. 131—184)



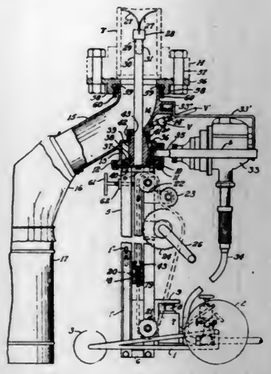
7. A smoking pipe having a bowl and a stem projecting from the lower end thereof, an elongated mouthpiece secured at one of its ends to said stem in axial alignment of the latter, coaxial communicating passageways formed in said stem and mouthpiece, an open-ended tube coaxial with said stem and said mouthpiece and extending across the juncture between their adjacent ends, a substantially semi-cylindrical extension integral with said tube in axial extension of the lower side thereof when said bowl is upright, positioned between said bowl and the outer end of said stem for conducting moisture from the mouthpiece into said stem while permitting smoke from the bowl to flow over said extension and into said mouthpiece, and a plunger integrally secured to said extension for movement therewith upon withdrawal of said tube from said stem, and a slight protuberance on said extension projecting radially outwardly thereof for frictionally engaging a side of the passageway in said stem for frictionally holding said tube in position in the latter.

2,320,932
ASSEMBLER MECHANISM OF TYPE CASTING MACHINES
George Harvey Hutchison, Kansas City, Mo.
Application February 13, 1942, Serial No. 430,763
6 Claims. (Cl. 199—30)



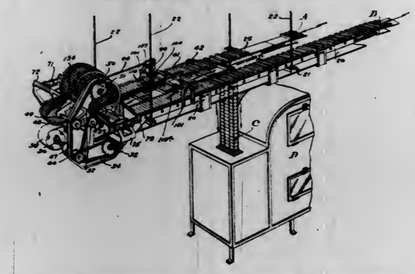
1. In a Linotype machine of the type including an assembler having an elevator mechanism, an assembler slide, a bell crank, means connecting one arm of the bell crank to the assembler slide, and a spring yieldably resisting pivotal movement of the bell crank, the assembler slide being movable in a direction to tension the said spring when matrices are assembled in the elevator mechanism, the improvement comprising a slotted lever mounted for pivotal and sliding movement adjacent one arm of the bell crank, means for imparting intermittent sliding movement to the lever, a pin carried by the bell crank movable in the slot in the lever, and means for connecting the spring to the said lever.

2,320,933
APPARATUS FOR REMOVING MATERIAL FROM CONTAINERS
Grover F. Ilgen, Springfield, Ohio, assignor to The Airetool Mfg. Company, Springfield, Ohio, a corporation of Ohio
Application May 17, 1941, Serial No. 393,981
8 Claims. (Cl. 83—6)



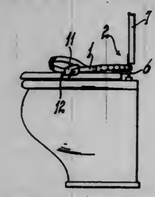
1. In an apparatus to dislodge material from a container for said material, a supporting frame, a shaft having a plurality of members, means for detachably connecting the members of said shaft, means to rotate said shaft, a cutter driven by said shaft, feeding mechanism for said shaft, a chamber supported by said frame through which said shaft extends, and means for detachably connecting said chamber with the container for the material to be dislodged consisting of an adapter plate adapted to be removably connected with the container and having slideways, and flanges on said chamber entering said slideways.

2,320,934
ACCUMULATOR
Thomas R. James, Minneapolis, Minn., and Joseph Desjardins, Chicago, Ill., assignors to General Mills, Inc., a corporation of Delaware
Application April 11, 1941, Serial No. 388,090
8 Claims. (Cl. 198—32)



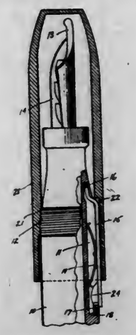
1. In a machine of the class described, two spaced conveyors adapted to convey cartons of a given size and shape, a delivery conveyor between said spaced conveyors, a plate between the spaced conveyors, independently operable yieldable means for transferring cartons alternately from each of the spaced conveyors to the plate, means for advancing said cartons from the plate to the delivery conveyor, means operable by cartons on said spaced conveyos for rendering the transfer means for one of said spaced conveyors inoperative when there are no cartons on that conveyor at a given point and for again rendering said transfer means operative when cartons again arrive at said given point, and means operable by cartons on the delivery conveyor for rendering both the transfer means inoperative when cartons accumulate at a predetermined point on the delivery conveyor and for again rendering both the transfer means operative as soon as no cartons are at said predetermined point.

2,320,935
INFANT TOILET SEAT BELT
Fleurette Crettaz Johnstone, Pasadena, Calif.
Application November 17, 1942, Serial No. 465,854
1 Claim. (Cl. 227—49)



An infant toilet seat belt comprising an elongated flexible strap, a hook mounted on the rear end of said strap, spaced eyelets in said strap, said hook entering any one of said eyelets, a hook on the forward end of the said strap, said last-named hook entering any one of said eyelets, whereby two loops are formed in the strap, one loop being adapted and arranged to encircle the hinge of the toilet seat, and the other loop encircling the leg of the infant, a cuff attached to said strap, and ties on the cuff whereby the cuff may be attached to a wrist of the infant.

2,320,936
THREAD LOCK
Milton Kessler, Youngstown, Ohio
Application March 20, 1942, Serial No. 435,475
3 Claims. (Cl. 120—42)



1. In a fountain pen and the like, the combination of a pen barrel having a threaded area thereon, an axially extending groove formed across the said threaded area, a wide area in said groove adjacent one end thereof, a bar movably positioned in said groove and pivotally affixed at one end to the said pen barrel; a leaf spring positioned between said bar and said barrel and a cap having a plurality of ratchet-like axially extending grooves formed therein as well as a threaded area, the said groove extending across the said threaded area and adapted to register with the said bar on the pen barrel.

2,320,937
PROCESS FOR ADHESIVELY UNITING HARD AND SOFT RUBBER OR RUBBERLIKE MASSES WITH SURFACES OF OTHER MATERIALS
Herbert Knoop, Frankfort-on-the-Main, and Hermann Miedel, Bad Homburg von der Hohe, Germany, assignors to American Lurgi Corporation, New York, N. Y., a corporation of New York
No Drawing. Application November 25, 1939, Serial No. 306,176. In Germany December 1, 1938
4 Claims. (Cl. 154—2)

1. A process for adhesively uniting rubber and rubber-like masses with surfaces of other materials, which comprises applying a coating comprising a urea aldehyde condensation product and an iron oxide to the surfaces to be united with the rubber and rubber-like masses and applying thereover a coating comprising an aqueous rubber dispersion and hemoglobin to form an adhesive layer, and then applying a vulcanizable rubber or rubber-like mass thereover and vulcanizing such mass.

2,320,938
GAUGE
Wilmarth Y. Lang, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 396,098
7 Claims. (Cl. 33—174)

1. A gauge for inspecting perforations in stationery which comprises a transparent plate, means carried by said plate adapted to penetrate perforations in said stationery other than a perforation to be inspected for locating said plate

with one surface in engagement with a surface of the stationery, means inscribed in geometric outline form on said plate to be observed in superposed relation to a perforation under inspection for displaying visually the state of conformity of said perforations to predetermined tolerance limits, and a backing plate for supporting at least a portion of the stationery to be inspected, said backing plate having clearance apertures for loosely accommodating said penetrative locating means.



2,320,939

REMOVAL OF MERCAPTANS FROM MERCAPTAN-SOLVENT MIXTURES

Leonard N. Leum, Upper Darby, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application April 29, 1941, Serial No. 390,907

5 Claims. (Cl. 202—57)

1. The method of removing mercaptans from a lower aliphatic alcohol containing the same, which comprises vaporizing the mercaptan-alcohol mixture, contacting the vapors with an easily reducible metal oxide at an elevated temperature sufficient to convert said mercaptans to disulfides without substantial degradation of said alcohol, but insufficient to convert said mercaptain to H_2S with the resultant transposition of the easily reducible metal oxide to metal sulfide, and fractionally distilling the disulfide-alcohol product to separate the disulfides from the alcohol.

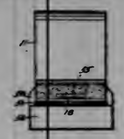
2,320,940

COMBINATION BOOK MATCH AND SAMPLE OR ADVERTISING CARRIER

Lewis Lipowitz, Baltimore, Md.

Application October 26, 1937, Serial No. 171,122

2 Claims. (Cl. 206—29)



1. In combination with a book match including at least one match strip, a cover and a staple attaching said match strip at its base to said cover; a sample carrying or advertising tag having an intermediate portion of greater width than the width of said book match cover, a transverse slot in said intermediate portion, a cut-out portion formed centrally of said slot at one edge thereof, said book match cover extending through said slot in such relationship to said tag whereby the end portion of said tag to one side of said slot including said cut-out portion will be disposed between said match strip and the inside of said cover at the base of said match strip, said staple being disposed within said cut-out portion, the other end portion of said tag on the other side of said slot extending exteriorly of said book match and adapted to carry said sample or advertising.

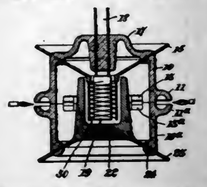
2,320,941

METHOD OF FABRICATING VACUUM TUBES

Charles V. Litton, Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application May 12, 1942, Serial No. 442,635

4 Claims. (Cl. 250—27.5)



4. The method of making a vacuum tube from previously prepared parts wherein said parts comprise a substantially tubular glass portion held in fixed position, a sheet like metal portion placed on one end of said tubular portion, and a further glass portion above said sheet metal portion, which comprises applying heat to said metal portion and the parts of said glass contiguous thereto to soften said parts of said glass, deforming said softened glass by pressure tending to press said further glass portion and said metal portion toward said fixed tubular portion, and further comprising the provision of stop means to limit movement of said metal portion and said further glass portion, whereby when a seal is completed among said portions, said portions have a predetermined fixed position with respect to said tubular portion and each other.

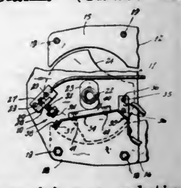
2,320,942

SWITCH

Edwin W. Logan, Belleville, Ill., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo., a corporation of Missouri

Application December 29, 1939, Serial No. 311,538

1 Claim. (Cl. 200—30)



A switch comprising a relatively fixed first contact element, a movable switch arm, a second contact element thereon, means adapted to operate said switch arm so that the contact element thereon moves to and away from the first contact element, said means and said contact elements being arranged so that for a substantial part of the interval of time during which the contact elements are in contact with one another, the surface along which the contact elements touch each other makes an acute angle of substantially 45° to the direction of motion of the contact element on the switch arm.

2,320,943

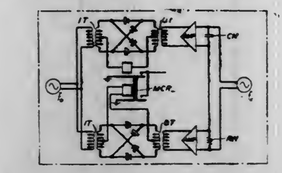
TELEPHONE SYSTEM

Mason A. Logan, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 23, 1941, Serial No. 424,104

5 Claims. (Cl. 179—16)

1. A signal receiving circuit for an alternating current signal system having a pair of rectifier networks for each signal frequency transmitted over said system, a carrier source of current connected to each of said rectifier networks having substantially the same frequency as the signal frequency and displaced in phase



by 90° from each other, and means connected to said pair of rectifier networks which is responsive to the low frequency two phase components of the output current of the combined carrier and signal frequencies applied to said pair of networks.

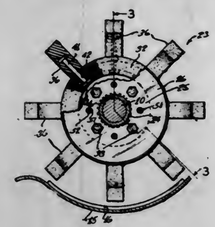
2,320,944

SEPARATOR CYLINDER

Harold Maginn, Waverly, Ill.

Application May 21, 1941, Serial No. 394,454

17 Claims. (Cl. 130—27)



1. A threshing assembly for grain and the like, including a rotary threshing cylinder and a stationary concave structure coacting therewith, the cylinder including a shaft, a plurality of wheel-like spider elements, horizontally stacked along the shaft, a plurality of bar assemblies, each such assembly being attached to one of the spiders, and carried solely thereby, each bar assembly consisting of a plurality of resilient beater arms, means for assembling the beater arms in angularly displaceable relation on the spider by which they are carried, and means, arranged radially outwardly of the shaft, for assembling the spiders together and retaining them against relative angular displacement.

2,320,945

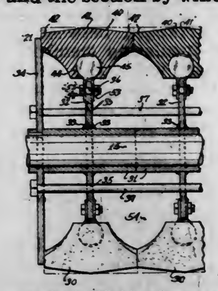
THRESHER CYLINDER CONSTRUCTION

Harold Maginn, Waverly, Ill.

Application May 21, 1941, Serial No. 394,455

20 Claims. (Cl. 130—27)

1. In a rotatable threshing cylinder adapted to coact with a concave structure in the separation of grain or the like, a shaft, a bar-supporting structure carried by the shaft, and a plurality of bars mounted on the bar supporting structure, each of the bars being formed of a plurality of substantially aligned resilient sections, each section being relatively short in its dimension axially of the cylinder, and means for individually mounting the bar-forming sections including a pin element secured in assembly to the section, and means coacting with the pin and bar-supporting structure for detachably positioning the pin element and the section by which it is carried, whereby to enable individual removal and application of each of the bar-forming sections.



2,320,946

METER CASING

Harry D. Madden, South Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 2, 1940, Serial No. 321,942

3 Claims. (Cl. 171—34)



1. The combination with an integrating electrical meter, of a glass base plate supporting said meter, conducting leads from said meter passing through said base plate in sealed relationship thereto, a glass cover member having an open end arranged to fit closely against said base plate to enclose said meter, material having a lower melting point than glass disposed between the end of said cover member and the contacting surface of said base plate and fused to said adjacent surfaces to make said meter enclosing structure fluid tight, and electrical resistance heating means disposed adjacent said fused joint to heat said fusible material to melting temperature to permit removal of said cover member from said base plate.

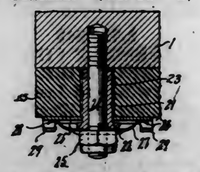
2,320,947

FASTENING MEANS

John F. Martin, Springfield, Wolfgang E. Schwarzmann, Longmeadow, and Edward M. Bach, Agawam, Mass., assignors to American Bosch Corporation, Springfield, Mass., a corporation of New York

Application January 24, 1942, Serial No. 428,104

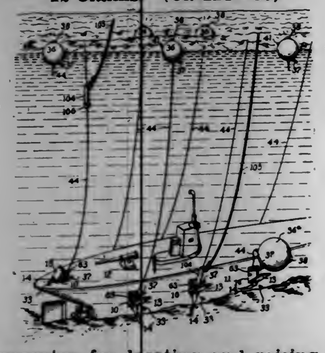
7 Claims. (Cl. 85—1)



1. In combination with a frame and an electrical insulating member; detachable fastening means including: a sleeve which has a rigid shank extending at least partly through the member

into contact at its inner end with the frame and which also has at its outer end a rigid head standing away from the member, separate resilient means arranged between the fastening means and the insulating member, and detachable locking means which has a shank extending through the sleeve into engagement with the frame and which exerts direct pressure on the frame through the sleeve and cushioned pressure of a predetermined maximum amount on the insulating member through the resilient means.

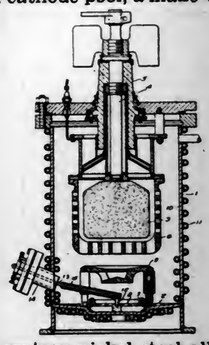
2,320,948
AUTOMATIC MARINE HITCH
Clarence T. Marthey, Canton, Ohio
Application August 17, 1942, Serial No. 455,054
12 Claims. (Cl. 114—50)



1. Apparatus for locating and raising sunken vessels including a compartment in a vessel, a door for the compartment, locking means for the door, means for unlocking the door, means for opening the door, an inflatable ball in the compartment, means for inflating the ball and releasing it from the compartment when the door is open so that the ball will float to the surface, a light cable attached to the ball, a drum in the compartment upon which the cable is wound, a hitch in the compartment comprising a plate having an opening therein, a pair of hinged plates below said plate and provided with cooperating, half-round cut-out portions in their opposed edges forming an opening smaller than the opening in said plate, yielding means for normally holding the hinged plates against the under side of said plate, said cable extending through the openings in said plates, a heavy, tubular sleeve having a head at its lower end, said head being of smaller diameter than the opening in said plate and of larger diameter than the cut-out portions in the hinged plates, a heavy cable attached to said sleeve, and means for slidably mounting the sleeve upon the light cable so that it will slide down the light cable by gravity and be automatically locked to the hitch.

2,320,949
IGNITER ASSEMBLY FOR IGNITRON RECTIFIER
Henry C. Myers, Irwin, and Joseph H. Cox, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 23, 1941, Serial No. 416,162
2 Claims. (Cl. 250—27.5)

1. A vapor-electric device comprising a container, a pool of vaporizable reconstructing cathode material in said container, a graphite anode in insulated spaced relation to said cathode, a graphite shield substantially surrounding said anode, means for determining an active cathode area on said cathode pool, a make-alive electrode,



a high temperature nickel steel alloy support for supporting said make-alive electrode in contact with the cathode pool within the active cathode area and a graphite shield enclosing that portion of the support exposed to the cathode blast.

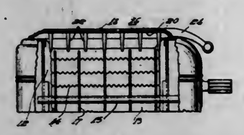
2,320,950
COAT WITH DETACHABLE LINING
Lena J. Reiter, Cincinnati, Ohio
Application February 3, 1942, Serial No. 429,366
3 Claims. (Cl. 2—97)



1. In a coat having a body portion and sleeves stitched thereto, the improvement which comprises a lining member independent of said coat and comprising a body lining and a sleeve lining, said member adapted to be inserted into said coat and detachably secured thereto, said sleeve lining being stitched to said body lining for a relatively short distance at the shoulder thereof and being unattached over the major portion of the armhole of said lining, a pleated insert interposed between said linings, the edges of said insert being stitched to the respective edges of said linings, said insert being composed of two similar pieces of fabric of Y shape, each said piece being folded longitudinally along its centerline, the corresponding top edges of said pieces being stitched together and the two inner edges of each Y being stitched together to complete the pleat, said folded pieces being in the form of a U in which the outer edges are united, the inner edges of said U being stitched to the respective edges of said sleeve and body linings, said insert being V-shaped in cross-section and extending around the armhole and up to the shoulder of said lining.

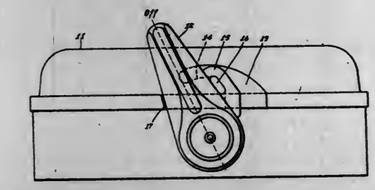
2,320,951
TOASTER
William J. Russell, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 17, 1941, Serial No. 423,365
3 Claims. (Cl. 53—5)

1. A cover structure for a toaster having a vertically positioned toasting chamber with an open top, said cover embodying an under surface for fitting over the top surface of the toaster, and a plurality of downwardly extending finger-like



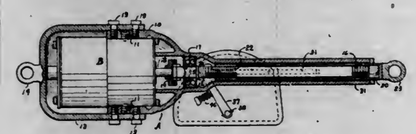
members which fit into the chamber for preventing the accidental removal of the cover when said cover is positioned on top of the toaster and for holding slices of toast when said cover is in an inverted serving position.

2,320,952
SWITCH CABINET
John W. Samzelius, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 26, 1941, Serial No. 420,519
5 Claims. (Cl. 200—42)



1. In an enclosed electric switch, in combination, a switch cabinet, a switch operating handle, and a locking plate secured to the cabinet, said locking plate having an open slot therein for receiving a lock for retaining the switch handle in a predetermined position, the open end of said slot being obstructed by said handle when it is in said predetermined position.

2,320,953
ELECTRIC POWER LIFT
Osborne H. Shenstone, Toronto, Ontario, Canada, assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada, a company of Canada
Application April 25, 1941, Serial No. 390,305
8 Claims. (Cl. 254—98)

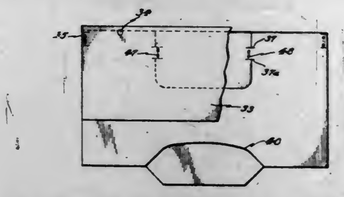


1. A device of the class described, comprising a frame having mounted on one end thereof an electric motor, an elongated member slidably mounted in the other end of said frame, the end protruding, means on said frame and means on said elongated member whereby operating connections may be made to an anchor and to the thing to be lifted or moved, an elongated screw threaded connection between said motor and elongated member, a motor reversing switch operatively connected to said motor, a current reversing switch operatively connected to a source of electric supply and to said motor reversing switch, manually controlled means associated with said current reversing switch, motor and elongated member whereby said means will operate automatically to stop said motor and determine the length of stroke of the elongated member in either direction.

2,320,954
GROUTING MEANS AND PROCESS
Francis Daly Sullivan, Memphis, Tenn.
No Drawing. Application February 9, 1940, Serial No. 318,177
2 Claims. (Cl. 61—36)

2. The method of grouting a cavity in the soil which includes initially forcing into the soil a liquid solution of tetra sodium pyrophosphate, and forcing into the cavity a clay which has a normal non-swelling characteristic when brought into contact with water or other liquids initially disposed in the cavity, said clay having a chemical composition such as to react upon contact of the clay with the liquid solution to thereby effect a swelling of the clay.

2,320,955
SEAT COVER PACKAGE
John C. Thomasma, Chicago, Ill.
Application May 20, 1939, Serial No. 274,773
9 Claims. (Cl. 206—57)

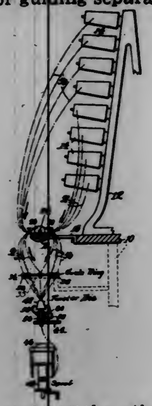


1. A sanitary paper pack of disposable toilet seat covers comprising an apertured disposable supporting backing; a plurality of separable superposed sheets, said sheets overlying and straddling each other and being folded transversely so that the lower edge of the innermost sheet is exposed for gripping engagement, each of said sheets having a plurality of slits defining a central tearable portion thereof adapted to depend from the main body of the sheet when torn from the pack; and staples extending through said sheets and said backing at points substantially between the spaced ends of said slits and connecting said sheets and said supporting backing; the pulling away of the innermost of said transversely folded nested sheets being adapted to form tears joining the ends of said slits to permit said central slit-defined portion to depend from the main body of the cover.

2,320,956
ATTACHMENT FOR CONVERTING DRY TWISTERS INTO WET TWISTERS
John E. Turcotte, Worcester, Mass.
Application May 26, 1942, Serial No. 444,555
15 Claims. (Cl. 57—35)

1. In a dry twisting machine comprising a frame, a separator ring, and a twister die, that improvement which comprises a bracket on said frame, a liquid-holding receptacle mounted on said bracket substantially directly over the separator ring, rollers in said receptacle, and indi-

vidual thread guides mounted at each side of said receptacle for guiding separated threads into



one side thereof and out the other side in separate condition to said ring.

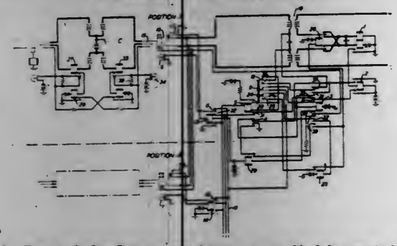
2,320,957

TELEPHONE SIGNALING SYSTEM

Horace W. Ulrich, Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 10, 1941, Serial No. 422,305

3 Claims. (Cl. 179—57)



1. In a telephone system, a switchboard having a plurality of operators' positions, a line, an appearance of said line at more than one of said positions, a multiple line signal associated with each line appearance, cord circuits for connecting to said line at any appearance thereof, means responsive to seizure of said line at the distant end for energizing all of the associated line signals, means responsive to the connection of a cord with said line at any appearance for deenergizing all of said line signals, and means thereafter effective in response to a disconnection and reseizure of said line at the distant end prior to disconnection of said cord circuit therefrom to reenergize the line signal associated with the connected jack appearance but to prevent energization of the remaining multiple signals of the line.

2,320,958

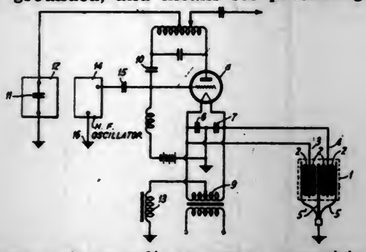
THYRITE PROTECTIVE DEVICE

George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application October 2, 1936, Serial No. 103,643, now Patent No. 2,201,211, dated May 21, 1940. Divided and this application February 27, 1940, Serial No. 320,984

4 Claims. (Cl. 250—27)

1. In a radio device, a thermionic discharge tube having at least a pair of filament terminals, an energizing circuit connected thereto, means for effectively connecting each of said terminals to ground for radio frequency comprising a pair of condensers, each having one plate connected to one of said filament terminals and the other plate grounded, and means for protecting said



condensers from voltage surges comprising an alternate assembly of "Thyrite" discs and metallic electrodes in intimate contact with each other, the central and end electrodes of said assembly being connected together and connected to ground, and connections from each of the intermediate electrodes to said filament terminals.

2,320,959

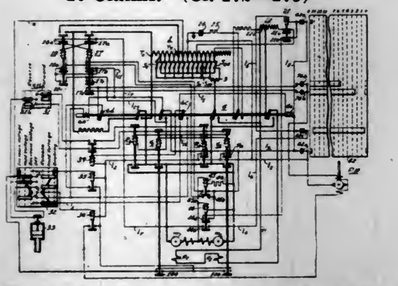
CONTROL SYSTEM FOR VEHICLES DRIVEN BY SINGLE-PHASE CURRENT

Peter Weber, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 1, 1941, Serial No. 391,291

In Germany January 25, 1940

10 Claims. (Cl. 172—179)



4. In a control system for vehicles driven by single-phase current and equipped for electric braking, the combination with a motor having an armature winding and a field winding which is separately excited during regenerative braking, and a tap-changer for connecting one armature lead of the motor to various taps of a transformer, of a pair of contactors for connecting the other armature lead to one of a plurality of taps of the transformer independently of said tap-changer, a voltage relay for controlling the operation of said contactors, one of said contactors being controlled by a break-contact of the relay and the other contactor being controlled by a make-contact of the relay, the actuating coil of the relay being energized by the electro-motive force induced in the armature winding of the separately excited traction motor prior to the establishment of the main braking circuit, a contactor for closing the circuit for separately exciting the traction motor field, another voltage relay whose armature is actuated by a comparatively low voltage in the armature

winding of the motor, said second voltage relay having a make-contact that is inserted in a holding circuit for the closing coil of said field circuit contactor, a controller for controlling the operation of said tap-changer, and a snap-action-contact actuated when said controller starts to move from the zero position towards the braking positions to close the closing-coil circuit of said field-circuit contactor, whereupon said closing-coil circuit remains closed through the contact on said auxiliary relay whose actuating coil is energized by the electro-motive force of the traction motor.

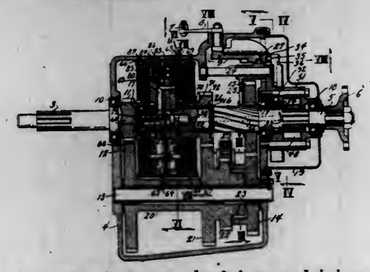
2,320,960

TRANSMISSION CONTROL

Estel O. Wheaton, Toledo, Ohio, assignor to Kelly-Wheaton Company, Toledo, Ohio, a corporation of Ohio

Application December 15, 1938, Serial No. 245,835

18 Claims. (Cl. 74—336.5)



1. A transmission embodying a driving shaft, a driven shaft, gearing therebetween including an intermediate shaft parallel to the driven shaft, a shiftable control to affect transmission connection from the intermediate shaft, a hydraulic control thereby to affect functioning change in transmission connection between the driving and driven shafts by varying the interconnection relation of said gearing, a clutch device functioning in response to said hydraulic control manually controllable means for modifying the hydraulic control, and a driven shaft responsive fluid supply for the hydraulic control, there being a duct axially of the driven shaft providing communication between the supply and the hydraulic control.

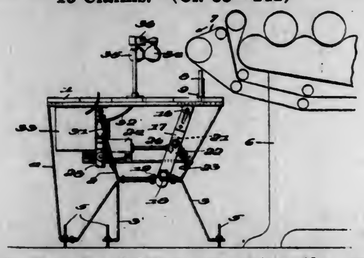
2,320,961

LAUNDRY TABLE

Percy E. Whitcomb, Elgin, and Oran T. McIlvaine, St. Charles, Ill.

Application May 12, 1939, Serial No. 273,326

15 Claims. (Cl. 38—141)



13. In laundry folding apparatus, the combination of means for advancing a plurality of articles to be assembled and having a distinctive marker for advance with the articles, means having receiving surfaces for said articles and marker, a source of radiant energy associated with the receiving surface for the marker, means including means responsive to material variations in the radiations from said source as controlled by the presence of the marker for jointly moving the articles and the marker from the respective surfaces and means for returning said moving means to its initial position upon movement of the marker out of said control position.

2,320,962

TREATMENT OF COPPER-OXIDE RECTIFIERS WITH NITROGEN

Earl D. Wilson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application September 26, 1941, Serial No. 412,423

6 Claims. (Cl. 175—366)

1. The method of manufacturing rectifier elements which comprises oxidizing copper at a temperature somewhat below its melting point for a substantial period, immersing the oxidized element in an atmosphere of nitrogen at a temperature somewhat below its melting point, and thereafter cooling the element.

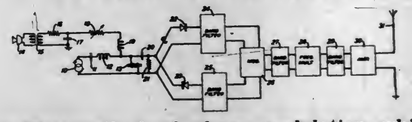
2,320,963

PHASE MODULATION

Leishman R. Wrathall, River Edge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 4, 1941, Serial No. 417,811

6 Claims. (Cl. 179—171.5)



1. The method of phase modulation which comprises superimposing a signal oscillation on a sinusoidal carrier oscillation of relatively greater amplitude, deriving from the resulting complex oscillation a train of impulses, alternately positive and negative, occurring at the instants of zero value of the said complex oscillation, separating the positive and the negative impulses, selecting from the separated impulses two oscillations of different frequencies corresponding to different harmonics of the carrier oscillation, modulating the amplitude of one of said selected oscillations by the other selected oscillation, and selecting from the resulting amplitude modulated wave the component oscillation of frequency corresponding to the frequency difference of the said selected harmonic oscillations.

2,320,964

SAFETY AIR NOZZLE

Harry A. Yates, Fairfield, Conn.

Application October 27, 1942, Serial No. 463,548

6 Claims. (Cl. 15—155)



1. In a safety air nozzle for removing chips or the like from a machine surface or the like,

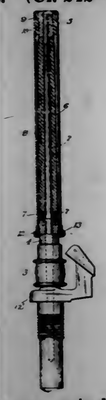
a nozzle member having an air passage terminating at its forward end in an air jet nozzle adapted to direct an air jet upon said machine surface against said chips or the like to move them from said machine surface, and said nozzle member having an additional air passage terminating in an annular slot directed forwardly and outwardly in surrounding spaced relation to said air jet nozzle and adapted to direct a substantially conical protective shield of air upon said machine surface in completely laterally surrounding relation to the air jet directed by said air jet nozzle, whereby said chips or the like moved by said air jet are substantially prevented from penetrating beyond said shield of air at all points between said machine surface and said nozzle member.

2,320,965

BOBBIN FOR SPINNING FRAMES

Louis M. Cotchett, Hingham, Mass., and John A. Kennedy, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass., a corporation of Maine

Application March 26, 1941, Serial No. 385,286
8 Claims. (Cl. 242—122)



1. A spinning frame spindle comprising a spindle blade provided with an acorn and a tip, both larger in diameter than the blade and rigid therewith, and a base in which said blade is mounted for rotation around its own axis, said spindle also including a tapered film section between said acorn and said tip, the outer surface of which section approximately merges with those of said acorn and said tip, the smaller end of said tapered section being uppermost.

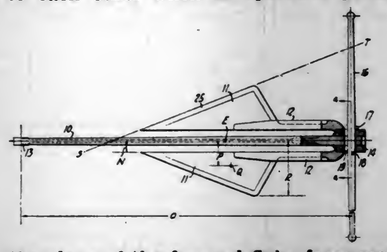
2,320,966

TWIN FLUKE ANCHOR

Richard S. Danforth, Berkeley, Calif.

Original application March 13, 1939, Serial No. 261,617. Divided and this application April 1, 1941, Serial No. 386,387
14 Claims. (Cl. 114—208)

3. An anchor of the twin fluke type comprising a shank having a forward and an after end with a point of cable attachment at said forward end, a stock at said after end, a pair of flukes each having a major forward portion thereof substantially triangular in outline, a crown adjacent the after end of said flukes having ground engaging portions thereon raised above the plane of the fluke faces to lift said shank after end off the ground and thereby rotate the flukes to engage the ground, and a pivot mounting said flukes on said shank at said after end with said shank between said flukes, said flukes simultaneously engaging the ground in a substantially common plane when in operative position, said shank and flukes being so proportioned and positioned relative to each other when in operative position



that the plane of the forward fluke faces makes an angle in the range of 20° to 35° to said shank, the combined area of said fluke forward faces having a ratio to the sum of the longitudinal stock area and crown area, as herein defined, greater than 0.75 to 1.

2,320,967

MECHANICAL FINGER GRIPPING DEVICE

Milton S. Dunkelberger, Dayton, Ohio, assignor to The American Display Company, Dayton, Ohio, a corporation of Ohio

Application April 2, 1942, Serial No. 437,389
5 Claims. (Cl. 294—100)



1. A mechanical finger gripping device including a tubular supporting member, a rod mounted for reciprocatory movement in the tubular supporting member, a pair of gripper jaws pivotally attached to the rod, said gripper jaws projecting beyond the tubular supporting member, each of said gripper jaws being characterized by an arcuate portion merging into a pair of flattened areas terminating in a pair of lobular portions, the lobular portions being disposed in a plane substantially normal to the longitudinal axis of the tubular supporting member when the gripper jaws are in closed position, said flattened areas forming angled seats adapted to hold nuts and the like.

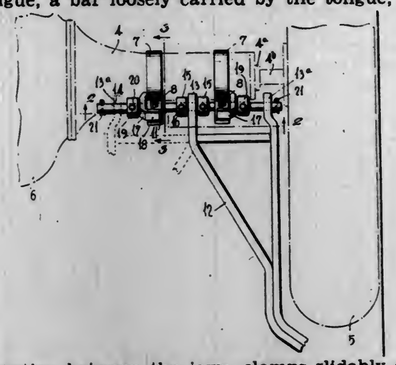
2,320,968

QUICK DETACHABLE COUPLING

Gerald Geraldson, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation

Application August 8, 1941, Serial No. 406,042
12 Claims. (Cl. 280—33.15)

1. In combination with the axle of a tractor, a pair of collars, means to clamp the collars on the axle, jaws on the collars, an implement tongue, a bar loosely carried by the tongue, for



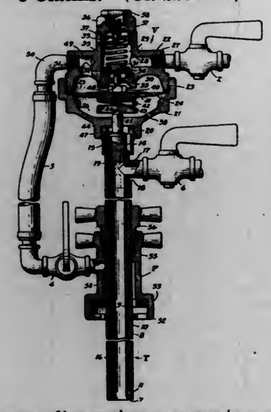
insertion between the jaws, clamps slidably carried on the bar and means on the bar to hold the clamps over the jaws.

2,320,969

APPARATUS FOR AUTOMATICALLY CONTROLLING GAS PRESSURE ON BEVERAGES

Wallace R. Kromer and Harvey F. Elliott, Cleveland, Ohio, assignors to The Kromer-Niernan Company, Cleveland, Ohio, a corporation of Ohio

Application November 13, 1940, Serial No. 365,480
8 Claims. (Cl. 225—17)



1. Beverage dispensing apparatus comprising a storage receptacle for the beverage, a multiple metallic tap rod extending into the receptacle and having one end immersed in the beverage for withdrawing the same as desired, a pressure regulating valve and means connecting the same to the receptacle for supplying gas under variable pressure to the latter, and means connecting the valve to different parts of the tap rod to govern the valve in response to relative expansion and contraction of said parts of the rod.

2,320,970

SOLVENT EXTRACTION OF TUNG OIL

Arthur C. Lansing, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application March 10, 1941, Serial No. 382,576
5 Claims. (Cl. 260—412.4)

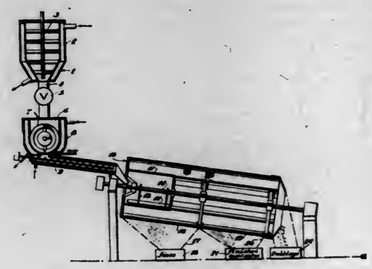
1. A process for obtaining tung oil from tung nuts, which comprises extracting tung nut meats with a volatile organic solvent containing a major proportion of a lower aliphatic ketone, and a minor proportion of a lower aliphatic alcohol, and separating the solvent from the resulting extract by distillation, at least the final portion of said distillation being effected under vacuum.

2,320,971

METHOD OF MAKING EXPLOSIVES

Milton F. Lindsley, Jr., Kings Mills, Ohio, assignor to The King Powder Company, Kings Mills, Ohio, a corporation of Ohio

Application May 24, 1939, Serial No. 275,497
8 Claims. (Cl. 52—19)



1. A method for making granular ammonium nitrate explosives which process comprises dividing the components of which a balanced explosive composition is to be made, into groups comprising respectively, substantially dry meltable components, including ammonium nitrate, and substantially dry non-meltable components, heating the meltable components in the absence of any substantial quantity of water until they reach fluid condition, at a temperature less than the temperature at which they decompose, then mixing the dry non-meltable and melted components thereby obtaining a plastic mass substantially devoid of water, and finally forming the plastic mass into grains.

2,320,972

EXPLOSIVE COMPOSITION

Milton F. Lindsley, Jr., Kings Mills, Ohio, assignor to The King Powder Company, Kings Mills, Ohio, a corporation of Ohio

No Drawing. Application July 11, 1940, Serial No. 344,957
2 Claims. (Cl. 52—15)

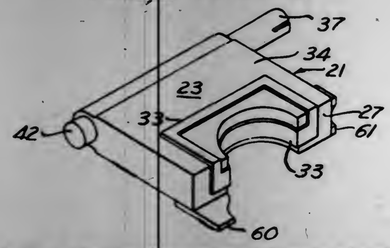
1. A detonating explosive comprising a mass of discrete grains each constituting a balanced explosive composition and comprising a crystalline substance including a substantial quantity of ammonium nitrate as a continuous phase, and fuel and oxidizing agents residing within the continuous phase as inclusions, the external portions of said grains being of a hard and dense nature and having metallic sensitizer intimately associated therewith to the extent of from approximately ½ to 2% by weight of the grains as a whole, while the interior portion of each grain is porous and permeated with cracks and fissures and is substantially insensitive, the sensitivity of the mass of grains as a whole being as high as 50 centimeters as determined by the halved cartridge method using 1¼ by 8 inch cartridges.

2,320,973
PUMP PISTON
John W. MacClatchie, Los Angeles, Calif., assignor to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California
Application October 7, 1940, Serial No. 360,092
2 Claims. (Cl. 309—4)



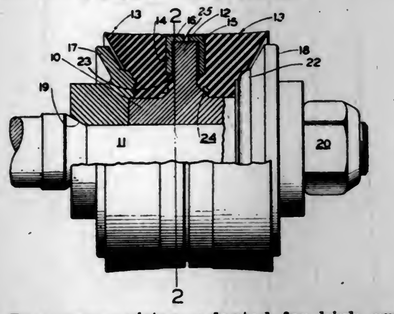
2. In a pump piston, a hub, a radially projecting flange medial of the length of said hub and fixed against longitudinal displacement relative thereto, annular packing elements mounted on the hub with the radially projecting flange forming a longitudinal backing for the packing elements, each of the inner ends of said packing elements having reinforcement material, an enlarged portion adapted to be compressed on assembly to aid the sealing of said member with respect to said radially projecting flange and an annular groove in said enlarged portion, the sides of said grooves adjacent said radially projecting flange being adapted to be expanded by fluid pressure to seal off said packing members and said flange, and followers for securing the packing elements against the radially projecting flange, the outer ends of said followers being at least as far out radially as the inner ends of said reinforcement material.

2,320,974
BLOWOUT PREVENTER
John W. MacClatchie, Los Angeles, Calif., assignor to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California
Application August 18, 1941, Serial No. 407,345
2 Claims. (Cl. 251—18)



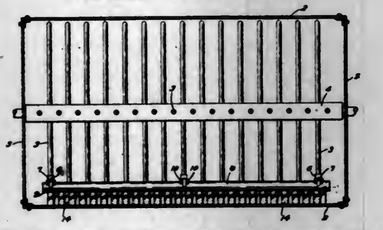
1. In a blowout preventer, a housing having a passageway therethrough adapted to communicate with a well bore, a pair of shafts extending into said housing, a pair of closure elements in said housing mounted on said shafts for movement into said passageway, said elements having surfaces thereon for engaging the wall of the housing to seal therewith and abutment surfaces adapted to contact each other to form a seal when said closure elements are moved into said passageway, said abutment surfaces having complementary recesses for receiving an object extending through said passageway and forming a seal therewith, cam like centering members carried by said closure elements offset from said abutment surfaces and arranged to engage the object extending through said passageway and move it into alignment with said recesses as said closure elements move into contacting position.

2,320,975
PISTON
John W. MacClatchie, Los Angeles, Calif., assignor to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California
Application December 30, 1941, Serial No. 424,886
7 Claims. (Cl. 309—4)



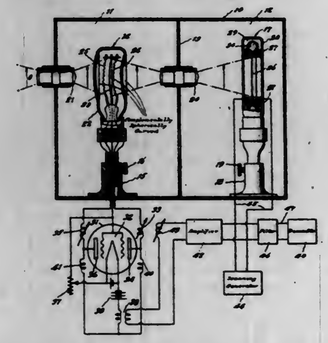
3. In a pump piston, adapted for high pressure operations, a hub, a radially projecting flange medial of the length of said hub and fixed against longitudinal displacement relative thereto, annular packing elements mounted on the hub with the radially projecting flange forming a longitudinal backing for the packing elements, each of the inner ends of said packing elements having a metallic reinforcement plate and having an annular groove, the sides of said grooves adjacent said radially projecting flange being adapted to be expanded by fluid pressure to seal off said packing members and said flange, secondary seals between said packing members and said flange, and followers for securing the packing elements against the radially projecting flange, the outer ends of said followers being at least as far out radially as the inner ends of said reinforcement material.

2,320,976
CLEANING DEVICE FOR MIXING OR AGITATING VESSELS
John C. McCartney, Lancaster, and Harry R. Jaynes, Manheim Township, Lancaster County, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application December 12, 1940, Serial No. 369,788
8 Claims. (Cl. 259—109)



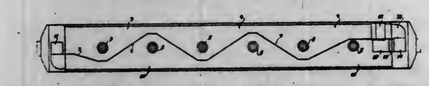
1. In a scraping device for attachment to agitators of a generally cylindrical mixing or agitating vessel, the combination of a cylindrical tube adapted to engage arms disposed on the agitators, spaced pins on said tube adapted to be disposed adjacent the arms of the agitators to prevent substantial longitudinal movement of said tube, a plate integrally united with said tube, clamp members secured to said plate, and a plurality of staggered, overlapping flexible blades securely held between said plate and said clamp members adapted to scrape the wall of the vessel, said blades being adapted to be held in flexed condition by the wall, attempted expansion of said blades holding said tube in engagement with the agitator arms.

2,320,977
PHOTOELECTRIC TUBE AND CIRCUIT
Alexander McLean Nicolson, New York, N. Y., assignor to Communication Patents, Inc., New York, N. Y., a corporation of Delaware
Original application January 29, 1938, Serial No. 187,758, which is a division of application Serial No. 466,079, July 7, 1930. Divided and this application August 2, 1940, Serial No. 349,605
5 Claims. (Cl. 250—41.5)



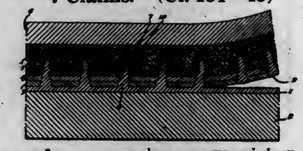
1. In a photoelectric device, the combination of a photoelectric cell having a non-linear characteristic and including a translucent cathode, photosensitive material on the opposite surfaces of said cathode, the said material on one surface of said cathode being activated by radiations of the visible spectrum, the said material on the opposite side of said cathode being activated by actinic radiations, and amplifying means electrically connected to said cathode and responsive to the activation of said material.

2,320,978
AIR CONDITIONING SYSTEM UTILIZING REFRIGERATION
Robert T. Palmer, Sharon, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application June 21, 1940, Serial No. 341,601
3 Claims. (Cl. 62—117)



1. An air conditioning system for a passenger vehicle, comprising a plurality of fans spaced longitudinally of the vehicle, means including a partition extending longitudinally of said vehicle dividing said fans into two groups, an air cooler connected to one of said groups, a recirculated air passage and an outdoor air passage connected to said cooler, an outdoor air passage connected to the other of said groups, refrigeration supply means for said cooler, and means including a thermostat for deenergizing the fans of said other of said groups and for energizing said supply means and for throttling the supply of outdoor air through said first mentioned outdoor air passage and for admitting air from said recirculated air passage into said cooler.

2,320,979
DECORATIVE BUILDING MATERIAL
Philip H. Pennell, Belmont Manor, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application July 18, 1940, Serial No. 346,135
7 Claims. (Cl. 154—43)

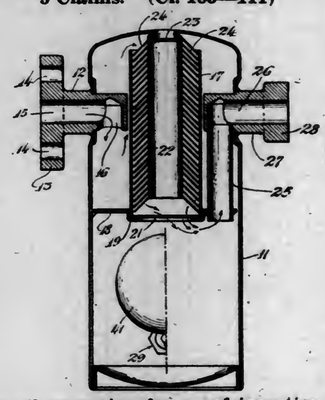


1. A surface covering comprising a felted fibrous supporting layer, a decorative layer upon one face thereof, a backing coating upon the other face thereof, said coating having the characteristic of affording a low strength bond with an adhesive by which the covering is secured in use, the covering having perforations extending through said backing coating and into said felted fibrous supporting layer for providing a mechanical bond between said covering and said adhesive.

2,320,980
MANUFACTURE OF NEUTRAL BLANC FIXE
James B. Pierce, Jr., Charleston, W. Va.; The First National Bank of Tampa, Fla., executor of said James B. Pierce, Jr., deceased
No Drawing. Application September 28, 1940, Serial No. 358,926
9 Claims. (Cl. 23—122)

1. The method of making a substantially neutral barium sulphate which comprises acidifying an aqueous slurry of an alkaline-reacting barium sulphate, having a pH value in excess of 7.5, with a sufficient amount of a normally non-volatile organic acid, which is decomposable at a temperature not substantially exceeding 200° C., to produce a pH value in the slurry in excess of 4 and less than 6, then recovering the barium sulphate from the slurry and drying the same at an elevated temperature and sufficiently high to eliminate the excess acid therefrom.

2,320,981
OIL SEPARATOR FOR REFRIGERATION SYSTEMS
Axel E. Ramclow, Chicago, Ill., assignor to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application August 3, 1940, Serial No. 350,249
5 Claims. (Cl. 183—111)



1. An oil separator for a refrigeration system

comprising a tank having inlet and outlet openings on opposite sides thereof, an oil separating element comprising a shell through which the compressed refrigerant is directed in passing from said inlet opening to said outlet opening, and a large number of spines extending transversely of said shell in the path of movement of the compressed refrigerant therethrough, said shell being open at the bottom whereby oil separated from the compressed refrigerant by impingement thereof upon said spines may drain downwardly through and out of said shell, and an oil receptacle beneath said shell for receiving such oil.

2,320,982

PROCESS FOR PRESERVING FOODS

Duryea Bensel, Los Angeles, Calif., assignor to Bensel-Brice Corporation, Los Angeles, Calif., a corporation of California

Original application July 31, 1940, Serial No. 348,872, which is a continuation of application Serial No. 270,111, April 26, 1939. Divided and this application January 9, 1941, Serial No. 373,787

5 Claims. (Cl. 99—186)



1. The process of preserving food products which comprises the steps of placing the food product in an inner container composed of a flexible base sheet coated with a flexible, impervious coating; hermetically sealing the food product in the inner container; placing the filled and sealed inner container in a cooking container, the internal walls of which will confine the inner container against rupture due to expansion of the inner container caused by cooking the contents of said sealed inner container; sealing the cooking container air and water tight; and subjecting the cooking container to temperatures sufficient to cook the food product within the inner container.

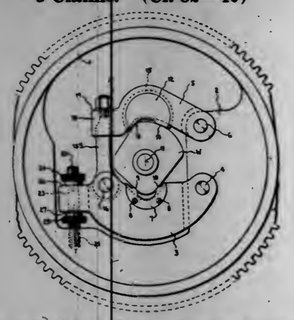
2,320,983

CRANKSHAFT CHUCK

William F. Groene and Walter R. Meyer, Cincinnati, Ohio, assignors, by mesne assignments, to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware

Application October 23, 1939, Serial No. 300,810

5 Claims. (Cl. 82—40)



1. In a chucking device for machine tools, a rotary work spindle, a floating work gripping member mounted on said work spindle for movement in a plane perpendicular to the axis of rotation of said work spindle, and positive locking means effective in a plane perpendicular to said axis of rotation to fix said work gripping member positively to said work spindle.

2,320,984

LUBRICATING COMPOSITION

Carl F. Prutton, East Cleveland, Ohio, assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application December 4, 1934, Serial No. 755,987

15 Claims. (Cl. 252—53)

1. A lubricant compound of high film strength and lower coefficient of friction, over a significant range of working conditions, than any one of its constituents or any two of its constituents combined, comprising a major proportion of mineral lubricating oil, a minor proportion of a substantially neutral, body of oil-film strengthening, oil-soluble, aromatic hydrocarbon having chlorine in chemical combination therewith of the type illustrated by chlor-naphthalene and chlor-diphenyl, said body substantially nonvolatile at ordinary temperatures, and a minor proportion of another body of friction-reducing, oil-soluble organic compound having oxygen in saponifiable chemical combination therewith, the total proportion of said bodies being within the limit of their combined solubility in said lubricating oil.

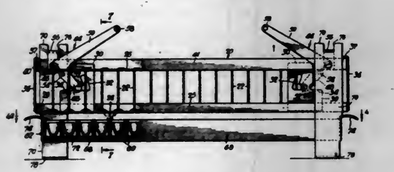
2,320,985

METHOD OF PACKAGING FROZEN CONFECTIONS

Leo D. Overland, Brooklyn, N. Y., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware

Original application November 20, 1940, Serial No. 366,410. Divided and this application December 30, 1941, Serial No. 424,875

1 Claim. (Cl. 107—54)



The method of harvesting and packaging a plurality of frozen confectionery units simultaneously into a plurality of open boxes each having a closure flap provided with an integral extending flange which comprises the steps of arranging a plurality of the boxes in a holding tray in a side by side position with their respective closure flaps with the exception of one of the end boxes being folded backwardly along the adjacent side of the box with its extending flange being folded normally outwardly under the next adjacent box, positioning a portable carrier having a plurality of spaced rows of spaced confectionery units depending therefrom over said opened boxes in such a manner that each transverse row of confectionery units is aligned with one of said boxes, releasing all of the confectionery units simultaneously from said carrier whereby each row is deposited in its aligned box, removing the filled boxes from the holding tray, and then closing said boxes by positioning said closure flaps and extending flanges in their respective closed positions.

2,320,986

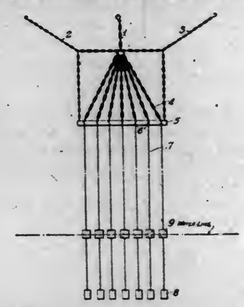
MINE SWEEPER

Sidney D. Redmond, Jackson, Miss.

Application February 19, 1940, Serial No. 319,795

1 Claim. (Cl. 114—221)

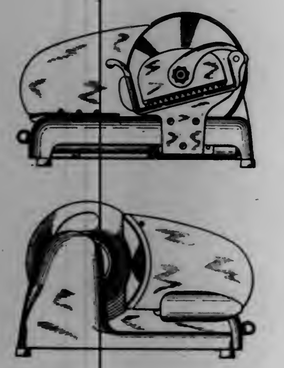
In a mine sweeper for attachment to and for disposing in depending relation with respect to a towing craft, said sweeper including a skeleton structure formed of a bar, a series of flexible members attached to and extending from one side of the said bar and other spaced flexible members attached to said series of members and adapted to be connected to the craft, and a plurality of spaced elongated parallel flexible independent sweeps attached at one end to and extending from the other side of the said bar and each being provided at its other end with a detecting metallic plate and intermediate its ends with a float for suspending the plate.

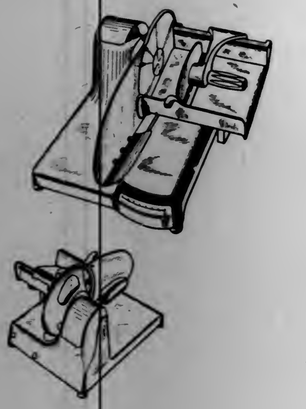


DESIGNS

JUNE 1, 1943

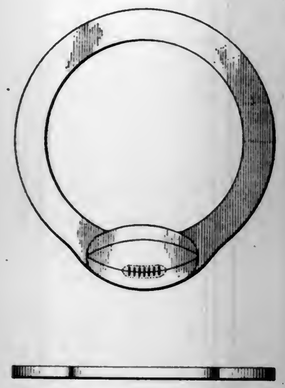
135,739
DESIGN FOR A SLICING MACHINE
Egmont H. Arens, New York, N. Y., and Theodore C. Brookhart, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application August 22, 1942, Serial No. 108,002
Term of patent 14 years





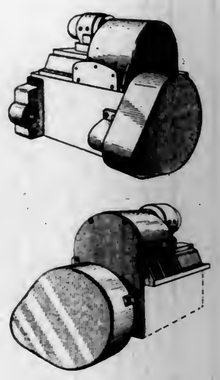
The ornamental design for a slicing machine substantially as shown and described.

135,740
DESIGN FOR A TOSSING RING
Benjamin D. Hodge, Houston, Tex.
Application March 11, 1943, Serial No. 109,724
Term of patent 14 years



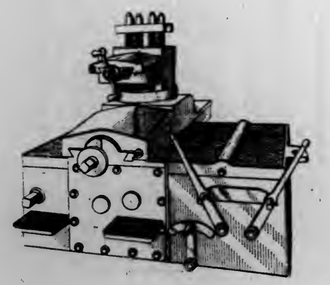
The ornamental design for a tossing ring, as shown.

135,741
DESIGN FOR A HOUSING FOR RAPID TRAVERSE MECHANISM FOR LATHES
William M. McConnell, McKeesport, Pa., assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa., a corporation of Delaware
Application August 21, 1942, Serial No. 107,984
Term of patent 14 years



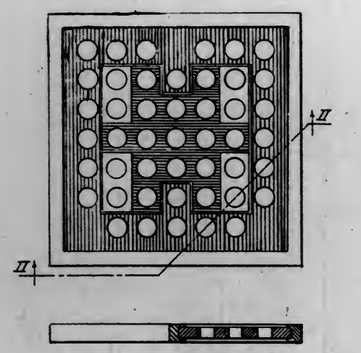
The ornamental design for a housing for rapid traverse mechanism for lathes, substantially as shown and described.

135,742
DESIGN FOR A LATHE CARRIAGE
William M. McConnell, McKeesport, Pa., assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa., a corporation of Delaware
Application August 21, 1942, Serial No. 107,987
Term of patent 14 years



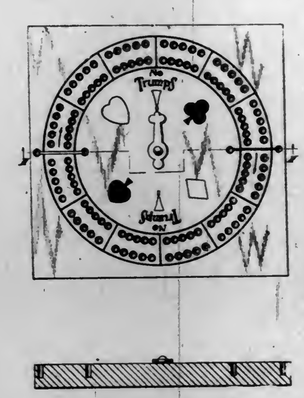
The ornamental design for a lathe carriage, substantially as shown and described.

135,743
DESIGN FOR A PUZZLE BOARD
John A. Nevin, Wichita, Kans.
Application June 24, 1942, Serial No. 107,322
Term of patent 3½ years



The ornamental design for a puzzle board, as shown and described.

135,744
DESIGN FOR A COMBINED SCORING BOARD AND TRUMP-CARD INDICATOR
Richard Gerald Pavey, Seven Kings, England
Application August 12, 1942, Serial No. 107,887
In Great Britain March 23, 1942
Term of patent 14 years



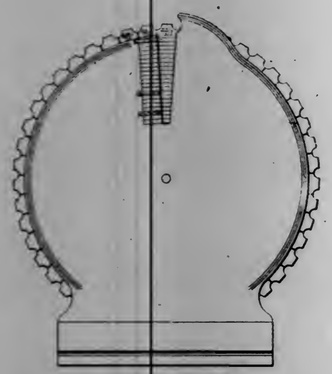
The ornamental design for a combined scoring board and trump-card indicator, as shown, and described.

135,745
DESIGN FOR A LIPSTICK HOLDER
Howard L. Ross, New York, N. Y.
Application April 1, 1943, Serial No. 109,886
Term of patent 7 years



The ornamental design for a lipstick holder, substantially as shown.

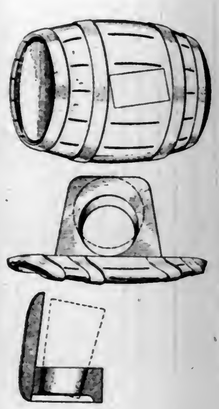
135,746
DESIGN FOR A PLACARD OR THE LIKE
Herbert M. Wertz, Toledo, Ohio, assignor to The Toledo Steel Products Company, Toledo, Ohio, a corporation of Ohio
Application December 31, 1942, Serial No. 109,168
Term of patent 7 years





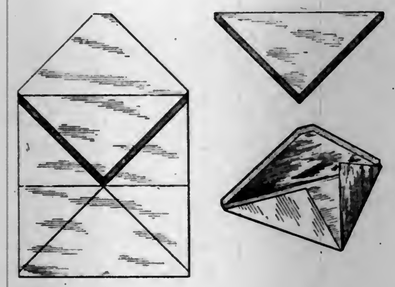
The ornamental design for a placard or the like, as shown and described.

135,747
DESIGN FOR A HOLDER FOR BEER FOAM SCRAPERS
Joseph Austin, Hartsdale, N. Y., assignor to The F. & M. Schaefer Brewing Company, Brooklyn, N. Y., a corporation of New York
Application March 22, 1943, Serial No. 109,795
Term of patent 14 years



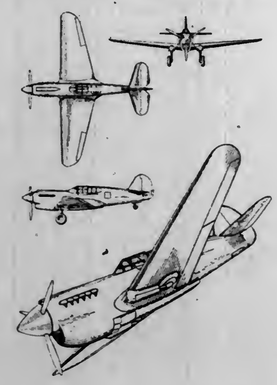
The ornamental design for a holder for beer foam scrapers, substantially as shown and described.

135,748
DESIGN FOR A COMBINED MESSAGE SHEET AND ENVELOPE
Frederick W. Baumgartner, Kansas City, Mo.
Application March 30, 1942, Serial No. 106,389
Term of patent 3½ years



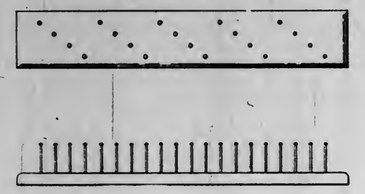
The ornamental design for a combined message sheet and envelope, as shown.

135,749
DESIGN FOR AN AIRPLANE
Donovan R. Berlin, Detroit, Mich.
Application September 30, 1942, Serial No. 108,363
Term of patent 3½ years



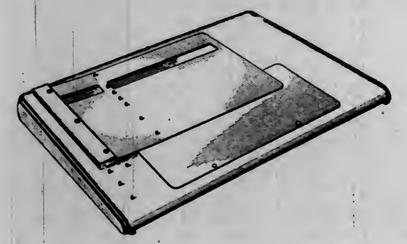
The ornamental design for an airplane as shown.

135,750
DESIGN FOR A NECKTIE-RACK OR THE LIKE
Abe R. Brothers, Brooklyn, N. Y.
Application January 15, 1943, Serial No. 109,268
Term of patent 14 years

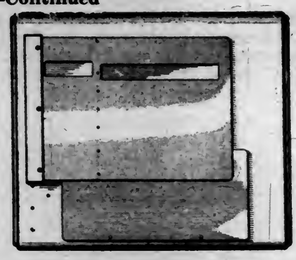


The ornamental design for a necktie rack or the like, substantially as shown.

135,751
DESIGN FOR AN APPARATUS FOR COLLATING AND POSTING BUSINESS FORMS
Richard C. Browne, Rochester, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a corporation of New York
Application March 8, 1943, Serial No. 109,696
Term of patent 14 years



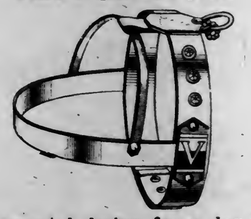
135,751—Continued





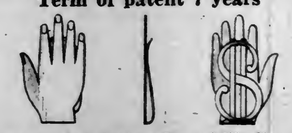
The ornamental design for an apparatus for collating and posting business forms, substantially as shown.

135,752
DESIGN FOR A DOG HARNESS
Thomas L. Curtis, Utica, N. Y.
Application June 20, 1942, Serial No. 107,270
Term of patent 7 years



The ornamental design for a dog harness, as shown and described.

135,753
DESIGN FOR A BILL CLIP
Harold Graeter, New York, N. Y., assignor to Cartier, Inc., New York, N. Y., a corporation of New York
Application March 30, 1943, Serial No. 109,874
Term of patent 7 years



The ornamental design for a bill clip, as shown.

135,754
DESIGN FOR A PATRIOTIC BADGE
Ray M. Mason, Lemont, Ill.
Application August 13, 1942, Serial No. 107,930
Term of patent 7 years



The ornamental design for a patriotic badge, as shown.

135,755
DESIGN FOR A PATRIOTIC BADGE
Ray M. Mason, Lemont, Ill.
Application August 13, 1942, Serial No. 107,931
Term of patent 7 years



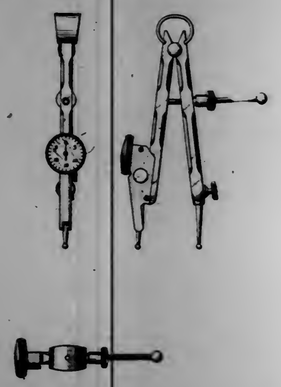
The ornamental design for a patriotic badge, as shown.

135,756
DESIGN FOR A PAPER WEIGHT
John J. Morris, New York, N. Y.
Application November 23, 1942, Serial No. 108,851
Term of patent 14 years



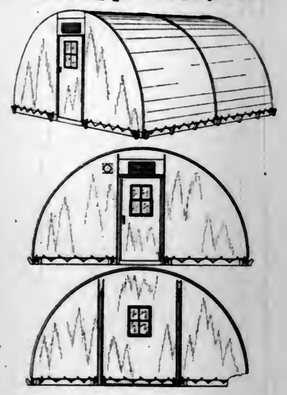
The ornamental design for a paper weight, as shown.

135,757
DESIGN FOR INDICATING CALIPERS
Peter N. Nelson, Chicago, Ill., assignor to Micro-Master Company, Chicago, Ill., a corporation of Illinois
Application January 6, 1943, Serial No. 109,208
Term of patent 14 years



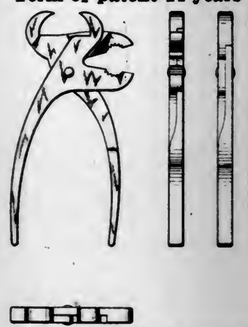
The ornamental design for indicating calipers, substantially as shown.

135,758
DESIGN FOR A PORTABLE BUILDING
Arthur E. Waterman, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a company of Wisconsin
Application October 8, 1942, Serial No. 108,465
Term of patent 14 years



The ornamental design for a portable building, as shown.

135,759
DESIGN FOR A COMBINATION TOOL
Arthur H. Wiljamaa, Tower, Minn.
Application March 12, 1942, Serial No. 106,179
Term of patent 14 years



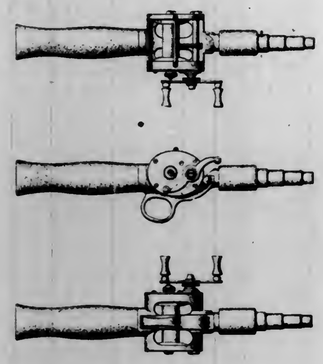
The ornamental design for a combination tool, as shown.

135,760
DESIGN FOR A BOOTEE
William A. Clark, St. Louis, Mo., assignor to W. L. M. Clark, Inc., St. Louis, Mo., a corporation of Missouri
Application November 30, 1942, Serial No. 108,913
Term of patent 7 years



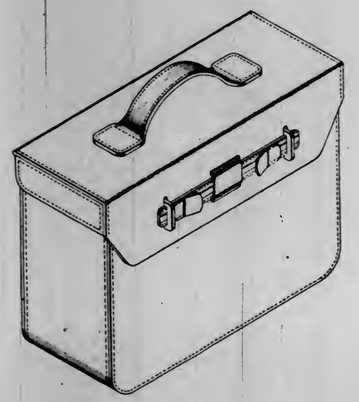
The ornamental design for a bootee, substantially as shown and described.

135,761
DESIGN FOR A COMBINED FISHING ROD HANDLE AND REEL
Thomas C. Fanshier, Oklahoma City, Okla.
Application June 8, 1942, Serial No. 107,157
Term of patent 14 years



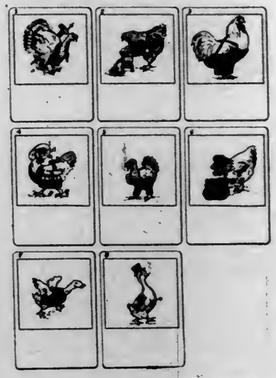
The ornamental design for a combined fishing rod handle and reel, as shown.

135,762
DESIGN FOR A CAMERA CARRYING CASE
Frederic S. Grover, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application April 1, 1943, Serial No. 109,881
Term of patent 7 years



The ornamental design for a camera carrying case, substantially as shown and described.

135,763
DESIGN FOR A SET OF PLAYING CARDS
Ernest H. Kieser, Toledo, Ohio, assignor to Kasco Mills, Inc., Toledo, Ohio, a corporation of Ohio
Application April 19, 1943, Serial No. 110,003
Term of patent 14 years



The ornamental design for a set of playing cards, as shown and described.

135,764
DESIGN FOR A BOWLING SIGN
John A. Rohan, Jr., St. Louis, Mo., assignor to Regina Bowling Alley Corporation, St. Louis, Mo., a corporation of Missouri
Application January 30, 1942, Serial No. 105,523
Term of patent 14 years



The ornamental design for a bowling sign, substantially as shown.

135,765
DESIGN FOR A HELMET
Frederick R. Wulsin, Providence, R. I.
Application March 27, 1943, Serial No. 109,829
Term of patent 3½ years



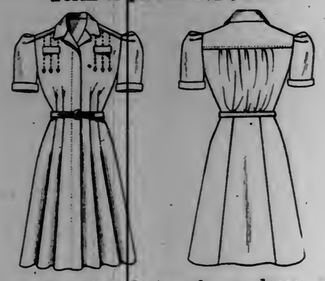
The ornamental design for a helmet, as shown.

135,766
DESIGN FOR A DRESS
George Constantine, New York, N. Y.
Application April 30, 1943, Serial No. 110,089
Term of patent 3½ years



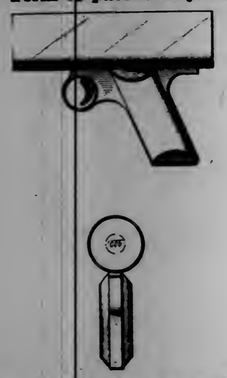
The ornamental design for a dress, substantially as shown and described.

135,767
DESIGN FOR A DRESS
Max Orloff, New York, N. Y.
Application May 1, 1943, Serial No. 110,117
Term of patent 3½ years



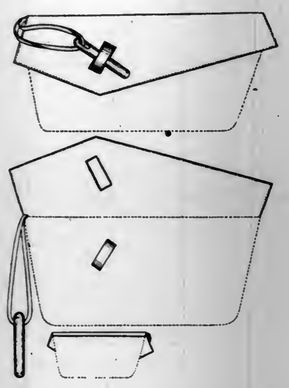
The ornamental design for a dress, substantially as shown.

135,768
DESIGN FOR A FLASH OR SIGNAL LIGHT
Raymond L. Falge, Bethesda, Md., assignor to Falge Engineering Service, Bethesda, Md.
Application March 22, 1943, Serial No. 109,796
Term of patent 14 years



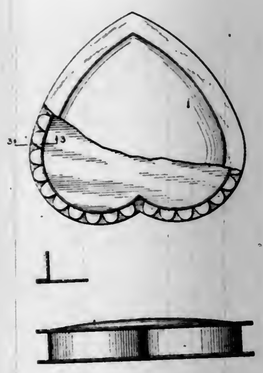
The ornamental design for a flash or signal light, as shown.

135,769
DESIGN FOR A HANDBAG
Ida Jolles, New York, N. Y.
Application May 4, 1943, Serial No. 110,116
Term of patent 3½ years



The ornamental design for a handbag, substantially as shown and described.

135,770
DESIGN FOR A CANDY BOX
Eugene B. Rice, Denver, Colo.
Application August 8, 1942, Serial No. 107,848
Term of patent 7 years



The ornamental design for a candy box, as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Ace Sales Corporation, New York, N. Y. Shoe-shining outfits. 441,597; June 1. Class 4.
Ace Sales Corporation, New York, N. Y. Shoe-shining outfits. Serial No. 459,186; June 1. Class 4.
Aero Supply Mfg. Co. Inc., Corry, Pa. Steel washers, tube clamps, conduit clamps, etc. Serial No. 459,187; June 1. Class 13.
Airadio, Incorporated, Stamford, Conn. Radio receivers, transmitters, electrical sound recording equipment, etc. Serial No. 456,330; June 1. Class 21.
Akoun, Huguette J., New York, N. Y. Poems and songs. Serial No. 454,491; June 1. Class 38.
Allen, Thomas D., New York, N. Y. Laxatives. Serial No. 458,322; June 1. Class 6.
American Chemical Paint Company, Ambler, Pa. Hormone spray. Serial No. 459,355; June 1. Class 6.
Ansul Chemical Company, Marinette, Wis. Refrigerants and chemical fumigants, etc. Serial No. 459,459; June 1. Class 6.
Arkansas Company, Inc., Newark, N. J. Detergents. Serial No. 458,673; June 1. Class 4.
Bachmann Brothers, Inc., Philadelphia. Goggles. Serial No. 456,764; June 1. Class 26.
Central Madeira Corporation, New York, N. Y. Decorative articles made of linen, such as bridge, luncheon and dinner sets, etc. Serial No. 456,364; June 1; Class 42.
Chabil Products Ltd., New York, N. Y. Tablet used as a preservative. Serial No. 459,237; June 1. Class 6.
Chemical Center Corporation. Perfumes, toilet waters, face powders, etc. Serial No. 459,298; June 1. Class 6.
Chevron Watch Company. (See Sarnoff, Murray.)
Chicago Mill and Lumber Company, Chicago, Ill. Weatherproof boxes and box panels. Serial No. 459,360; June 1. Class 2.
Colorthru Chemicals. (See Hardy, Benjamin James.)
Conrad Razor Blade Co., Inc., Long Island City, N. Y. Holders made of synthetic materials. Serial No. 454,113; June 1. Class 2.
Container Corporation of America, Chicago, Ill. Toys. Serial No. 458,909; June 1. Class 22.
County Perfumery Company, Inc., The, Bloomfield, N. J. Shampoo. Serial No. 454,824; June 1. Class 6.
Cross, Mark, Company, New York, N. Y. Handbags, sewing bags, purses, etc. Serial No. 456,956; June 1. Class 3.
Dairymen's League Co-Operative Associations, Inc., New York, N. Y. Fluid milk. Serial No. 448,500; June 1. Class 46.
Delegation of Meat Packers of Poland, Inc., New York, N. Y. Canned cooked ham. Serial No. 441,313; June 1. Class 46.
De Metz, Louis Hirsch, Company, New York, N. Y. Watches, watch-movements, watchcases and parts thereof. Serial Nos. 459,362–3; June 1. Class 27.
Dempster Brothers, Incorporated, Knoxville, Tenn. Hoisting units and detachable buckets and containers therefor. Serial Nos. 442,061–2; June 1. Class 23.
Devoe & Raynolds Company, Inc., New York, N. Y. Mixed paints. Serial No. 459,738; June 1. Class 16.
Dodenhoff, William D., doing business as W. D. Dodenhoff Company, Greenville, S. C. Hydraulic shock absorbers, etc. Serial No. 458,173; June 1. Class 23.
Dominion Corset Company, Limited, Quebec, Quebec, Canada. Corsets, girdles, brassières, etc. Serial No. 458,510; June 1. Class 39.
Drug Products Co., Inc., The, Long Island City, N. Y. Antacid-adsorbent. Serial No. 459,238; June 1. Class 6.
Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Padlocks, locks, latches, etc. Serial No. 459,261; June 1. Class 25.
Edgerly, William W., doing business as Royal Palm Products, Scranton, Pa. Paint brush cleaner, japan drier, bronzing liquid, etc. Serial No. 452,855; June 1. Class 16.
Gamble Stores Incorporated, Minneapolis, Minn. Floor wax. Serial No. 452,042; June 1. Class 16.
General Chemical Company, New York, N. Y. Herbicide and weed killer having insecticidal properties. Serial No. 459,752; June 1. Class 6.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Printers' supplies made of rubber and rubber and fabric. Serial Nos. 459,074–7; June 1. Class 50.
Gsell, R. & Co., Inc., New York, N. Y. Watches and watch movements, watch cases and parts thereof. Serial No. 459,514; June 1. Class 27.
Gustin-Bacon Manufacturing Company, Kansas City, Mo. Steel pipe fittings. Serial No. 458,514; June 1. Class 13.
Hardy, Benjamin James, doing business under the name Colorthru Chemicals, New York, N. Y. Paints. Serial No. 458,937; June 1. Class 16.
Heil, Theodore, Berkeley, Calif. Ball games. Serial No. 459,874; June 1. Class 22.
Henri Foods, Inc., Long Island City, N. Y. Spaghetti dinners, mayonnaise, bouillon, etc. Serial No. 437,510; June 1. Class 46.
Hufnagel, Edward H., doing business as Norma Chemical Company, Mount Vernon, N. Y. Polish and cleaners and the like. Serial No. 457,705; June 1. Class 4.
Illinois Razor Strop Company, Chicago, Ill. Razor strops. Serial No. 456,893; June 1. Class 4.
Impervious Paper Container Corporation, Washington, D. C. Impervious paper containers. Serial No. 458,879; June 1. Class 2.
Inertol Company, Inc., Newark, N. J. Waterproofing and protective paint or enamel coating. Serial No. 458,070; June 1. Class 16.
Jablow, I., & Co., Philadelphia, Pa. Boys' shirts, pajamas, sportswear, etc. Serial Nos. 459,114–16; June 1. Class 39.
Jamieson, C. E., & Co., Detroit, Mich. Nutritive tonic. Serial No. 459,118; June 1. Class 6.
Klein Chocolate Co., Inc., Elizabethtown, Pa. Chocolate. Serial No. 458,919; June 1. Class 46.
Knox Company, The, Los Angeles, Calif. Medicinal preparation. Serial No. 459,521; June 1. Class 6.
Kroehler Mfg. Co., Naperville, Ill. Upholstered living room furniture. Serial No. 459,935; June 1. Class 32.
Lamont, Elisabeth R., doing business as Elisabeth Rae, New York and Mount Vernon, N. Y. Lotion. Serial No. 459,416; June 1. Class 6.
Letourneau, R. G., Inc., Stockton, Calif., and Peoria, Ill. Grading and earth working equipment. Serial No. 459,691; June 1. Class 23.
Livingston-Bronstein, New York, N. Y. Ladies' and misses's waists, blouses, dresses, etc. Serial No. 458,595; June 1. Class 39.
Lockwood, Lawrence A., doing business as Lawrence A. Lockwood Company, Not Inc., Chicago, Ill. Delousing leg bands for chickens. Serial No. 459,475; June 1. Class 50.
Ludlow-Saylor Wire Company, The, St Louis, Mo. Screens. Serial No. 459,225; June 1. Class 23.
Machin, Ada, New York, N. Y. Preparation for the treatment of athlete's foot. Serial No. 456,468; June 1. Class 6.
Marks and Spencer Sales Corporation, New York, N. Y. Piece goods. Serial No. 455,377; June 1. Class 42.
Monarch Cap Screw & Manufacturing Company, The, Cleveland, Ohio. Screws and bolts. Serial No. 451,916; June 1. Class 13.
Moorman Manufacturing Company, Quincy, Ill. Waterers and feeders for poultry and farm animals. Serial No. 459,477; June 1. Class 50.
Mulhens, Ferd., Inc., New York, N. Y. Complexion powder. Serial No. 459,846; June 1. Class 6.
National Shirt Shops of Delaware, Inc., New York, N. Y. Shirts. Serial No. 458,598; June 11. Class 39.
New York-Ohio Chemical Company, Lewiston, N. Y. Chlorinated metals. Serial No. 459,246; June 1. Class 6.
Nicholas Proprietary Limited, South Melbourne, Victoria, Australia. Pharmaceutical preparations. Serial No. 457,298; June 1. Class 6.
Norma Chemical Company. (See Hufnagel, Edward H.)
Parsons Chemical Works, Grand Ledge, Mich. Fumigant. Serial No. 459,694; June 1. Class 6.
Pepperell Manufacturing Company, Boston, Mass. Sheets and pillow cases. Serial No. 459,497; June 1. Class 42.
Philco Corporation, Philadelphia, Pa. Cabinets and stands. Serial No. 454,377; June 1. Class 32.
Promotions, Inc., Youngstown, Ohio. Chairs, tables, davenports, etc. Serial No. 457,510; June 1. Class 32.
Rae, Elizabeth. (See Lamont, Elizabeth R.)
Rheem Manufacturing Company, Washington, D. C. Base metal. Serial No. 459,662; June 1. Class 14.
Roebling's, John A., Sons Company, Trenton, N. J. Wire rope and cable. Serial No. 451,883; June 1. Class 7.
Royal Diamond & Watch Co., Inc., New York, N. Y. Watches. Serial No. 452,108; June 1. Class 27.
Royal Palm Products. (See Edgerly, William W.)
Saks & Company, New York, N. Y. Women's clothing. Serial No. 458,884; June 1. Class 39.
Sarnoff, Murray, doing business as Chevron Watch Company, Washington, D. C. Watches and clocks. Serial No. 459,085; June 1. Class 27.
Scheel, William H., Inc., Brooklyn, N. Y. Lac and varnish gums. Serial No. 458,993; June 1. Class 1.
Schering Corporation, Bloomfield, N. J. Laxative preparation. Serial No. 459,770; June 1. Class 6.
Sears Brothers & Company, Watsonville, Calif. Fresh vegetables. Serial No. 455,242; June 1. Class 46.

Shatz, Nathan, Sportswear, Inc., St. Louis, Mo. Women's and misses' dresses, skirts, and blouses. Serial No. 455,243; June 1. Class 39.
Society of Chemical Industry in Basle, Basel, Switzerland. Chemical substance for use in the finishing of textiles. Serial No. 459,679; June 1. Class 6.
Southern Friction Materials Company, Charlotte, N. C. Cotton piece goods. Serial No. 457,618; June 1. Class 42.
Sperry, Pierce, Middlefield, Ohio. Booklets. Serial No. 458,421; June 1. Class 37.
Standard Chemical Products, Inc., Hoboken, N. J. Textile oils, sulphonated oils, textile sizings, etc. Serial No. 459,382; June 1. Class 6.
Sylvania Electric Products, Inc., Salem, Mass. Electric energy translating devices. Serial Nos. 456,051–4; June 1. Class 21.
Taylor, Charles H., Springfield, Mass. Game. Serial No. 459,210; June 1. Class 22.
Turco Products, Inc., Los Angeles, Calif. Cleaning compound. Serial No. 459,321; June 1. Class 4.
United States Navy Department, The, Washington, D. C. Suitcases and trunks. Serial No. 459,798; June 1. Class 3.
Wassell Organization, Westport, Conn. Chart board. Serial No. 458,361; June 1. Class 50.
Whittle Music Company, Dallas, Tex. Drum heads. Serial No. 452,257; June 1. Class 36.
Windsor-Lloyd Products, Inc., Philadelphia, Pa. Protective cream. Serial No. 459,456; June 1. Class 6.
Winthrop Products Inc., New York, N. Y. Pharmaceutical preparations. Serial No. 459,709; June 1. Class 6.
Winthrop Products Inc., New York, N. Y. Antibacterial specific preparation. Serial No. 459,710; June 1. Class 6.
Winthrop Products Inc., New York, N. Y. Mercurial diuretic preparation. Serial No. 459,711; June 1. Class 6.
Winthrop Products Inc., New York, N. Y. Antimalarial preparations. Serial No. 459,712; June 1. Class 6.
Winthrop Products Inc., New York, N. Y. Pharmaceutical preparations. Serial No. 459,714; June 1. Class 6.
Winthrop Products Inc., New York, N. Y. Antimalarial (gametocide) preparations. Serial No. 459,715; June 1. Class 6.
Winthrop Products Inc., New York, N. Y. Antianemic preparation. Serial No. 459,718; June 1. Class 6.
Yale Products Inc., New York, N. Y. Vitamin preparation. Serial No. 459,457; June 1. Class 6.
Zimmerman-Scher, Inc., New York, N. Y. Fur scarfs. Serial No. 459,141; June 1. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

A & W Bulb Company, Inc., Clearwater, Fla. Cut flowers. 401,681; June 1; Serial No. 449,514; published Mar. 23, 1943. Class 1.
Abelson, L., & Son, New York, N. Y. Juvenile sack coats and trousers. 401,727; June 1. Class 39.
Adolph Isaacsen & Son, assignor, by mesne assignments, to Adolph Isaacsen & Son, Inc., New York, N. Y. Insect and vermin destroying preparations. 23,498; re-renewed Aug. 15, 1943.
Agency Paper Company, New York, N. Y. Air-mail paper, air-mail envelopes, printing paper, etc. 401,700; June 1; Serial No. 457,533; published Mar. 23, 1943. Class 37.
Allen-Bradley Company, Milwaukee, Wis. Electrical controlling devices. 172,135; renewed Aug. 21, 1943.
Alpha Mills, Inc., Schuylkill Haven, Pa. Men's, women's and children's creepers, sweaters, shirts, etc. 401,723; June 1. Class 39.
Aluminium - Industrie - Aktien - Gesellschaft, Chippis, Switzerland. Crude and prepared aluminium and aluminium alloys. 167,243; renewed Apr. 24, 1943.
American Chemical Paint Company, Philadelphia, to American Chemical Paint Company, Ambler, Pa. Liquid chemical preparation for preventing rust. 170,006; renewed July 10, 1943.
American Dairy Cattle Club, The, Chicago, Ill. Printed and partially printed forms for keeping records, etc. 401,732; June 1. Class 37.
American Hominy Company, Chicago, assignor to Decatur Milling Company, Inc., Decatur, Ill. Core oils. 172,413; renewed Aug. 28, 1943.
Amory, Browne & Co., assignor to Nashua Manufacturing Company, Boston, Mass. Textile cotton fabrics. 174,192; renewed Oct. 9, 1943.
Anaconda Copper Mining Company, New York, N. Y. Brass tubes, copper tubes, low-brass seamless tubes, etc. 173,938; renewed Oct. 2, 1943.
Armour and Company, of Delaware. (See Morris & Company, assignor.)
Armour & Co., assignor to Armour and Company, Chicago, Ill. Lard and butter substitute. 23,291; re-renewed July 4, 1943.
Arrco Playing Card Co., Chicago, Ill. Playing cards. 401,715; June 1; Serial No. 458,144; published Mar. 23, 1943. Class 22.
Atlantic Steel Company, Atlanta, Ga. Wire fences. 171,801; renewed Aug. 14, 1943.
Atlantic Supply Company, The, Baltimore, Md. Feeds for livestock and poultry. 401,707; June 1; Serial No. 457,734; published Mar. 23, 1943. Class 46.
Babcock & Wilcox Company, The, Elizabethport, N. J., and New York, to The Babcock & Wilcox Company, New York, N. Y. Steam generators. 23,692; re-renewed Oct. 10, 1943.
Bancroft, Joseph, & Sons Company, Wilmington, Del., to Joseph Bancroft & Sons Co. Rockford, Wilmington, Del. Cotton piece goods. 174,027; renewed Oct. 2, 1943.
Barron-Gray Packing Company, San Jose, Calif. Canned fruit and vegetables and dried fruit. 173,931; renewed Oct. 2, 1943.
Bausch & Lomb Optical Company. (See Optical Specialty Manufacturing Company, assignor.)
Bausch & Lomb Optical Company. (See Stevens & Company, Inc., assignor.)
Bike Web Company, The, Chicago, Ill. Absorbent cotton, gauze, gauze bandages, etc. 401,712; June 1; Serial No. 457,945; published Mar. 23, 1943. Class 44.
Bond, Charles, Company, Philadelphia, Pa. Leather loom sundries. 173,733; renewed Oct. 2, 1943.
Brown-Saltman Furniture Company. (See Solotoy, Percy.)
Buddy Kit Co., Los Angeles, Calif. Kits for toilet articles. 401,683; June 1; Serial No. 449,850; published Mar. 23, 1943. Class 3.
Burkhardt, Frederic T., Holyoke, Mass. Writing and printing paper. 401,691; June 1; Serial No. 455,473; published Mar. 23, 1943. Class 37.
Caradine Harvest Hat Company, St. Louis, Mo., by change of name to Caradine Hat Company. Straw hats. 172,283; renewed Aug. 28, 1943.
Chicago Musical Instrument Co., Chicago, Ill. Toy pressure-propelled airplanes. 401,706; Jan. 1; Serial No. 457,719; published Mar. 23, 1943. Class 22.
Chinosol Company, New York, by change of name to Chinosol Products Company, Incorporated, Mount Vernon, N. Y. Antiseptic compound. 167,483; renewed May 1, 1943.
Chipman Knitting Mills, Easton, Pa., assignor to Chas. Chipman's Sons Co., Inc., New York, N. Y. Hosiery. 174,262; renewed Oct. 9, 1943.
Chipman's, Chas., Sons, Co., Inc. (See Chipman Knitting Mills, assignor.)
Cluett, Peabody & Co., Inc., Troy, N. Y. Collars. 174,365; renewed Oct. 16, 1943.
Codo Manufacturing Corp., Coraopolis, Pa., and Chicago, Ill. Backing sheets. 401,730; June 1. Class 37.
Colonial Beacon Oil Company, Boston, Mass. Refined, semirefined, and unrefined oils. 401,714; June 1; Serial No. 458,009; published Mar. 23, 1943. Class 15.
Consolidated Aircraft Corporation, San Diego, Calif. Airplanes. 401,692; June 1; Serial No. 455,645; published Mar. 23, 1943. Class 19.
Consolidation Coal Company, New York, N. Y. Coal. 401,696; June 1; Serial No. 457,330; published Mar. 23, 1943. Class 1.
Container Corporation of America, Chicago, Ill. Paperboard cartons sold in the trade empty. 401,690; June 1; Serial No. 455,297; published Oct. 27, 1942. Class 2.
Copperweld Steel Company, Glassport, Pa. Steel products. 401,702; June 1; Serial No. 457,602; published Mar. 16, 1943. Class 14.
Cowen, Joseph, & Co., Blaydon-on-Tyne, assignor to The Priestman Collieries Limited, Newcastle-on-Tyne, England. Bricks, retorts, tiles, etc. 23,653; re-renewed Sept. 26, 1943.
Crawford-Austin Manufacturing Co., Inc., Waco, Tex. Canvas or duck fabric in the piece. 401,722; June 1. Class 42.
Crites-Moscow Growers, Inc., Moscow, Idaho. Seed peas. 401,728; June 1. Class 1.
Crystal Chemical Co. Inc., The, New York, N. Y., assignor, by mesne assignments, to Sterling Drug Inc., Wilmington, Del. Powder. 174,068; renewed Oct. 2, 1943.
Decatur Milling Company. (See American Hominy Company, assignor.)
Deer Park Baking Co., Chicago, Ill. Cookies. 401,689; June 1; Serial No. 455,254; published Mar. 23, 1943. Class 46.
De Sanno, Albert P., Jr., Phoenixville, Pa. Mechanical and electrical refrigerating freezers. 401,685; June 1; Serial No. 451,673; published Mar. 23, 1943. Class 31.
Dexter, V. V., Ellensburg, Wash. Honey. 401,731; June 1. Class 46.
Diversey Corporation, The, Chicago, Ill. Soluble cleaning compound. 401,710; June 1; Serial No. 457,791; published Mar. 23, 1943. Class 4.
Dunhill, Alfred, of London, Inc., New York, N. Y., assignor to Alfred Dunhill Limited, London, England. Pipe, cigar and cigarette holders, tobacco pouches. 174,098; renewed Oct. 2, 1943.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Hair, hat, cloth, and baby brushes. 168,888; renewed May 29, 1943.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Hair combs, shoe horns and button hooks, etc. 168,889; renewed May 29, 1943.
Eastern Tablet Corporation, Albany, N. Y. Sanitary paper drinking cups. 401,684; June 1; Serial No. 451,229; published Mar. 23, 1943. Class 2.
Fabrique de Montres Studio, S. A., La Chaux-de-Fonds, Switzerland. Watches, watch movements and parts thereof. 401,701; June 1; Serial No. 457,561; published Mar. 23, 1943. Class 27.
Farbwerke vorm. Meister Lucius & Bruning, Höchst-on-the-Main, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Medicinal preparations. 173,862; renewed Oct. 2, 1943.
Finkl & Sons Company, The, Chicago, Ill. Steel. 401,694; June 1; Serial No. 456,419; published Mar. 23, 1943. Class 14.
Flaster, Alfred A., New York, N. Y. Vanity cases and compacts. 401,733; June 1. Class 2.
Ford Motor Company, Highland Park, to Ford Motor Company, Dearborn, Mich. Motor cars. 174,471; renewed Oct. 16, 1943.
Forstmann & Huffmann Company, assignor to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 168,772; renewed May 29, 1943.
Forstmann Woolen Co. (See Forstmann & Huffmann Company, assignor.)
Garley Steel Company. (See Hird, R. G.)
Gold Seal Importers, Inc., New York, N. Y. Ladies' handbags. 401,716; June 1; Serial No. 458,223; published Mar. 23, 1943. Class 3.
Goodyear Tire & Rubber Company, The, Akron, Ohio. House-organ publications. 172,044; renewed Aug. 21, 1943.
Gsell, R., & Co., Inc., New York, N. Y. Watches and watch movements, watch-cases and parts thereof. 401,725; June 1. Class 27.
Hampshire, F. W., & Co., Ld., assignor to F. W. Hampshire & Co., Limited, Derby, England. Fly swatters and sticky paper. 171,586; renewed Aug. 7, 1943.
Hird, Roy G., doing business as Garley Steel Company, assignor to Republic Metals & Roofing Materials, Inc., Chicago, Ill. Steel sheets, bars, plates, etc. 173,904; renewed Oct. 2, 1943.
Iceless Cooler Corporation, New York, N. Y. Electrically operated water coolers. 401,719; June 1; Serial No. 458,366; published Mar. 23, 1943. Class 31.
International Worsted Mills, Methuen, Mass., and New York, N. Y., assignor to Selden Worsted Mills, Methuen, Mass. Novelty worsted fabrics. 173,276; renewed Sept. 18, 1943.
International Worsted Mills, Methuen, Mass., and New York, N. Y., assignor to Selden Worsted Mills, Methuen, Mass. Tropical worsteds in the piece. 173,277; renewed Sept. 18, 1943.
Ironall Factories Co., The, Cincinnati, Ohio. Overalls, coats, pants, etc. 174,248; renewed Oct. 9, 1943.
Kirsch's Beverages, Inc. (See Kirsch, H., & Co.)
Kirsch, H. & Co., to Kirsch's Beverages, Inc., Brooklyn, N. Y., successor. Certain named soft drinks and sirups. 170,049; renewed July 10, 1943.
Knorr-Maynard, Inc., Detroit, Mich. Cleaning preparation. 401,704; Jan. 1; Serial No. 457,653; published Mar. 23, 1943. Class 4.
Kurtin & Kurtin, to Kurtin & Kurtin, New York, N. Y., successor. Butter, eggs, cheese. 166,878; renewed Apr. 17, 1943.
Liebmann Breweries, Inc. (See Liebmann's, S., Sons Inc., assignor.)
Liebmann's, S., Sons, Inc., assignor to Liebmann Breweries, Inc., Brooklyn, N. Y. Malt beverage. 173,952; renewed Oct. 2, 1943.
Loup Valley Hatchery, St. Paul and Cushing, to Loup Valley Hatchery, St. Paul, Nebr. Live chickens. 172,822; renewed Sept. 11, 1943.
Lowe, E. S., Company, Inc., New York, N. Y. Bingo cards and pads. 401,686; June 1; Serial No. 452,671; published Mar. 23, 1943. Class 22.
Masonite Corporation, Chicago, Ill. Hard-surfaced lignocellulose composition flooring. 401,695; June 1; Serial No. 456,508; published Mar. 23, 1943. Class 12.
Medical Fabrics, Inc., Newark, N. J. Elastic cotton bandages. 401,713; June 1; Serial No. 457,984; published Mar. 23, 1943. Class 44.
Merck & Co., New York, N. Y., assignor to Merck & Co., Inc., Rahway, N. J. Antirheumatic. 173,102; renewed Sept. 18, 1943.
Midland Flour Milling Co., The, North Kansas City, Mo. Wheat flour. 172,759; renewed Sept. 11, 1943.
Morris & Company, assignor, by mesne assignments, to Armour and Company of Delaware, Chicago, Ill. Oleomargarine. 167,112; renewed Apr. 24, 1943.
Nashua Manufacturing Company. (See Amory, Browne & Co., assignor.)
National Cash Register Company, The, Dayton, Ohio. Paper and stationery. 401,680; June 1; Serial No. 444,576; published Aug. 4, 1942. Class 37.
National Refining Company, The, Cleveland, Ohio. Lubricating oil. 401,682; June 1; Serial No. 449,775; published Mar. 23, 1943. Class 15.
Naumkeag Steam Cotton Company, Salem, Mass. Pillowcases. 174,100–1; renewed Oct. 2, 1943.
New York & Pennsylvania Company, Castanea, Pa., and New York, assignor to New York & Pennsylvania Company, Inc., New York, N. Y. Papers for printing, writing, etc. 163,477; renewed Jan. 16, 1943.
New York & Pennsylvania Company, Castanea, Pa., and New York, assignor to New York & Pennsylvania Company, Inc., New York, N. Y. Papers and paper boards. 163,478; renewed Jan. 16, 1943.
Northwestern Yeast Company, Chicago, Ill. Yeast. 401,699; June 1; Serial No. 457,529; published Mar. 23, 1943. Class 46.
Omar Incorporated, Omaha, Nebr. Pancake flour. 401,711; June 1; Serial No. 457,839; published Mar. 23, 1943. Class 46.
Optical Specialty Manufacturing Company, Southbridge, Mass., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mountings and parts thereof. 174,178; renewed Oct. 9, 1943.
Pallady Welding & Manufacturing Company, assignor to Pal-Weld Manufacturing Company, Seattle, Wash. Soldering flux. 167,840; renewed May 8, 1943.
Pal-Weld Manufacturing Company. (See Pallady Welding & Manufacturing Company, assignor.)
Phillips' Patents Limited, London, England. India-rubber plates or pads. 168,316; renewed May 22, 1943.
Phillips Petroleum Company, Bartlesville, Okla. Gasoline. 401,708; June 1; Serial No. 457,745; published Mar. 23, 1943. Class 15.
Plastic Metals, Inc., Johnstown, Pa. Powdered iron. 401,705; June 1; Serial No. 457,655; published Mar. 16, 1943. Class 14.
Pontiac Varnish Company, Pontiac, Mich. Paints, paint enamels, varnishes, etc. 401,687; June 1; Serial No. 453,946; published Mar. 23, 1943. Class 16.
Priestman Collieries Limited, The. (See Cowen, Joseph, & Co., assignor.)
Ranlville, F., Company, Grand Rapids, Mich. Belt dressing. 401,703; June 1; Serial No. 457,615; published Mar. 23, 1943. Class 4.
Ray-Maling Co., Inc., Portland, to Ray-Maling Co., Inc., Hillsboro, Oreg. Canned fruits. 173,857; renewed Oct. 2, 1943.
Ray-Maling Co., Inc., Portland, to Ray-Maling Co., Inc., Hillsboro, Oreg. Canned fruits, canned berries, and canned vegetables. 173,858; renewed Oct. 2, 1943.
Ray-Maling Co., Inc., Portland, to Ray-Maling Co., Inc., Hillsboro, Oreg. Canned fruits and canned berries. 173,859; renewed Oct. 2, 1943.
Recorg Supply Corporation, Chicago, Ill. Preparation of coffee, barley, and chicory. 401,693; June 1; Serial No. 455,872; published Mar. 23, 1943. Class 46.
Reid, Murdock & Co., Chicago, Ill. Baking powder and baking soda. 173,371; renewed Sept. 25, 1943.
Reliance Manufacturing Company, assignor to Reliance Manufacturing Company, Chicago, Ill. Men's work shirts. 173,794; renewed Oct. 2, 1943.
Republic Metals & Roofing Materials, Inc. (See Hird, Roy G., assignor.)
Respro Inc., Providence, to Respro Inc., Cranston, R. I. Electrical insulating material. 174,452; renewed Oct. 16, 1943.
Richardson & Holland, Inc., Seattle, Wash. Powdered sugar. 171,758; renewed Aug. 14, 1943.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 174,253; renewed Oct. 9, 1943.
Royal Bedding Company, St. Louis, Mo. Mattresses and spring foundations therefor. 401,717; June 1; Serial No. 458,227; published Mar. 23, 1943. Class 32.
Savage Arms Corporation. (See Stevens, J., Arms Company, assignor.)
Schlueter Manufacturing Co., St. Louis, Mo. Receptacles. 172,106; renewed Aug. 21, 1943.
Sears, Roebuck and Co., Chicago, Ill. Dolls. 401,718; June 1; Serial No. 458,229; published Mar. 23, 1943. Class 22.
Seco Leather Products Company, West New York, N. J. Bill folds. 401,688; June 1; Serial No. 454,992; published Mar. 23, 1943. Class 3.
Seymour Manufacturing Company, The, Seymour, Conn. Metal alloys of copper, zinc, and nickel in certain named forms. 173,479; renewed Sept. 25, 1943.
Seymour Manufacturing Company, The, Seymour, Conn. Metal alloys of copper, zinc, and nickel, in the form of tubes and shells. 173,480–1; renewed Sept. 25, 1943.
Seymour Manufacturing Company, The, Seymour, Conn. Metal electrodes. 174,408; renewed Oct. 16, 1943.
Sewall Paint & Glass Company, assignor to Sewall Paint & Varnish Company, Kansas City, Mo. Ready-mixed wall paints, wall size, wall-paint thinner. 168,728; renewed May 29, 1943.
Sewall Paint & Glass Company, assignor to Sewall Paint & Varnish Company, Kansas City, Mo. Varnishes, enamels, paints, etc. 174,224; renewed Oct. 9, 1943.
Sewall Paint & Varnish Company. (See Sewall Paint & Glass Company, assignor.)
Selden Worsted Mills. (See International Worsted Mills, assignor.)

Solotoy, Percy, doing business as Brown-Saltman Furniture Company, South Gate, Calif. Bedroom furniture, dining room furniture, occasional tables. 401,726; June 1. Class 32.
Sonnenschein, J., Hop Company, Inc., New York, N. Y. Hops. 174,390; renewed Oct. 16, 1943.
Stanco Incorporated. (See Standard Oil Company, Incorporated in New Jersey, assignor.)
Standard Oil Company, Incorporated in New Jersey, Bayonne, N. J., assignor to Stanco Incorporated, New York, N. Y. White mineral oil. 168,137; renewed May 15, 1943.
Sterling Drug Inc. (See Crystal Chemical Co. Inc., assignor.)
Stevens & Company, Inc., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mountings and parts thereof. 167,257; renewed Apr. 24, 1943.
Stevens & Company, Inc., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mountings and parts thereof. 169,866; renewed July 3, 1943.
Stevens & Company, Inc., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mountings and parts thereof. 171,857; renewed Aug. 14, 1943.
Stevens & Company, Inc., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mountings and parts thereof. 171,861; renewed Aug. 14, 1943.
Stevens, J., Arms Company, assignor, by mesne assignments, to Savage Arms Corporation, New York, N. Y. Sporting rifles. 173,149; renewed Sept. 18, 1943.
Stevens, J., Arms Company, assignor, by mesne assignments, to Savage Arms Corporation, New York, N. Y. Sporting rifles. 173,158; renewed Sept. 18, 1943.
Stevens, J., Arms Company, assignor, by mesne assignments, to Savage Arms Corporation, New York, N. Y. Shotguns. 173,958; renewed Oct. 2, 1943.
Sweet-Orr & Co., Inc., Wappingers Falls and New York, N. Y. Pants, jackets, coats, etc. 174,271; renewed Oct. 9, 1943.
Takamine Laboratory, Inc., Clifton, N. J. Ensyme substances. 172,650; renewed Sept. 11, 1943.
Textileather Corporation, Toledo, Ohio. Coated fabrics. 401,724; June 1. Class 50.
Thompson Products, Incorporated, Cleveland, Ohio. Engine valves and valve guides, water pumps and parts thereof, etc. 401,721; June 1. Class 23.
Truscon Laboratories, Inc., Detroit, Mich. Concrete curing compound. 401,729; June 1. Class 12.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Chemical compound. 173,773; renewed Oct. 2, 1943.
Walker-Goulard-Plehn Company, Inc., New York, N. Y. Paper-board, cardboard, and writing paper, etc. 401,697; June 1; Serial No. 457,427; published Mar. 23, 1943. Class 37.
Warren & Bailey Company, Los Angeles, Calif. Leather, woven and rubber belting, hose, sheet packing, etc. 174,465; renewed Oct. 16, 1943.
Washington Manufacturing Co., Nashville, Tenn. Work shirts and overalls. 174,211; renewed Oct. 9, 1943.
Wells-Treister Co., Inc., assignor to Wells-Treister Co., New York, N. Y. Fur coats, fur wraps and capes, etc. 172,205; renewed Aug. 28, 1943.
Whiting Paper Company, Holyoke, Mass. Writing papers, mailing envelopes, and printing papers. 174,237; renewed Oct. 9, 1943.
Winthrop Chemical Company, Inc. (See Farbwerke vorm. Meister Lucius & Bruning, assignor.)
Wooster Brass Company, The, Wooster, Ohio. Fire hose couplings. 401,709; June 1; Serial No. 457,753; published Mar. 23, 1943. Class 13.
Yard-Man, Inc., Jackson, Mich. Commercial lift trucks. 401,698; June 1; Serial No. 457,488; published Mar. 23, 1943. Class 19.
Young, Alexander, Distilling Company, Philadelphia, Pa. Whiskey. 401,720; June 1. Class 49.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Consolidation Coal Company. 401,696; June 1; Serial No. 457,330; published Mar. 23, 1943.
Hops. J. Sonnenschein Hop Company. 174,390; renewed Oct. 16, 1943.
Flowers, Cut. A & W Bulb Company. 401,681; June 1; Serial No. 449,514; published Mar. 23, 1943.
Seed peas. Crites-Moscow Growers, Inc. 401,728; June 1.

CLASS 2

Cartons sold in the trade empty, Paperboard. Container Corporation of America. 401,690; June 1; Serial No. 455,297; published Oct. 27, 1942.
Cups, Sanitary paper drinking. Eastern Tablet Corporation. 401,684; June 1; Serial No. 451,229; published Mar. 23, 1943.
Receptacles. Schlueter Manufacturing Co. 172,106; renewed Aug. 21, 1943.

CLASS 3

Bill folds. Seco Leather Products Company. 401,688; June 1; Serial No. 454,992; published Mar. 23, 1943.
Vanity cases and compacts. A. A. Flaster. 401,733; June 1.
Handbags, Ladies'. Gold Seal Importers, Inc. 401,716; June 1; Serial No. 458,223; published Mar. 23, 1943.
Kits for toilet articles. Buddy Kit Co. 401,683; June 1; Serial No. 449,850; published Mar. 23, 1943.

CLASS 4

Cleaning compound, Soluble. Diversey Corporation. 401,710; June 1; Serial No. 457,791; published Mar. 23, 1943.
Cleaning preparation. Knorr-Maynard, Inc. 401,704; June 1; Serial No. 457,653; published Mar. 23, 1943.
Dressing, Belt. F. Raniville Company. 401,703; June 1; Serial No. 457,618; published Mar. 23, 1943.

CLASS 5

Oils, Core. American Hominy Company. 172,413; renewed Aug. 28, 1943.

CLASS 6

Antirheumatic. Merck & Co. 173,102; renewed Sept. 18, 1943.
Antiseptic compound. Chinosol Company. 167,483; renewed May 1, 1943.
Baking powder and baking soda. Reid, Murdock & Co. 173,371; renewed Sept. 25, 1943.
Chemical compound. R. T. Vanderbilt Company. 173,773; renewed Oct. 2, 1943.
Chemical preparation for preventing rust, Liquid. American Chemical Paint Company. 170,006; renewed July 10, 1943.
Ensyme substances. Takamine Laboratory, Inc. 172,650; renewed Sept. 11, 1943.
Flux, Soldering. Palladay Welding & Manufacturing Company. 167,840; renewed May 8, 1943.
Medicinal preparations. Farbwerke vorm. Meister Lucius & Bruning. 173,862; renewed Oct. 2, 1943.
Oil, White mineral. Standard Oil Company, Incorporated in New Jersey. 168,137; renewed May 15, 1943.
Powder. Crystal Chemical Co. Inc. 174,068; renewed Oct. 2, 1943.
Preparations, Insect and vermin destroying. Adolph Isaacsen & Son. 23,498; re-renewed Aug. 15, 1943.

CLASS 8

Pipe, cigar and cigarette holders and tobacco pouches. Alfred Dunhill of London, Inc. 174,098; renewed Oct. 2, 1943.

CLASS 9

Rifles, Sporting. J. Stevens Arms Company. 173,149; renewed Sept. 18, 1943.
Rifles, Sporting. J. Stevens Arms Company. 173,158; renewed Sept. 18, 1943.
Shotguns. J. Stevens Arms Company. 173,958; renewed Oct. 2, 1943.

CLASS 12

Curing compound, Concrete. Truscon Laboratories, Inc. 401,729; June 1.
Flooring, Hard-surfaced ligno-cellulose composition. Masonite Corporation. 401,695; June 1; Serial No. 456,508; published Mar. 23, 1943.

CLASSES 12 AND 34

Bricks, retorts, tiles, etc. Cowen, Joseph & Co. 23,653; re-renewed Sept. 26, 1943.

CLASS 13

Brass tubes, copper tubes, low-brass seamless tubes, etc. Anaconda Copper Mining Company. 173,938; renewed Oct. 2, 1943.
Couplings, Fire hose. Wooster Brass Company. 401,709; June 1; Serial No. 457,753; published Mar. 23, 1943.
Fences, Wire. Atlantic Steel Company. 171,801; renewed Aug. 14, 1943.
Metal alloys of copper, zinc, and nickel in the form of tubes and shells. Seymour Manufacturing Company. 173,480–1; renewed Sept. 25, 1943.

CLASS 14

Crude and prepared aluminium and aluminium alloys. Aluminium-Industrie-Aktiengesellschaft. 167,243; renewed Apr. 24, 1943.
Iron, Powdered. Plastic Metals, Inc. 401,705; June 1; Serial No. 457,655; published Mar. 16, 1943.
Metal alloys of copper, zinc, and nickel in certain-named forms. Seymour Manufacturing Company. 173,479; renewed Sept. 25, 1943.

Steel. A. Finkl & Sons Company. 401,694; June 1; Serial No. 456,419; published Mar. 23, 1943.
Steel products. Copperweld Steel Company. 401,702; June 1; Serial No. 457,602; published Mar. 16, 1943.
Steel sheets, bars, plates, etc. R. G. Hird. 173,904; renewed Oct. 2, 1943.

CLASS 15

Gasoline. Phillips Petroleum Company. 401,708; June 1; Serial No. 457,745; published Mar. 23, 1943.
Oil, Lubricating. National Refining Company. 401,682; June 1; Serial No. 449,775; published Mar. 23, 1943.
Oils, Refined, semirefined, and unrefined. Colonial Beacon Oil Company. 401,714; June 1; Serial No. 458,009; published Mar. 23, 1943.

CLASS 16

Paints, paint enamels, varnishes, etc. Pontiac Varnish Company. 401,687; June 1; Serial No. 453,946; published Mar. 23, 1943.
Paints, wall size, and wall paint thinners, Ready-mixed wall. Sewall Paint & Glass Company. 168,728; renewed May 29, 1943.
Varnishes, enamels, paints, etc. Sewall Paint & Glass Company. 174,224; renewed Oct. 9, 1943.

CLASS 19

Airplanes. Consolidated Aircraft Corporation. 401,692; June 1; Serial No. 455,645; published Mar. 23, 1943.
Cars, Motor. Ford Motor Company. 174,471; renewed Oct. 16, 1943.
Trucks, Commercial lift. Yard-Man, Inc. 401,698; June 1; Serial No. 457,488; published Mar. 23, 1943.

CLASS 21

Electrical controlling devices. Allen-Bradley Company. 172,135; renewed Aug. 21, 1943.
Electrical insulating material. Raspro Inc. 174,452; renewed Oct. 16, 1943.
Electrodes, Metal. Seymour Manufacturing Company. 174,408; renewed Oct. 16, 1943.

CLASS 22

Cards and pads, Bingo. E. S. Lowe Company. 401,686; June 1; Serial No. 452,671; published Mar. 23, 1943.
Cards, Playing. Arrco Playing Card Co. 401,715; June 1; Serial No. 458,144; published Mar. 23, 1943.
Dolls. Sears, Roebuck and Co. 401,718; June 1; Serial No. 458,229; published Mar. 23, 1943.
Toy pressure-propelled airplanes. Chicago Musical Instrument Co. 401,706; June 1; Serial No. 457,719; published Mar. 23, 1943.

CLASS 23

Loom sundries, Leather. Charles Bond Company. 173,733; renewed Oct. 2, 1943.
Valves and valve guides, water pumps and parts thereof, etc., Engine. Thompson Products, Incorporated. 401,721; June 1.

CLASS 26

Ophthalmic mountings and parts thereof. Stevens & Company, Inc. 167,257; renewed Apr. 24, 1943.
Ophthalmic mountings. Stevens & Company, Inc. 169,866; renewed July 3, 1943.
Ophthalmic mountings and parts thereof. Stevens & Company. 171,857; renewed Aug. 14, 1943.
Ophthalmic mountings and parts thereof. Stevens & Company. 171,861; renewed Aug. 14, 1943.
Ophthalmic mountings and parts thereof. Optical Specialty Manufacturing Company. 174,178; renewed Oct. 9, 1943.

CLASS 27

Watches and watch movements, watchcases and parts thereof. R. Gsell & Co. 401,725; June 1.
Watches, watch movements and parts thereof. Fabrique de Montres Studio, S. A. 401,701; June 1; Serial No. 457,561; published Mar. 23, 1943.

CLASS 29

Brushes, Hair, hat, cloth, and baby. E. I. du Pont de Nemours and Company. 168,888; renewed May 29, 1943.

CLASS 31

Coolers, Electrically operated water. Iceless Cooler Corporation. 401,719; June 1; Serial No. 458,366; published Mar. 23, 1943.
Refrigerating freezers, Mechanical and electrical. A. P. de Sanno Jr. 401,685; June 1; Serial No. 451,673; published Mar. 23, 1943.

CLASS 32

Furniture, dining room furniture, occasional tables, Bedroom. P. Solotoy. 401,726; June 1.
Mattresses and spring foundations therefor. Royal Bedding Company. 401,717; June 1; Serial No. 458,227; published Mar. 23, 1943.

CLASS 34

Steam generators. Babcock & Wilcox Company, The. 23,692; re-renewed Oct. 10, 1943.

CLASS 35

Belting, hose, sheet packing, etc., Leather, woven and rubber. Warren & Bailey Company. 174,465; renewed Oct. 16, 1943.

CLASS 37

Forms for keeping records, etc., Printed and partially printed. American Dairy Cattle Club. 401,732; June 1.
Paper, air-mail envelopes, printing paper, etc., Air-mail. Agency Paper Company. 401,700; June 1; Serial No. 457,533; published Mar. 23, 1943.
Paper and stationery. National Cash Register Company. 401,680; June 1; Serial No. 444,576; published Aug. 4, 1942.
Paper, Writing and printing. Frederic T. Burkhardt. 401,691; June 1; Serial No. 455,473; published Mar. 23, 1943.
Paper-board, cardboard, and writing paper, etc. Walker-Goulard-Plehn Company. 401,697; June 1; Serial No. 457,427; published Mar. 23, 1943.
Papers and paper boards. New York & Pennsylvania Company. 163,478; renewed Jan. 16, 1943.
Papers for printing, writing, etc. New York & Pennsylvania Company. 163,477; renewed Jan. 16, 1943.
Papers, mailing envelopes, printing papers, Writing. Whiting Paper Company. 174,237; renewed Oct. 9, 1943.
Sheets, Backing. Codo Manufacturing Corp. 401,730; June 1.

CLASS 38

Publications, House-organ. Goodyear Tire & Rubber Company. 172,044; renewed Aug. 21, 1943.

CLASS 39

Coats and trousers, Juvenile sack. L. Abelson & Son. 401,727; June 1.
Collars. Cluett, Peabody & Co. 174,365; renewed Oct. 16, 1943.
Creepers, sweaters, shirts, etc., Men's, women's and children's. Alpha Mills, Inc. 401,723; June 1.
Fur coats, fur wraps and capes, etc. Wells-Treister Co. 172,205; renewed Aug. 28, 1943.
Hats, Straw. Caradine Harvest Hat Company. 172,283; renewed Aug. 28, 1943.
Hosiery. Richmond Hosiery Mills. 174,253; renewed Oct. 9, 1943.
Hosiery. Chipman Knitting Mills. 174,262; renewed Oct. 9, 1943.
India-rubber plates or pads. Phillips' Patents Limited. 168,316; renewed May 22, 1943.
Overalls, coats, pants, etc. Ironall Factories Co. 174,248; renewed Oct. 9, 1943.
Pants, jackets, coats, etc. Sweet-Orr & Co. 174,271; renewed Oct. 9, 1943.
Shirts and overalls, Work. Washington Manufacturing Co. 174,211; renewed Oct. 9, 1943.
Shirts, Men's work. Reliance Manufacturing Company. 173,794; renewed Oct. 2, 1943.

CLASS 40

Combs, shoe horns, and button hooks, etc., Hair. E. I. du Pont de Nemours and Company. 168,889; renewed May 29, 1943.

CLASS 42

Fabric in the piece, Canvas or duck. Crawford-Austin Manufacturing Co. 401,722; June 1.
Fabric, Novelty worsted. International Worsted Mills. 173,276; renewed Sept. 18, 1943.
Fabrics, Textile cotton. Amory, Browne & Co. 174,192; renewed Oct. 9, 1943.
Piece goods, Cotton. Joseph Bancroft & Sons Company. 174,027; renewed Oct. 2, 1943.
Piece goods, Woolen. Forstmann & Huffmann Company. 168,772; renewed May 29, 1943.
Pillowcases. Naumkeag Steam Cotton Company. 174,100–1; renewed Oct. 2, 1943.
Worsteds in the piece, Tropical. International Worsted Mills. 173,277; renewed Sept. 18, 1943.

CLASS 44

Absorbent cotton, gauze, gauze bandages, etc. Bike Web Company. 401,712; June 1; Serial No. 457,945; published Mar. 23, 1943.
Bandages, Elastic cotton. Medical Fabrics, Inc. 401,713; June 1; Serial No. 457,984; published Mar. 23, 1943.

CLASS 45

Soft drinks and sirups. H. Kirsch & Co. 170,049; renewed July 10, 1943.

CLASS 46

Butter, eggs, cheese. Kurtin & Kurtin. 166,878; renewed Apr. 17, 1943.
Canned fruits. Ray-Maling Co. 173,857; renewed Oct. 2, 1943.
Canned fruits, canned berries, and canned vegetables. Ray-Maling Co. 173,858; renewed Oct. 2, 1943.
Canned fruits and canned berries. Ray-Maling Co. 173,859; renewed Oct. 2, 1943.

Canned fruits and vegetables and dried fruits. Barron-Gray Packing Company. 173,931; renewed Oct. 2, 1943.
Chickens, Live. Loup Valley Hatchery. 172,822; renewed Sept. 11, 1943.
Cookies. Deer Park Baking Co. 401,689; June 1; Serial No. 455,254; published Mar. 23, 1943.
Feeds for livestock and poultry. Atlantic Supply Company. 401,707; June 1; Serial No. 457,734; published Mar. 23, 1943.
Flour, Pancake. Omar Incorporated. 401,711; June 1; Serial No. 457,839; published Mar. 23, 1943.
Flour, Wheat. Midland Flour Milling Co. 172,759; renewed Sept. 11, 1943.
Honey. V. V. Dexter. 401,731; June 1.
Lard and butter substitute. Armour & Co. 23,291; re-renewed July 4, 1943.
Oleomargarine. Morris & Company. 167,112; renewed Apr. 24, 1943.
Preparation of coffee, barley, and chicory. Recorg Supply Corporation. 401,693; June 1; Serial No. 455,872; published Mar. 23, 1943.
Sugar, Powdered. Richardson & Holland, Inc. 171,758; renewed Aug. 14, 1943.
Yeast. Northwestern Yeast Company. 401,699; June 1; Serial No. 457,529; published Mar. 23, 1943.

CLASS 48

Beverage, Malt. S. Liebmann's Sons, Inc. 173,952; renewed Oct. 2, 1943.

CLASS 49

Whiskey. Alexander Young Distilling Company. 401,720; June 1.

CLASS 50

Fabrics, Coated. Textileather Corporation. 401,724; June 1.
Swatters and sticky paper, Fly. F. W. Hampshire & Co., Ltd. 171,586; renewed Aug. 7, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Crosby, Howard M., Schenectady, N. Y., assignor to General Electric Company. Frequency modulation measurement. Re. 22,328; June 1.
Eastman Kodak Company. (See Porter, H. D., and Weissberger, assignors.)
General Electric Company. (See Crosby, Howard M., assignor.)
Porter, Henry D., and A. Weissberger, assignors to Eastman Kodak Company, Rochester, N. Y. Pyrazolone couplers for color photography. Re. 22,329; June 1.
Weissberger, Arnold. (See Porter, H. D., and Weissberger.)

LIST OF DESIGN PATENTEES

Arens, Egmont H., New York, N. Y., and T. C. Brookhart, assignors to The Hobart Manufacturing Company, Troy, Ohio. Slicing machine. 135,739; June 1.
Austin, Joseph, Hartsdale, assignor to The F. & M. Schaefer Brewing Company, Brooklyn, N. Y. Holder for beer foam scrapers. 135,747; June 1.
Baumgartner, Frederick W., Kansas City, Mo. Combined message sheet and envelope. 135,748; June 1.
Berlin, Donovan R., Detroit, Mich. Airplane. 135,749; June 1.
Brookhart, Theodore C. (See Arens, E. H., and Brookhart.)
Brothers, Abe R., Brooklyn, N. Y. Necktie-rack or the like. 135,750; June 1.
Browne, Richard C., assignor to The Todd Company, Inc., Rochester, N. Y. Apparatus for collating and posting business forms. 135,751; June 1.
Cartier, Inc. (See Graeter, Harold, assignor.)
Clark, William A., assignor to W. L. M. Clark, Inc., St. Louis, Mo. Bootee. 135,760; June 1.
Clark, W. L. M., Inc. (See Clark, William A., assignor.)
Constantine, George, New York, N. Y. Dress. 135,766; June 1.
Curtis, Thomas L., Utica, N. Y. Dog harness. 135,752; June 1.
F. & M. Schaefer Brewing Company, The. (See Austin, Joseph, assignor.)
Falge Engineering Service. (See Falge, Raymond L., assignor.)
Falge, Raymond L., assignor to Falge Engineering Service, Bethesda, Md. Flash or signal light. 135,768; June 1.
Fanshier, Thomas C., Oklahoma City, Okla. Combined fishing rod handle and reel. 135,761; June 1.
Folmer Graflex Corporation, The. (See Grover, Frederic S., assignor.)
Graeter, Harold, assignor to Cartier, Inc., New York, N. Y. Bill clip. 135,753; June 1.
Grover, Frederic S., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Camera carrying case. 135,762; June 1.
Hobart Manufacturing Company, The. (See Arens, E. H., and Brookhart, assignors.)
Hodge, Benjamin D., Houston, Tex. Tossing ring. 135,740; June 1.
James Manufacturing Company. (See Waterman, Arthur E., assignor.)
Jolles, Ida, New York, N. Y. Handbag. 135,769; June 1.
Kasco Mills, Inc. (See Kieser, Ernest H., assignor.)
Kieser, Ernest H., assignor to Kasco Mills, Inc., Toledo, Ohio. Set of playing cards. 135,763; June 1.
Mackintosh-Hemphill Company. (See McConnell, William M., assignor.)
Mason, Ray M., Lemont, Ill. Patriotic badge. 135,754; June 1.
Mason, Ray M., Lemont, Ill. Patriotic badge. 135,755; June 1.
McConnell, William M., McKeesport, assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa. Housing for rapid traverse mechanism for lathes. 135,741; June 1.
McConnell, William M., McKeesport, assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa. Lathe carriage. 135,742; June 1.
Micro-Master Company. (See Nelson, Peter N., assignor.)
Morris, John J., New York, N. Y. Paper weight. 135,756; June 1.
Nelson, Peter N., assignor to Micro-Master Company, Chicago, Ill. Indicating calipers. 135,757; June 1.
Nevin, John A., Wichita, Kans. Puzzle board. 135,743; June 1.
Orloff, Max, New York, N. Y. Dress. 135,767; June 1.
Pavey, Richard G., Seven Kings, England. Combined scoring board and trump-card indicator. 135,744; June 1.
Regina Bowling Alley Corporation. (See Rohan, John A., Jr., assignor.)
Rice, Eugene B., Denver, Colo. Candy box. 135,770; June 1.
Rohan, John A., Jr., assignor to Regina Bowling Alley Corporation, St. Louis, Mo. Bowling sign. 135,764; June 1.
Ross, Howard L., New York, N. Y. Lipstick holder. 135,745; June 1.
Todd Company, The. (See Browne, Richard C., assignor.)
Toledo Steel Products Company, The. (See Wertz, Herbert M., assignor.)
Waterman, Arthur E., assignor to James Manufacturing Company, Fort Atkinson, Wis. Portable building. 135,758; June 1.
Wertz, Herbert M., assignor to The Toledo Steel Products Company, Toledo, Ohio. Placard or the like. 135,746; June 1.
Wiljamaa, Arthur H., Tower, Minn. Combination tool. 135,759; June 1.
Wulsin, Frederick R., Providence, R. I. Helmet. 135,765; June 1.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abell, George L., Pitcairn, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Polarized-field generator. 2,320,841; June 1.
Aerovox Corporation. (See Waterman, Herbert, assignor.)
Aircraft Screw Products Company. (See Hood, James B., assignor.)
Air Preheater Corporation, The. (See Cooper, Roland S., assignor.)
Airetool Mfg. Company, The. (See Ilgen, Grover F., assignor.)
Ajax Electric Furnace Corporation. (See Wyatt, James R., assignor.)
Akins, Jake, assignor of one-half to A. A. Dorman, Statesboro, Ga. Propeller. 2,320,451; June 1.
Alcock, John F. (See Ricardo, H. R., and Alcock.)
Alexander, Johan W. (See van Lammeren, J. A., and Alexander.)
Alien Property Custodian. (See Bähring, Herbert.)
Alien Property Custodian. (See Balz, M., and Kosche.))
Alien Property Custodian. (See Binder, Richard.)
Alien Property Custodian. (See Boucke, Heinz.)
Alien Property Custodian. (See Bouwers, Albert.)
Alien Property Custodian. (See Conrady, Hans.)
Alien Property Custodian. (See Dornier, Claude.)
Alien Property Custodian. (See Ehresmann, A., and Streibel.)
Alien Property Custodian. (See Flechsig, Werner.)
Alien Property Custodian. (See Forro, Gyorgy.)
Alien Property Custodian. (See Gilli, Paul.)
Alien Property Custodian. (See Hahn, Arthur.)
Alien Property Custodian. (See Hempel, Emil.)
Alien Property Custodian. (See Hertel, Heinrich.))
Alien Property Custodian. (See Junghans, Helmut.)
Alien Property Custodian. (See Kirchhof, Julius.)
Alien Property Custodian. (See Koch, Albert.)
Alien Property Custodian. (See Lang, Richard.)
Alien Property Custodian. (See Löpp, E., and Greifendorf.)
Alien Property Custodian. (See Mahnken, Werner.)
Alien Property Custodian. (See Modigliani, Gino.)
Alien Property Custodian. (See Moineau, René J. L.)
Alien Property Custodian. (See Petersen, S., and Schlack.)
Alien Property Custodian. (See Picard, R., and Fays.)
Alien Property Custodian. (See Popov, Vladimir D.)
Alien Property Custodian. (See Riester, Oskar.)
Alien Property Custodian. (See Schneider, Kurt.)
Alien Property Custodian. (See Schroeder, Richard.)
Alien Property Custodian. (See Schultz, Erich.)
Alien Property Custodian. (See Sertin, Jean V. L.)
Alien Property Custodian. (See Tassel, Edmond M.)
Alien Property Custodian. (See von Bertele, Hans.)
Alien Property Custodian. (See Waseige, Charles R.)
Alien Property Custodian. (See Wiest, W., and Winkeler.)
Alien Property Custodian. (See Zicher, Gustav.)
Allen, Charles L., Portland, assignor of two and one-half per cent to E. Brunk, Salem, Oreg. Well drilling bit. 2,320,550; June 1.
Allenbaugh, George G., and R. D. Bixler, assignors to The Ohio Injector Company, Wadsworth, Ohio. Method of and machine for assembling inflation valve parts. 2,320,452; June 1.
Allis-Chalmers Manufacturing Company. (See Michael, J. H., and Sillers, assignors.)
Allmäna Svenska Elektriska Aktiebolaget. (See Ericson, Nils, assignor.)
Almgren, August E. (See Hothersall, J. M., and Almgren.))
American Bosch Corporation. (See Martin, J. F., Schwarzmann, and Bach, assignors.)
American Brake Shoe and Foundry Company, The. (See Huber, Albert F., assignor.)
American Brake Shoe and Foundry Company, The. (See Wilson, Rosser L., assignor.)
American Can Company. (See Hothersall, J. M., and Almgren, assignors.)
American Can Company. (See Shmurak, Benjamin, assignor.)
American Cyanamid Company. (See Oldham, Wilbur N., assignor.)
American Display Company, The. (See Dunkelberger, Milton S., assignor.)
American Lurgi Corporation. (See Knoop, H., and Miedel, assignors.)
American Machine & Foundry Company. (See Jensen, Thormod, assignor.)
American Optical Company. (See Moulton, Harold R., assignor.)

American Ozone Company. (See Daily, James M., assignor.)
American Viscose Corporation. (See Haley, Hugh D., assignor.)
Ampco Metal, Inc. (See Swift, Clinton E., assignor.))
Ams, Max, Machine Company, The. (See Brenzinger, Julius, assignor.)
Anderson, Jasper E. (See Robinson, W. H., and Anderson.)
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Computing machine. 2,320,399; June 1.
Apponaug Company, The. (See Ryder, Edward B., Jr., assignor.)
Appton, Lorintha B. (See Appton, Oliver O., assignor.)
Appton, Oliver O., assignor to L. B. Appton, New York, N. Y. Exhaust control for air hammers. 2,320,340; June 1.
Archer, Gleason L., Boston, Mass., assignor to Suffolk University. Automatic tank destroyer. 2,320,903; June 1.
Arisman, Mervin B. (See Turner, B. S., and Arisman.)
Armstrong Cork Company. (See McCartney, J. C., and Jaynes, assignors.)
Armstrong Cork Company. (See Pennell, Philip H., assignor.)
Arnesen, Walter A., New York, assignor to National Electric Instrument Co. Inc., Long Island City, N. Y. Speculum. 2,320,709; June 1.
Arnold, Charles F., and L. L. Kortkamp, assignors to General Motors Corporation, Detroit, Mich. Paint inspection. 2,320,842; June 1.
Arvey Corporation, et al. (See Klein, Charles, assignor.)
Ashby, Carl T., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,320,500; June 1.
Associated Electric Laboratories, Inc. (See Voss, John H., assignor.)
Athey Truss Wheel Company. (See Kuchar, Joseph, assignor.)
Atlantic Refining Company, The. (See Leum, Leonard N., assignor.)
Babcock & Wilcox Company, The. (See Bailey, Ervin G., assignor.)
Bach, Edward M. (See Martin, J. F., Schwarzmann, and Bach.)
Bachkai, Bela, Jamaica, N. Y. Vehicle passing mirror. 2,320,904; June 1.
Badenhausen, John P., Philadelphia, Pa. High-pressure steam generator. 2,320,503; June 1.
Bähr, Kurt. (See Zerweck, W., Müller, and Bähr.)
Bähring, Herbert, Klein-Machnow, Germany; vested in the Alien Property Custodian. Relaxation oscillator. 2,320,551; June 1.
Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J. Vapor generator. 2,320,343; June 1.
Bailey, Stanley J., Snyder, assignor to Spencer Lens Company, Buffalo, N. Y. Binocular. 2,320,504; June 1.
Baldwin Rubber Company. (See Brooks, Raymond O., assignor.)
Bales, Janet M. (See Bent, Franklin, assignor.)
Balz, Max, Esslingen-on-the-Neckar, and R. Kosche, Stuttgart-Unterturkheim, Germany; vested in the Alien Property Custodian. Shock absorber arrangement especially for motor vehicles. 2,320,552; June 1.
Barnes, Byron H., San Marino, and B. S. Minor, Whittier, assignors, by mesne assignments, to B. H. and H. C. Barnes, San Marino, Calif. Means for positioning expansible collars on pipe or the like. 2,320,553; June 1.
Barnes, Harriet C., et al. (See Barnes, B. H., and Minor, assignors.)
Barrett, C. E., & Company. (See Feig, Edward C., assignor.)
Barrett, Edward R., assignor to Gar Wood Industries, Inc., Detroit, Mich. Hydraulic spooling device. 2,320,554; June 1.
Bartlett, Marjorie. (See Bartlett, Norman, assignor.)
Bartlett, Norman, assignor of one-half to M. Bartlett, North Tonawanda, N. Y. Amusement apparatus. 2,320,555; June 1.
Bastian-Blessing Company, The. (See Buttner, William C., assignor.)
Bastian-Blessing Company, The. (See Hooper, Virgil I. and L. G., assignors.)
Batcholts, Clinton, Hoosick Falls, N. Y., assignor to Specialty Insulation Manufacturing Company, Inc. Hydraulic valve. 2,320,905; June 1.
Bates, William P., Lynnfield, Mass. Photographic printing machine. 2,320,334; June 1.

Baudry, René, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Construction for dynamoelectric machines. 2,320,843; June 1.
Bauer, Edward G., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Quality grader. 2,320,335; June 1.
Bauer, William W. (See Gerhart, H. L., and Bauer.)
Beauty Industries, Limited. (See Jopson, William S., assignor.)
Bedell, Charles E., Port Richmond, Staten Island, N. Y., assignor to W. L. Pison, Clifton, N. J. Outlet box. 2,320,400; June 1.
Beech-Nut Packing Company. (See Grant, Donald R., assignor.)
Beene, Harry C. (See Mitchell, D. L., Marks, and Beene.)
Behrens, Herbert C., Haddon Heights, assignor to Samuel M. Langston Co., Camden, N. J. Speed control mechanism for cutoffs. 2,320,710; June 1.
Beizer, Harold H., Camden, and L. H. Davis, Haddonfield, N. J., assignors to Radio Corporation of America. Electrical pulse controlling means. 2,320,401; June 1.
Belanger, Louis J., Graniteville, Vt. Auxiliary seat structure. 2,320,344; June 1.
Belfit Foundations Inc. (See Clark, Elizabeth C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Campbell, Thaddeus C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Herckmans, Alfred, assignor.)
Bell Telephone Laboratories, Incorporated. (See Lang, Wilmarth Y., assignor.)
Bell Telephone Laboratories, Incorporated. (See Logan, Mason A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mead, E. D., and Miller, assignors.)
Bell Telephone Laboratories, Incorporated. (See Skellett, Albert M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ulrich, Horace W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Wrathall, Leishman R., assignor.)
Belshaw, Charles F., Greenville, Mich. Display and storage case. 2,320,556; June 1.
Bendar, Arthur Z., Ingleside, Ill. Flight position and force indicating instrument. 2,320,505; June 1.
Bendix Aviation, Ltd. (See Trautman, Walter C., assignor.)
Bennett, Charles A. (See Gaus, G. E., Bennett, and Ross.)
Bennett, Charles E., Ridgewood, and F. C. Meyer, Wyckoff, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Method of forming dams. 2,320,506; June 1.
Bensel-Brice Corporation. (See Bensel, Duryea, assignor.)
Bensel, Duryea, assignor to Bensel-Brice Corporation, Los Angeles, Calif. Preserving foods. 2,320,982; June 1.
Bent, Franklin, assignor to J. M. Bales, Los Angeles, Calif. Flush tank silencer. 2,320,906; June 1.
Berst-Forster-Dixfield Company. (See Montague, S. F., and Pierce, assignors.)
Betzen, John L., Wichita, Kans. Rotary grain threshing machine. 2,320,557; June 1.
Binder, Richard, Schweinfurt, Germany; vested in the Alien Property Custodian. Shock absorber with springplate valve. 2,320,697; June 1.
Birr, Rudolph G., Lombard, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Stop mechanism, and cabinet in combination with such stop mechanism. 2,320,453; June 1.
Bixler, Ralph D. (See Allenbaugh, G. G., and Bixler.)
Black-Clawson Company, The. (See Staege, Stephen A., assignor.)
Black, Howard C., assignor to Industrial Patents Corporation, Chicago, Ill. Preparation of organic acid esters. 2,320,844; June 1.
Blaw-Knox Company. (See Croft, George M., assignor.)
Blessing, Gregory W., Moorestown, N. J., assignor to Radio Corporation of America. Loud-speaker. 2,320,402; June 1.
Bliss, Elmer J., Chilmark, Mass. Shoe fitting device. 2,320,768; June 1.
Blizard, John, Garden City, assignor to Foster Wheeler Corporation, New York, N. Y. Apparatus for the separation of fluids. 2,320,345; June 1.
Block, Bernard H., Detroit, Mich. Reclining furniture. 2,320,907; June 1.
Bloomer Bros. Company. (See Shearer, John P., assignor.)
Bolton, Marion A., Hancock, Mich. Bedpan. 2,320,845; June 1.
Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Terpene condensation product. 2,320,846; June 1.
Boston Wire Stitcher Company. (See Cavanagh, John F., assignor.)
Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
Boucke, Heinz, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Audio band width control. 2,320,558; June 1.
Bouwers, Albert, Eindhoven, Netherlands; vested in the Alien Property Custodian. X-ray tube. 2,320,559; June 1.
Bowes, Urban E., Perrysburg, Ohio. Forming initially liquid materials. 2,320,341; June 1.
Bowling, Robert T., assignor to Potlatch Forests, Inc., Lewiston, Idaho. Glue machine. 2,320,715; June 1.
Boyle, Edward D., Valdosta, Ga. Mold charging apparatus. 2,320,714; June 1.
Boyle, Robert S., Akron, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,320,507; June 1.
Braddock, Allard A., Evanston, Ill. Toy. 2,320,560; June 1.
Brady, James H., Louisville, Ky., assignor of one-half to W. E. Curry, Sunset Harbor, Fla. Cigarette holder. 2,320,561; June 1.
Bramhall, Arthur, Livingston, N. J. Cream separator device for milk bottles. 2,320,711; June 1.
Bransky, David W., assignor to Standard Oil Company, Chicago, Ill. Regeneration apparatus. 2,320,562; June 1.
Braun Lumber Corporation. (See Presley, William C., assignor.)
Brelsford, Harry E., Birmingham, assignor to Diamond Power Specialty Corporation, Detroit, Mich. Liquid level gauge. 2,320,563; June 1.
Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Blank separating and feeding device. 2,320,712; June 1.
Brewer, Nicholas L., North Agawam, Mass., assignor to Savage Arms Corporation, New York, N. Y. Feed mechanism for firearms. 2,320,403; June 1.
Bridger, Grover L., near Sheffield, Ala. Treating ferrophosphorus. 2,320,342; June 1.
Bright, Ray H., Chase, Kans. Gauge pole wiper. 2,320,909; June 1.
Brillo Manufacturing Company. (See Field, Crosby, assignor.)
Bristol Aeroplane Company Limited. (See Downer, F. M., and Underwood, assignors.)
Broekhuysen, William C., Garden City, N. Y., assignor to International Cigar Machinery Company. Photoelectric device for cigar machines. 2,320,346; June 1.
Brooks, Raymond O., assignor to Baldwin Rubber Company, Pontiac, Mich. Method and apparatus for manufacturing tubing. 2,320,564; June 1.
Brose, Horace B., Chicago, Ill. Automatic slide projector. 2,320,910; June 1.
Brosseau, John B. (See Brosseau, Joseph E. and J. B.)
Brosseau, Joseph E. and J. B., West Chicago, Ill. Control device. 2,320,347; June 1.
Brotman, Hyman, Detroit, Mich. Laundry apparatus. 2,320,713; June 1.
Bruengger, Heinrich. (See Graenacher, C., Rossi and Bruengger.)
Bruner, Frank H., and W. E. Skelton, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Alkylation of hydrocarbons. 2,320,336; June 1.
Brunk, Earl. (See Allen, Charles L., assignor.)
Brunswick-Balke-Collender Company, The. (See Henkel, A. L., and Ewing, assignors.)
Bryce, James W., Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y. Cathode tube recorder for calculating machines. 2,320,337; June 1.
Bryce, James W., Glen Ridge, N. J., assignor to International Business Machine Corporation, New York, N. Y. Verifying machine. 2,320,338; June 1.
Bucklen, Herbert E., Jr. (See Trautman, Charles W., assignor.)
Buenger, Edward F., Oak Park, and W. Nelson, assignors to Wilson-Jones Company, Chicago, Ill. Loose leaf binder. 2,320,404; June 1.
Bulldog Electric Products Company. (See Frank, W. H., and Messing, assignors.)
Bulldog Electric Products Company. (See Frank, W. H., and Platz, assignors.)
Bulldog Electric Products Company. (See Platz, Elwood T., assignor.)
Bulldog Electric Products Company. (See Platz, E. T., and Frank, assignors.)
Burns, Charles R., West Reading, Pa., assignor to Vanity Fair Mills, Inc. Making warp knit fabrics. 2,320,405; June 1.
Burns, Frank D., and W. B. Thorne, assignors to The Hays Corporation, Michigan City, Ind. Stabilizer for controllers or regulators. 2,320,508; June 1.
Burroughs, Samuel G. (See Corkery, F. W., and Burroughs.)
Busignies, Henri G., Forest Hills, assignor to International Standard Electric Corporation, New York, N. Y. Radio compass. 2,320,908; June 1.
Butenandt, Adolf, Berlin-Dahlen, Germany, assignor to Schering Corporation, Bloomfield, N. J. Δ^5-cholestenone-3 and producing the same. 2,320,847; June 1.
Buttner, William C., Winnetka, assignor to The Bastian-Blessing Company, Chicago, Ill. Safety valve. 2,320,339; June 1.
Byars, Hollie L., Parrish, Ala. Field umbrella. 2,320,848; June 1.

Cabot, Deane A., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Spindle brake mechanism. 2,320,565; June 1.

Calderazzo, Dominick J., Brooklyn, N. Y. Making shoes and slippers. 2,320,406; June 1.

Campbell, Thaddeus C., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Retractile wheel assembly. 2,320,407; June 1.

Carbide and Carbon Chemicals Corporation. (See Goodman, Henry G., Jr., assignor.)

Carbide and Carbon Chemicals Corporation. (See Murray, I. L., and Roberts, assignors.)

Cardona, Charles J. (See Livingston, Harold A., assignor.)

Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Method of and blank for making slide fasteners. 2,320,566; June 1.

Carlson, Otto M. (See Kent, C. E., and Carlson.)

Carlson, Samuel E., Alhambra, Calif. Internal safety valve system. 2,320,567; June 1.

Carroll, Fred M., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,320,810; June 1.

Case, J. I., Company. (See Geraldson, Gerald, assignor.)

Caterpillar Tractor Co. (See Eberhard, Harmon S., assignor.)

Cavanagh, John F., Providence, assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener-applying implement. 2,320,568; June 1.

Celanese Corporation of America. (See Hawtin, P. R., and Gardner, assignors.)

Celanese Corporation of America. (See Rooney, J. H., Hawtin and Macpherson, assignors.)

Chalmers, Bruce. (See Tait, W. H., and Chalmers.)

Champion, William J., assignor to Ditto, Incorporated, Chicago, Ill. Duplication process and master sheet for use therein. 2,320,769; June 1.

Chandler & Price Company, The. (See Jirousek, Joseph F., assignor.)

Cheasley, Thomas C., Kansas City, Mo. Combination retort and hearth for stokers. 2,320,410; June 1.

Chicago Telephone Supply Company. (See Turner, B. S., and Arisman, assignors.)

Christofferson, Thorvald R. (See Nilsen, N., and Christofferson.)

Chromogen, Incorporated. (See Gáspár, Béla, assignor.)

Cincinnati Milling Machine Co., The. (See Ernst, H., and Martellotti, assignors.)

Clark Controller Company. (See Rippl, Charles H., assignor.)

Clark, Elizabeth C., assignor to Belfit Foundations Inc., New York, N. Y. Undergarment. 2,320,408; June 1.

Clark, J. R. Company, The. (See John, Edward T., assignor.)

Clark, Raymond F. (See Jennings, W. T., and Clark.)

Clarkson, Ralph E., Hamden, assignor to Western Cartridge Company, New Haven, Conn. Firearm. 2,320,348; June 1.

Claybourn, Glen L., Wilkinsburg, and L. E. Keck, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Interlock system. 2,320,849; June 1.

Clerk, Robert C. (See Sinclair, H., and Clerk.)

Clippert Brick Company. (See Smith, Frank M., assignor.)

Cohen, Jonas, Los Angeles, Calif. Illuminated handbag. 2,320,409; June 1.

Cold Spring Granite Company. (See Stein, Albert A., assignor.)

Coley, James P. (See Peter, L. H., and Coley.)

Commercial Solvents Corporation. (See Lansing, Arthur C., assignor.)

Commercial Solvents Corporation. (See Robinette, Hillary, assignor.)

Communication Patents, Inc. (See Nicolson, Alexander McL., assignor.)

Compo Shoe Machinery Corporation. (See Dawson, Fred, assignor.)

Condenser Corporation of America. (See Hild, Henry F., assignor.)

Connors, Patrick J., Arlington, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Welt laying machine. 2,320,411; June 1.

Conrady, Hans, Kelkheim in Taunus, Germany; vested in the Alien Property Custodian. Treatment of worn abrasive belts. 2,320,569; June 1.

Consolidated Irrigation District. (See Dukes, William E., assignor.)

Container Corporation of America. (See Van Saun, Raymond H., assignor.)

Cook, John, Ridgewood, N. J. Apparatus for annealing and coating wire. 2,320,412; June 1.

Cook, Leonard W., Stratford, Conn., assignor to General Electric Company. Protective device. 2,320,811; June 1.

Cook, Robert M., Los Angeles, Calif., assignor, by mesne assignments to International Cementers, Inc. Conveying and mixing apparatus. 2,320,509; June 1.

Cook, Willard G., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,320,850; June 1.

Cooper, Roland S., River Forest, Ill., assignor to The Air Preheater Corporation, New York, N. Y. Corrosion reduction in air preheaters. 2,320,911; June 1.

Corey, George H. (See McCarthy, Aimee M., assignor.)

Corkery, Frank W., Crafton, and S. G. Burroughs, Pittsburgh, Pa., assignors to Pennsylvania Industrial Chemical Corporation. Terpene adhesive. 2,320,716; June 1.

Corkery, Frank W., Crafton, and S. G. Burroughs, Pittsburgh, Pa., assignors to Pennsylvania Industrial Chemical Corporation. Terpene coatings. 2,320,717; June 1.

Corkery, Frank W., Crafton, and S. G. Burroughs, Pittsburgh, Pa., assignors to Pennsylvania Industrial Chemical Corporation. Rubber compound. 2,320,718; June 1.

Cornwell, Ralph T. K., and C. M. Rosser, Fredericksburg, and J. A. Yourtee, Falmouth, assignors to Sylvania Industrial Corporation, Fredericksburg, Va. Printing and article produced thereby. 2,320,510; June 1.

Cotchett, Louis M., Hingham, and J. A. Kennedy, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass. Bobbin for spinning frames. 2,320,965; June 1.

Cover, Harvey S., South Bend, Ind. Respirator. 2,320,770; June 1.

Cowles, Irving, Detroit, Mich., assignor to himself and R. W. Lotz, Chicago, Ill., as successor co-trustees of Utility Patents Trust. Conduit and coupling therefor. 2,320,812; June 1.

Cowles, Irving, Detroit, Mich., assignor to I. Cowles and R. W. Lotz, Chicago, Ill., successor cotrustees to Union Bank of Chicago, Ill. Coupling for flanged metal tubing. 2,320,813; June 1.

Cox, Joseph H. (See Myers, Henry C., and Cox.)

Cramer, Archibald B. (See Hibbert, H., and Cramer.)

Cramer, Paul L., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Depolymerizing olefinic polymers. 2,320,851; June 1.

Crampton, Basil R., Grand Rapids, Mich. Flush tank operating apparatus. 2,320,912; June 1.

Crane Co. (See Kent, C. E., and Carlson, assignors.)

Crever, Frederick E. (See Shoults, D. R., and Crever.)

Crocker, Clarence P., Arcata, Calif. Cream dipper. 2,320,570; June 1.

Croft, George M., assignor to Blaw-Knox Company, Pittsburgh, Pa. Device responsive to changes in density of liquids. 2,320,720; June 1.

Cropper, Walter, Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,320,349; June 1.

Crowell, Thomas W., Matthews, N. C. Liquid fuel or lubricant supply tank. 2,320,913; June 1.

Cudini, Roger G., Southfield, Township, Oakland County, assignor to R. D. B. Moynahan, doing business as the Moynahan Bronze Co., Detroit, Mich. Work supporting fixture and method. 2,320,814; June 1.

Cummings, Gerald W., Dallas, Tex. Sash operating mechanism. 2,320,413; June 1.

Cunningham, James, New York, assignor of twenty per cent to M. Dichiaro, Brooklyn, N. Y. Color separation in lithography. 2,320,914; June 1.

Curry, Walter A., Oakland, Calif. Hack saw. 2,320,511; June 1.

Curry, William E. (See Brady, James H., assignor.)

Curtis, John C., Claremont, N. H., assignor to Sullivan Machinery Company. Motor. 2,320,571; June 1.

Cushing, George, Newark, N. J., assignor of one-third to G. C. Johnson, Bronxville, and one-third to T. G. W. Nevell, Bayside, Long Island, N. Y. Piano lamp. 2,320,815; June 1.

Cushman's Sons Inc. (See MacManus, John, assignor.)

Daily, James M., assignor to American Ozone Company, Chicago, Ill. Apparatus for and method of treating and removing suspended particles in liquids. 2,320,512; June 1.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Aminoplast containing a halogenated nitrile. 2,320,816; June 1.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Polysalicylide-modified aminoplast. 2,320,817; June 1.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Condensation products of aminotriazines, aldehydes, and halogenated aliphatic nitriles. 2,320,818; June 1.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Condensation products of an aminotriazole, an aldehyde, and a halogenated nitrile. 2,320,820; June 1.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and bisdiamino triazinyl disulphides. 2,320,819; June 1.

Daley, Frank J. (See Peterson, V. W., and Daley.)

Dalloz, Magdalen, Jacksonville, Fla. Garment hanger. 2,320,414; June 1.

Dalloz, Magdalen, Jacksonville, Fla. Bag for clothespins and garment hangers. 2,320,415; June 1.

Dally, Roy, assignor to Webster Electric Company, Racine, Wis. Stylus for reproducers. 2,320,416; June 1.

Danforth, Richard S., Berkeley, Calif. Twin fluke anchor. 2,320,966; June 1.

Dann, Charles W., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. 2,320,572; June 1.

Davidson, Paul B., Wilkinsburg, Pa., assignor to Strathmore Paper Company, West Springfield, Mass. Paper sizing. 2,320,771; June 1.

Davies, Wilfred W., Chicago, and G. A. Page, La Grange, assignors to United Air Lines Transport Corporation, Chicago, Ill. Valved connector. 2,320,719; June 1.

Davis, Lewis H. (See Beizer, H. H., and Davis.)

Dawson, Fred, West Roxbury, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Pre-welt lasting machine. 2,320,915; June 1.

Dawson, John W., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Controlled ignition discharge tube system. 2,320,916; June 1.

De Falco, Joseph, Vineland, N. J. Modernistic shade and adjusting same. 2,320,852; June 1.

Denner, Francis H., Dover, N. J. Fuse. 2,320,351; June 1.

Delahanty, Patrick J., Cliffside Park, N. J. Distillation apparatus for steam plants. 2,320,853; June 1.

Del Riccio, Lorenzo, Los Angeles, Calif. Camera. 2,320,350; June 1.

Desjardins, Joseph. (See James, T. R., and Desjardins.)

Dessauer, John. (See Yauck, E. C., and Dessauer.)

Dethridge, Kenneth G., South Yarra, near Melbourne, Victoria, Australia. Variable speed power transmission mechanism. 2,320,854; June 1.

De Vilbiss Company, The. (See Schmitt, Joy B., assignor.)

Diamond Power Specialty Corporation. (See Brelsford, Harry E., assignor.)

Dichiaro, Michael. (See Cunningham, James, assignor.)

Dickson, James T. (See Jackson, L. E., and Dickson.)

Ditto, Incorporated. (See Champion, William J., assignor.)

Ditto, Incorporated. (See Tathwell, Joseph H., assignor.)

Doelker, William J., assignor to The National Cash Register Company, Dayton, Ohio. Hardening metals. 2,320,573; June 1.

Doman, John P., Los Angeles, Calif. Hinge. 2,320,772; June 1.

Dorman, Alfred A. (See Akins, Jake, assignor.)

Dornier, Claude, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian. Hydroaircraft. 2,320,574; June 1.

Doughty, Reginald A., Abilene, Tex. Wire rope clamp and socket. 2,320,543; June 1.

Drake, Edward P., and C. D. Ryan, Los Angeles, Calif., assignors to National Postal Meter Company, Inc., Rochester, N. Y. Ipking device for printing apparatus. 2,320,698; June 1.

Drummond, Folsom E., Metuchen, N. J., assignor to New Wrinkle, Inc., Wilmington, Del. Machine for coating absorbent surfaces. 2,320,513; June 1.

Dukes, William E., near Kingsburg, assignor to Consolidated Irrigation District, Selma, Calif. Ditch cleaner. 2,320,855; June 1.

Dunkelberger, Milton S., assignor to The American Display Company, Dayton, Ohio. Mechanical finger gripping device. 2,320,967; June 1.

Dunn, John, Yonkers, assignor to Peabody Engineering Corporation, New York, N. Y. Fuel burner. 2,320,575; June 1.

Dunn, John, Yonkers, assignor to Peabody Engineering Corporation, New York, N. Y. Air register. 2,320,576; June 1.

Dunn, Thomas H., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Geochemical prospecting. 2,320,577; June 1.

Du Pont, E. I., de Nemours & Company. (See Pilcher, William S., assignor.)

Durdin, Augustus C., Jr., Lincolnwood, Ill. Comminutor. 2,320,514; June 1.

Eberhard, Harmon S., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Transmission. 2,320,454; June 1.

Edelmann, Leo, Chicago, Ill. Hydrometer. 2,320,417; June 1.

Ederer, Lothar A. (See Runquist, E. M., and Ederer.)

Ederer, R. J., Company. (See Runquist, E. M., and Ederer, assignors.)

Edison, Thomas A., Incorporated. (See Dann, Charles W., assignor.)

Eggert, John, Leipzig-Gohlis, and B. Wendt, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Color photographs. 2,320,418; June 1.

Ehlers, Otto W., Los Angeles, Calif. Tire carrier for the cover of an automobile luggage compartment. 2,320,856; June 1.

Ehresmann, Adam, Kaiserslautern, Pfalz, and L. Streibel, Karlsruhe, Baden, Germany; vested in the Alien Property Custodian. Sole-sewing machine. 2,320,578; June 1.

Eisenbeis, George G., assignor to Stow Manufacturing Company, Inc., Binghamton, N. Y. Ferrule. 2,320,579; June 1.

Electro Manganese Corporation. (See Fink, C. G., and Kolodney, assignors.)

Electro Manganese Corporation. (See Stewart, Robert M., assignor.)

Electrolux Corporation. (See Ross, Adrian E., assignor.)

Elliott, Harold E., and L. Mawbey, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe buffing machine. 2,320,420; June 1.

Elliott, Harvey F. (See Kromer, W. R., and Elliott.)

Ellis, Harold E., Lima, and W. C. Spear, Wapakoneta, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Reversing capacitor motor. 2,320,419; June 1.

Ely, Oscar L., Boston, Mass. Portable lamp. 2,320,917; June 1.

Emerson Electric Mfg. Co., The. (See Logan, Edwin W., assignor.)

Emsco Derrick & Equipment Company. (See Webster, Samuel W., assignor.)

Engel, Curt, Saint Louis, France, and K. Pfachler, Riehen, near Basel, assignors to J. R. Geigy A. G., Basel, Switzerland. Quaternary indolc derivatives and their manufacture. 2,320,580; June 1.

Engle, Edgar S., Greensburg, Pa. Capping device. 2,320,515; June 1.

Erickson, John E., Pawtucket, assignor to R. Healey, Cumberland, R. I. Pressing machine. 2,320,857; June 1.

Ericksson, Emil, assignor to Standard Process Corporation, Chicago, Ill. Lay-on apparatus and method. 2,320,352; June 1.

Ericson, Nils, Stockholm, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Electrodynamic oscillation damper. 2,320,721; June 1.

Ernst, Hans, and M. E. Martellotti, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Power transmission mechanism. 2,320,353; June 1.

Esterbrook Steel Pen Manufacturng Co., The. (See Longmaid, Sydney E., assignor.)

Ewing, Burke M. (See Henkel, A. L., and Ewing.)

Exercycle Corporation. (See Turner, A. W., and Greene, assignor.)

Fader, James W., Dorchester, Mass. Manifolding mechanism for typewriters. 2,320,918; June 1.

Falcon, Jeronimo, Detroit, Mich. Outrigger operating means. 2,320,919; June 1.

Faulhaber, Roland W., Monroeville, Ohio. Saddle construction. 2,320,421; June 1.

Fays, René. (See Picard, R., and Fays.)

Fearon, Robert E. (See Scherbatskoy, S. A., and Fearon.)

Fedde, Arnold M., Brooklyn, N. Y. Gyroscope system. 2,320,354; June 1.

Feig, Edward C., assignor to C. E. Barrett & Company, Chicago, Ill. Pocket clip. 2,320,455; June 1.

Fichter, Ludwig. (See Schwarz, B. A., and Fichter.)

Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Apparatus for making metal wool products. 2,320,858; June 1.

Fink, Colin G., New York, and M. Kolodney, Brooklyn, N. Y., assignors to Electro Manganese Corporation, Minneapolis, Minn. Electrodeposition of manganese. 2,320,773; June 1.

Firguson Door Co. (See Jackson, L. E., and Dickson, assignors.)

First, George B., and H. Grotewold, assignors to Stokes and Smith Company, Summerdale, Philadelphia, Pa. Apparatus for conveying and filling cartons. 2,320,581; June 1.

First National Bank of Tampa, Fla., executor. (See Pierce, James B., Jr.)

Flechsig, Werner, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Cathode ray tube. 2,320,582; June 1.

Fletcher, James, assignor to Tipaloy, Ind., Detroit, Mich. Welding electrode. 2,320,920; June 1.

Flynt, Frank V., Scotia, N. Y., assignor to General Electric Company. Multiple switch and the like. 2,320,774; June 1.

Food Machinery Corporation. (See Bauer, Edward G., assignor.)

Foord, Stanley G., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Stabilization of styrene. 2,320,859; June 1.

Ford, James G., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Rust-proofing material for metals. 2,320,921; June 1.

Ford, James G., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. High-voltage coil insulation. 2,320,922; June 1.

Forro, György, Budapest, Hungary; vested in the Alien Property Custodian. Mold for manufacture of dipped articles. 2,320,583; June 1.

Forsberg, Carl B., Jacobs, Natal, Union of South Africa. Folding chair. 2,320,923; June 1.

Forsyth, Benjamin F. (See Wesling, Louis, assignor.)

Foster Wheeler Corporation. (See Blizard, John, assignor.)

Frank, William H. (See Platz, E. T., and Frank.)

Frank, William H., and E. T. Platz, assignors to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,320,355; June 1.

Frank, William H., and J. A. Messing, assignors to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,320,356; June 1.

Franta, William A. (See Muskat, I. E., Pollack, Strain, and Franta.)

Frazer-Nash, Archibald G., Tolworth, England. Valved coupling. 2,320,456; June 1.

Fremlin, John H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge apparatus. 2,320,860; June 1.

French Oil Mill Machinery Co., The. (See Stacy, Thomas F., assignor.)

French Oil Mill Machinery Company, The. (See Upton, Charles B., assignor.)

Fröhlich, Alfred, Dessau, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Production of photographic color images. 2,320,422; June 1.

Frost, Paul, Munich, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Magazine loaded with different sorts of films. 2,320,722; June 1.

Furman, Frank J. (See Mills, A. W., and Furman.)

G-M Laboratories, Inc. (See McMaster, Archie J., assignor.)

Gale, Alfred J. (See Okolicsanyi, F., and Gale.)

Gammeter, John R., Akron, Ohio. Apparatus for testing thin rubber articles. 2,320,516; June 1.

Gardner, Cyril. (See Hawtin, P. R., and Gardner.)

Garner, Carlton M., New Madrid County, Mo. Tractor operated hole digger. 2,320,775; June 1.

Gáspár, Béla, Hollywood, Calif., assignor to Chromogen, Incorporated. Producing color separation images. 2,320,358; June 1.

Gates, Jefferson E., Jacksonville, Fla. Fluorescent lamp. 2,320,424; June 1.

Gatty, Harold C., Treasure Island, Calif. Ascertaining from aircraft in flight variations in the force of the wind at various distances below the aircraft. 2,320,359; June 1.

Gaus, George E., Washington, D. C., C. A. Bennett, and A. G. Ross, Stoneville, Miss., dedicated to the free use of the People of the territory of the United States. Cotton sampler apparatus. 2,320,544; June 1.

Gaylord, Levi P. M., Lowville, N. Y. Auger attachment for snowplows or the like. 2,320,723; June 1.

Geigy, J. R., A. G. (See Engel, C., and Pfaehler, assignors.)

Gelfand, Max, Dallas, Tex. Photographic film. 2,320,517; June 1.

General Aniline & Film Corporation. (See Eggert, J., and Wendt, assignors.)

General Aniline & Film Corporation. (See Fröhlich, Alfred, assignor.)

General Aniline & Film Corporation. (See Frost, Paul, assignor.)

General Aniline & Film Corporation. (See Kumetat, K., and Riester, assignors.)

General Aniline & Film Corporation. (See Lessler, Lew W., assignor.)

General Aniline & Film Corporation. (See Zerweck, W., Müller, and Bähr, assignors.)

General Electric Company. (See Cook, Leonard W., assignor.)

General Electric Company. (See D'Alelio, Gaetano F., assignor.)

General Electric Company. (ee D'Alelio, Gaetano F., and Underwood, assignors.)

General Electric Company. (See Flynt, Frank V., assignor.)

General Electric Company. (See Moyer, E. E., and Schmidt, Jr., assignors.)

General Electric Company. (See Race, Hubert H., assignor.)

General Electric Company. (See Robinson, W. H., and Anderson, assignors.)

General Electric Company. (See Shoults, D. R., and Crever, assignors.)

General Electric Company. (See Steadwell, Elery, assignor.)

General Mills, Inc. (See James, T. R., and Desjardins, assignors.)

General Motors Corporation. (See Arnold, C. F., and Kortkamp, assignors.)

General Motors Corporation. (See Cramer, Paul L., assignor.)

General Motors Corporation. (See Henney, Charles F., assignor.)

General Motors Corporation. (See Hill, Robert H., assignor.)

General Motors Corporation. (See Hull, Harry B., assignor.)

General Motors Corporation. (See Manning, William H., assignor.)

General Motors Corporation. (See Sahlin, Henry, assignor.)

General Motors Corporation. (See Schwarz, B. A., and Fichter, assignors.)

George, Roscoe H., West Lafayette, Ind., assignor to Radio Corporation of America. Modulated transmitter. 2,320,518; June 1.

Geraldson, Gerald, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Quick detachable coupling. 2,320,968; June 1.

Gerhart, Howard L., and W. W. Bauer, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Treating styrene-unsaturated dicarboxylic acid resins. 2,320,724; June 1.

Gibbs, Walter M. (See Ripley, C. T., and Gibbs.)

Gleringer, Carl K., and E. E. Greenberg, assignors to The Liebel-Flarsheim Company, Cincinnati, Ohio. Kymograph grid. 2,320,587; June 1.

Giesser, David, Chelsea, Mass. Shoe heel. 2,320,584; June 1.

Gift, Warren H., Bristol, assignor to Röhm & Haas Company, Philadelphia, Pa. Translucent polymeric methacrylic esters. 2,320,924; June 1.

Gill, James R., and W. Nolon, Los Angeles, Calif. Automatic trailer brake. 2,320,585; June 1.

Gilli, Paul, Vienna, Austria; vested in the Alien Property Custodian. Accumulator plant. 2,320,586; June 1.

Githens, Otto W., and G. Kende, assignors to Universal Camera Corporation, New York, N. Y. Camera. 2,320,423; June 1.

Glaes, Charles L., and J. F. Schott, assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Combining foam rubber. 2,320,425; June 1.

Goldsborough, Shirley L., Basking Ridge, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Single-pole protective relaying system. 2,320,861; June 1.

Goodman, George, Limited. (See Goodman, Graham B., assignor.)

Goodman, Graham B., Birmingham, assignor to George Goodman Limited, Birmingham, England. Making tubular rivets or sockets. 2,320,862; June 1.

Goodman, Henry G., Jr., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Wood stain solvents. 2,320,426; June 1.

Goodman Manufacturing Company. (See Wood, Frank J., assignor.)

Gorton, George, assignor to George Gorton Machine Co., Racine, Wis. Machine tool. 2,320,776; June 1.

Gorton, George, Machine Co. (See Gorton, George, assignor.)

Graenacher, Charles, Riehen, Carlo Rossi, and H. Bruenger, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Dyed cellulose materials of improved fastness to light and preparing same. 2,320,588; June 1.

Graham, Roy G., assignor to James R. Kearney Corporation, St. Louis, Mo. Connector. 2,320,777; June 1.

Grant, Donald R., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Marking Cellophane. 2,320,925; June 1.

Green, William G., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well surveying method and apparatus. 2,320,863; June 1.

Greenberg, Albert E. (See Gieringer, C. K., and Greenberg.)

Greene, Thomas V. (See Turner, A. W., and Greene.)

Greifendorf, Erwin. (See Löpp, E., and Greifendorf.)

Grey, Victor, assignor to Teletype Corporation, Chicago, Ill. Quick-change device. 2,320,360; June 1.

Groene, William F., and W. R. Meyer, assignors, by mesne assignments, to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Crankshaft chuck. 2,320,983; June 1.

Grotewold, Hans. (See First, G. B., and Grotewold.)

Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Packing assembly. 2,320,589; June 1.

Guardian Merchandising Corporation. (See Monnet, Georges, assignor.)

Guédon, Emile C., Audubon, N. J., assignor to Radio Corporation of America. Electrical signal-translating apparatus. 2,320,427; June 1.

Guthrie, Andrew J., St. Albans, W. Va. Rapid firing machine or bomb. 2,320,926; June 1.

Hagg, Arthur C., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thrust-bearing means. 2,320,927; June 1.

Hahn, Arthur, Balingen, Germany; vested in the Alien Property Custodian. Printing device for weighing machines. 2,320,592; June 1.

Haley, Hugh D., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Funnel. 2,320,590; June 1.

Haley, Hugh D., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Spinning funnel. 2,320,591; June 1.

Haloid Company, The. (See Yauck, E. C., and Dessauer, assignors.)

Hammarlund Manufacturing Company, The. (See Keith, Walter S., assignor.)

Hammell, Kemper M., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Fuel feed control device. 2,320,457; June 1.

Hannifin Manufacturing Company. (See Peterson, V. W., and Daley, assignors.)

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Oscillating amplifier and detecting system. 2,320,428; June 1.

Harley, Edward J., Philadelphia, Pa. Equalizing fulcrum arrangement. 2,320,864; June 1.

Hasbrouck, Harold J., Jr., Merchantville, N. J., assignor to Radio Corporation of America. Signal recording and reproducing system. 2,320,429; June 1.

Hautzenroeder, Richard W., Mansfield, Ohio. Filter. 2,320,725; June 1.

Hawkins, Frank D., Sioux Falls, S. Dak. Recoil pad. 2,320,430; June 1.

Hawtin, Philip R., and C. Gardner, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of sheet materials. 2,320,431; June 1.

Hawtin, Philip R. (See Rooney, J. H., Hawtin, and Macpherson.)

Hays Corporation, The. (See Burns, F. D., and Thorne, assignors.)

Healey, Raymond. (See Erickson, John E., assignor.)

Heath, William C., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Grating attachment. 2,320,593; June 1.

Heckman, John A., assignor to Miller Wrapping and Sealing Machine Company, Chicago, Ill. Wrapping machine. 2,320,865; June 1.

Hedmark, Martin. (See Munters, C. G., and Hedmark.)

Helal, Joseph. (See Rabil, Pierre J., assignor.)

Helbush, Herman H. (See Wallace, Frank C., assignor.)

Hempel, Emil, Zerbst, Germany; vested in the Alien Property Custodian. Injection molding machine. 2,320,594; June 1.

Hendrix, Joseph N. (See Hite, A. R., and Hendrix.)

Henney, Charles F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,320,432; June 1.

Henkel, Andrew L., and B. M. Ewing, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Seat or bench structure for bowling alleys. 2,320,595; June 1.

Henney, Charles F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,320,596; June 1.

Henney Motor Company. (See Schofield, Earl L., assignor.)

Henry, Jack P. (See Mayfield, O. J., and Henry.)

Henson, West, New York, N. Y. Engine. 2,320,928; June 1.

Herckmans, Alfred, Caldwell, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone transmitter. 2,320,433; June 1.

Herckmans, Alfred, Caldwell, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone station equipment. 2,320,726; June 1.

Hercules Powder Company. (See Borglin, Joseph N., assignor.)

Hercules Powder Company. (See Nash, Henry E., assignor.)

Hercules Powder Company. (See Pickett, Oscar A., assignor.)

Herman, Irving N., Chicago, Ill. Tire vulcanizing apparatus. 2,320,778; June 1.

Herman, Kenneth R., and J. Robinson, assignors to Vickers, Incorporated, Detroit, Mich. Hydraulic speed control apparatus. 2,320,727; June 1.

Hertel, Heinrich, Rostock, Germany; vested in the Alien Property Custodian. Supporting float for aircraft. 2,320,597; June 1.

Hettrick Manufacturing Company, The. (See Lee, Ronert E., assignor.)

Hibbert, Harold, and A. B. Cramer, Montreal, Quebec, Canada. Manufacture of distillable oils from wood and other plant materials. 2,320,598; June 1.

Hickman, Hal, Lancaster, Calif. Screw cap opener. 2,320,599; June 1.

Hild, Henry F., Philadelphia, Pa., assignor to Condenser Corporation of America, South Plainfield, N. J. Apparatus for feeding foil. 2,320,729; June 1.

Hill, Lawrence R., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Flexible insulating material. 2,320,866; June 1.

Hill, Robert H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Remote automatic radio control. 2,320,867; June 1.

Hirst, Arthur A., Northfield, Birmingham, assignor of one-half to Simon-Carves Limited, Cheadle Heath, Stockport, England. Apparatus for gravity separation of granular material. 2,320,519; June 1.

Hite, Alonzo R., and J. N. Hendrix, Mattoon, Ill. Beverage mixer. 2,320,730; June 1.

Hodnette, John K., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer protection. 2,320,929; June 1.

Hoffman-La Roche Inc. (See Wenner, Wilhelm, assignor.)

Holcomb, Arthur L., Tarzana, Calif., assignor to Western Electric Company, Incorporated. Electric motor control system. 2,320,434; June 1.

Holmested, Francis K., Charleston, W. Va. Rail clamp. 2,320,868; June 1.

Homrighous, John H., Oak Park, Ill. Method and system for television communication. 2,320,699; June 1.

Hood, James B., New York, assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y. Expanding tool. 2,320,435; June 1.

Hooper, Frank B., Newport News, Va. Scupper valve. 2,320,930; June 1.

Hooper, Louis G. (See Hooper, Virgil I. and L. G.)

Hooper, Virgil I., Gordon, Tex., and L. G. Hooper, Shreveport, La., assignors to The Bastian-Blessing Company, Chicago, Ill. Liquid level gauge. 2,320,731; June 1.

Hoover Ball & Bearing Company. (See Pew, Thomas C., assignor.)

Hoover Company, The. (See Boyle, Robert S., assignor.)

Hoover Company, The. (See Osborn, Ralph C., assignor.)

Hoover Company, The. (See Wilson, Cecil B., assignor.)

Hoover Company, The. (See Wright, William S., assignor.)

Horton, J. Roscoe. (See Nelson, Charlie A., assignor.)

Hothersall, John M., Brooklyn, N. Y., and A. E. Almgren, Hillside, N. J., assignors to American Can Company, New York, N. Y. Container-tab marking machine. 2,320,361; June 1.

Houx, Edgar M., Berkeley, Calif. Tobacco pipe. 2,320,931; June 1.

Howell, Roy C., Lakewood, Ohio. Industrial truck. 2,320,600; June 1.

Howell, Roy C., Lakewood, Ohio. Industrial truck. 2,320,601; June 1.

Hubbell, Edward S. (See La Rue, Herschel C., assignor.)

Huber, Albert F., Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Safety locking device. 2,320,779; June 1.

Hull, Harry B., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,320,436; June 1.

Hume, Walter R., Melbourne, Victoria, Australia. Apparatus for molding concrete slabs. 2,320,728; June 1.

Hutchinson, Fenton F., assignor to Kohler & Chase, San Francisco, Calif. Alternator and control system therefor. 2,320,602; June 1.

Hutchison, George H., Kansas City, Mo. Assembler mechanism of type casting machines. 2,320,932; June 1.

Hutten, Henry B., Detroit, Mich., assignor to The Ruberoid Co., New York, N. Y. Sound damping insulation and manufacture. 2,320,737; June 1.

Hutzel, John M. (See Jennings, H. E., and Hutzel.)

Hydraulic Couplings Patents Limited. (See Sinclair, H., and Clerk, assignors.)

Hydraulic Machinery, Inc. (See Lehmann, Albert F., assignor.)

Ilgen, Grover F., assignor to The Airetool Mfg. Company, Springfield, Ohio. Apparatus for removing material from containers. 2,320,933; June 1.

Industrial Patents Corporation. (See Black, Howard C., assignor.)

Institutum Divi Thomae Foundation. (See Sperti, George, assignor.)

International Business Machines Corporation. (See Bryce, James W., assignor.)

International Business Machines Corporation. (See Carroll, Fred M., assignor.)

International Business Machines Corporation. (See Mills, A. W., and Furman, assignors.)

International Business Machines Corporation. (See Tauschek, Gustav, assignor.)

International Cementers, Inc. (See Cook, Robert N., assignor.)

International Cigar Machinery Company. (See Broekhuysen, William C., assignor.)

International Cigar Machinery Company. (See Randolph, Clifford F., assignor.)

International Standard Electric Corporation. (See Busignies, Henri G., assignor.)

International Standard Electric Corporation. (See Foord, Stanley G., assignor.)

International Standard Electric Corporation. (See Fremlin, John H., assignor.)

International Standard Electric Corporation. (See Litton, Charles V., assignor.)

Iron Products Corporation. (See Pieper, Chester R., assignor.)

Ivy, Jessie T., Seattle, Wash. Drafting instrument. 2,320,603; June 1.

Jackson, Lynn E., Los Angeles, and J. T. Dickson, Playa Del Rey, assignors to Ferguson Door Co., Los Angeles, Calif. Door. 2,320,604; June 1.

James, Thomas R., Minneapolis, Minn., and Joseph Desjardins, Chicago, Ill., assignors to General Mills, Inc. Accumulator. 2,320,934; June 1.

Jansson, Rhoda, assignor to Rice-Stix Dry Goods Company, St. Louis, Mo. Garment. 2,320,605; June 1.

Jaynes, Harry R. (See McCartney, J. C., and Jaynes.)

Jenkins, John D., Forest Hills, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Fractionation of mixtures of fatty oils and free acids derived therefrom. 2,320,738; June 1.

Jenkins, William H., El Monte, Calif. Tie for concrete forms. 2,320,869; June 1.

Jennings, Harold E., Chicago, Ill., and J. M. Hutzel, Columbus, Ohio, assignors to Smithereen Company, Chicago, Ill. New article of manufacture for use as an insecticide and making. 2,320,520; June 1.

Jennings, Oliver S., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,320,437; June 1.

Jennings, William T., Medford, and R. F. Clark, North Billerica, Mass. Grease gun and fitting. 2,320,780; June 1.

Jensen, Thormod, Laurelton, N. Y., assignor to American Machine & Foundry Company. Bread wrapping machine. 2,320,362; June 1.

Jesionowski, John, Hartford, Conn. Work holder. 2,320,606; June 1.

Jewett, Nelson J. (See Spainhour, Joseph F., Jr., assignor.)

Jiménez, Ramón C., Winthrop, Mass. Economizing fluid fuel combustion system and method. 2,320,821; June 1.

Jirousek, Joseph F., assignor to The Chandler & Price Company, Cleveland, Ohio. Dampening roll for printing presses. 2,320,523; June 1.

John, Edward T., assignor to The J. R. Clark Company, Minneapolis, Minn. Ironing table top. 2,320,607; June 1.

Johnson, Clarence L., assignor to Lockheed Aircraft Corporation, Burbank, Calif. Anti-icing duct. 2,320,870; June 1.

Johnson, Gerald C. (See Cushing, George, assignor.)
Johnstone, Fleurette C., Pasadena, Calif. Infant toilet seat belt. 2,320,935; June 1.
Jones, Morris L., Burbank, Calif. Soap cake hanger. 2,320,608; June 1.
Jopson, William S., assignor to Beauty Industries, Limited, Hamilton, Ontario, Canada. Baby panties. 2,320,458; June 1.
Junghans, Helmut, Schramberg-Sulgen, Wurtemberg, Germany; vested in the Alien Property Custodian. Securing device for clocks. 2,320,609; June 1.
Kabigting, Marcelo C., Redwood City, Calif. Paper cutter. 2,320,363; June 1.
Kandle, Charles W., Chicago, Ill. Drill bit. 2,320,610; June 1.
Kandle, Charles W., Chicago, Ill. Grapple hook. 2,320,611; June 1.
Kandle, Charles W., Chicago, Ill. Earth boring tool. 2,320,612; June 1.
Kay-Brunner Steel Products, Inc. (See Low, John J., assignor.)
Kear, Frank G., assignor to Washington Institute of Technology, Inc., Washington, D. C. Radio beacon system. 2,320,521; June 1.
Kearney, James R., Corporation. (See Graham, Roy G., assignor.)
Keck, Lloyd E. (See Claybourn, G. L., and Keck.)
Keefer, Walter L., assignor to Pangborn Corporation, Hagerstown, Md. Abrading apparatus. 2,320,364; June 1.
Keith, Irving L., Haverhill, Mass. Cementing machine. 2,320,438; June 1.
Keith, Walter S., Long Island City, assignor to The Hammarlund Manufacturing Company, Incorporated, New York, N. Y. Acorn tube socket. 2,320,871; June 1.
Kelly-Wheaton Company. (See Wheaton, Estel O., assignor.)
Kende, George. (See Gibbens, O. W., and Kende.)
Kennedy, John A. (See Cotchett, L. M., and Kennedy.)
Kent, Charles E., and O. M. Carlson, assignors to Crane Co., Chicago, Ill. Backup ring or sleeve for welding. 2,320,700; June 1.
Kerrigan, Frank J., Winchester, Mass. Bubble cap. 2,320,822; June 1.
Kessler, Frank. (See Voss, J. H., and Kessler.)
Kessler, Milton, Youngstown, Ohio. Thread lock. 2,320,936; June 1.
Kieley and Mueller, Inc. (See Quiroz, Francisco A., assignor.)
Kindred, MacLean & Company, et al. (See Klein, Charles, assignor.)
King Powder Company, The. (See Lindsley, Milton F., Jr., assignor.)
Kingston, Justin I., Mt. Vernon, N. Y., assignor to The Mono-Script Co., Inc. Fountain marking device. 2,320,823; June 1.
Kirchhof, Julius, Baltimore, Md.; vested in the Alien Property Custodian. Locomotive valve actuating mechanism. 2,320,613; June 1.
Klein, Charles, Richmond Hill., assignor of one-half to Kindred, MacLean & Company, Inc., Long Island City, N. Y., and one-half to Arvey Corporation, Jersey City, N. J. Reversible display. 2,320,522; June 1.
Kleine, Harry A., Teaneck, N. J. Automobile bed. 2,320,614; June 1.
Kniel, Ludwig, Jackson Heights, N. Y., and A. H. Schutte, Westfield, N. J., assignors to The Lummus Company, New York, N. Y. Stabilization. 2,320,616; June 1.
Knoop, Herbert, Frankfort-on-the-Main, and H. Miedel, Bad Homburg von der Hohe, Germany, assignors to American Lurgi Corporation, New York, N. Y. Adhesively uniting hard and soft rubber or rubberlike masses with surfaces of other materials. 2,320,937; June 1.
Knopp, John E., Tulsa, Okla. Match book. 2,320,781; June 1.
Knudsen, Earl and H. H. Talbot, said Talbot assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Draw bench. 2,320,739; June 1.
Koch, Albert, Stuttgart, Germany; vested in the Alien Property Custodian. Direction indicator for motor cars. 2,320,615; June 1.
Kohler & Chase. (See Hutchinson, Fenton F., assignor.)
Kolodney, Morris. (See Fink, C. G., and Kolodney.)
Kortkamp, Laurence L. (See Arnold, C. F., and Kortkamp.)
Kosche, Rudolf. (See Batz, M., and Kosche.)
Kramer, Paul H., and F. J. Steigerwald, assignors to Park Chemical Company, Detroit, Mich. Carburizer. 2,320,872; June 1.
Kreuzer, Barton, Los Angeles, Calif., assignor to Radio Corporation of America. Rerecording. 2,320,524; June 1.
Kritzer, Richard W., Chicago, Ill. Air conditioning unit. 2,320,525; June 1.
Kromer-Niernan Company. (See Kromer, W. R., and Elliott, assignors.)
Kromer, Wallace R., and H. F. Elliott, assignors to The Kromer-Niernan Company, Cleveland, Ohio. Apparatus for automatically controlling gas pressure on beverages. 2,320,969; June 1.
Kruea, Charles H. and D. H., Fort Thomas, Ky. Bottle carrier. 2,320,440; June 1.
Kruea, Dorella H. (See Kruea, Charles H. and D. H.)
Krueger, Albert G., Green Bay, Wis., assignor to Morton White & Co., Vancouver, British Columbia, Canada. Paper roll dispenser. 2,320,740; June 1.
Kuehar, Joseph, assignor to Athey Truss Wheel Company, Chicago, Ill. Door operator for dump wagons. 2,320,701; June 1.
Kumetat, Karl, Wolfen, Kreis Bitterfield, and O. Riester, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Photographic sensitizers. 2,320,439; June 1.
Lafferty, Robert F., Spreydon, Christchurch, New Zealand. Foot harmony last. 2,320,732; June 1.
Landis, George G. and L. K. Stringham, University Heights, assignors to The Lincoln Electric Company, Cleveland, Ohio. Electric welding. 2,320,824; June 1.
Landis, Robert, Jerome, Ariz. Combustion engine. 2,320,526; June 1.
Landrum, Reginald F., assignor of one-half to Eyvind Svendsen, Torrington, Conn. Spark plug. 2,320,617; June 1.
Lang, Louis. (See Schlegel, J. W., and Lang.)
Lang, Richard, Ravensburg, Germany; vested in the Alien Property Custodian. Roller bearing. 2,320,618; June 1.
Lang, Wilmarth Y., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gauge. 2,320,938; June 1.
Lansing, Arthur C., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Solvent extraction of tung oil. 2,320,970; June 1.
Langston, Samuel M., Co. (See Behrens, Herbert C., assignor.)
Larsen, Thomas H., Washington, D. C. Forehead perspiration diverter. 2,320,782; June 1.
Larrson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Railroad car coupler. 2,320,619; June 1.
La Rue, Herschel C., Ashfork, assignor of one-half to E. S. Hubbell, Paulden, Ariz. Scarifier. 2,320,365; June 1.
Leaf, Walter B., Denver, Colo. Foam retarding means and method. 2,320,366; June 1.
Leathers, Ward, Haworth, N. J., assignor to Quadrex Corporation, New York, N. Y. Flexible hose and forming the same. 2,320,367; June 1.
Leathers, Ward, Haworth, N. J., assignor to Quadrex Corporation; New York, N. Y. Vacuum cleaner electric indicator. 2,320,368; June 1.
Le Blond, R. K., Machine Tool Company. (See Groene, W. F., and Meyer, assignors.)
Lee, Paul R., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermostat. 2,320,873; June 1.
Lee, Robert E., Toledo, Ohio, assignor to The Hettrick Manufacturing Company. Convertible jacket. 2,320,783; June 1.
Lefebre, Edward A., Jamaica, N. Y. Outlet box, switch box, and the like. 2,320,621; June 1.
Lehmann, Albert F., assignor to Hydraulic Machinery, Inc., Detroit, Mich. Mining machine. 2,320,874; June 1.
Lessler, Lew W., assignor to General Aniline & Film Corporation, Binghamton, N. Y. Film moving and counter mechanism. 2,320,441; June 1.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Self-propelled crane. 2,320,620; June 1.
Leum, Leonard N., Upper Darby, assignor to The Atlantic Refining Company, Philadelphia, Pa. Removal of mercaptons from mercaptan-solvent mixtures. 2,320,939; June 1.
Licata, Francis J., New York, N. Y., assignor to National Oil Products Company, Harrison, N. J. Coating composition and producing the same. 2,320,527; June 1.
Liebel-Flarsheim Company, The. (See Gieringer, C. K., and Greenberg, assignors.)
Lincoln Electric Company, The. (See Landis, G. G., and Stringham, assignors.)
Lindsey, Benjamin S., assignor to The Milwhite Company, Incorporated, Houston, Tex. Conditioning of drilling muds. 2,320,622; June 1.
Lindsley, Milton F., Jr., assignor to The King Powder Company, Kings Mills, Ohio. Making explosives. 2,320,971; June 1.
Lindsley, Milton F., Jr., assignor to The King Powder Company, Kings Mills, Ohio. Explosive composition. 2,320,972; June 1.
Lipowitz, Lewis, Baltimore, Md. Combination book match and sample or advertising carrier. 2,320,940; June 1.
Little, Harry C., San Rafael, Calif. Lighter rod. 2,320,825; June 1.
Litton, Charles V., Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Fabricating vacuum tubes. 2,320,941; June 1.
Livingston, Harold A., and C. J. Cardona, Holywood, Calif., said Cardona assignor to said Livingston. Seam ripper. 2,320,784; June 1.
Liwschitz, Michael, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor starting control. 2,320,875; June 1.
Lockheed Aircraft Corporation. (See Johnson, Clarence L., assignor.)

Loeffler, Bruno, West New York, and J. S. Pelan, North Plainfield, N. J., assignors to Mack Manufacturing Corporation, Long Island City, N. Y. Heater for engine manifolds. 2,320,528; June 1.
Logan, Edwin W., Belleville, Ill., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Switch. 2,320,942; June 1.
Logan, Mason A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,320,943; June 1.
Longmaid, Sydney E., Rosemont, Pa., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J. Manufacture of metal writing pens. 2,320,369; June 1.
Löpp, Edmund, and E. Greifendorf, Berlin, Germany; vested in the Alien Property Custodian. Ultra-short wave tube socket. 2,320,623; June 1.
Lotz, Rudolph W., co-trustee. (See Cowles, Irving, assignor.)
Love, Jabez A., Eau Claire, Mich. Disk harrow. 2,320,624; June 1.
Low, John J., Los Angeles, Calif., assignor to Kay-Brunner Steel Products, Inc. Carrying scraper. 2,320,625; June 1.
Lowe, Joe, Corporation. (See Overland, Leo D., assignor.)
Lubri-Zol Development Corporation, The. (See Prutton, Carl F., assignor.)
Lucas, Walter C., Asheboro, N. C. Chair. 2,320,786; June 1.
Luce, Richard W., Southport, Conn. Threaded locking device. 2,320,785; June 1.
Lucke, Henry J. (See Luckhaupt, Christopher, assignor.)
Luckhaupt, Christopher, Jamaica, N. Y., assignor to H. J. Lucke, East Orange, N. J. Treating metals and resulting product. 2,320,626; June 1.
Luker, Jackson M., Urbana, Ill. Hinge device. 2,320,370; June 1.
Lummus Company, The. (See Kniel, L., and Schutte.)
Lundell, Walter E., Lake Forest, Ill. Socket for bayonet base lamp or the like. 2,320,627; June 1.
Mabry, Forrest S., Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Automatic amplitude control for oscillator circuits. 2,320,876; June 1.
Macard Screws, Limited. (See McIntyre, John T., assignor.)
MacClatchie, John W., Los Angeles, assignor to MacClatchie Manufacturing Company of California, Compton, Calif. Pump piston. 2,320,973; June 1.
MacClatchie, John W., Los Angeles, assignor to MacClatchie Manufacturing Company of California, Compton, Calif. Blowout preventer. 2,320,974; June 1.
MacClatchie, John W., Los Angeles, assignor to MacClatchie Manufacturing Company of California, Compton, Calif. Piston. 2,320,975; June 1.
MacClatchie Manufacturing Company of California. (See MacClatchie, John W., assignor.)
Macdonald, Laurie S. (See Sabel, I., and Macdonald.)
Mack Manufacturing Corporation. (See Loeffler, B., and Pelan, assignors.)
MacManus, John, Yonkers, assignor to Cushman's Sons Inc., New York, N. Y. Pastry icing apparatus. 2,320,529; June 1.
Macpherson, Daniel C. (See Rooney, J. H., Hawtin and Macpherson.)
Madden, Harry D., South Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Meter casing. 2,320,946; June 1.
Maginn, Harold, Waverly, Ill. Separator cylinder. 2,320,944; June 1.
Maginn, Harold, Waverly, Ill. Thresher cylinder construction. 2,320,945; June 1.
Mahnken, Werner, Berlin, Germany; vested in the Alien Property Custodian. Push button device. 2,320,628; June 1.
Maibauer, Albert E. T., Staten Island, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, New York, N. Y. Electroplating equipment. 2,320,442; June 1.
Mandel, Fritz W., assignor of one-half to F. Schaefer, Cincinnati, Ohio. Making dental plates. 2,320,826; June 1.
Mann, Henry S., Chicago, Ill., and E. Martin, Erie, Pa., assignors to The Standard Stoker Company, Incorporated. Fuel distributor for stokers. 2,320,443; June 1.
Manning, Dennis J., Mountainside, N. J. Plugging gas mains. 2,320,371; June 1.
Manning, William H., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Brake. 2,320,878; June 1.
Manson, Ray H., and A. E. Schell, assignors to Stromberg-Carlson Telephone Manufacturing Co., Rochester, N. Y. Phonograph. 2,320,877; June 1.
Marchese, John, Los Angeles, and S. J. Selden, Tacoma, Wash., assignors to Process Holdings Company. Apparatus and making composition material. 2,320,702; June 1.
Marks, Harry. (See Mitchell, D. L., Marks and Beene.)
Martellotti, Mario E. (See Ernst, H., and Martellotti.)
Marthey, Clarence T., Canton, Ohio. Automatic marine hitch. 2,320,948; June 1.
Martin, Eugene. (See Mann, H. S., and Martin.)
Martin, Eugene, Erie, Pa., assignor to The Standard Stoker Company, Incorporated. Booster valve. 2,320,444; June 1.
Martin, Eugene, Erie, Pa., assignor to The Standard Stoker Company, Incorporated. Valve mechanism. 2,320,445; June 1.
Martin-Hurst, William F. F. (See Sherlock, J. E., and Martin-Hurst.)
Martin, James H. (See Neidig, Daniel, assignor.)
Martin, John F., Springfield, W. E. Schwarzmann, Longmeadow, and E. M. Bach, Agawam, assignors to American Bosch Corporation, Springfield, Mass. Fastening means. 2,320,947; June 1.
Marvel Equipment Corporation. (See Roethel, John H., assignor.)
Massey-Harris Company Ltd. (See Shenstone, Osborne H., assignor.)
Master Electric Company, The. (See Niekamp, Richard A., assignor.)
Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of predominantly saturated hydrocarbon materials. 2,320,629; June 1.
Maury, Richmond, trustee. (See Swinford, Leo, assignor.)
Mawboy, Lawrence. (See Elliott, H. E., and Mawbey.)
Maximoom, Harry I. (See Schoenberg, M. J., and Maximom.)
Mayfield, Orley J., and J. P. Henry, Charles City, Iowa, assignors to Dr. Salsbury's Laboratories. Taeniacide. 2,320,630; June 1.
Maynard, Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Wire-stitching machine. 2,320,703; June 1.
McCarthy, Aimee M., Saratoga Springs, assignor of one-third to G. H. Corey, New York, N. Y. Dusting and polishing mop. 2,320,372; June 1.
McCartney, John C., Lancaster, and H. R. Jaynes, Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Cleaning device for mixing or agitating vessels. 2,320,976; June 1.
McCombs, Marvin W., Statesville, N. C. Heavy duty trailer. 2,320,631; June 1.
McIlvaine, Oran T., St. Charles, Ill. Phonograph reproducing apparatus. 2,320,879; June 1.
McIlvaine, Oran T. (See Whitcomb, P. E., and McIlvaine.)
McIntyre, John T., assignor to Macard Screws, Limited, Johannesburg, Transvaal, Union of South Africa. Screw type fluid propelling apparatus. 2,320,733; June 1.
McMaster, Archie J., Highland Park, assignor to G-M Laboratories, Inc., Chicago, Ill. Producing magnet structures. 2,320,632; June 1.
Mead, Edward D., Caldwell, N. J., and V. F. Miller, Queens Village, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,320,734; June 1.
Mead, Homer A., Turlock, Calif. Sanitary drinking fountain. 2,320,530; June 1.
Mendelsohn, Louis H., Paterson, N. J. Knitting machine. 2,320,634; June 1.
Mendez Corporation. (See Surré, Anning F., assignor.)
Mentley, Max B., assignor to National Broach & Machine Company, Detroit, Mich. Broach. 2,320,787; June 1.
Mericola, Francis C., and H. F. Rodreick, assignors, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Manufacture of high test bleach. 2,320,635; June 1.
Messing, Joseph A. (See Frank, W. H., and Messing.)
Metzner, Albert W. (See Ratchford, R. G., and Metzner.)
Meyer, Fred C. (See Bennett, C. E., and Meyer.)
Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)
Meyer, George J., Milwaukee, assignor to Geo. J. Meyer Manufacturing Company, Cudahy, Wis. Air cylinder apparatus for bottle filling machines. 2,320,373; June 1.
Meyer, Walter R. (See Groene, W. F., and Meyer.)
Meyers, Joe W. (See Weddle, J. P., and Meyers.)
Michael, John H., West Allis, and T. G. A. Sillers, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Travel limiting device. 2,320,741; June 1.
Miedel, Hermann. (See Knoop, H., and Miedel.)
Miller Company, The. (See Naysmith, Shirley R., assignor.)
Miller, John W., assignor to Motor Wheel Corporation, Lansing, Mich. Tank connection. 2,320,636; June 1.
Miller, Victor F. (See Mead, E. D., and Miller.)
Miller Wrapping and Sealing Machine Company. (See Heckman, John A., assignor.)
Mills, Albert W., and F. J. Furman, Endicott, assignors, to International Business Machines Corporation, New York, N. Y. Telegraphic tape transmitter. 2,320,788; June 1.
Mills Novelty Company. (See Ramclow, Axel E., assignor.)
Milwhite Company, The. (See Lindsey, Benjamin S., assignor.)
Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)
Minor, Burt S. (See Barnes, B. H., and Minor.)

Mishawaka Rubber and Woolen Manufacturing Company. (See Glaes, C. L., and Schott, assignors.)
Mitchell, David L., and H. Marks, Los Angeles, and H. C. Beene, Long Beach, Calif. Water sealing composition for oil wells. 2,320,633; June 1.
Modigliani, Gino, Ivrea, Aosta, Italy; vested in the Alien Property Custodian. Selective blocking arrangement for the keyboards of teleprinters having complete keyboards. 2,320,637; June 1.
Moeller, Otto, Erie, Pa., assignor to The Standard Stoker Company, Incorporated. Stoker and fuel distributing mechanism therefor. 2,320,459; June 1.
Moineau, René J. L., Paris, France; vested in the Alien Property Custodian. Mechanism for the propulsion of watercraft. 2,320,640; June 1.
Mojonnier, Timothy, Oak Park, Ill., assignor to Mojonnier Bros. Co. Vat. 2,320,531; June 1.
Mojonnier Bros. Co. (See Mojonnier, Timothy, assignor.)
Monnet, Georges, Washington, D. C., assignor to Guardian Merchandising Corporation, Montreal, Quebec, Canada. Safety razor. 2,320,374; June 1.
Mono-Script Co., The. (See Kingson, Justin I., assignor.)
Montague, Stephen F., Oswego, and L. D. Pierce, Fulton, assignors to Berst-Forster-Dixfield Company, New York, N. Y. Method of and apparatus for molding fibrous pulp articles. 2,320,769; June 1.
Montgomery, H. A., Company, The. (See Nill, Edward A., assignor.)
Moore, Frank, Los Angeles, Calif. Tire armor. 2,320,827; June 1.
Morgan, Leo C. (See Stewart, Troy J., assignor.)
Morris, Fred H., High Point, N. C. Sanding belt machine. 2,320,638; June 1.
Morris, Fred H., High Point, N. C. Sanding belt machine. 2,320,639; June 1.
Morton White & Co. (See Krueger, Albert G., assignor.)
Motor Wheel Corporation. (See Miller, John W., assignor.)
Moulton, Harold R., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting and making the same. 2,320,375; June 1.
Moyer, Elmo E., Scotia, and A. Schmidt, Jr., Niskayuna, N. Y., assignors to General Electric Company. Electric valve circuits. 2,320,790; June 1.
Moynahan Bronze Co. (See Cudini, Roger G., assignor.)
Moynahan, Roy D. B. (See Cudini, Roger G.)
Mueller, Erhard, assignor to Harry Winston, Inc., New York, N. Y. Diamond cutting and polishing machine. 2,320,376; June 1.
Mueller, Erhard, assignor to Harry Winston, Inc., New York, N. Y. Diamond cutting and polishing machine. 2,320,377; June 1.
Müller, Ferdinand H., Montclair, N. J. Cutter. 2,320,460; June 1.
Müller, Rudolf. (See Zerweck, W., Müller, and Bähr.)
Munters, Carl G., and M. Hedmark, Stockholm, Sweden. Heating system. 2,320,532; June 1.
Murphy, Charles P., Cleveland, Ohio. Animal feeding apparatus. 2,320,828; June 1.
Murray, Howard J., Jr., New York, N. Y. Vehicle signal. 2,320,641; June 1.
Murray, Irvin L., and F. H. Roberts, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Separation of aliphatic anhydrides from mixtures containing water. 2,320,461; June 1.
Muskat, Irving E. (See Pollack, M. A., Strain, and Muskat.)
Muskat, Irving E., M. A. Pollack, and F. Strain, Akron, and W. A. Franta, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa. Artificial glass. 2,320,533; June 1.
Myers, Henry C., Irwin, and J. H. Cox, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ignitor assembly for ignitron rectifier. 2,320,949; June 1.
Nash, Henry E., Saranac Lake, N. Y., assignor to Hercules Powder Company, Wilmington, Del. Bridge plug assembly. 2,320,880; June 1.
Nash-Kelvinator Corporation. (See Rowan, Frank E., assignor.)
National Broach & Machine Company. (See Mentley, Max B., assignor.)
National Cash Register Company, The. (See Doelker, William J., assignor.)
National Electric Instrument Co, Inc. (See Arnesen, Walter A., assignor.)
National Folding Box Company. (See Ringler, William A., assignor.)
National Lead Company. (See Wheeler, Alexander W., assignor.)
National Malleable and Steel Castings Company. (See Wittmer, Russell J., assignor.)
National Oil Products Company. (See Licata, Francis J., assignor.)
National Postal Meter Company, Inc. (See Drake, E. P., and Ryan, assignors.)
National Sugar Refining Company, The. (See Schleger, J. W., and Lang, assignors.)
National Vulcanized Fibre Co. (See Reynolds, George C., assignor.)
Newells, Frank, Glendale, Calif. Clock operated switch. 2,320,462; June 1.
Naysmith, Shirley R., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 2,320,829; June 1.
Neidhart, Martin, Bonstetten, Zurich, Switzerland. Hay harvesting machine. 2,320,642; June 1.
Neidig, Daniel, assignor to J. H. Martin, Chicago, Ill. Vending machine. 2,320,378; June 1.
Nelson, Charlie A., assignor of one-half to J. R. Horton, Chattanooga, Tenn. Movable clothesline. 2,320,735; June 1.
Nelson, William. (See Buenger, E. F., and Nelson.)
Neufeld, Jacob, assignor to Well Surveys, Incorporated, Tulsa, Okla. Well surveying method and apparatus. 2,320,643; June 1.
Nevell, G. W. (See Cushing, George, assignor.)
Nevins, Sol T., Brooklyn, N. Y. Surgical appliance. 2,320,736; June 1.
Newkirk, Clarence E., Orange, Calif. Suction disk plow. 2,320,742; June 1.
Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,320,881; June 1.
New Wrinkle, Inc. (See Drummond, Folsom E., assignor.)
Nicolson, Alexander M., assignor to Communication Patents, Inc., New York, N. Y. Photoelectric tube and circuit. 2,320,977; June 1.
Niekamp, Richard A., assignor to The Master Electric Company, Dayton, Ohio. Electric motor gearing. 2,320,379; June 1.
Nill, Edward A., assignor to The H. A. Montgomery Company, Detroit, Mich. Wax composition. 2,320,644; June 1.
Nill, Edward A., assignor to The H. A. Montgomery Company, Detroit, Mich. Wax composition. 2,320,645; June 1.
Nilsen, Nicolai, Wallace, and T. R. Christofferson, Gem, Idaho. Crosscut saw. 2,320,743; June 1.
Ohio Brass Company, The. (See Larsson, Ernst A., assignor.)
Ohio Brass Company, The. (See Taylor, John J., assignor.)
Ohio Injector Company, The. (See Allenbaugh, G. G., and Bixler, assignors.)
Oil Equipment Engineering Corporation. (See Scaramucci, Domer, assignor.)
Okolicsanyi, Ferenc, and A. J. Gale, Kensington, England, assignors to Scophony Corporation of America, New York, N. Y. Television system and scanner therefor. 2,320,380; June 1.
Okonite-Callender Cable Company, The. (See Bennett, C. E., and Meyer, assignors.)
Oldham, Wilbur N., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparing formoguanamines. 2,320,882; June 1.
O'Leary, Charles M., Houston, Tex. Rod catcher. 2,320,646; June 1.
Ormond, John J., assignor of two-thirds to J. D. Ramsey, Boston, Mass. Method of printing. 2,320,744; June 1.
Osborn Manufacturing Company, The. (See Peterson, Ruben O., assignor.)
Osborn, Ralph C., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,320,534; June 1.
Overland, Leo D., Brooklyn, N. Y., assignor to Joe Lowe Corporation, New York, N. Y. Packaging frozen confections. 2,320,985; June 1.
Owner, Frank M., and H. T. Underwood, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Sleeve-valve internal-combustion engine. 2,320,791; June 1.
Page, George A. (See Davies, W. W., and Page.)
Palmer, Robert T., Sharon, assignor to B. F. Sturtevant Company, Boston, Mass. Air conditioning system utilizing refrigeration. 2,320,978; June 1.
Pangborn Corporation. (See Keefer, Walter L., assignor.)
Park Chemical Company. (See Kramer, P. H., and Steigerwald, assignors.)
Parkinson, Leonard, Park Falls, Wis. Paper-coating apparatus. 2,320,883; June 1.
Paul, Philip T., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Antioxidants. 2,320,745; June 1.
Paul, Philip T., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Antioxidants. 2,320,746; June 1.
Pavlovic, Joseph, Jr., Dillonville, Ohio. Combined inventory and price tag holder. 2,320,463; June 1.
Peabody Engineering Corporation. (See Dunn, John, assignor.)
Pelan, John S. (See Loeffler, B., and Pelan.)
Pelikan, John M., Chicago, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,320,792; June 1.
Pennell, Philip H., Belmont Manor, assignor to Armstrong Cork Company, Lancaster, Pa. Decorative building material. 2,320,979; June 1.
Pennow, Willis A., Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Reflector system for lighting units. 2,320,884; June 1.
Pennsylvania Industrial Chemical Corporation. (See Corkery, F. W., and Burroughs, assignors.)
People in the territory of the United States. Dedicated to the free use of the. (See Gaus, G. E., Bennett, and Ross.)

Pepe, Vincent, Brooklyn, N. Y. Bookmark. 2,320,383; June 1.
Peter, Leslie H., and J. P. Coley, King's Cross, London, England, assignors, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Block signaling system for railways and the like. 2,320,793; June 1.
Petersen, Siegfried, Leverkusen Schlebusch, and P. Schlack, Berlin Treptow, Germany; vested in the Alien Property Custodian. Spinning of solutions of cellulose derivatives. 2,320,704; June 1.
Peterson, Henry F., Rockford, Ill. Condition responsive control device. 2,320,535; June 1.
Peterson, Ruben O., South Euclid, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. 2,320,384; June 1.
Peterson, Victor W., and F. J. Daley, assignors to Hannifin Manufacturing Company, Chicago, Ill. Cylinder honing. 2,320,747; June 1.
Peterson, Wilber P., Kansas City, Mo. Light. 2,320,446; June 1.
Petrolite Corporation, Ltd. (See Stenzel, R. W., and Suthard, assignors.)
Pew, Thomas C., assignor to Hoover Ball & Bearing Company, Ann Arbor, Mich. Seal for antifriction bearings. 2,320,794; June 1.
Pfachler, Kurt. (See Engel, C., and Pfachler.)
Pflasterer, George R., Greenville, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,320,748; June 1.
Philadelphia Thermometer Company. (See Schwartz, John L., assignor.)
Phillips Petroleum Company. (See Matuszak, Maryan P., assignor.)
Phillips, Stanton. Atlantic City, N. J. Portable ash tray. 2,320,647; June 1.
Picard, Napoleon. (See Shepard, J. H., and Picard.)
Picard, René, and R. Fays, Paris, France; vested in the Alien Property Custodian. Making retractile articles. 2,320,381; June 1.
Pickett, Oscar A., Newark, assignor to Hercules Powder Company, Wilmington, Del. Polymerization of rosin and rosin esters. 2,320,795; June 1.
Pieper, Chester R., assignor to Iron Products Corporation, La Crosse, Wis. Earth anchor. 2,320,464; June 1.
Pierce, James B., Jr., Charleston, W. Va., deceased; The First National Bank of Tampa, Fla., executor. Manufacture of neutral blanc fixe. 2,320,980; June 1.
Pierce, Lee D. (See Montague, S. F., and Pierce.)
Pilcher, William S., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Shell-feeding device. 2,320,465; June 1.
Pison, William L. (See Bedell, Charles E., assignor.)
Pittsburgh Plate Glass Company. (See Gerhart, H. L., and Bauer, assignors.)
Pittsburgh Plate Glass Company. (See Jenkins, John D., assignor.)
Pittsburgh Plate Glass Company. (See Muskat, I. E., Pollack, Strain, and Franta, assignors.)
Pittsburgh Plate Glass Company. (See Pollack, M. A., Strain, and Muskat, assignors.)
Platz, Elwood T. (See Frank, W. H., and Platz.)
Platz, Elwood T., assignor to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,320,382; June 1.
Platz, Elwood T., and W. H. Frank, assignors to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,320,357; June 1.
Plumb, Frederic W., Huntington, N. Y. Diesel engine. 2,320,648; June 1.
Polin, Herbert S., New York, N. Y. Coffee molding compound. 2,320,649; June 1.
Popov, Vladimir D., Prague-Dejvice, Czechoslovakia; vested in the Alien Property Custodian. Packaging machine. 2,320,650; June 1.
Potlatch Forests, Inc. (See Bowling, Robert T., assignor.)
Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Slide fastener manufacture. 2,320,651; June 1.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Signaling system. 2,320,885; June 1.
Power Brake Parts Manufacturing and Sales Company. (See Ross, Charles F., assignor.)
Presley, William C., Grosse Pointe Woods, assignor to Braun Lumber Corporation, Detroit, Mich. Log cabin construction. 2,320,466; June 1.
Pressentin, Herbert G., Madison, Wis. Dispensing device. 2,320,749; June 1.
Preston, Harry, Brooklyn, assignor to San-Nap-Pak Manufacturing Company, Inc., New York, N. Y. Machine for cutting and folding tissue. 2,320,652; June 1.
Process Holdings Company. (See Marchese, J., and Selden, assignors.)
Prutton, Carl F., East Cleveland, assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricating composition. 2,320,984; June 1.
Pollack, Maxwell A. (See Muskat, I. E., Pollack, Strain, and Franta.)
Pollack, Maxwell A., F. Strain, and I. E. Muskat, Akron, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa. Method of coating. 2,320,536; June 1.
Quadrex Corporation. (See Leathers, Ward, assignor.)
Quiroz, Francisco A., assignor to Kieley and Mueller, Inc., New York, N. Y. Reducing valve. 2,320,886; June 1.
Rabil, Pierre J., assignor of thirty per cent to J. Helal, Montreal, Quebec, Canada. Cephalic bag. 2,320,467; June 1.
Race, Hubert H., Schenectady, N. Y., assignor to General Electric Company. Making high tension electric cable. 2,320,796; June 1.
Radio Corporation of America. (See van Lammeren, J. A., and Alexander, assignors.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Radio Corporation of America. (See Beizer, H. H., and Davis, assignors.)
Radio Corporation of America. (See Blessing, Gregory W., assignor.)
Radio Corporation of America. (See George, Roscoe H., assignor.)
Radio Corporation of America. (See Guedon, Emile C., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Hasbrouck, Harold J., Jr., assignor.)
Radio Corporation of America. (See Kreuzer, Barton, assignor.)
Radio Corporation of America. (See Schrader, H. J., and Smith, assignors.)
Radio Corporation of America. (See Stocker, Arthur C., assignor.)
Raiche, Andrew, Providence, R. I. Gun rifling machine. 2,320,750; June 1.
Ramclow, Axel E., assignor to Mills Novelty Company, Chicago, Ill. Oil separator for refrigeration systems. 2,320,981; June 1.
Ramsay, Erskine, Birmingham, Ala. Mining apparatus. 2,320,653; June 1.
Ramsey, Joseph D. (See Ormond, John J., assignor.)
Randall, Merle, Berkeley, Calif. Treating mercury contaminated surfaces. 2,320,468; June 1.
Randolph, Clifford F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Leaf cutter for cigar machines. 2,320,393; June 1.
Rasmussen, Enok V., Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Mixing and homogenizing apparatus. 2,320,469; June 1.
Ratchford, Raymond G., and A. W. Metzner, assignors to The Standard Register Company, Dayton, Ohio. Ribbon guard. 2,320,394; June 1.
Raymond, Gwynne, Oklahoma City, Okla. Device for determining flow volume of treating liquids. 2,320,447; June 1.
Raytheon Manufacturing Company. (See Dawson, John W., assignor.)
Read, Thomas A., Scarsdale, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electromechanical vibrator. 2,320,887; June 1.
Redler Conveyor Company. (See Schroeder, Arthur C., assignor.)
Redmond, Sidney D., Jackson, Miss. Mine sweeper. 2,320,986; June 1.
Rees, Mackworth G., Detroit, Mich. Current delivering and conducting means. 2,320,470; June 1.
Reifenberg, Joseph H., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vent for portable dishwashers. 2,320,888; June 1.
Reiter, Lena J., Cincinnati, Ohio. Coat with detachable lining. 2,320,950; June 1.
Reitz, Peter, St. Louis, Mo. Clothesline post and reel. 2,320,448; June 1.
Remington Rand Inc. (See Upham, Harry E., assignor.)
Reynolds, George C., St. Louis, Mo., assignor to National Vulcanized Fibre Co., Wilmington, Del. Kidney guard. 2,320,705; June 1.
Ricardo, Harry R., London, and J. F. Alcock, North Lancing, England, said Alcock assignor to said Ricardo. Cylindrical surface of internal combustion engines. 2,320,830; June 1.
Rice-Stix Dry Goods Company. (See Jansson, Rhoda, assignor.)
Riester, Oskar. (See Kumetat, K., and Riester.)
Riester, Oskar, Dessau-Haidebürg, Germany; vested in the Alien Property Custodian. Sensitization of photographic emulsions. 2,320,654; June 1.
Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Radio tube carton. 2,320,396; June 1.
Ripley, Charles T., and W. M. Gibbs, assignors to Spring Packing Corporation, Chicago, Ill. Spring-filled packing. 2,320,706; June 1.
Rippl, Charles H., assignor to The Clark Controller Company, Cleveland, Ohio. Periodically operating electric switch. 2,320,655; June 1.
Ritchie, Scott B., U. S. Army, Cootes Store, Va. Centrifugal casting mold. 2,320,395; June 1.
Roberts, Frederick H. (See Murray, I. L., and Roberts.)

Robinette, Hillary, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Surface active agent and treating fibrous materials therewith. 2,320,707; June 1.
Robinson, James. (See Herman, K. R., and Robinson.)
Robinson, William H., Schenectady, N. Y., and J. E. Anderson, Saugus, Mass., assignors to General Electric Company. Conveyer system. 2,320,797; June 1.
Rockstroh, Frederick C., Minneapolis, Minn. Self-adjusting tappet. 2,320,385; June 1.
Roderick, Howard F. (See Mericola, F. C., and Roderick.)
Roesch, Frank P., Chicago, Ill., assignor to The Standard Stoker Company, Incorporated. Stoker. 2,320,471; June 1.
Roesen, Oscar C., Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Web roll changing. 2,320,656; June 1.
Roesen, Oscar C., Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Web roll splicing method and apparatus. 2,320,657; June 1.
Roesen, Oscar C., Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Web roll replacement. 2,320,658; June 1.
Roethel, John H., assignor to Marvel Equipment Corporation, Detroit, Mich. Window regulator. 2,320,751; June 1.
Roethel, John H., assignor to Marvel Equipment Corporation, Detroit, Mich. Deck lid hinge. 2,320,752; June 1.
Röhm & Haas Company. (See Gift, Warren H., assignor.)
Rolnick, Harry, Dallas, Tex. Hat indicator. 2,320,472; June 1.
Rooney, James H., P. R. Hawtin, and D. C. Macpherson, Spondon, near Derby, England, assignors to Celanese Corporation of America. Casting sheet material. 2,320,473; June 1.
Ross, Adrian E., Stamford, Conn., assignor to Electrolux Corporation, New York, N. Y. Suction nozzle. 2,320,545; June 1.
Ross, Askew G. (See Gaus, G. E., Bennett, and Ross.)
Ross, Charles F., assignor to Power Brake Parts Manufacturing and Sales Company, Detroit, Mich. Coupling holder. 2,320,397; June 1.
Ross, Donald W., Washington, Pa. Drying of porous masses. 2,320,474; June 1.
Rosser, Charles M. (See Cornwell, R. T. K., Rosser, and Yourtee.)
Rossi, Carlo. (See Graenacher, C., Rossi, and Bruengger.)
Rowan, Frank E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Cooling system. 2,320,889; June 1.
Ruberoid Co., The. (See Hutten, Henry B., assignor.)
Runquist, Ernest M., and L. A. Ederer, assignors to R. J. Ederer Company, Chicago, Ill. Packaging machine. 2,320,798; June 1.
Russell, William J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Toaster. 2,320,951; June 1.
Russell, William L., assignor to Well Surveys, Incorporated, Tulsa, Okla. Geophysical prospecting. 2,320,890; June 1.
Ruthruff, Robert F., Chicago, Ill. Catalysts and preparation thereof. 2,320,799; June 1.
Ryan, Commodore D. (See Drake, E. P., and Ryan.)
Ryan, George F., Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method used in the manufacture of shoes. 2,320,475; June 1.
Ryder, Edward B., Jr., East Greenwich, R. I., assignor to The Apponaug Company. Dye beck. 2,320,891; June 1.
Sabel, Isadore, West Philadelphia, Pa., and L. S. Macdonald, Brockton, Mass. Orthopedic shoe. 2,320,800; June 1.
Saco-Lowell Shops. (See Cabot, Deane A., assignor.)
Saco-Lowell Shops. (See Cotchett, L. M., and Kennedy, assignors.)
Sahlin, Henry, assignor to General Motors Corporation, Detroit, Mich. Material handling device. 2,320,659; June 1.
Salsbury's, Dr., Laboratories. (See Mayfield, O. J., and Henry, assignors.)
Samzelius, John W., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Switch cabinet. 2,320,952; June 1.
San-Nap-Pak Manufacturing Company. (See Preston, Harry, assignor.)
Santos, Evaristo, Avellaneda, Argentina. Circuit for correcting phase displacement. 2,320,537; June 1.
Savage Arms Corporation. (See Brewer, Nicholas L., assignor.)
Scaramucci, Domer, assignor to Oil Equipment Engineering Corporation, Oklahoma City, Okla. Well casing attachment. 2,320,670; June 1.
Schaal, Earl V., East Aurora, assignor to Trico Products Corporation, Buffalo, N. Y. Wiper arm for windshield cleaners. 2,320,660; June 1.
Schaefer, Frank. (See Mandel, Fritz W., assignor.)
Schell, Albert E. (See Manson, R. H., and Schell.)
Scherbatskoy, Serge A., and R. E. Fearon, assignors to Well Surveys, Incorporated, Tulsa, Okla. Geophysical prospecting. 2,320,892; June 1.
Schering Corporation. (See Butenandt, Adolf, assignor.)
Schlack, Paul. (See Petersen, S., and Schlack.)
Schlegel, John W., and L. Lang, New York, N. Y., assignors to The National Sugar Refining Company, Edgewater, N. J. Doughnut sugar. 2,320,831; June 1.
Schmidt, August, Jr. (See Moyer, E. E., and Schmidt, Jr.)
Schmitt, Joy B., assignor to The DeVilbiss Company, Toledo, Ohio. Vaporizer. 2,320,669; June 1.
Schneider, Cale J., Toledo, Ohio. Partitioning means for partible bodies. 2,320,386; June 1.
Schneider, Kurt, Bitterfeld, Germany; vested in the Alien Property Custodian. Removing phosphorus and and arsenic compounds for vanadate solutions. 2,320,661; June 1.
Schoenberg, Mark J., and H. I. Maximon, New York, N. Y.; said Schoenberg assignor to said Maximon. Educational game. 2,320,832; June 1.
Schofield, Earl L., assignor to Hennes Motor Company, Freeport, Ill. Door check. 2,320,449; June 1.
Schott, John F. (See Glaes, C. L., and Schott.)
Schrader, Harold J., Haddon Heights, N. J., and T. A. Smith, Philadelphia, Pa., assignors to Radio Corporation of America. Phase measurement. 2,320,476; June 1.
Schroeder, Arthur C., Syracuse, N. Y., assignor to Redler Conveyor Company, Quincy, Mass. Conveyer. 2,320,834; June 1.
Schroeder, Harry E., Cleveland, Ohio. Attachment for portable implements. 2,320,387; June 1.
Schroeder, Richard, Aachen, Germany; vested in the Alien Property Custodian. Electrostatic voltmeter. 2,320,662; June 1.
Schullström, Tage, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,320,502; June 1.
Schultz, Erich, Stuttgart-Rotenberg, Germany; vested in the Alien Property Custodian. Centrifugal impeller. 2,320,663; June 1.
Schutte, August H. (See Kniel, L., and Schutte.)
Schwartz, John L., assignor to Philadelphia Thermometer Company, Philadelphia, Pa. Thermometer. 2,320,753; June 1.
Schwarz, Bertram A., and L. Fichter, Kokomo, Ind., assignors to General Motors Corporation, Detroit, Mich. Automatic tuner. 2,320,893; June 1.
Schwarzmann, Wolfgang E. (See Martin, J. F., Schwarzmann, and Bach.)
Schwedler, William, Buffalo, N. Y. Two-way clothespin. 2,320,894; June 1.
Scophony Corporation of America. (See Okolicsanyi, F., and Gale, assignors.)
Selden, Stanley J. (See Marchese, Jr., and Selden.)
Sertin, Jean V. L., Paris, France; vested in the Alien Property Custodian. Oar actuating apparatus. 2,320,664; June 1.
Servel, Inc. (See Ashby, Carl T., assignor.)
Servel, Inc. (See Cropper, Walter, assignor.)
Servel, Inc. (See Schullström, Tage, assignor.)
Servel, Inc. (See Taylor, John A., assignor.)
Shakespeare, Henry G., assignor to Shakespeare Products Company, Kalamazoo, Mich. Detachable clevis. 2,320,546; June 1.
Shakespeare Products Company. (See Shakespeare, Henry G., assignor.)
Shaw, Thomas, Cranston, R. I., assignor to Stackbin Corporation. Container assembly. 2,320,388; June 1.
Shearer, John P., assignor to Bloomer Bros. Company, Newark, N. Y. Box. 2,320,665; June 1.
Shell Development Company. (See White, Ellis R., assignor.)
Shenstone, Osborne H., assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada. Electric power lift. 2,320,953; June 1.
Shepard, John H., and N. Picard, Rochester, N. H. Tractor driven snowplow assembly. 2,320,389; June 1.
Sheremet, Maria. (See Voskresensky, P., and Sheremet.)
Sherlock, John E., and W. F. Forrest Martin-Hurst, Sunbury-on-Thames, England. Thermally operated electric switch. 2,320,895; June 1.
Sherman, Alvin G., Grosse Pointe, assignor to Sherman-Jackson-Roose Company, Detroit, Mich. Gas burner. 2,320,754; June 1.
Sherman-Jackson-Roose Company. (See Sherman, Alvin G., assignor.)
Shmurak, Benjamin, assignor to American Can Company, New York, N. Y. Can testing device. 2,320,390; June 1.
Shoults, David R., and F. E. Crever, Schenectady, N. Y., assignors to General Electric Company. Control system. 2,320,833; June 1.
Sillers, Thomas G. A. (See Michael, J. H., and Sillers.)
Simon-Carves Limited. (See Hirst, Arthur A., assignor.)
Simons, Leon, New York, N. Y. Coating metal. 2,320,801; June 1.
Sinclair, Harold, Kensington, London, England. Rotary power transmission mechanism. 2,320,758; June 1.
Sinclair, Harold, London, and R. C. Clerk, Egham, assignors to Hydraulic Couplings Patents Limited, London, England. Positive synchronizing coupling mechanism for power transmission. 2,320,757; June 1.
Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic device. 2,320,756; June 1.

Skelton, William E. (See Bruner, F. H., and Skelton.)
Smart, Ralph F., St. Louis, Mo. Shade roller bracket. 2,320,804; June 1.
Smidth, F. L., & Co. (See Rasmussen, Enok V., assignor.)
Smith, A. O., Corporation. (See Gruetjen, Frederick A., assignor.)
Smith, A. O., Corporation. (See Heath, William C., assignor.)
Smith, A. O., Corporation. (See Yost, Lloyd, assignor.)
Smith, Frank M., assignor to Clippert Brick Company, Dearborn, Mich. Portable conveyer. 2,320,667; June 1.
Smith, Frank M., Chicago, Ill. Refining apparatus. 2,320,755; June 1.
Smith, Harry A., Garden City, N. Y. Mechanical exhaust silencer. 2,320,668; June 1.
Smith, Richard F., assignor to Welding Tools and Engineering Corporation, Norfolk, Va. Structural tool. 2,320,805; June 1.
Smith, Theodore A. (See Schrader, H. J., and Smith.)
Smithereen Company. (See Jennings, H. E., and Hutzel, assignors.)
Snavely, Clarence S., Churchill Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 2,320,802; June 1.
Snyder, Frederick D., East Milton, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor control system. 2,320,896; June 1.
Society of Chemical Industry in Basle. (See Graenacher, C., Rossi, and Bruengger, assignors.)
Solon, Walter. (See Gill, J. R., and Solon.)
Souther, Benjamin F., Seattle, Wash. Hose reel. 2,320,477; June 1.
Spainhour, Joseph F., Jr., Morganton, N. C., assignor of one-fourth to N. J. Jewett, Arlington County, Va. Copying printed or written matter. 2,320,666; June 1.
Spear, Wendell C. (See Ellis, H. E., and Spear.)
Specialty Insulation Manufacturing Company. (See Batebolts, Clinton, assignor.)
Spencer, Ismael. (See Valenzuela, Pedro, assignor.)
Spencer Lens Company. (See Bailey, Stanley J., assignor.)
Sperti, George, assignor to The Institutum, Divi Thomae Foundation, Cincinnati, Ohio. Toilet preparation. 2,320,478; June 1.
Sperti, George, assignor to The Institutum, Divi Thomae Foundation, Cincinnati, Ohio. Topical remedy. 2,320,479; June 1.
Spring Packing Corporation. (See Ripley, C. T., and Gibbs, assignors.)
Stackbin Corporation. (See Shaw, Thomas, assignor.)
Stacy, Thomas F., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Fluid operated motor. 2,320,759; June 1.
Staege, Stephen A., assignor to The Black-Clawson Company, Hamilton, Ohio. Starter gearing. 2,320,897; June 1.
Stagg, Irving, Garden City, Mich. Building structure. 2,320,480; June 1.
Staggs, Russell W. (See Vedder, E. H., and Staggs.)
Staib, George A., Norristown, Pa. Stop means for micrometer calipers. 2,320,803; June 1.
Standard Oil Company. (See Bransky, David W., assignor.)
Standard Process Corporation. (See Ericksson, Emil, assignor.)
Standard Register Company, The. (See Ratchford, R. G. and Metzner, assignors.)
Standard Stoker Company, The. (See Mann, H. S., and Martin, assignors.)
Standard Stoker Company, The. (See Martin, Eugene, assignor.)
Standard Stoker Company, The. (See Moeller, Otto, assignor.)
Standard Stoker Company, The. (See Roesch, Frank P., assignor.)
Stanolind Oil and Gas Company. (See Dunn, Thomas H., assignor.)
Stanolind Oil and Gas Company. (See Thompson, Hubert H., assignor.)
Stavely, Robert W., Cleveland Heights, Ohio. Apparatus for filling cushions and like articles. 2,320,671; June 1.
Steadwell, Elery, Scotio, N. Y., assignor to General Electric Company. Electrode holder. 2,320,481; June 1.
Steigerwald, Francis J. (See Kramer, P. H., and Steigerwald.)
Stein, Albert A., assignor to Cold Spring Granite Company, Cold Spring, Minn. Machine for grinding curved surfaces. 2,320,672; June 1.
Steiner Sales Company. (See Birr, Rudolph G., assignor.)
Stenzel, Richard W., Palos Verdes Estates, and J. G. Suthard, Long Beach, Calif., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Stopcock control device. 2,320,482; June 1.
Stewart, Robert M., Knoxville, Tenn., assignor to Electro Manganese Corporation, Minneapolis, Minn. Cell construction. 2,320,806; June 1.
Stewart, Troy J., Great Bend, assignor to L. C. Morgan, Wichita, Kans. Well treating fluid. 2,320,673; June 1.
Stocker, Arthur C., Collingswood, N. J., assignor to Radio Corporation of America. Tunable circuits. 2,320,483; June 1.
Stokes and Smith Company. (See First, G. B., and Grotewold, assignors.)
Stow Manufacturing Company. (See Eisenbeis, George G., assignor.)
Strain, Franklin. (See Muskat, I. E., Pollack, Strain, and Franta.)
Strain, Franklin. (See Pollack, M. A., Strain, and Muskat.)
Strathmore Paper Company. (See Davidson, Paul B., assignor.)
Straub, W. F., & Company. (See Straug, Walter F., assignor.)
Straub, Walter F., assignor to W. F. Straub & Company, Chicago, Ill. Dispensing closure for containers. 2,320,484; June 1.
Straub, Walter F., assignor to W. F. Straub & Company, Chicago, Ill. Container with dispensing closure arrangement. 2,320,485; June 1.
Streibel, Ludwig. (See Ehresmann, A., and Streibel.)
Strehlow, Ell A. (See Vogt, William B., assignor.)
Stringham, L. Keever. (See Landis, G. G., and Stringham.)
Stromberg-Carlson Telephone Manufacturing Company. (See Manson, R. H., and Schell, assignors.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Vincent, Andrew W., assignor.)
Stuart, Frederick E., Baltimore, Md. Treatment of alcoholic liquors. 2,320,486; June 1.
Sturevant, B. F., Company. (See Palmer, Robert T., assignor.)
Suffolk University. (See Archer, Gleason L., assignor.)
Sullivan Machinery Company. (See Curtis, John C., assignor.)
Sullivan, Francis D., Memphis, Tenn. Grouting means and process. 2,320,954; June 1.
Surré, Anning F., Woodcliff, N. J., assignor to Mendez Corporation, New York, N. Y. Image producing apparatus. 2,320,760; June 1.
Suthard, James G. (See Stenzel, R. W., and Suthard.)
Svendsen, Eyvind. (See Landrum, Reginald F., assignor.)
Swartzbaugh Manufacturing Company, The. (See Hammell, Kemper M., assignor.)
Swift, Clinton E., Hales Corners, assignor to Ampco Metal, Inc., Milwaukee, Wis. Electric arc welding of manganese bronze. 2,320,675; June 1.
Swift, Clinton E., Hales Corners, assignor to Ampco Metal, Inc., Milwaukee, Wis. Arc welding electrode. 2,320,676; June 1.
Swift, Clinton E., Wauwatosa, assignor to Ampco Metal, Inc., Milwaukee, Wis. Covering for arc welding electrodes. 2,320,677; June 1.
Swift, Donald D., Hartford, Conn., assignor to M. Swift & Sons, Inc. Package. 2,320,674; June 1.
Swift, M., & Sons, Inc. (See Swift, Donald D., assignor.)
Swinford, Leo, assignor to R. Maury, Richmond, Va., as trustee. Cigar bunch shaping machine and knife therefor. 2,320,898; June 1.
Sylvania Industrial Corporation. (See Cornwell, R. T. K., Rosser and Yourtee, assignors.)
Tait, William H., Pinner, and B. Chalmers, London, England. Apparatus for electrically testing the thickness of thin layers. 2,320,761; June 1.
Talbot, Howard H. (See Knudsen, E., and Talbot.)
Talon, Inc. (See Carlile, Alfred E., assignor.)
Talon, Inc. (See Poux, Noel J., assignor.)
Tassel, Edmund M., Senlis, France; vested in the Alien Property Custodian. Synthetic tannins. 2,320,678; June 1.
Tathwell, Joseph H., Charlotte, N. C., assignor to Ditto, Incorporated, Chicago, Ill. Hectograph blanket conditioning container. 2,320,835; June 1.
Tauschek, Gustav, Vienna, Germany, assignor to International Business Machines Corporation, New York, N. Y. Sensing mechanism. 2,320,836; June 1.
Taylor, John A., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,320,501; June 1.
Taylor, John J., Wadsworth, assignor to The Ohio Brass Company, Mansfield, Ohio. Bolt rotating tool. 2,320,679; June 1.
Teletype Corporation. (See Grey, Victor, assignor.)
Temple, Robert, Pittsburgh, Pa. Press. 2,320,680; June 1.
Texas Company, The. (See Bruner, F. H., and Skelton, assignors.)
Thomasma, John C., Chicago, Ill. Seat cover package. 2,320,955; June 1.
Thompson, Hubert H., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Analyzing earth formations. 2,320,681; June 1.
Thorne, Warren B. (See Burns, F. D., and Thorne.)
Tiger, Roy L., Boulder, Colo. Landing wheel rotating device for airplanes. 2,320,547; June 1.
Tipaloy, Inc. (See Fletcher, James, assignor.)
Toggenburger, John, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,320,487; June 1.
Tollison, Paul L., North Plainfield, and I. Tornberg, assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J. Printing plate clamp. 2,320,762; June 1.
Tornberg, Isidor. (See Tollison, P. L., and Tornberg.)

Trautman, Charles W., assignor, by mesne assignments, to H. E. Bucklen, Jr., Elkhart, Ind. Mercury switch. 2,320,682; June 1.

Trautman, Charles W., assignor, by mesne assignments, to H. E. Bucklen, Jr., Elkhart, Ind. Mercury switch. 2,320,683; June 1.

Trautman, Walter C., assignor, by mesne assignments, to Bendix Aviation, Ltd., North Hollywood, Calif. Pilot valve. 2,320,763; June 1.

Trico Products Corporation. (See Schaal, Earl V., assignor.)

Troy, Max, New York, N. Y. Laundry machinery. 2,320,488; June 1.

Turcotte, John E., Worcester, Mass. Attachment for converting dry twisters into wet twisters. 2,320,956; June 1.

Turner, Alfred W., Philadelphia, and T. V. Greene, Upper Darby, Pa., assignors to Exercycle Corporation, New York, N. Y. Exercising apparatus. 2,320,489; June 1.

Turner, Basil S., and M. B. Arisman, assignors to Chicago Telephone Supply Company, Elkhart, Ind. Combination rheostat and switch. 2,320,837; June 1.

Uddenborg, Johan R., Chicago, Ill. Shoe tree. 2,320,490; June 1.

Ulirich, William L., Washington, D. C. Container. 2,320,764; June 1.

Ullrich, Horace W., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone signaling system. 2,320,957; June 1.

Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)

Underwood Elliott Fisher Company. (See Toggenburger, John, assignor.)

Underwood, Harry T. (See Owner, F. M., and Underwood.)

Underwood, James W. (See D'Aiello, G. F., and Underwood.)

Union Bank of Chicago, Ill. (See Cowles, Irving, and Lotz.)

Union Carbide and Carbon Corporation. (See Maibauer, Albert E., assignor.)

Union Switch and Signal Company, The. (See Pelikan, John M., assignor.)

Union Switch & Signal Company, The. (See Peter, L. H., and Coley, assignors.)

Union Switch & Signal Company, The. (See Pflasterer, George R., assignor.)

Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)

United Air Lines Transport Corporation. (See Davies, W. W., and Page, assignors.)

United Engineering & Foundry Company. (See Knudsen, E., and (Talbot, assignor).)

United Shoe Machinery Corporation. (See Connors, Patrick J., assignor.)

United Shoe Machinery Corporation. (See Elliott, H. E., and Mawbey, assignors.)

United Shoe Machinery Corporation. (See Ryan, George F., assignor.)

United States Rubber Company. (See Paul, Philip T., assignor.)

Universal Camera Corporation. (See Githens, O. W., and Kende, assignors.)

Universal Hydraulic Stress Equalizer, Inc. (See Zoll, Carl M., assignor.)

Upham, Harry E., Bridgeport, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Shaver head guard. 2,320,807; June 1.

Upton, Charles B., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Expressing press. 2,320,765; June 1.

Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Thyrite protective device. 2,320,958; June 1.

Utility Patents Trust. (See Cowles, I., and Lotz.)

Valenzuela, Pedro, assignor of one-half to Ismael Spencer, Presidio, Tex. Belt clip for pistols. 2,320,450; June 1.

Vanity Fair Mills, Inc. (See Burns, Charles R., assignor.)

Van Lammeren, Johannes A., and J. W. Alexander, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y. Wireless receiving set. 2,320,808; June 1.

Van Saun, Raymond H., assignor to Container Corporation of America, Chicago, Ill. Stapling machine. 2,320,684; June 1.

Vedder, Edwin H., Forest Hills, Pa., and R. W. Staggs, Detroit, Mich., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge apparatus. 2,320,491; June 1.

Vickers, Incorporated. (See Herman, K. R., and Robinson, assignors.)

Vincent, Andrew W., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone ringer. 2,320,896; June 1.

Vogt, William B., Herald, assignor of one-half to E. A. Strehlow, Sacramento, Calif. Roof shingling seat. 2,320,538; June 1.

Von Bertele, Hans, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian. Vapor electric device. 2,320,685; June 1.

Voskresensky, Peter, and M. Sheremet, Moscow, Union of Soviet Socialist Republics. Separating albumin from naturally and artificially prepared solutions particularly blood. 2,320,766; June 1.

Voss, John H., Downers Grove, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,320,548; June 1.

Voss, John H., Downers Grove, and F. Kessler, Villa Park, assignors to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,320,549; June 1.

Wakefield, George H., Takoma Park, Md. Explosion turbine motor. 2,320,391; June 1.

Walker, Cranford P., San Marino, Calif. Determining fluid pressure and production capacity of oil wells. 2,320,492; June 1.

Wallace, Frank C., Los Angeles, assignor, by mesne assignments, to H. H. Helbush, Beverly Hills, Calif. Clamp. 2,320,493; June 1.

Wallace, James M., Braddock, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,320,494; June 1.

Walz, John G., Holyoke, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bimetallic clutch. 2,320,900; June 1.

Waseige, Charles R., Rueil-Malmaison, France; vested in the Alien Property Custodian. Pressure control valve. 2,320,686; June 1.

Washburn, Edward D. and P. M., Shelby, N. C. Automatic measuring apparatus. 2,320,767; June 1.

Washburn, Pinkney M. (See Washburn, Edward D. and P. M.)

Washington Institute of Technology, Inc. (See Kear, Frank G., assignor.)

Waterman, Herbert, assignor to Aerovox Corporation, New Bedford, Mass. Forming circuit. 2,320,495; June 1.

Watson, Joseph C., Washington, D. C. Telephone instrument. 2,320,838; June 1.

Weber, Peter, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system for vehicles driven by single-phase current. 2,320,959; June 1.

Webster Electric Company. (See Daily, Roy, assignor.)

Webster, Samuel W., Houston, Tex., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Water cooled cathead. 2,320,901; June 1.

Wechsler, Henry, Arverne, Long Island, N. Y. Decorating device. 2,320,496; June 1.

Weddle, John P., and J. W. Meyers, Welcetka, Okla. Dado and gain saws. 2,320,539; June 1.

Wehmann, George C., Jr., New Richmond, Ohio. Transportation ticket or other paper. 2,320,687; June 1.

Weissflog, Arthur R., Pittsburgh, Pa. Artist's palette case. 2,320,540; June 1.

Welding Tools and Engineering Corporation. (See Smith, Richard F., assignor.)

Well Surveys, Incorporated. (See Green, William G., assignor.)

Well Surveys, Incorporated. (See Neufeld, Jacob, assignor.)

Well Surveys, Incorporated. (See Russell, William L., assignor.)

Well Surveys, Incorporated. (See Scherbatskoy, S. A., and Fearon, assignors.)

Wendt, Bruno. (See Eggert, J., and Wendt.)

Wenner, Wilhelm, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Derivatives of tropic acid amide and manufacture thereof. 2,320,497; June 1.

Wesling, Louis, assignor to B. F. Forsyth, Chicago, Ill. Adjustable stool. 2,320,688; June 1.

Western Cartridge Company. (See Clarkson, Ralph E., assignor.)

Western Electric Company. (See Holcomb, Arthur L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Abell, George L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Baudry, Rene, assignor.)

Westinghouse Electric & Manufacturing Company. (See Claybourn, G. L., and Keck, assignors.)

Westinghouse Electric & Manufacturing Company. (See Cook, Willard G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ellis, H. E., and Spear, assignors.)

Westinghouse Electric & Manufacturing Company. (See Ford, James G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Goldsborough, Shirley L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hagg, Arthur C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hill, Lawrence R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hodnette, John K., assignor.)

Westinghouse Electric & Manufacturing Company. (See Jennings, Oliver S., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lee, Paul R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Liwschitz, Michael, assignor.)

Westinghouse Electric & Manufacturing Company. (See Mabry, Forrest S., assignor.)

Westinghouse Electric & Manufacturing Company. (See Madden, Harry D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Myers, H. C., and Cox, assignor.)

Westinghouse Electric & Manufacturing Company. (See Rennow, Willis A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Read, Thomas A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Reifenberg, Joseph H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Russell, William J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Samzelius, John W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Snyder, Frederick D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Vedder, E. H., and Staggs, assignors.)

Westinghouse Electric & Manufacturing Company. (See Wallace, James M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Walz, John G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Weber, Peter, assignor.)

Westinghouse Electric & Manufacturing Company. (See Williams, Carroll M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Wilson, Earl D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Zetterquist, Eric A., assignor.)

Wheaton, Estel O., assignor to Kelly-Wheaton Company, Toledo, Ohio. Transmission control. 2,320,960; June 1.

Wheeler, Alexander W., Philadelphia, Pa., assignor to National Lead Company, New York, N. Y. Making metal coated collapsible tubes. 2,320,498; June 1.

Whitcomb, Percy E., Elgin, and O. T. McIlvaine, St. Charles, Ill. Laundry table. 2,320,961; June 1.

White, Ellis R., Albany, assignor to Shell Development Company, San Francisco, Calif. Anti-ring-sticking lubricant. 2,320,392; June 1.

Wiest, Walter, and E. Winkeler, Stuttgart-Unterturkheim, Germany; vested in the Alien Property Custodian. Washing machine. 2,320,689; June 1.

Williams, Carroll M., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical apparatus. 2,320,902; June 1.

Willis, Wilmer H., Los Angeles, Calif. Building wall construction. 2,320,690; June 1.

Wilson, Cecil B., Greenford, England, assignor to The Hoover Company, North Canton, Ohio. Commutator for dynamoelectric machines. 2,320,541; June 1.

Wilson, Earl D., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Treatment of copper-oxide rectifiers with nitrogen. 2,320,962; June 1.

Wilson-Jones Company. (See Buenger, E. F., and Nelson, assignors.)

Wilson, Rosser L., Mahwah, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Control apparatus. 2,320,809; June 1.

Winkeler, Erwin. (See Wiest, W., and Winkeler.)

Winston, Harry, Inc. (See Mueller, Erhard, assignor.)

Wittmer, Russell J., Cleveland Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Draft and buffing gear. 2,320,839; June 1.

Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Continuous strip pickling and cleaning apparatus. 2,320,499; June 1.

Wood, Gar, Industries, Inc. (See Barrett, Edward R., assignor.)

Wood Newspaper Machinery Corporation. (See Roesen, Oscar C., assignor.)

Wood Newspaper Machinery Corporation. (See Tollison, P. L., and Tornberg, assignors.)

Worthington, Roland B., Kansas City, Mo. Container. 2,320,840; June 1.

Wrathall, Leishman R., River Edge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phase modulation. 2,320,963; June 1.

Wright, Le Moine, Worcester, Mass. Rubber product and making same. 2,320,691; June 1.

Wright, William S., Newark, assignor to The Hoover Company, Canton, Ohio. Removing ice cubes from freezing trays. 2,320,542; June 1.

Wyandotte Chemicals Corporation. (See Mericola, F. C., and Roderick, assignors.)

Wyatt, James R., Llanerch, assignor to Ajax Electric Furnace Corporation, Philadelphia, Pa. Induction furnace. 2,320,692; June 1.

Yates, Harry A., Fairfield, Conn. Safety air nozzle. 2,320,964; June 1.

Yauck, Edwin C., Brighton, and J. Dessauer, Irondequoit, assignors to The Haloid Company, Rochester, N. Y. Duplex photographic material. 2,320,693; June 1.

Yost, Lloyd, Los Angeles, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis. Submersible electrically driven pump. 2,320,708; June 1.

Yourtee, John A. (See Cornwell, R. T. K., Rosser, and Yourtee.)

Zerweck, Werner, and R. Müller, Frankfort-on-the-Main-Fechenheim, and K. Bähr, Leverkusen I. G. Werk, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Vat dyestuff of the anthanthrone series. 2,320,694; June 1.

Zetterquist, Eric A., Drexel Hill, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cooling high temperature bolting. 2,320,398; June 1.

Zieher, Gustav, Jena, Germany; vested in the Alien Property Custodian. Measuring device. 2,320,695; June 1.

Zoll, Carl M., assignor to Universal Hydraulic Stress Equalizer, Inc., Dundalk, Md. Diver controlled salvage bell. 2,320,696; June 1.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Couplers for color photography, Pyrazolone. H. D. Porter and A. Weissberger. Re. 22,329; June 1.

Frequency modulation measurement. H. M. Crosby. Re. 22,328; June 1.

LIST OF DESIGN INVENTIONS

Airplane. D. R. Berlin. 135,749; June 1.
Apparatus for collating and posting business forms. R. C. Browne. 135,751; June 1.
Badge, Patriotic. R. M. Mason. 135,754–5; June 1.
Bootee. W. A. Clark. 135,760; June 1.
Box, Candy. E. B. Rice. 135,770; June 1.
Building, Portable. A. E. Waterman. 135,758; June 1.
Calipers, Indicating. P. N. Nelson. 135,757; June 1.
Carriage, Lathe. W. M. McConnell. 135,742; June 1.
Case, Camera carrying. F. S. Grover. 135,762; June 1.
Clip, Bill. H. Graeter. 135,753; June 1.
Dress. G. Constantine. 135,766; June 1.
Dress. M. Orloff. 135,767; June 1.
Handbag. I. Jolles. 135,769; June 1.
Handle and reel, Combined fishing rod. T. C. Fanshier. 135,761; June 1.
Harness, Dog. T. L. Curtis. 135,752; June 1.
Helmet. F. R. Wulsin. 135,765; June 1.
Holder for beer foam scrapers. J. Austin. 135,747; June 1.
Holder, Lipstick. H. L. Ross. 135,745; June 1.
Housing for rapid traverse mechanism for lathes. W. M. McConnell. 135,741; June 1.
Indicator, Combined scoring board and trump-card. R. G. Pavey. 135,744; June 1.
Light, Flash or signal. R. L. Falge. 135,768; June 1.
Necktie-rack or the like. A. R. Brothers. 135,750; June 1.
Paper weight. J. J. Morris. 135,756; June 1.
Placard or the like. H. M. Wertz. 135,746; June 1.
Puzzle board. J. A. Nevin. 135,743; June 1.
Ring, Tossing. B. D. Hodge. 135,740; June 1.
Set of playing cards. E. H. Kieser. 135,763; June 1.
Sheet and envelope, Combined message. F. W. Baumgartner. 135,748; June 1.
Sign, Bowling. J. A. Rohan, Jr. 135,764; June 1.
Slicing machine. E. H. Arens and T. C. Brookhart. 135,739; June 1.
Tool, Combination. A. H. Wiljamaa. 135,759; June 1.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading apparatus. W. L. Keefer. 2,320,364; June 1.
Accumulator. T. R. James and J. Desjardins. 2,320,934; June 1.
Acid esters, Preparation of organic. H. C. Black. 2,320,844; June 1.
Adhesively uniting hard and soft rubber or rubberlike masses with surfaces of other materials. H. Knopp and H. Miedel. 2,320,937; June 1.
Adjustable stool. L. Wesling. 2,320,688; June 1.
Air conditioning system utilizing refrigeration. R. T. Palmer. 2,320,978; June 1.
Air conditioning unit. R. W. Kritzer. 2,320,525; June 1.
Air cylinder apparatus for bottle filling machines. G. J. Meyer. 2,320,373; June 1.
Air nozzle, Safety. H. A. Yates. 2,320,964; June 1.
Aliphatic anhydrides from mixtures containing water, Separation of. I. L. Murray and F. H. Roberts. 2,320,461; June 1.
Alternator and control system therefor. F. F. Hutchinson. 2,320,602; June 1.
Aminoplast containing a halogenated nitrile. G. F. D'Alelio. 2,320,816; June 1.
Amplifier and detecting system, Oscillating. C. W. Hansell. 2,320,428; June 1.
Amplitude control for oscillator circuits, Automatic. F. S. Mabry. 2,320,876; June 1.
Amusement apparatus. N. Bartlett. 2,320,555; June 1.
Anchor, Earth. C. R. Pieper. 2,320,464; June 1.
Anchor, Twin fluke. R. S. Danforth. 2,320,966; June 1.
Animal feeding apparatus. C. P. Murphy. 2,320,828; June 1.
Antioxidants. P. T. Paul. 2,320,745–6; June 1.
Apparatus and method for making composition material. J. Marchese and S. J. Selden. 2,320,702; June 1.
Apparatus for and method of treating and removing suspended particles in liquids. J. M. Daily. 2,320,512; June 1.
Apparatus for annealing and coating wire. J. Cook. 2,320,412; June 1.
Apparatus for automatically controlling gas pressure on beverages. W. R. Kromer and H. F. Elliott. 2,320,969; June 1.
Apparatus for conveying and filling cartons. G. B. First and H. Grotewold. 2,320,581; June 1.
Apparatus for electrically testing the thickness of thin layers. W. H. Tait and B. Chalmers. 2,320,761; June 1.
Apparatus for feeding foil. H. F. Hild. 2,320,729; June 1.
Apparatus for filling cushions and like articles. R. W. Stavely. 2,320,671; June 1.
Apparatus for gravity separation of granular material. A. A. Hirst. 2,320,519; June 1.
Apparatus for making metal wool products. C. Field. 2,320,858; June 1.
Apparatus for molding concrete slabs. W. R. Hume. 2,320,728; June 1.
Apparatus for removing material from containers. G. F. Ilgen. 2,320,933; June 1.
Apparatus for testing thin rubber articles. J. R. Gammeter. 2,320,516; June 1.
Apparatus for the separation of fluids. J. Blizard. 2,320,345; June 1.
Armor, Tire. F. Moore. 2,320,827; June 1.
Article of manufacture for use as an insecticide and making, New. H. E. Jennings and J. M. Hutzel. 2,320,520; June 1.
Articles, Making retractile. R. Picard and R. Fays. 2,320,381; June 1.
Artificial glass. I. E. Muskat, M. A. Pollack, F. Strain, and W. A. Franta. 2,320,533; June 1.
Artist's palette case. A. R. Weissflog. 2,320,540; June 1.
Ascertaining from aircraft in flight variations in the force of the wind at various distances below the aircraft. H. C. Gatty. 2,320,359; June 1.
Ash tray, Portable. S. Phillips. 2,320,647; June 1.
Assembler mechanism of type casting machines. G. H. Hutchison. 2,320,932; June 1.
Attachment for converting dry twisters into wet twisters. J. E. Turcotte. 2,320,956; June 1.
Attachment for portable implements. H. E. Schroeder. 2,320,387; June 1.
Audio band width control. H. Boucke. 2,320,558; June 1.
Auger attachment for snowplows or the like. L. P. M. Gaylord. 2,320,723; June 1.
Automatic marine hitch. C. T. Marthey. 2,320,948; June 1.
Automatic measuring apparatus. E. D. and P. M. Washburn. 2,320,767; June 1.
Automatic slide projector. H. B. Brose. 2,320,910; June 1.
Automatic tank destroyer. G. L. Archer. 2,320,903; June 1.
Automatic trailer brake. J. R. Gill and W. Solon. 2,320,585; June 1.
Bag: *See*—
Cephalic bag.
Bag for clothespins and garment hangers. M. Dalloz. 2,320,415; June 1.
Bearing: *See*—
Roller bearing.
Bed, Automobile. H. A. Kleine. 2,320,614; June 1.
Belt, Infant toilet seat. F. C. Johnstone. 2,320,935; June 1.
Belts, Treatment of worn abrasive. H. Conrady. 2,320,569; June 1.
Bench, Draw. E. Knudsen and H. H. Talbot. 2,320,739; June 1.
Beverage mixer. A. R. Hite and J. N. Hendrix. 2,320,730; June 1.
Bimetallic clutch. J. G. Walz. 2,320,900; June 1.
Binocular. S. J. Bailey. 2,320,504; June 1.
Bit: *See*—
Drill bit. Well drilling bit.
Blanc fixe, Manufacture of neutral. J. B. Pierce, Jr. 2,320,980; June 1.
Blowout preventer. J. W. MacClatchie. 2,320,974; June 1.
Bobbin for spinning frame. L. M. Cotchett and J. A. Kennedy. 2,320,965; June 1.
Bolt rotating tool. J. J. Taylor. 2,320,679; June 1.
Book mark. V. Pepe. 2,320,383; June 1.
Booster valve. E. Martin. 2,320,444; June 1.
Bottle carrier. C. H. and D. H. Kruea. 2,320,440; June 1.
Box: *See*—
Outlet box.
Box. J. P. Shearer. 2,320,665; June 1.
Box, switch box, and the like, Outlet. E. A. Lefebre. 2,320,621; June 1.
Bracket: *See*—
Shade roller bracket.
Brake: *See*—
Automatic trailer brake.
Brake. W. H. Manning. 2,320,878; June 1.
Brake mechanism, Spindle. D. A. Cabot. 2,320,565; June 1.
Bread wrapping machine. T. Jensen. 2,320,362; June 1.
Broach. M. B. Mentley. 2,320,787; June 1.
Brush, Rotary. R. O. Peterson. 2,320,384; June 1.
Bubble cap. F. J. Kerrigan. 2,320,822; June 1.
Buffing machine, Shoe. H. E. Elliott and L. Mawbey. 2,320,420; June 1.
Building material, Decorative. P. H. Pennell. 2,320,979; June 1.
Building structure. I. Stagg. 2,320,480; June 1.
Burner: *See*—
Fuel burner. Gas burner.
Cabinet: *See*—
Switch cabinet.
Camera. L. del Riccio. 2,320,350; June 1.
Camera. O. W. Githens and G. Kende. 2,320,423; June 1.
Can testing device. B. Shmurak. 2,320,390; June 1.
Cap: *See*—
Bubble cap.
Cap opener, Screw. H. Hickman. 2,320,599; June 1.
Capping device. E. S. Engle. 2,320,515; June 1.
Carburizer. P. H. Kramer and F. J. Steigerwald. 2,320,872; June 1.
Carrier: *See*—
Bottle carrier.
Carton, Radio tube. W. A. Ringler. 2,320,396; June 1.
Case: *See*—
Artist's palette case. Display and storage case.
Catalysts and preparation thereof. R. F. Ruthruff. 2,320,799; June 1.
Cathead, Water cooled. S. W. Webster. 2,320,901; June 1.
Cathode ray tube. W. Flechsig. 2,320,582; June 1.
Cathode tube recorder for calculating machines. J. W. Bryce. 2,320,337; June 1.
Cell construction. R. M. Stewart. 2,320,806; June 1.
Cellophane, Marking. D. R. Grant. 2,320,925; June 1.
Cellulose materials, of improved fastness to light and preparing same, Dyed. C. Graenacher, C. Rossi, and H. Bruengger. 2,320,588; June 1.
Cementing machine. I. L. Keith. 2,320,438; June 1.

Centrifugal casting mold. S. B. Ritchie. 2,320,395; June 1.
Centrifugal impeller. E. Schultz. 2,320,663; June 1.
Cephalic bag. P. J. Rabil. 2,320,467; June 1.
Chair: *See*—
Folding chair.
Chair. W. C. Lucas. 2,320,786; June 1.
Chuck, Crankshaft. W. F. Groene and W. R. Meyer. 2,320,983; June 1.
Cigar bunch shaping machine and knife therefor. L. Swinford. 2,320,898; June 1.
Cigarette holder. J. H. Brady. 2,320,561; June 1.
Circuit: *See*—
Forming circuit.
Circuit breaker. W. H. Frank and J. A. Messing. 2,320,366; June 1.
Circuit breaker. W. H. Frank and E. T. Platz. 2,320,355; June 1.
Circuit breaker. O. S. Jennings. 2,320,437; June 1.
Circuit breaker. E. T. Platz. 2,320,382; June 1.
Circuit breaker. E. T. Platz and W. H. Frank. 2,320,357; June 1.
Circuit for connecting phase displacement. E. Santos. 2,320,537; June 1.
Circuit interrupter. J. M. Wallace. 2,320,494; June 1.
Circuits, Tunable. A. C. Stocker. 2,320,483; June 1.
Clamp: *See*—
Printing plate clamp. Rail clamp.
Clamp. F. C. Wallace. 2,320,493; June 1.
Clamp and socket, Wire rope. R. A. Doughty. 2,320,543; June 1.
Cleaner: *See*—
Ditch cleaner. Suction cleaner.
Cleaning device for mixing or agitating vessels. J. C. McCartney and H. R. Jaynes. 2,320,976; June 1.
Clevis, Detachable. H. G. Shakespeare. 2,320,546; June 1.
Clip: *See*—
Pocket clip.
Clip for pistols, Belt. P. Valenzuela. 2,320,450; June 1.
Clock operated switch. F. Nawells. 2,320,462; June 1.
Closure for containers, Dispensing. W. F. Straub. 2,320,484; June 1.
Clothesline, Movable. C. A. Nelson. 2,320,735; June 1.
Clothesline post and reel. P. Reitz. 2,320,448; June 1.
Clothespin, Two-way. W. Schwedler. 2,320,894; June 1.
Clutch: *See*—
Bimetallic clutch.
Coat with detachable lining. L. J. Reitler. 2,320,950; June 1.
Coating. M. A. Pollack, F. Strain, and I. E. Muskat. 2,320,536; June 1.
Coating composition and producing the same. F. J. Licata. 2,320,527; June 1.
Collapsible tubes, Metal coated. A. W. Wheeler. 2,320,498; June 1.
Color photographs. J. Eggert and B. Wendt. 2,320,418; June 1.
Color separation images, Producing. B. Gáspár. 2,320,358; June 1.
Combination book match and sample or advertising carrier. L. Lipowitz. 2,320,940; June 1.
Combining foam rubber. C. L. Glaes and J. F. Schott. 2,320,425; June 1.
Combustion engine. R. Landis. 2,320,526; June 1.
Comminutor. A. C. Durdin, Jr. 2,320,514; June 1.
Commutator for dynamoelectric machines. C. B. Wilson. 2,320,541; June 1.
Compass, Radio. H. G. Busignies. 2,320,908; June 1.
Computing machine. W. A. Anderson. 2,320,399; June 1.
Condensation products of aminotriazines aldehydes, and halogenated aliphatic nitriles. G. F. D'Alelio. 2,320,818; June 1.
Condensation products of an aminotriazole, an aldehyde, and a halogenated nitrile. G. F. D'Alelio. 2,320,820; June 1.
Conditioning of drilling muds. B. S. Lindsey. 2,320,622; June 1.
Conduit and coupling therefor. I. Cowles. 2,320,812; June 1.
Confections, Packaging frozen. L. D. Overland. 2,320,985; June 1.
Connector: *See*—
Valved connector.
Connector. R. G. Graham. 2,320,777; June 1.
Construction for dynamoelectric machines. R. Baudry. 2,320,843; June 1.
Container. W. L. Ullrich. 2,320,764; June 1.
Container. R. B. Worthington. 2,320,840; June 1.
Container assembly. T. Shaw. 2,320,388; June 1.
Container-tab marking machine. J. M. Hothersall and A. E. Almgren. 2,320,361; June 1.
Container with dispensing closure arrangement. W. F. Straub. 2,320,485; June 1.
Control apparatus. A. B. Newton. 2,320,881; June 1.
Control apparatus. R. L. Wilson. 2,320,809; June 1.
Control device. J. E. and J. B. Brosseau. 2,320,347; June 1.
Control device, Condition responsive. H. F. Peterson. 2,320,535; June 1.
Control device, Stopcock. R. W. Stenzel and J. G. Suthard. 2,320,482; June 1.
Control system. W. G. Cook. 2,320,850; June 1.
Control system. D. R. Shoults and F. E. Crever. 2,320,833; June 1.
Control system, Electric motor. A. L. Holcomb. 2,320,434; June 1.
Control system for vehicles driven by single-phase current. P. Weber. 2,320,959; June 1.
Controlled salvage bell, Diver. C. M. Zoll. 2,320,696; June 1.
Conveyer. A. C. Schroeder. 2,320,834; June 1.
Conveyer, Portable. F. M. Smith. 2,320,667; June 1.
Conveying and mixing apparatus. R. M. Cook. 2,320,509; June 1.
Conveyor system. W. H. Robinson and J. E. Anderson. 2,320,797; June 1.
Cooling high temperature bolting. E. A. Zetterquist. 2,320,398; June 1.
Cooling system. F. E. Rowan. 2,320,880; June 1.
Copper-oxide rectifiers with nitrogen, Treatment of. E. D. Wilson. 2,320,962; June 1.
Copying printed or written matter, Process of. J. F. Spainhour, Jr. 2,320,666; June 1.
Corrosion reduction in air preheaters. R. S. Cooper. 2,320,911; June 1.
Cotton sampler apparatus. G. E. Gaus, C. A. Bennett, and A. G. Ross. 2,320,544; June 1.
Coupling: *See*—
Quick detachable coupling Valved coupling.
Coupling for flanged metal tubing. I. Cowles. 2,320,813; June 1.
Coupling holder. C. F. Ross. 2,320,397; June 1.
Covering for arc welding electrodes. C. E. Swift. 2,320,677; June 1.
Crane, Self-propelled. R. G. LeTourneau. 2,320,620; June 1.
Cream dipper. C. P. Crocker. 2,320,570; June 1.
Current delivering and conducting means. M. G. Rees. 2,320,470; June 1.
Cutter: *See*—
Paper cutter.
Cutter. F. H. Müller. 2,320,460; June 1.
Cutter for cigar machines, Leaf. C. F. Randolph. 2,320,393; June 1.
Cylinder construction, Thresher. H. Maginn. 2,320,945; June 1.
Cylinder honing. V. W. Peterson and F. J. Daley. 2,320,747; June 1.
Cylindrical surface of internal combustion engines. H. R. Ricardo and J. F. Alcock. 2,320,830; June 1.
Dado and gain saw. J. P. Weddle and J. W. Meyers. 2,320,539; June 1.
Dampening roll for printing presses. J. F. Jirousek. 2,320,523; June 1.
Damper. Electrodynamic oscillation. N. Ericson. 2,320,721; June 1.
Decorating device. H. Wechsler. 2,320,496; June 1.
Δ^5-cholestenone-3 and producing the same. A. Butenandt. 2,320,847; June 1.
Dental plates, Making. F. W. Mandel. 2,320,826; June 1.
Depolymerizing olefinic polymers. P. L. Cramer. 2,320,851; June 1.
Derivatives of tropic acid amide and manufacture thereof. W. Wenner. 2,320,497; June 1.
Device for determining flow volume of treating liquids. G. Raymond. 2,320,447; June 1.
Device responsive to changes in density of liquids. G. M. Croft. 2,320,720; June 1.
Device, Safety locking. A. F. Huber. 2,320,779; June 1.
Diamond cutting and polishing machine. E. Mueller. 2,320,376–7; June 1.
Diesel engine. F. W. Plumb. 2,320,648; June 1.
Discharge apparatus. E. H. Vedder and R. W. Staggs. 2,320,491; June 1.
Disk harrow. J. A. Love. 2,320,624; June 1.
Dispenser: *See*—
Paper roll dispenser.
Dispensing device. H. G. Pressentin. 2,320,749; June 1.
Display and storage case. C. F. Belshaw. 2,320,556; June 1.
Display, Reversible. C. Klein. 2,320,522; June 1.
Distillation apparatus for steam plants. P. J. Delahanty. 2,320,853; June 1.
Distributor for stokers, Fuel. H. S. Mann and E. Martin. 2,320,443; June 1.
Ditch cleaner. W. E. Dukes. 2,320,855; June 1.
Door. L. E. Jackson and J. T. Dickson. 2,320,604; June 1.
Door check. E. L. Schofield. 2,320,449; June 1.
Door operator for dump wagons. J. Kuchar. 2,320,701; June 1.
Draft and buffing gear. R. J. Wittmar. 2,320,839; June 1.
Drafting instrument. J. T. Ivy. 2,320,603; June 1.
Drill bit. C. W. Kandle. 2,320,610; June 1.
Duct, Anti-icing. C. L. Johnson. 2,320,870; June 1.
Duplication process and master sheet for use therein. W. J. Champion. 2,320,769; June 1.
Dye beck. E. B. Ryder, Jr. 2,320,891; June 1.
Dyestuff of the anthanthrone series, Vat. W. Zerweck, R. Müller and K. Bähr. 2,320,694; June 1.
Earth boring tool. C. W. Kandle. 2,320,612; June 1.
Earth formations, Analyzing. H. H. Thompson 2,320,681; June 1.

Electric cable, Making high tension. H. H. Race. 2,320,796; June 1.
Electric motor gearing. R. A. Niekamp. 2,320,379; June 1.
Electric power lift. O. H. Shenstone. 2,320,953; June 1.
Electric valve circuits. E. E. Moyer and A. Schmidt, Jr. 2,320,790; June 1.
Electric welding. G. G. Landis and L. K. Stringham. 2,320,824; June 1.
Electrical apparatus. C. M. Williams. 2,320,902; June 1.
Electrical pulse controlling means. H. H. Beizer and L. H. Davis. 2,320,401; June 1.
Electrical signal-translating apparatus. E. C. Guedon. 2,320,427; June 1.
Electrode, Arc welding. C. E. Swift. 2,320,676; June 1.
Electrode holder. E. Steadwell. 2,320,481; June 1.
Electrode, Welding. J. Fletcher. 2,320,920; June 1.
Electrodeposition of manganese. C. G. Fink and M. Kolodney. 2,320,773; June 1.
Electromechanical vibrator. T. A. Read. 2,320,887; June 1.
Electron discharge apparatus. J. H. Fremlin. 2,320,860; June 1.
Electronic device. A. M. Skellett. 2,320,756; June 1.
Electroplating equipment. A. E. Maibauer. 2,320,442; June 1.
Electrostatic voltmeter. R. Schroeder. 2,320,662; June 1.
Engine: *See*—
Combustion engine. Sleeve valve internal-combustion engine
Diesel engine.
Engine. W. Henson. 2,320,928; June 1.
Equalizing fulcrum arrangement. E. J. Harley. 2,320,864; June 1.
Esters, Translucent polymeric methacrylic. W. H. Gift. 2,320,924; June 1.
Exercising apparatus. A. W. Turner and T. V. Greene. 2,320,489; June 1.
Exhaust control for air hammers. O. O. Appton. 2,320,340; June 1.
Expanding tool. J. B. Hood. 2,320,435; June 1.
Explosion turbine motor. G. H. Wakefield. 2,320,391; June 1.
Explosive composition. M. F. Lindsley, Jr. 2,320,972; June 1.
Explosives, Making. M. F. Lindsley, Jr. 2,320,971; June 1.
Expressing press. C. B. Upton. 2,320,765; June 1.
Fabrics, Making warp knit. C. R. Burhs. 2,320,405; June 1.
Fastening means. J. F. Martin, W. E. Schwarzmann, and E. M. Bach. 2,320,947; June 1.
Feed mechanism for firearms. N. L. Brewer. 2,320,403; June 1.
Ferrule. G. S. Eisenbeis. 2,320,579; June 1.
Film, Photographic. M. Gelfand. 2,320,517; June 1.
Filter. R. W. Hautzenroeder. 2,320,725; June 1.
Firearm. R. E. Clarkson. 2,320,348; June 1.
Flexible insulating material. L. R. Hill. 2,320,866; June 1.
Fluid operated motor. T. F. Stacy. 2,320,759; June 1.
Fluid pressure and production capacity of oil wells, Determining. C. P. Walker. 2,320,492; June 1.
Fluid propelling apparatus, Screw type. J. T. McIntyre. 2,320,733; June 1.
Fluid, Well treating. T. J. Stewart. 2,320,673; June 1.
Fluorescent lamp. J. E. Gates. 2,320,424; June 1.
Flush tank operating apparatus. B. R. Crampton. 2,320,912; June 1.
Flush tank silencer. F. Bent. 2,320,906; June 1.
Foam retarding means and method. W. B. Leaf. 2,320,366; June 1.
Folding chair. C. B. Forsberg. 2,320,923; June 1.
Foods, Preserving. D. Bensel. 2,320,982; June 1.
Forming circuit. H. Waterman. 2,320,495; June 1.
Forming dams. C. E. Bennett and F. C. Meyer. 2,320,506; June 1.
Formoguanamines, Preparing. W. N. Oldham. 2,320,882; June 1.
Fountain marking device. J. I. Kingson. 2,320,823; June 1.
Fountain, Sanitary drinking. H. A. Mead. 2,320,530; June 1.
Fractionation of mixtures of fatty oils and free acids derived therefrom. J. D. Jenkins. 2,320,738; June 1.
Fuel burner. J. Dunn. 2,320,575; June 1.
Fuel combustion system and method, Economizing fluid. R. C. Jiménez. 2,320,821; June 1.
Fuel feed control device. K. H. Hammell. 2,320,457; June 1.
Funnel. H. D. Haley. 2,320,590; June 1.
Funnel, Spinning. H. D. Haley. 2,320,591; June 1.
Furnace: *See*—
Induction furnace.
Fuse. F. H. Denner. 2,320,351; June 1.
Game, Educational. M. J. Schoenberg and H. I. Maximon. 2,320,832; June 1.
Garment. R. Jansson. 2,320,605; June 1.
Garment hanger. M. Dalloz. 2,320,414; June 1.
Gas burner. A. G. Sherman. 2,320,754; June 1.
Gas mains, Plugging. D. J. Manning. 2,320,371; June 1.
Gauge: *See*—
Liquid level gauge.
Gauge. W. Y. Lang. 2,320,938; June 1.
Gear: *See*—
Draft and buffing gear.
Generator: *See*—
High-pressure steam generator. Polarized-field generator. Vapor generator.
Geochemical prospecting. T. H. Dunn. 2,320,577; June 1.
Geophysical prospecting. W. L. Russell. 2,320,890; June 1.
Geophysical prospecting. S. A. Scherbatskoy and R. E. Fearon. 2,320,892; June 1.
Glue machine. R. T. Bowling. 2,320,715; June 1.
Grader, Quality. E. C. Bauer. 2,320,335; June 1.
Grating attachment. W. C. Heath. 2,320,593; June 1.
Grease gun and fitting. W. T. Jennings and R. F. Clark. 2,320,780; June 1.
Grid, Kymograph. C. K. Gieringer and E. E. Greenberg. 2,320,587; June 1.
Grouting means and process. F. D. Sullivan. 2,320,954; June 1.
Guard, Kidney. G. C. Reynolds. 2,320,705; June 1.
Guard, Ribbon. R. G. Ratchford and A. W. Metzner. 2,320,394; June 1.
Gun rifling machine. A. Raiche. 2,320,750; June 1.
Gyroscope system. A. M. Fedde. 2,320,354; June 1.
Hacksaw. W. A. Curry. 2,320,511; June 1.
Handbag, Illuminated. J. Cohen. 2,320,409; June 1.
Hanger: *See*—
Garment hanger. Soap cake hanger.
Hat indicator. H. Rolnick. 2,320,472; June 1.
Hay harvesting machine. M. Neidhart. 2,320,642; June 1.
Head guard, Shaver. H. E. Upham. 2,320,807; June 1.
Heater for engine manifolds. B. Loeffler and J. S. Pelan. 2,320,528; June 1.
Heating system. C. G. Munters and M. Hedmark. 2,320,532; June 1.
Hectrograph blanket conditioning container. J. H. Tathwell. 2,320,835; June 1.
Heel, Shoe. D. Giesser. 2,320,584; June 1.
High-pressure steam generator. J. P. Badenhausen. 2,320,503; June 1.
Hinge. J. P. Doman. 2,320,772; June 1.
Hinge, Deck lid. J. H. Roethel. 2,320,752; June 1.
Hinge device. J. M. Luker. 2,320,370; June 1.
Holder: *See*—
Cigarette holder. Electrode holder.
Coupling holder. Work holder.
Hole digger, Tractor operated. C. M. Garner. 2,320,775; June 1.
Hook: *See*—
Grapple hook.
Hook, Grapple. C. W. Kandle. 2,320,611; June 1.
Hose and forming the same, Flexible. W. Leathers. 2,320,367; June 1.
Hose reel. B. F. Souther. 2,320,477; June 1.
Hydraulic speed control apparatus. K. R. Herman and J. Robinson. 2,320,727; June 1.
Hydraulic spooling device. E. R. Barrett. 2,320,554; June 1.
Hydraulic valve. C. Batehelts. 2,320,905; June 1.
Hydroaircraft. C. Dornier. 2,320,574; June 1.
Hydrocarbon materials, Treatment of predominantly saturated. M. P. Matuszak. 2,320,629; June 1.
Hydrocarbons, Alkylation of. F. H. Bruner and W. E. Skelton. 2,320,336; June 1.
Hydrometer. L. Edelmann. 2,320,417; June 1.
Ignition discharge tube system, Controlled. J. W. Dawson. 2,320,916; June 1.
Ignitor assembly for ignitron rectifier. H. C. Myers and J. H. Cox. 2,320,949; June 1.
Image producing apparatus. A. F. Surré. 2,320,760; June 1.
Implement, Fastener-applying. J. F. Cavanagh. 2,320,568; June 1.
Indicating instrument, Flight position and force. A. Z. Bendar. 2,320,505; June 1.
Indicator: *See*—
Hat indicator.
Vacuum cleaner electric indicator.
Indicator for motor cars, Direction. A. Koch. 2,320,615; June 1.
Induction furnace. J. R. Wyatt. 2,320,692; June 1.
Injection molding machine. E. Hempel. 2,320,594; June 1.
Inking device for printing apparatus. E. P. Drake and C. D. Ryan. 2,320,698; June 1.
Insulation and manufacture, Sound damping. H. B. Hutten. 2,320,737; June 1.
Insulation, High-voltage coil. J. G. Ford. 2,320,922; June 1.
Interlock system. G. L. Claybourn and L. E. Keck. 2,320,849.
Internal safety valve system. S. E. Carlson. 2,320,567; June 1.
Jacket, Convertible. R. E. Lee. 2,320,783; June 1.
Knitting machine. L. H. Mendelsohn. 2,320,634; June 1.
Lamp: *See*—
Fluorescent lamp. Portable lamp.
Piano lamp.
Last, Foot harmony. R. F. Lafferty. 2,320,732; June 1.
Laundry apparatus. H. Brotman. 2,320,713; June 1.

Laundry machinery. M. Troy. 2,320,488; June 1.
Laundry table. P. E. Whitcomb and O. T. McIlvaine. 2,320,961; June 1.
Lay-on apparatus and method. E. Ericksson. 2,320,352; June 1.
Light. W. P. Peterson. 2,320,446; June 1.
Lighter rod. H. C. Little. 2,320,825; June 1.
Lighting fixture. S. R. Naysmith. 2,320,829; June 1.
Liquid fuel or lubricant supply tank. T. W. Crowell. 2,320,913; June 1.
Liquid level gauge. H. E. Brelsford. 2,320,563; June 1.
Liquid level gauge. V. I. and L. G. Hooper. 2,320,731; June 1.
Liquid materials, Forming initially. U. E. Bowes. 2,320,341; June 1.
Liquors, Treatment of alcoholic. F. E. Stuart. 2,320,486; June 1.
Lithography, Color separation. J. Cunningham. 2,320,914; June 1.
Lock: *See*—
Thread lock.
Locking device, Threaded. R. W. Luce. 2,320,785; June 1.
Log cabin construction. W. C. Presley. 2,320,466; June 1.
Loose leaf binder. E. F. Buenger and W. Nelson. 2,320,404; June 1.
Loud-speaker. G. W. Blessing. 2,320,402; June 1.
Lubricant, Anti-ring-sticking. E. R. White. 2,320,392; June 1.
Lubricating composition. C. F. Prutton. 2,320,984; June 1.
Machine for coating absorbent surfaces. F. E. Drummond. 2,320,513; June 1.
Machine for cutting and folding tissue. H. Preston. 2,320,652; June 1.
Machine for grinding curved surfaces. A. A. Stein. 2,320,672; June 1.
Machine or bomb, Rapid firing. A. J. Guthrie. 2,320,926; June 1.
Machine tool. G. Gorton. 2,320,776; June 1.
Magazine loaded with different sorts of films. P. Frost. 2,320,722; June 1.
Magnet structures. Producing. A. J. McMaster. 2,320,632; June 1.
Manufacture of high test bleach. F. C. Mericola and H. F. Roderick. 2,320,635; June 1.
Match book. J. E. Knopp. 2,320,781; June 1.
Material for metals, Rust proofing. J. G. Ford. 2,320,921; June 1.
Material handling device. H. Sahlin. 2,320,659; June 1.
Means for positioning expansible collars on pipe or the like. B. H. Barnes and B. S. Minor. 2,320,553; June 1.
Measuring device. G. Zieher. 2,320,695; June 1.
Mechanical exhaust silencer. H. A. Smith. 2,320,668; June 1.
Mechanical finger gripping device. M. S. Dunkelberger. 2,320,967; June 1.
Mechanism for the propulsion of watercraft. R. J. L. Moineau. 2,320,640; June 1.
Mechanism for typewriters, Manifolding. J. W. Fader. 2,320,918; June 1.
Mercury contaminated surfaces, Treating. M. Randall. 2,320,468; June 1.
Mercury switch. C. W. Trautman. 2,320,682–3; June 1.
Metal, Coating. L. Simons. 2,320,801; June 1.
Metals and resulting product, Treating. C. Luckhaupt. 2,320,626; June 1.
Metals, Hardening. W. J. Doelker. 2,320,573; June 1.
Meter casing. H. D. Madden. 2,320,946; June 1.
Method and apparatus for manufacturing tubing. R. O. Brooks. 2,320,564; June 1.
Method and system for television communication. J. H. Homrighous. 2,320,699; June 1.
Method of and apparatus for molding fibrous pulp articles. S. F. Montague and L. D. Pierce. 2,320,789; June 1.
Method of and blank for making slide fasteners. A. E. Carlile. 2,320,566; June 1.
Method of and machine for assembling inflation valve parts. G. G. Allenbaugh and R. D. Bixler. 2,320,452; June 1.
Method of fabricating vacuum tubes. C. V. Litton. 2,320,941; June 1.
Mine sweeper. S. D. Redmond. 2,320,986; June 1.
Mining apparatus. E. Ramsay. 2,320,653; June 1.
Mining machine. A. F. Lehmann. 2,320,874; June 1.
Mirror, Vehicle passing. B. Bachkai. 2,320,904; June 1.
Mixer: *See*—
Beverage mixer.
Mixing and homogenizing apparatus. E. V. Rasmussen. 2,320,469; June 1.
Mold: *See*—
Centrifugal casting mold.
Mold charging apparatus. E. D. Boyle. 2,320,714; June 1.
Mold for manufacture of dipped articles. G. Forro. 2,320,583; June 1.
Molding compound. Coffee. H. S. Polin. 2,320,649; June 1.
Mop, Dusting and polishing. A. M. McCarthy. 2,320,372; June 1.
Motor: *See*—
Explosive turbine motor. Reversing capacitor motor.
Fluid operated motor.
Motor. J. C. Curtis. 2,320,571; June 1.
Motor control system. F. D. Snyder. 2,320,896; June 1.
Motor startng control. M. Liwschitz. 2,320,875; June 1.
Moving and counter mechanism, Film. L. W. Lessler. 2,320,441; June 1.
Multiple switch and the like. F. V. Flynt. 2,320,774; June 1.
Nozzle, Suction. A. E. Ross. 2,320,545; June 1.
Oar actuating apparatus. J. V. L. Sertin. 2,320,664; June 1.
Oils from wood and other plant materials, Manufacture of distillable. H. Hibbert and A. B. Cramer. 2,320,598; June 1.
Ophthalmic mounting and making same. H. R. Moulton. 2,320,375; June 1.
Oscillator, Relaxation. H. Bähring. 2,320,551; June 1.
Outlet box. C. E. Bedell. 2,320,400; June 1.
Outrigger operating means. J. Falcon. 2,320,919; June 1.
Package. D. D. Swift. 2,320,674; June 1.
Packaging machine. V. D. Popov. 2,320,650; June 1.
Packaging machine. E. M. Runquist and L. A. Ederer. 2,320,798; June 1.
Packing assembly. F. A. Gruetjen. 2,320,589; June 1.
Packing, Spring-filled. C. T. Ripley and W. M. Gibbs. 2,320,706; June 1.
Pad: *See*—
Recoil pad.
Paint inspection. C. F. Arnold and L. L. Kortkamp. 2,320,842; June 1.
Pan, Bed. M. A. Bolton. 2,320,845; June 1.
Panties, Baby. W. S. Jopson. 2,320,458; June 1.
Paper-coating apparatus. L. Parkinson. 2,320,883; June 1.
Paper cutter. M. C. Kabigting. 2,320,363; June 1.
Paper roll dispenser. A. G. Krueger. 2,320,740; June 1.
Paper sizing. P. B. Davidson. 2,320,771; June 1.
Partitioning means for partible bodies. C. J. Schneider. 2,320,386; June 1.
Pastry icing apparatus. J. MacManus. 2,320,529; June 1.
Pens, Manufacture of metal writing. S. E. Longmaid. 2,320,369; June 1.
Periodically operating electric switch. C. H. Rippl. 2,320,655; June 1.
Perspiration diverter, Forehead. T. H. Larsen. 2,320,782; June 1.
Phase measurement. H. J. Schrader and T. A. Smith. 2,320,476; June 1.
Phase modulation. L. R. Wrathall. 2,320,963; June 1.
Phonograph. C. W. Dann. 2,320,572; June 1.
Phonograph. R. H. Manson and A. E. Schell. 2,320,877; June 1.
Phonograph reproducing apparatus. O. T. McIlvaine. 2,320,879; June 1.
Phosphorus and arsenic compounds from vanadate solutions, Removing. K. Schneider. 2,320,661; June 1.
Photoelectric device for cigar machines. W. C. Broekhuysen. 2,320,346; June 1.
Photoelectric tube and circuit. A. McL. Nicolson. 2,320,977; June 1.
Photographic color images, Production of. A. Fröhlich. 2,320,422; June 1.
Photographic emulsions, Sensitization of. O. Riester. 2,320,654; June 1.
Photographic material, Duplex. E. C. Yanck and J. Dessauer. 2,320,693; June 1.
Photographic printing machine. W. P. Bates. 2,320,334; June 1.
Piano lamp. G. Cushing. 2,320,815; June 1.
Pickling and cleaning apparatus, Continuous strip. F. J. Wood. 2,320,499; June 1.
Pilot valve. W. C. Trautman. 2,320,763; June 1.
Pipe: *See*—
Tobacco pipe.
Piston. J. W. MacClatchie. 2,320,975; June 1.
Piston, Pump. J. W. MacClatchie. 2,320,973; June 1.
Plant, Accumulator. P. Gill. 2,320,586; June 1.
Plow, Suction disk. C. E. Newkirk. 2,320,742; June 1.
Plug: *See*—
Spark plug.
Plug assembly, Bridge. H. E. Nash. 2,320,880; June 1.
Pocket clip. E. C. Feig. 2,320,455; June 1.
Polarized-field generator. G. L. Abell. 2,320,841; June 1.
Polymerization of rosin and rosin esters. O. A. Pickett. 2,320,795; June 1.
Polysalicylide-modified aminoplast. G. F. D'Alelio. 2,320,817; June 1.
Porous masses, Drying of. D. W. Ross. 2,320,474; June 1.
Portable lamp. O. L. Ely. 2,320,917; June 1.
Positive synchronising coupling mechanism for power transmission. H. Sinclair and R. C. Clerk. 2,320,757; June 1.
Power transmission mechanism. H. Ernst and M. E. Martellotti. 2,320,353; June 1.
Power transmission mechanism, Rotary. H. Sinclair. 2,320,758; June 1.

Power transmission mechanism, Variable speed. K. G. Dethridge. 2,320,854; June 1.
Press: *See*—
Expressing press.
Press. R. Temple. 2,320,680; June 1.
Pressing machine. J. E. Erickson. 2,320,857; June 1.
Pressure control valve. C. R. Waseige. 2,320,686; June 1.
Pre-welt lasting machine. F. Dawson. 2,320,915; June 1.
Printing. J. J. Ormond. 2,320,744; June 1.
Printing and article produced thereby. R. T. K. Cornwell, C. M. Rosser and J. A. Yourtee. 2,320,510; June 1.
Printing device for weighing machines. A. Hahn. 2,320,592; June 1.
Printing plate clamp. P. L. Tollison and I. Tornberg. 2,320,762; June 1.
Propeller. J. Akins. 2,320,451; June 1.
Protective device. L. W. Cook. 2,320,811; June 1.
Pump: *See*—
Submersible electrically driven pump.
Push bottom device. W. Mahnken. 2,320,628; June 1.
Quaternary indole derivatives and their manufacture. C. Engel and K. Pfaehler. 2,320,580; June 1.
Quick-change device. V. Grey. 2,320,360; June 1.
Quick detachable coupling. G. Geraldson. 2,320,968; June 1.
Radio control, Remote automatic. R. H. Hill. 2,320,867; June 1.
Rail clamp. F. K. Holmested. 2,320,868; June 1.
Railroad car coupler. E. A. Larsson. 2,320,619; June 1.
Railway braking apparatus. C. S. Snavely. 2,320,802; June 1.
Railway signaling apparatus. G. R. Pfasterer. 2,320,748; June 1.
Razor, Safety. G. Monnet. 2,320,374; June 1.
Reaction products of aldehydes and bis-diamino triazinyl disulphides. G. F. D'Alelio and J. W. Underwood. 2,320,819; June 1.
Recoil pad. F. D. Hawkins. 2,320,430; June 1.
Recording and reproducing system, Signal. H. J. Hasbrouck, Jr. 2,320,429; June 1.
Reclining furniture. B. H. Block. 2,320,907; June 1.
Reducing valve. F. A. Quiroz. 2,320,886; June 1.
Reel: *See*—
Hose reel.
Refining apparatus. F. M. Smith. 2,320,755; June 1.
Reflector system for lighting units. W. A. Pennow. 2,320,884; June 1.
Refrigerating apparatus. C. F. Henney. 2,320,432; June 1.
Refrigerating apparatus. C. F. Henney. 2,320,596; June 1.
Refrigerating apparatus. H. B. Hull. 2,320,436; June 1.
Refrigeration. C. T. Ashby. 2,320,500; June 1.
Refrigeration. W. Cropper. 2,320,349; June 1.
Refrigeration, R. C. Osborn. 2,320,534; June 1.
Refrigeration. T. Schulltström. 2,320,502; June 1.
Refrigeration. J. A. Taylor. 2,320,501; June 1.
Regeneration apparatus. D. W. Bransky. 2,320,562; June 1.
Register, Air. J. Dunn. 2,320,576; June 1.
Regulator: *See*—
Window regulator.
Relaying system, Single-pole protective. S. L. Goldsborough. 2,320,861; June 1.
Remedy, Topical. G. Sperti. 2,320,479; June 1.
Removal of mercaptans from mercaptan-solvent mixtures. L. N. Leum. 2,320,939; June 1.
Removing ice cubes from freezing trays. W. S. Wright. 2,320,542; June 1.
Rerecording. B. Kreuzer. 2,320,524; June 1.
Respirator. H. S. Cover. 2,320,770; June 1.
Retort and hearth for stokers, Combination. T. C. Cheasley. 2,320,410; June 1.
Retractile wheel assembly. T. C. Campbell. 2,320,407; June 1.
Reversing capacitor motor. H. E. Ellis and W. C. Spear. 2,320,419; June 1.
Rheostat and switch, Combination. B. S. Turner and M. B. Arisman. 2,320,837; June 1.
Ring or sleeve for welding, Backup. C. E. Kent and O. M. Carlson. 2,320,700; June 1.
Ripper, Seam. H. A. Livingston and C. J. Cardona. 2,320,784; June 1.
Rivets or sockets, Making tubular. G. B. Goodman. 2,320,862; June 1.
Rod: *See*—
Lighter.
Rod catcher. C. M. O'Leary. 2,320,646; June 1.
Roller bearing. R. Lang. 2,320,618; June 1.
Roof shingling seat. W. B. Vogt. 2,320,538; June 1.
Rotary grain threshing machine. J. L. Betzen. 2,320,557; June 1.
Rubber compound. F. W. Corkery and S. G. Burroughs. 2,320,718; June 1.
Rubber product and making same. Le M. Wright. 2,320,691; June 1.
Saddle construction. R. W. Faulhaber. 2,320,421; June 1.
Safety valve. W. C. Buttner. 2,320,339; June 1.
Sanding belt machine. F. H. Morris. 2,320,638–9; June 1.
Sash operating mechanism. G. W. Cummings. 2,320,413; June 1.
Saw, Cross cut. N. Nilsen and T. R. Christofferson. 2,320,743; June 1.
Scarifier. H. C. La Rue. 2,320,365; June 1.
Scraper, Carrying. J. J. Low. 2,320,625; June 1.
Scupper valve. F. B. Hooper. 2,320,930; June 1.
Seal for antifriction bearings. T. C. Pew. 2,320,794; June 1.
Seat: *See*—
Roof shingling seat.
Seat cover package. J. C. Thomasma. 2,320,955; June 1.
Seat or bench structure for bowling alleys. A. L. Henkel and B. M. Ewing. 2,320,595; June 1.
Seat structure, Auxiliary. L. J. Belanger. 2,320,344; June 1.
Securing device for clocks. H. Junghans. 2,320,609; June 1.
Selective blocking arrangement for the keyboards of teleprinters having complete keyboards. G. Modigliani. 2,320,637; June 1.
Sensing mechanism. G. Tauschek. 2,320,836; June 1.
Sensitizers, Photographic. K. Kumetat, K. Bitterfeld, and O. Riester. 2,320,439; June 1.
Separating albumin from naturally and artificially prepared solutions, particularly blood. P. Voskresensky and M. Sheremet. 2,320,766; June 1.
Separating and feeding device, Blank. J. Brenzinger. 2,320,712; June 1.
Separator cylinder. H. Magimn. 2,320,944; June 1.
Separator device for milk bottles, Cream. A. Bramhall. 2,320,711; June 1.
Separator for refrigeration systems, Oil. A. E. Ramelow. 2,320,981; June 1.
Shade and means for adjusting same. Modernistic. J. De Falco. 2,320,852; June 1.
Shade roller bracket. R. F. Smart. 2,320,804; June 1.
Sheet material, Casting. J. H. Rooney, P. R. Hawtin, and D. C. Macpherson. 2,320,473; June 1.
Sheet material, Production of. P. R. Hawtin and C. Gardner. 2,320,431; June 1.
Shell-feeding device. W. S. Pilcher. 2,320,465; June 1.
Shock absorber arrangement, especially for motor vehicles. M. Balz and R. Kosche. 2,320,552; June 1.
Shock absorber with spring-plate valve. R. Binder. 2,320,697; June 1.
Shoe fitting device. E. J. Bliss. 2,320,768; June 1.
Shoe, Orthopedic. I. Sabel and L. S. Macdonald. 2,230,800; June 1.
Shoe tree. J. R. Uddenborg. 2,320,490; June 1.
Shoes and slippers, Making. D. J. Calderazzo. 2,320,406; June 1.
Shoes, Method used in the manufacture of. G. F. Ryan. 2,320,475; June 1.
Signal: *See*—
Vehicle signal.
Signaling system. W. T. Powell. 2,320,885; June 1.
Signalling system for railways and the like, Block. L. H. Peter and J. P. Coley. 2,329,793; June 1.
Signaling system, Telephone. H. W. Ulrich. 2,320,957; June 1.
Sleeve-valve internal-combustion engine. F. M. Owner and H. T. Underwood. 2,320,791; June 1.
Slide fastener manufacture. N. J. Poux. 2,320,651; June 1.
Snow plow assembly, Tractor driven. J. H. Shepard and N. Picard. 2,320,389; June 1.
Soap cake hanger. M. L. Jones. 2,320,608; June 1.
Socket for bayonet base lamp or the like. W. E. Lundell. 2,320,627; June 1.
Socket, Ultra-short wave tube. E. Löpp and E. Greifendorf. 2,320,623; June 1.
Sole-sewing machine. A. Ehresmann and L. Streibel. 2,320,578; June 1.
Solvent extraction of tung oil. A. C. Lansing. 2,320,970; June 1.
Solvent, Wood stain. H. G. Goodman, Jr. 2,320,426; June 1.
Spark plug. R. F. Landrum. 2,320,617; June 1.
Speculum. W. A. Arnesen. 2,320,709; June 1.
Speed control mechanism for cutoffs. H. C. Behrens. 2,320,710; June 1.
Spinning of solutions of cellulose derivatives. S. Petersen and P. Schlack. 2,320,704; June 1.
Stabilization. L. Kniel and A. H. Schutte. 2,320,616; June 1.
Stabilizer for controllers or regulators. F. D. Burns and W. B. Thorne. 2,320,508; June 1.
Stapling machine. R. H. Van Saun. 2,320,684; June 1.
Starter gearing. S. A. Staege. 2,320,897; June 1.
Staker. F. P. Roesch. 2,320,471; June 1.
Stoker and fuel distributing mechanism therefor. O. Moeller. 2,320,459; June 1.
Stop means for micrometer. calipers. G. A. Staib. 2,320,805; June 1.
Stop mechanism, and cabinet in combination with such stop mechanism. R. G. Birr. 2,320,453; June 1.
Structural tool. R. F. Smith. 2,320,805; June 1.
Stylus for reproducers. R. Dally. 2,320,416; June 1.
Styrene, Stabilization of. S. G. Foord. 2,310,859; June 1.

Styrene-unsaturated dicarboxylic acid resins. Treating. H. L. Gerhart and W. W. Bauer. 2,320,724; June 1.
Submersible electrically driven pump. L. Yost. 2,320,708; June 1.
Suction cleaner. R. S. Boyle. 2,320,507; June 1.
Sugar, Doughnut. J. W. Schlegel and L. Lang. 2,320,831; June 1.
Supporting float for aircraft. H. Hertel. 2,320,597; June 1.
Surface active agent and treating fibrous materials therewith. H. Robinette. 2,320,707; June 1.
Surgical appliance. S. T. Nevins. 2,320,736; June 1.
Switch: *See*—
Clock operated switch.
Mercury switch.
Periodically operating electric switch.
Thermally operated electric switch.
Switch. E. W. Logan. 2,320,942; June 1.
Switch cabinet. J. W. Samzelius. 2,320,952; June 1.
Switching mechanism. E. D. Mead and V. F. Miller. 2,320,734; June 1.
System, Radio beacon. F. G. Kear. 2,320,521; June 1.
System, Telephone. M. A. Logan. 2,320,943; June 1.
Table: *See*—
Laundry table.
Table top, Ironing. E. T. John. 2,320,607; June 1.
Taeniacide. O. J. Mayfield and J. P. Henry. 2,320,630; June 1.
Tag holder, Combined inventory and price. J. Pavlovic, Jr. 2,320,463; June 1.
Tank connection. J. W. Miller. 2,320,636; June 1.
Tannins, Synthetic. E. M. Tassel. 2,320,678; June 1.
Tappet, Self-adjusting. F. C. Rockstroh. 2,320,385; June 1.
Telegraphic tape transmitter. A. W. Mills and F. J. Furman. 2,320,788; June 1.
Telephone instrument. J. C. Watson. 2,320,838; June 1.
Telephone ringer. A. W. Vincent. 2,320,899; June 1.
Telephone station equipment. A. Herckmans. 2,320,726; June 1.
Telephone system. J. H. Voss. 2,320,548; June 1.
Telephone system. J. H. Voss and F. Kessler. 2,320,549;
Telephone transmitter. A. Herckmans. 2,320,433; June 1.
Television system and scanner therefor. F. Okolicsanyi and A. J. Gale. 2,320,780; June 1.
Terpene adhesive. F. W. Corkery and S. G. Burroughs. 2,320,716; June 1.
Terpene coatings. F. W. Corkery and S. G. Burroughs. 2,320,717; June 1.
Terpene condensation product. J. N. Borglin. 2,320,846; June 1.
Thermally operated electric switch. J. E. Sherlock and W. F. F. Martin-Hurst. 2,320,895; June 1.
Thermometer. J. L. Schwartz. 2,320,753; June 1.
Thermostat. P. R. Lee. 2,320,873; June 1.
Thread lock. M. Kessler. 2,320,936; June 1.
Thrust-bearing means. A. C. Hagg. 2,320,927; June 1.
Thyrite protective device. G. L. Usselman. 2,320,958; June 1.
Tie for concrete forms. W. H. Jenkins. 2,320,869; June 1.
Tire carrier for the cover of an automobile luggage compartment. O. W. Ehlers. 2,320,856; June 1.
Tire vulcanizing apparatus. I. N. Herman. 2,320,778; June 1.
Toaster. W. J. Russell. 2,320,951; June 1.
Tobacco pipe. E. M. Houx. 2,320,931; June 1.
Toilet preparation. G. Sperti. 2,320,478; June 1.
Tool: *See*—
Bolt rotating tool.
Earth boring tool.
Expanding tool.
Machine tool.
Structural tool.
Toy. A. A. Braddock. 2,320,560; June 1.
Traffic controlling apparatus, Railway. J. M. Pellikan. 2,320,792; June 1.
Trailer, Heavy duty. M. W. McCombs. 2,320,631; June 1.
Transformer protection. J. K. Hodnette. 2,320,929; June 1.
Transmission. H. S. Eberhard. 2,320,454; June 1.
Transmission control. E. O. Wheaton. 2,320,960; June 1.
Transmitter, Modulated. R. H. George. 2,320,518; June 1.
Transportation ticket or other paper. G. C. Wehmann, Jr. 2,320,687; June 1.
Travel limiting device. J. H. Michael and T. G. A. Sillers. 2,320,741; June 1.
Treating ferrophosphorus. G. L. Bridger. 2,320,342; June 1.
Truck, Industrial. R. C. Howell. 2,320,600–1; June 1.
Tube: *See*—
Cathode ray tube.
X-ray tube.
Tube socket, Acorn. W. S. Keith. 2,320,871; June 1.
Tuner, Automatic. B. A. Schwarz and L. Fichter. 2,320,893; June 1.
Typewriting machine. F. M. Carroll. 2,320,810; June 1.
Typewriting machine. J. Toggenburger. 2,320,487; June 1.
Umbrella, Field. H. L. Byars. 2,320,848; June 1.
Undergarment. E. C. Clark. 2,320,408; June 1.
Vacuum cleaner electric indicator. W. Leathers. 2,320,368; June 1.
Valve: *See*—
Booster valve.
Hydraulic valve.
Pilot valve.
Pressure control valve.
Reducing valve.
Safety valve.
Scupper valve.
Valve actuating mechanism, Locomotive. J. Kirchhof. 2,320,613; June 1.
Valve mechanism. E. Martin. 2,320,445; June 1.
Valved connector. W. W. Davies and G. A. Page. 2,320,719; June 1.
Valved coupling. A. G. Frazer-Nash. 2,320,456; June 1.
Vapor electric device. H. von Bertele. 2,320,685; June 1.
Vapor generator. E. G. Bailey. 2,320,343; June 1.
Vaporizer. J. B. Schmitt. 2,320,669; June 1.
Vat. T. Majonnier. 2,320,531; June 1.
Vehicle signal. H. J. Murray, Jr. 2,320,641; June 1.
Vending machine. D. Neidig. 2,320,378; June 1.
Vent for portable dishwashers. J. H. Reifenberg. 2,320,888; June 1.
Verifying machine. J. W. Bryce. 2,320,338; June 1.
Wall construction, Building. W. H. Willis. 2,320,690; June 1.
Washing machine. W. Wiest and E. Winkeler. 2,320,689; June 1.
Water sealing composition for oil wells. D. L. Mitchell and H. Marks. 2,320,633; June 1.
Wax composition. E. A. Nill. 2,320,644–5; June 1.
Web roll changing. O. C. Roesen. 2,320,656; June 1.
Web roll replacement. O. C. Roesen. 2,320,658; June 1.
Web roll splicing method and apparatus. O. C. Roesen. 2,320,657; June 1.
Welding of manganese bronze, Electric arc. C. E. Swift. 2,320,675; June 1.
Well casing attachment. D. Scaramucci. 2,320,670; June 1.
Well drilling bit. C. L. Allen. 2,320,550; June 1.
Well surveying method and apparatus. W. G. Green. 2,320,863; June 1.
Well surveys method and apparatus. J. Neufeld. 2,320,643; June 1.
Welt laying machine. P. J. Connors. 2,320,411; June 1.
Wheel rotating device for airplanes, Landing. R. L. Tiger. 2,320,547; June 1.
Window regulator. J. H. Roethel. 2,320,751; June 1.
Wiper arm for windshield cleaners. E. V. Schaal. 2,320,660; June 1.
Wiper, Gauge pole. R. H. Bright. 2,320,909; June 1.
Wire-stitching machine. A. H. Maynard. 2,320,703; June 1.
Wireless receiving set. J. A. van Lammeren and J. W. Alexander. 2,320,808; June 1.
Work holder. J. Jeslonowski. 2,320,606; June 1.
Work supporting fixture and method. R. G. Cudini. 2,320,814; June 1.
Wrapping machine. J. A. Heckman. 2,320,865; June 1.
X-ray tube. A. Bouwers. 2,320,559; June 1.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

JUNE 1, 1943

The applications listed below have been vested by the Alien Property Custodian, who has authorized their publication. Printed copies of these applications as filed may be obtained from the Commissioner of Patents, Washington, D. C., for ten cents each. In ordering copies of these applications they must be ordered by serial number, the serial number to be preceded by the letters "A.P.C.".

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CLASS 2

A.P.C. 337,084. Limb guard. Virgilio Giardini, Milano, Italy. Published June 1, 1943.

CLASS 9

A.P.C. 335,629. Ships' davits of the gravity type. Ane P. Schat, Utrecht, Netherlands. Published June 1, 1943.

CLASS 10

A.P.C. 402,042. Device for cutting threads sidewise with automatically withdrawing tool. Francesco Malagrino, Torino, Italy. Published June 1, 1943.

CLASS 13

A.P.C. 213,267. High frequency electric furnace for the production of oxides of nitrogen. Gaston Lefort Des Ylouses, Paris, France. Published June 1, 1943.

A.P.C. 412,885. Low-frequency induction furnaces for fusing iron alloys. Fritz Walter, Berlin-Friedenau, Germany. Published June 1, 1943.

A.P.C. 438,410. Method and furnace for electrically melting glass. Francois Dumarest, Lyon, France. Published June 1, 1943.

CLASS 18

A.P.C. 314,347. Process and device for the manufacture of moulded objects of a cellular, rubber-like substance having closed, gas-tight cells filled with gas, particularly of cellular ebonite. Marie Charles Leon Ricard, Paris, France. Published June 1, 1943.

A.P.C. 384,011. Combs. Lucien Mazzoni, Lyon, France. Published June 1, 1943.

A.P.C. 408,346. Shaped bodies and process of preparing the same. Adolf Menger et al., Krefeld-Uerdingen, Germany. Published June 1, 1943.

CLASS 20

A.P.C. 428,980. Building framework. Jacques Couelle, Marseilles, France. Published June 1, 1943.

A.P.C. 450,223. Board-joining process by osmotic plugs, more especially utilized in light-timber frame-work. Jacques Couelle, Marseilles, France. Published June 1, 1943.

A.P.C. 450,224. Process of rapid establishment of light construction by combination of standard panels with supporting frameworks. Jacques Couelle, Marseilles, France. Published June 1, 1943.

CLASS 22

A.P.C. 127,067. Metal casting apparatus. Karl Friedrich Wagner, Friedrichshafen (Bodensee), Germany. Published June 1, 1943.

A.P.C. 308,716. Process for the uninterrupted casting of articles. Herbert Ruppik, Dusseldorf, Germany. Published June 1, 1943.

A.P.C. 334,087. Carbon brake body and metal holder unit. Ottmar Conradty, Rothenbach-on-the-Pegnitz, Germany. Published June 1, 1943.

A.P.C. 334,093. Contact device. Friedrich Leuchs, Nurnberg, Germany. Published June 1, 1943.

A.P.C. 393,919½. Method for the production of compound cast bearing brasses by means of the plunging casting process. Bernward Garre, Wiesbaden/Biebrich, Germany. Published June 1, 1943.

A.P.C. 414,207. Method of applying bush metal to bushes. Ernst Meier, Senior, Braunschweig, Germany. Published June 1, 1943.

A.P.C. 426,244. Molds and in particular to foundry cores and to their manufacture. Georges Passelecq et al., Paris, France. Published June 1, 1943.

A.P.C. 453,655. Centrifugal castings. Pierre Boissou, Pamiers, Ariege, France. Published June 1, 1943.

CLASS 23

A.P.C. 214,146. Process for the manufacture of sulphur trioxide. Joseph Cathala, Toulouse, France. Published June 1, 1943.

A.P.C. 255,849. Method and means for removing oils and other extracts. Heinrich Suss, Berlin-Tegel, Germany. Published June 1, 1943.

A.P.C. 310,182. Process for extracting magnesia from water containing convertible magnesium salts, such as sea-water, etc. Jean Charles Seailles, Paris, France. Published June 1, 1943.

A.P.C. 324,626. Process for the production of alkaline azides. Josef Meissner, Koln-Bayenthal, Germany. Published June 1, 1943.

A.P.C. 328,165. Manufacture of base exchange material and the like. Harald Nielsen, Lillerod, Denmark. Published June 1, 1943.

A.P.C. 333,775. Purification of sulphur dioxide gases. Josef Bayer, Ludwigshafen-on-Rhine, Germany. Published June 1, 1943.

A.P.C. 414,040. Crystallizers. Isak Isaachsen, Oslo, Norway. Published June 1, 1943.

A.P.C. 434,440. Catalysis process with continuous regeneration of the catalyser. Paul Woog, Paris, France. Published June 1, 1943.

A.P.C. 434,621. Process for the conversion of water-insoluble potassium salts of high-polymeric metaphosphoric acids into a water-soluble state. Hermann Rudy et al., Mannheim, Germany. Published June 1, 1943.

A.P.C. 434,623. Process for the production of nitrogen-phosphoric acid compounds. Rudolf Watzel, Mannheim, Germany. Published June 1, 1943.

A.P.C. 456,950. Electrothermic gas producer. Paul Louis Joseph Miguet et al., Saint-Julien-de-Maurienne, France. Published June 1, 1943.

CLASS 24

A.P.C. 359,454. Hold-fast appliances for holding various layers of thick materials together. Thea Stumpf, Francfort-on-Main, Germany. Published June 1, 1943.

A.P.C. 447,499. Fastening devices. Fritz von Opel, Miami, Fla. Published June 1, 1943.

CLASS 29

A.P.C. 394,370. Producing thread. Ernst Lickteig et al., Neuss-on-the-Rhine, Germany. Published June 1, 1943.

A.P.C. 407,518. Cutter head for milling machines. Karl Jansen, Mannheim, Germany. Published June 1, 1943.

CLASS 30

A.P.C. 261,386. Shaving apparatus. Salustiano Loinaz, Biarritz, France. Published June 1, 1943.

A.P.C. 375,075. One-piece safety razors. Giuseppe Lenta, Beausoleil, France. Published June 1, 1943.

CLASS 33

A.P.C. 395,500. Internal and external gauge for regulable measuring and with micrometric adjustment. Ugo Weiss et al., Milan, Italy. Published June 1, 1943.

A.P.C. 422,760. Means for determining the angular acceleration of aircraft. Kurt Schulze, Dallgow-Doberitz, Germany. Published June 1, 1943.

CLASS 35

A.P.C. 322,289. Method of and means for instructing and training student operators. Wsevolode Grunberg. Paris, France. Published June 1, 1943.

CLASS 36

A.P.C. 465,944. Wooden soles for shoes. Raoul Marcel Laurent Issaly, La Tronche, France. Published June 1, 1943.

CLASS 41

A.P.C. 336,461. Method of making sign-panels. Vaclav Vurbs, Krhova-Hradky, Bohemia-Moravia. Published June 1, 1943.

A.P.C. 413,906. Stencil sheets. Shinjiro Horii, Kanda-ku, Tokyo, Japan. Published June 1, 1943.

CLASS 42

A.P.C. 382,429. Breech device for firearms. Josef Koucky, Prag. Bohemia. Published June 1, 1943.

CLASS 44

A.P.C. 335,398. Products and preparations for thickening hydrocarbons, particularly gasoline. Eduard Orno-Ornfeldt, Berlin-Charlottenburg, Germany. Published June 1, 1943.

A.P.C. 382,100. Agglomerated bodies of carbonaceous material and processes for making the same. Georges Passelecq et al., Paris, France. Published June 1, 1943.

A.P.C. 438,045. Fuel for motor vehicles. Jean Leon Maurice Frejacques, Paris, France. Published June 1, 1943.

CLASS 45

A.P.C. 263,038. Apparatus for storing and conveying card indexes or other suitable articles in containers, or the like. Otto Alfred Becker, Saarbrucken, Germany. Published June 1, 1943.

A.P.C. 421,166. Reading stands. Chain Ki Ku, Kowloon. Hong Kong, China. Published June 1, 1943.

CLASS 48

A.P.C. 434,667. Device for supplying a gaseous mixture to an internal combustion engine. Jean Poinsignon, Clermont-Ferrand, France. Published June 1, 1943.

A.P.C. 436,281. Method and apparatus for decomposing water. Jacques Couelle et al., Marseilles, France. Published June 1, 1943.

A.P.C. 459,344. Method and device for filtering and purifying the gases of gas producers. Arnold Schroter, Villefranche-sur-Saone (Rhone), France. Published June 1, 1943.

CLASS 49

A.P.C. 381,303. Methods of manufacturing electron tubes. Franz Lohmann, Hamburg, Germany. Published June 1, 1943.

A.P.C. 401,909. Methods of manufacturing sponge glass articles and the like. Bernard Long, Paris, France. Published June 1, 1943.

A.P.C. 405,411. Methods of tempering glass objects, particularly plate glass. Jean Louis Schrader, Lyon, France. Published June 1, 1943.

A.P.C. 430,707. Production of flat glass. Georg Hainke, Sandberg B./Waldenburg, Germany. Published June 1, 1943.

CLASS 51

A.P.C. 395,384. Combined machine for surface grinding and polishing glass and other materials. David Bezborodko et al., Nice, France. Published June 1, 1943.

CLASS 60

A.P.C. 326,816. Heat transfer, process and device. Luidi D'Amelio, Naples, Italy. Published June 1, 1943.

A.P.C. 398,686. Hydraulic torque converters. Richard Lang et al., Ravensburg, Germany. Published June 1, 1943.

A.P.C. 428,305. Devices for starting gas turbine motor plants. Louis Armand Hermitte, La Coruneuve, France. Published June 1, 1943.

A.P.C. 428,655. Condensing spent steam. Laszlo Heller, Budapest, Hungary. Published June 1, 1943.

A.P.C. 459,260. Fluid operated power transmitter. Wincenty Jastrzebski, Aix-les-Bains, France. Published June 1, 1943.

CLASS 61

A.P.C. 408,902. Canal locks of dry-docks and other basins. Jean Lipsky, Uzerche, France. Published June 1, 1943.

CLASS 64

A.P.C. 415,056. Device for clamping a member to a shaft. Marius Piot, Roanne, France. Published June 1, 1943.

CLASS 66

A.P.C. 459,324. Hand knitting needle. Henriette Fosse et al., Avignon, France. Published June 1, 1943.

CLASS 71

A.P.C. 157,223. Soil improvers. Nikolaas Hendrik Siewertsz Van Reesema, Delft, Netherlands. Published June 1, 1943.

CLASS 74

A.P.C. 177,226. Oscillation damping means. François Marie Michel Bernard Salomon, Paris, France. Published June 1, 1943.

A.P.C. 292,126. Change speed gear. Mario de Falco, Rome, Italy. Published June 1, 1943.

A.P.C. 328,935. Gyroscopic devices. Benno Rybka, Berlin-Lankwitz, Germany. Published June 1, 1943.

A.P.C. 362,426. Steering column arrangements for airplanes. Johann Haseloff et al., Dessau, Germany. Published June 1, 1943.

A.P.C. 366,845. Pendulously mounted counterweights as vibration eliminators. Otto Specht, Berlin-Spandau, Germany. Published June 1, 1943.

A.P.C. 372,870. Counterweight arrangement on crank drives. Albert Eberhard, Stuttgart-Wangen, Germany. Published June 1, 1943.

A.P.C. 373,534. Devices for suppressing torsional oscillations. Kurt Rothe et al., Stuttgart-Bad-Cannstatt, Germany. Published June 1, 1943.

A.P.C. 392,246. Gyroscopes. Adolf Bach, Berlin-Spandau, Germany. Published June 1, 1943.

A.P.C. 440,865. Deadcentreless crank gears. Georges Marquet, Lyon, France. Published June 1, 1943.

A.P.C. 451,094. Change speed mechanism. Paul Garnier, Lyon, France. Published June 1, 1943.

A.P.C. 453,705. Chain transmission more particularly for cycles. Gaston Lapeyre, Tarbes, Hautes-Pyrenees, France. Published June 1, 1943.

A.P.C. 455,908. Vibrations dampers. Raoul Roland and Raymond Sarazin, Lyon, France. Published June 1, 1943.

A.P.C. 465,945. Change speed devices by means of a wheel of variable diameter. Emile Henri Aubert, Romette, France. Published June 1, 1943.

CLASS 75

A.P.C. 124,858. Heat resisting alloys. Werner Hessenbruch, Hanau-on-the-Main, Germany. Published June 1, 1943.

A.P.C. 279,960. A process for the production of pure iron or iron alloys. Vincenzo Arata, Rome, Italy. Published June 1, 1943.

A.P.C. 355,846. Manufacture of low-carbon ferro-alloys. Rene Perrin, Paris, France. Published June 1, 1943.

A.P.C. 369,748. Magnesium base alloys. Franz Sauerwald et al., Breslau, Germany. Published June 1, 1943.

A.P.C. 384,127. Process and oven for the production of metallic magnesium. Luigi Amati, Padova, Italy. Published June 1, 1943.

A.P.C. 391,000. Process and a device for producing iron or iron alloys. Fritz Eulenstein et al., Koln A/Rhein, Germany. Published June 1, 1943.

A.P.C. 402,276. Method of directly producing pig iron and steel. Julius Lohse, Berlin-Wilmersdorf, Germany. Published June 1, 1943.

A.P.C. 416,756. Cast-irons and their manufacture. Leonce Reygagne, Decazeville, France. Published June 1, 1943.

CLASS 76

A.P.C. 406,948. Method of producing tools. Friedrich Wenzel, Berlin-Siemensstadt, Germany. Published June 1, 1943.

CLASS 78

A.P.C. 376,385. Riveting apparatus. Hubert Mortl, Regensburg, Germany. Published June 1, 1943.

CLASS 80

A.P.C. 367,509. Device for making screw threads. Albert Schutte, Dessau, Anhalt, Germany. Published June 1, 1943.

CLASS 83

A.P.C. 451,014. Method of obtaining perfectly conservable integral meal. Voldemar Borsakovsky, Saint-Julien par Sennecey le Grand (Saone-et-Loire), France. Published June 1, 1943.

CLASS 84

A.P.C. 301,264. High note producing system in saxophones. Venanzio Incagnoli, Ceprano, Forsinone, Italy. Published June 1, 1943.

CLASS 85

A.P.C. 299,160. Dowels. Johannes Stiegelmeyer, Hannover-Wulfel, Germany. Published June 1, 1943.

CLASS 86

A.P.C. 196,790. Devices for filling and emptying-cartridge belts. Vaclav Holek et al., Brno-Zabovresky, Czechoslovakia. Published June 1, 1943.

CLASS 88

A.P.C. 289,326. Multiple divergence reflecting devices. Andre Garbarini, Courbevoie, France. Published June 1, 1943.

A.P.C. 294,277. Micro-photometer. Gerhard Hansen, Jena, Germany. Published June 1, 1943.

A.P.C. 342,708. Polarising filter and method of making the same. Otto Vierling et al., Dresden, Germany. Published June 1, 1943.

A.P.C. 395,408. Refractometer for turbid liquids and pulpous substances. Gerhard Hansen, Jena, Germany. Published June 1, 1943.

A.P.C. 400,876. Method for measuring the roughness of the metallic surface. Einosuke Fukusima, Suginami-ku, Tokyo, Japan. Published June 1, 1943.

A.P.C. 422,173. Processes of filming, taking and photography and kinematographic projections rendering possible to obtain on an ordinary screen pictures in relief and natural colors. Pierre Osorio, Nice, France. Published June 1, 1943.

A.P.C. 440,418. Apparatus for copying documents and the like. Rene Alphonse Higonnet et al., Lyon, France. Published June 1, 1943.

CLASS 89

A.P.C. 273,401. Guns and firearms. Albert Alexandre Augustin Darche, Bondy, France. Published June 1, 1943.

A.P.C. 335,122. Aeroplane provided with a firing turret mounted on a universal joint. Pierre Henry Edmond Dufaur De Gavardie, Paris, France. Published June 1, 1943.

CLASS 91

A.P.C. 367,288. Device for metallising. Walter Dorn et al., Vaihingen-Rohr, Germany. Published June 1, 1943.

CLASS 92

A.P.C. 217,628. Apparatus for purifying paper pulp. Andre Berges, Lorp Par St. Lizier (Arriege), France. Published June 1, 1943.

A.P.C. 312,989. Device for the distribution of stock on the wire part of a papermaking machine. Kirsten Andreas Thorsen, Grenoble (Isere), France. Published June 1, 1943.

A.P.C. 332,711. Circulation systems of pulp digesters. Ivan Penry Troedsson, Tokyo, Japan. Published June 1, 1943.

A.P.C. 434,616. Process for the prevention of resinous precipitations in paper-making. Anton Volz, Ludwigshafen-on-the-Rhine, Germany. Published June 1, 1943.

CLASS 93

A.P.C. 322,198. Device for enveloping and sealing flat articles, for example letters. August Reiner et al., Dresden, Germany. Published June 1, 1943.

CLASS 95

A.P.C. 407,802. Paper films conveyor. Ernst Zollinger, Turin, Italy. Published June 1, 1943.
A.P.C. 407,803. Supplying water to photographic machines. Ernst Zollinger, Turin, Italy. Published June 1, 1943.

CLASS 98

A.P.C. 242,526. Vehicle body construction. Erwin Komenda, Stuttgart-Korntal, Germany. Published June 1, 1943.

CLASS 99

A.P.C. 262,567. Process of artificial digestion of albuminoid and fatty substances. Maurice Percheron, Paris, France. Published June 1, 1943.
A.P.C. 285,437. Process for the manufacture of an improving agent for the baking quality of flour. Pieter Reinier Antonius Maltha, Rotterdam, Netherlands. Published June 1, 1943.

CLASS 100

A.P.C. 463,696. Hydraulic presses. Marius Adrien Monier, Grillon, by Valreas, France. Published June 1, 1943.

CLASS 101

A.P.C. 312,962. Printing machine with rotatable stencils and automatic ink supply. Robert Koreska, Vienna, Germany. Published June 1, 1943.
A.P.C. 383,059. Copying sound events taken in amplitude records. Gustav Fries, Berlin-Charlottenburg, Germany. Published June 1, 1943.

CLASS 102

A.P.C. 286,279. Illuminating shells. Jean Wauters, Bruxelles, Belgium. Published June 1, 1943.
A.P.C. 346,638. Percussion cap safety device for percussion fuses. Cesare del Prato, Naples, Italy. Published June 1, 1943.
A.P.C. 403,648. Cartridges. Marcel Schlumberger, St. Gauden, Haute Garonne, France. Published June 1, 1943.

CLASS 103

A.P.C. 335,386. Pumps. Jean Mercier, Neuilly-sur-Seine, France. Published June 1, 1943.
A.P.C. 356,818. Regulating device, specially for fuel injection pumps of internal combustion engines. Heinz Links et al., Gaggenau/Baden, Germany. Published June 1, 1943.

CLASS 106

A.P.C. 270,158. Highly refractory masses. Karl Dietz et al., Cronberg (Taunus), Germany. Published June 1, 1943.
A.P.C. 275,566. Opacifying agents mainly comprising zirconia and process for preparing same. Maxime Paquet et al., St-Maure-des-Fosses, France. Published June 1, 1943.
A.P.C. 325,908. Gas-concrete mass and method for its production. Erik Huttemann, Niederlehme/Mark, Germany. Published June 1, 1943.
A.P.C. 335,627. Manufacture of enamels. Maxime Paquet, Saint-Maur-des-Fosses, France. Published June 1, 1943.
A.P.C. 426,245. Manufacture of molded products. Georges Passelecq et al., Paris, France. Published June 1, 1943.
A.P.C. 449,538. Process for the preparation of agglomerates. Georges Levy, Avignon, France. Published June 1, 1943.

CLASS 113

A.P.C. 435,234. Method and machine for constricting a tube by means of a revolving die. Oreste Flavio Alfred Biginelli, Clermont-Ferrand, France. Published June 1, 1943.

CLASS 114

A.P.C. 361,134. Escape boat from submarines. Jean Jacques Bessire, Imperia, Italy. Published June 1, 1943.

CLASS 115

A.P.C. 346,649. Nautical device with circular floats rotating and running upon the surface of the water. Aldo Croff, Milan, Italy. Published June 1, 1943.

CLASS 116

A.P.C. 285,810. Indicating counter. Erich Nothe et al., Berlin-Spandau, Germany. Published June 1, 1943.

CLASS 117

A.P.C. 326,969. Lacquers and a process of applying same. Guido Schultze, Mannheim, Germany. Published June 1, 1943.
A.P.C. 333,186. Method for producing layers on solid objects. Walter Geffcken et al., Jena, Germany. Published June 1, 1943.
A.P.C. 367,262. Process of preparing lustrous coatings and the materials thus produced. Walter Pense et al., Frankfurt-am-Main, Germany. Published June 1, 1943.

CLASS 121

A.P.C. 390,239½. Welded crank case, especially for multi-cylinder piston engines, the cylinders being arranged in a row. William Werner, Chemnitz, Germany. Published June 1, 1943.
A.P.C. 390,240½. Welded crank case. William Werner, Chemnitz, Germany. Published June 1, 1943.

CLASS 123

A.P.C. 167,568. Engine starting apparatus. Reinhold Freitag et al., Stuttgart-Unterturkheim, Germany. Published June 1, 1943.
A.P.C. 235,881. Regulation of the combustible mixture for internal combustion engines. Prosper L'Orange, Stuttgart, Germany. Published June 1, 1943.
A.P.C. 283,096. Apparatus for controlling the fuel supply of internal combustion engines. Max Hurst et al., Stuttgart, Germany. Published June 1, 1943.
A.P.C. 322,387. Ignition device for internal combustion engines. Franz Dausinger, Stuttgart, Germany. Published June 1, 1943.
A.P.C. 383,029. Starting device for internal combustion engines. Albert Callsen, Stuttgart, Germany. Published June 1, 1943.
A.PP.C. 414,028. Explosion and internal combustion engines. Henri Leopold Javal, Vichy, France. Published June 1, 1943.
A.P.C. 419,783. Two-stroke engine. Emile Claveau, Paris, France. Published June 1, 1943.
A.P.C. 436,355. Explosion or combustion engines. Claude Etienne Bonnier, Neuilly-sur-Seine, France. Published June 1, 1943.

CLASS 126

A.P.C. 415,888. Rural stove. Marius Carol, Nay (Basses-Pyrenees), France. Published June 1, 1943.

CLASS 127

A.P.C. 420,819. Processing of wood sugar solution. Heinrich Scholler, Munchen, Germany. Published June 1, 1943.

CLASS 130

A.P.C. 358,094. Utilising mais cane and sorghum cane. Adolfo Zajotti et al., Venice, Carpenedo, Italy. Published June 1, 1943.

CLASS 137

A.P.C. 397,994. Plant for the remote control of a gate-valve by means of a fluid under pressure. Emile Piquerez, Saint-Cloud, France. Published June 1, 1943.

CLASS 148

A.P.C. 322,034. Magnesium base alloys. Adolf Beck et al., Bitterfeld, Germany. Published June 1, 1943.
A.P.C. 369,617. Method for the production of corrosion-proof and heat-proof chromium coatings. Gottfried Becker et al., Buderich, near Neuss, Germany. Published June 1, 1943.
A.P.C. 414,206. Process of manufacturing composite metal bodies. Ernst Meier, Sr., Braunschweig, Germany. Published June 1, 1943.
A.P.C. 416,914. Process of rustproofing metals and objects with a metallic surface. Aegidius Lankhorst, Nijmegen, Holland. Published June 1, 1943.

CLASS 149

A.P.C. 402,440. Product applicable for tanning purposes and method for making the same. Charles Coutor, Premery, France. Published June 1, 1943.

CLASS 151

A.P.C. 406,374. Locking device for screwed pipe joints. Ernst Rudiger, Berlin, Germany. Published June 1, 1943.

CLASS 154

A.P.C. 446,074. Method of making fur-like articles. Emmanuel Prosper Marie Bechetoille, Lyon, France. Published June 1, 1943.

CLASS 158

A.P.C. 258,837. Safety ignition devices for gas burners. Georg Hegwein, Dessau, Germany. Published June 1, 1943.
A.P.C. 405,598. Device for retaining a reserve supply of fuel in fuel-tanks, particularly of motor-cars. Werner Strobel, Munich, Germany. Published June 1, 1943.
A.P.C. 411,177. Reserve supply system for motor vehicles. Otto Michelmann, Eisenach, Germany. Published June 1, 1943.
A.P.C. 411,178. Fuel tank with emergency supply for motor-cars and the like. Fritz Fiedler, Munich, Germany. Published June 1, 1943.

CLASS 164

A.P.C. 403,649. Switching mechanism for bore hole apparatus. Marcel Schlumberger, St. Gaudens, Haute Garonne, France. Published June 1, 1943.
A.P.C. 403,650. Well casing perforator. Marcel Schlumberger, St. Gaudens, Haute Garonne, France. Published June 1, 1943.

CLASS 166

A.P.C. 405,024. Well conditioning apparatus. Marcel Schlumberger, St. Gaudens, Haute Garonne, France. Published June 1, 1943.

CLASS 167

A.P.C. 319,965. Preparation containing B-vitamins and process for the manufacture of same. Alf Olsen, Stavanger, Norway. Published June 1, 1943.
A.P.C. 393,301. Composition and method for controlling noxious organisms. Marius Fritz Henri Betting, Haarlem, Netherlands. Published June 1, 1943.
A.P.C. 738,375. Local anaesthetics. Jean Regnier, Paris, France. Published June 1, 1943.

CLASS 169

A.P.C. 213,902. Fire-extinguishing and preventing system for motor vehicles. Wilhelm Kochmann, Berlin, Germany. Published June 1, 1943.

CLASS 170

A.P.C. 303,182. Swivelling screw propellers. William Arthur Loth et al., Paris, France. Published June 1, 1943.
A.P.C. 329,155. Mechanism for transmitting motion. Camille Duchaussoy, Charenton, France. Published June 1, 1943.
A.P.C. 425,692. Air-screw propeller mountings. Paul Charles Albert Marie D'Aubarede, Saint-Genis-Laval, France. Published June 1, 1943.
A.P.C. 450,935. Polyengine bipropeller group for aerodynes. Charles Raymond Waseige, Saint-Etienne, Loire, France. Published June 1, 1943.

CLASS 171

A.P.C. 273,332. Electromagnetic control device. Hans Munz, Korntal, near Stuttgart, Germany. Published June 1, 1943.
A.P.C. 384,096. Mounting for piezo-electric crystals. Felix Lehmann, Berlin, Germany. Published June 1, 1943.

CLASS 172

A.P.C. 436,356. Series-parallel & parallel connections for direct current motors with split up exciting winding. Paul Marie Jacques Severin de Giacomoni, Paris, France. Published June 1, 1943.
A.P.C. 462,134. Electric motors the speed of which is regularized by a tuning-fork. Raymond Joseph Jasse, Vichy, France. Published June 1, 1943.

CLASS 173

A.P.C. 412,527. Electric circuits of the kind of the armoured ignition circuits for engines. Jeremi Malczewski, Lyon, France. Published June 1, 1943.

CLASS 174

A.P.C. 412,525. Electric circuits. Jeremi Malczewski, Lyon, France. Published June 1, 1943.
A.P.C. 438,395. Composite electric conductor. Pierre Fustier, Lyon, France. Published June 1, 1943.

CLASS 175

A.P.C. 419,545. Apparatus for detecting underground lying metallic objects. Henri Chireix, Paris, France. Published June 1, 1943.

CLASS 179

A.P.C. 375,915. Dynamic microphone. Helmut Batsch, Berlin, Germany. Published June 1, 1943.

CLASS 184

A.P.C. 207,115. Mounting of accessories on an aircraft. Charles Raymond Waseige, Rueil, France. Published June 1, 1943.

CLASS 197

A.P.C. 367,134. Device for automatically inserting and adjusting sheets of paper in typing or printing machines. Werner Kniehahn et al., Chemnitz, Germany. Published June 1, 1943.

CLASS 200

A.P.C. 388,753. Device for interrupting overloads. Fritz Kesselring, Berlin-Frohnau, Germany. Published June 1, 1943.

CLASS 204

A.P.C. 238,976. Coating of objects of magnesium or the like with oxides. Ernst Krause et al., Leipzig, Germany. Published June 1, 1943.

A.P.C. 338,261. Method of developing photographic metal salt layers. Johannes Rzymokowski, Jena, Germany. Published June 1, 1943.

CLASS 206

A.P.C. 343,141. Cases for sound films. Karl Daniel, Koln-Sulz, Germany. Published June 1, 1943.

CLASS 219

A.P.C. 344,220. Method and apparatus for electric resistance welding of tubes. David Sciaky, Paris, France. Published June 1, 1943.
A.P.C. 378,076. Device for electric resistance welding. Gerhard Hagedorn, Berlin-Lichterfelde-West, Germany. Published June 1, 1943.
A.P.C. 378,465. A device for electric resistance welding. Gerhard Hagedorn, Berlin-Lichterfelde-West, Germany. Published June 1, 1943.
A.P.C. 387,342. Arrangement for the high-frequent heating of band-shaped metal, especially for the production brasses. Herbert Jan Oskar Gumprecht, Wiesbaden, Germany. Published June 1, 1943.

CLASS 235

A.P.C. 347,464. Bookkeeping machines or the like. Hans Moller et al., Bielefeld, Germany. Published June 1, 1943.
A.P.C. 352,972. Multiple counter calculating and registering machines. Hugo Cordt, Berlin-Schoneberg, Germany. Published June 1, 1943.
A.P.C. 383,890. Adding machine. Karl Berthold Wilhelm Kiel, Glashutte, Germany. Published June 1, 1943.

CLASS 236

A.P.C. 251,226. Air conditioning systems. Aldo Gini, Milan, Italy. Published June 1, 1943.

CLASS 240

A.P.C. 371,891. Vehicle lamps. Friedrich Richard Dietrich, Munich, Germany. Published June 1, 1943.
A.P.C. 397,213. Light-source in connection with a filter. Walter Geffcken, Jena, Germany. Published June 1, 1943.

CLASS 242

A.P.C. 381,944. Cross winding frame. Wilhelm Reiners et al., Munchen-Gladbach, Germany. Published June 1, 1943.
A.P.C. 383,286. Yarn guide. Walter Reiners et al., Munchen-Gladbach, Germany. Published June 1, 1943.

CLASS 244

A.P.C. 273,879. Girders for aircraft structure. Kurt Cyron et al., Dessau, Germany. Published June 1, 1943.
A.P.C. 319,988. Control limitating devices on aircraft. Roger Leger Marie Fernand Rouanet et al., Paris, France. Published June 1, 1943.

CLASS 250

A.P.C. 322,193. Devices for regulating radio sets and the like. Leon Ladislas de Kramolin, Berlin-Kladow, Germany. Published June 1, 1943.
A.P.C. 359,573. Electron tube grid. Max Vantler, Berlin, Germany. Published June 1, 1943.

CLASS 251

A.P.C. 381,815. High pressure closing devices. Karl Werner, Kiel-Wik, Germany. Published June 1, 1943.

CLASS 252

A.P.C. 251,812. Light metal fire extinguishing. Arthur Schubert et al., Schonebeck-Elbe, Germany. Published June 1, 1943.
A.P.C. 323,475. Soaps. Georges Croulard, Paris, France. Published June 1, 1943.
A.P.C. 365,264. Process for producing shaped washing agents. Winfrid Hentrich et al., Rodleben B. Dessau-Rosslau, Germany. Published June 1, 1943.

CLASS 256

A.P.C. 398,440. Protective railings. Jan Pekar, Prague, Bohemia and Moravia. Published June 1, 1943.

CLASS 260

A.P.C. 340,838. Process of preparing acetoacetic esters. Franz Josef Pohl et al., Hofheim, Germany. Published June 1, 1943.
A.P.C. 371,412. p-amino phenyl-p'-amino pyridyl sulfone and a process of making the same. Max Dohrn et al., Berlin-Charlottenburg, Germany. Published June 1, 1943.
A.P.C. 378,140. Process for the production of moulding-mixtures. Richard Hessen, Bautzen, Germany. Published June 1, 1943.

CLASS 261

A.P.C. 315,835. Controlling or regulating device for internal combustion engines. Guido Wunsch, Berlin-Wannsee, Germany. Published June 1, 1943.
A.P.C. 393,122. Method and means to increase duration of the contact and/or the surface of the said contact between a vaporous or gassy fluid and a liquid particularly for the purpose of distillation, etc. Giovanni Rossi, Milan, Italy. Published June 1, 1943.

CLASS 280

A.P.C. 357,967. Adjustable jaw for skis. Hans Horack, Immenstadt, Germany. Published June 1, 1943.

CLASS 308

A.P.C. 392,546. Cage for cylindrical rollers. Heinrich Rausch, Steyr-Oberdonau, Germany. Published June 1, 1943.
A.P.C. 399,460. Anti-friction bearing. Walther Bauersfeld, Jena, Germany. Published June 1, 1943.

CLASSIFICATION OF PATENTS

ISSUED JUNE 1, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 2: 2,320,703
49: 2,320,568
2— 2: 2,320,705
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97: 2,320,950
115: 2,320,605
171: 2,320,782
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225: 2,320,408
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61— 36: 2,320,954
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67— 6: 2,320,825
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330: 2,320,563
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74— 7: 2,320,897
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370: 2,320,713
421: 2,320,379
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477: 2,320,454
485: 2,320,878
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90: 2,320,679
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85— 5: 2,320,493
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19.5: 2,320,517
27: 2,320,910
34: 2,320,504
65: 2,320,375
87: 2,320,904
90— 11: 2,320,776
28.1: 2,320,750
59: 2,320,814
91— 2: 2,320,529
18: 2,320,513
45: 2,320,883
47: 2,320,438
92— 59: 2,320,789
93— 2: 2,320,362
2,320,865
55.1: 2,320,684
95— 2: 2,320,358
2,320,418
5: 2,320,666
5.1: 2,320,914
6: Re. 22,329
2,320,422
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11: 2,320,350
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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Patents	578—No.	2,320,987 to No.	2,321,564, inclusive.
Designs	40—No.	135,771 to No.	135,810, inclusive.
Total	804		

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., May 4, 1943.*

The Van Orden Shop Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Style Form Brassiere Co. Inc., 76 Madison Ave., New York, N. Y., to effect the cancellation of trade-mark registration of The Van Orden Shop Inc., 379 Fifth Ave., New York, N. Y., No. 274,501, dated August 26, 1930, and the notice of such proceeding sent by registered mail to the said The Van Orden Shop Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Van Orden Shop Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., May 12, 1943.*

A. Messuri & Son, their assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by The John B. Canepa Company, 302–312 West Grant Avenue, Chicago, Ill., to effect the cancellation of trade-mark registration of A. Messuri & Son, 2022 First Avenue, New York, N. Y., No. 257,591, dated June 11, 1929, and the notice of such proceeding sent by registered mail to the said A. Messuri & Son at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said A. Messuri & Son, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice

See page xxix for list of applications published by the Alien Property Custodian.

Adjudicated Patent

(C. C. A. Mich.) Phillips patent, No. 2,148,997, for piston ring, claims 2 to 16, inclusive, *Held* invalid. *Hastings Mfg. Co.* v. *Automotive Parts Corporation*, 134 F.(2d) 404.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,283,388, P. T. Paul and L. H. Howland, Antioxidant, decided May 14, 1943, claims 1, 2, 3, and 4.

Pat. 2,278,558, P. T. Paul, Antioxidant, decided May 14, 1943, claims 1, 2, 3, 4, 5, 6, 7, and 8.

Disclaimers

2,251,806.—*John B. Rust*, West Orange, and *Irving Pöckel*, Montclair, N. J. RESINOUS REACTION PRODUCT AND PROCESS THEREFOR. Patent dated August 5, 1941. Disclaimer filed April 23, 1943, by the assignee, *Ellis-Foster Company*.

Hereby enters this disclaimer to claim 1.

2,286,569.—*Leon Pollack*, Brooklyn, N. Y. PROCESS FOR PRODUCING LIGHT POLARIZING BODIES. Patent dated June 16, 1942. Disclaimer filed April 26, 1943, by the inventor; the assignee, *Polaroid Corporation*, consenting.

Hereby enters this disclaimer to claims 2, 6, 9, 11, 12, 13, 14, 15, 19, and 20 of said patent.

Conditions of Applications Under Examination at Close of Business May 22, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,728; Trade-Mark Division, 808. Oldest new case, July 18, 1942; oldest amended, July 18, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Oct. 26	†Jan. 20	295
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textiles Wringers; Butchering.	†Feb. 27	†Jan. 26	236
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Aug. 3	July 28	927
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 16	Nov. 28	414
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Sept. 11	Sept. 12	515
6. GENIESSE, E. W., Carbon Chemistry (part)	Sept. 25	Oct. 1	1009
7. JARBOE, C. G., Optics; Photography	Oct. 31	Oct. 28	847
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 7	Nov. 5	615
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 2	Oct. 8	736
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Dec. 12	Dec. 17	380
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	†Jan. 9	Dec. 18	316
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Nov. 9	Nov. 20	628
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Jan. 26	†Jan. 13	456
15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Nov. 26	Nov. 24	676
16. SPENCER, C. J., Telegraphy; Telephony	Oct. 15	Oct. 15	633
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 4	Aug. 12	705
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 22	Oct. 2	549
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Aug. 29	Aug. 24	606
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Dec. 2	Dec. 5	446
21. THOMPSON, T. J., Textiles	†Jan. 2	†Jan. 6	300
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Aug. 15	Aug. 18	1721
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 26	Dec. 24	134
24. LUSBY CHARLES, Apparel; Apparel Apparatus; Sewing Machines	†Jan. 11	†Jan. 8	515
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 9	Oct. 26	598
26. YOUNG, R. R., Electricity—Generation and Motive Power	Oct. 14	Oct. 12	677
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 26	Oct. 12	579
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 26	Aug. 7	627
29. SHKLARIN, J. B., Bagrage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	†Jan. 8	†Jan. 18	330
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 29	†Jan. 18	297
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 4	Dec. 4	1368
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Oct. 10	Oct. 10	625
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Dec. 31	Dec. 31	644
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Nov. 19	Dec. 2	405
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Dec. 29	Dec. 7	571
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	†Jan. 1	Dec. 18	367
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Jan. 19	†Jan. 28	393
38. KRAFFT C. F., Coating Processes; Coating or Plastic Compositions (part)	Nov. 15	Oct. 26	609
39. WHITNEY, F. J., Fluid-Pressure Regulators; Valves; Water Distribution	†Jan. 29	†Feb. 1	402
40. DRUMMOND, E. J., Receptacles	†Feb. 1	†Feb. 10	347
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 31	Oct. 29	389
42. MARANS, H., Electric Signaling	†Jan. 29	†Jan. 25	325
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	July 20	July 15	855
44. HARVEY, L. P., Refrigeration	Oct. 5	Oct. 5	315
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Nov. 18	Dec. 8	702
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Nov. 10	Nov. 14	466
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Nov. 5	Nov. 10	1015
48. ROEPKE, O. B., Electricity, General Applications; Igniters	July 18	Aug. 8	722
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Nov. 23	Nov. 13	564
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Oct. 25	Oct. 31	1208
51. BACKUS, C. D., Radiant Energy	Oct. 22	Oct. 29	1040
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Nov. 28	Nov. 24	678
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Feb. 24	†Feb. 9	192
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Oct. 24	Oct. 20	482
55. BOWEN, S. T., Artificial Body Members; Denistry; Surgery	Aug. 20	Aug. 20	806
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Nov. 26	Nov. 20	745
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	July 22	Aug. 25	444
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 26	Nov. 25	531
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	July 20	July 30	1248
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Sept. 3	Sept. 9	461
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Oct. 2	Nov. 25	538
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 27	†Jan. 19	464
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Oct. 1	Oct. 1	963
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Dec. 4	Dec. 11	1093
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Sept. 28	Oct. 3	687
Trade Marks: RICHMOND, F. A	†Apr. 22	†May 6	898
Designs: KALUPY, H. H	†Apr. 22	†May 4	297

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

FINKES AND THE UNION FORK AND HOE CO.
v.
COE, COMMISSIONER OF PATENTS

No. 8,228. Decided March 29, 1943

1. PATENTABILITY—SHOVEL.

Claim to a hollow-back shovel reciting the thickening of the longitudinal central portion of the shovel blade *Held* unpatentable over the prior art.

2. SAME—SAME.

"Appellants contend that the actual rolling of their shovel-blade involved serious difficulties which had not previously been solved. That question is not controlling, since the claim is for a product and not a process."

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Victor D. Borst (*Mr. Charles J. Diller* of counsel) for Finkes and The Union Fork and Hoe Co.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

Before MILLER, VINSON, and EDGERTON, Associate Justices

[1] [2] PER CURIAM:

In a suit under R. S. §4915, 35 U. S. C. §63, the district court declined to authorize the issue of a patent for an improved hollow-back shovel. The significant concept in the appealed claim is the thickening, in order to resist wear and breakage, of the longitudinal central portion of the shovel blade. The width of this central portion,

"substantially one-fifth that of the back edge of the blade,"

and the rate at which it is tapered down, do not appear to be critical. Lowman Patent No. 142,859, said to be the pioneer hollow-back shovel, uses a piece of sheet metal which

"may be rolled of unequal thickness, making it thickest in the parts which in the article, when made, will be exposed to the greatest strain."

Surbaugh Patent No. 1,083,952, also for a hollow-back shovel, uses a thin piece of steel

"rolled to provide a rib . . . whereby the metal is left more thick and thereby adding rigidity and strength to the sheet."

Surbaugh states that the rib extends

"longitudinally through the center . . ."

Myers Patent No. 340,602, for a strap type of shovel, teaches that

"the greatest strain on the shovel-blade . . . is always at, along, and on the longitudinal center line . . .; hence it will be apparent that the greatest thickness of metal should be at that part . . ."

Though appellants' shovel has been commercially successful, we think the Patent Office and the district court were right in finding that it was not inventive. Appellants contend that the actual rolling of their shovel-blade involved serious difficulties which had not previously been solved. That question is not controlling, since the claim is for a product and not a process. *Cohn* v. *United States Corset Co.*, 11 O. G. 457, 93 U. S. 366, 377; *In re Decker*, 162 O. G. 999, 36 App. D. C. 104; *In re Von Bramer*, 542 O. G. 183, 127 F.(2d) 149, 152 (C. C. P. A).

Affirmed.

U. S. Court of Customs and Patent Appeals

McCOY v. PFEIFFER

No. 4,645. Decided February 1, 1943

[133 F.(2d) 913]

1. REISSUE APPLICATION—SURRENDER OF PATENT.

"A patent is not surrendered, nor is the subject matter claimed therein relinquished, upon the filing of a reissue application by the patentee. An application for a reissue is accompanied by a mere offer to surrender the original patent in the event the reissue application is allowed and the patent reissued. However, if the reissue application is not allowed, or if it is abandoned, the original patent is not surrendered, nor is the subject matter of the claims therein relinquished. See section 4916 of the Revised Statutes (U. S. C. title 35, section 64); rule 91 of the Rules of Practice in the United States Patent Office; *Allen* v. *Culp*, 79 O. G. 1523, 166 U. S. 501, 504; and *McCormick Harvesting Machine Co.* v. *Aultman*, 82 O. G. 1988, 169 U. S. 606, 612."

2. INTERFERENCE—DISCLAIMER OF PATENT CLAIMS.

"There are two statutory methods by which a patentee may disclaim subject matter covered by the claims of his patent, which claims are involved in an interference; namely, first, by securing a reissue of his patent in accordance with the provisions of section 4916 of the Revised Statutes * * * and rules 85 to 92, inclusive, of the Rules of Practice in the United States Patent Office without including in such reissued patent claims to the subject matter involved in the interference, in which event the interference should be dissolved (*Lattig* v. *Dean*, 117 O. G. 1798, 25 App. D. C. 591); and, second, by the patentee or his assignee filing a written disclaimer in the Patent Office in accordance with the provisions of section 4917 of the Revised Statutes (U. S. C. title 35, section 65) and rule 181 of the Rules of Practice in the United States Patent Office, in which event the interference should be dissolved. See *Moore and McKee* v. *Bradley* v. *Doering, Jr.*, 180 O. G. 879, 1912 C. D. 205; *Maxfield* v. *Waters*, 47 U. S. P. Q. 280; *Stein and Peters, Jr.*, v. *Cunningham*, 47 U. S. P. Q. 281."

3. SAME—RULES 107 AND 125—AUTHORITY TO AWARD PRIORITY TO APPELLEE.

"Appellant did not file a 'written disclaimer or concession of priority, or abandonment of the invention' defined by the counts in the interference for the purpose of avoiding the interference, as provided by rule 107 * * *. Furthermore, so far as appears of record, there was nothing in the conduct of appellant, either in the interference proceeding or in the ex parte prosecution of his reissue application, to indicate any intention on his part to disclaim or abandon the invention defined by the involved counts for the purpose of avoiding the interference. On the contrary, throughout the proceedings in the interference, counsel for appellant persisted in the contention that appellant could not afford to disclaim or abandon the invention defined by the counts in the interference until he was assured of the allowance of the broad claims (claims 2 and 6) in his reissue application, which counsel claimed more accurately defined appellant's invention and which were identical with the involved counts except that they were not limited to stabilized rubber

hydrohalide. Under the related circumstances, the Board of Interference Examiners was clearly without authority to render judgment of priority of invention to appellee under the provisions of rule 125 * * *."

SAME—AUTHORITY TO ISSUE ORDER TO SHOW CAUSE WHY JUDGMENT SHOULD NOT BE ENTERED.

"It is not clear to the court why the Examiner of Interferences deemed it necessary to issue the order against appellant to show cause why judgment should not be rendered against him in his decision denying appellee's motion to suspend the interference. If the order was issued, as it evidently was, for the purpose of requiring appellant to relinquish or disclaim the claims of his patent involved in the interference, or, in the alternative, abandon his reissue application, it was without authority of law, as appellant clearly had the right, under the provisions of section 4916 of the Revised Statutes * * * to file his reissue application and prosecute the same without being forced to disclaim or relinquish the claims of his patent which were not included in his reissue application and which appellant thought, rightly or wrongly, did not correctly define his real invention."

SAME—AUTHORITY TO AWARD PRIORITY TO APPELLEE.

"We are unable to concur in the views expressed by the Board of Interference Examiners that the pendency of appellant's reissue application superseded appellant's patent, and that his cancellation of the patented claims, involved as counts in the interference, from his reissue application was the equivalent of a disclaimer of the subject matter of those claims. Accordingly, we are of opinion that, under the circumstances of this case, the Board was without authority to render judgment on the record against appellant and award priority of invention to appellee."

APPEAL from the Patent Office. Reversed and remanded.

Mr. R. H. Waters (*Mr. Edmund H. Parry, Jr., Mr. Gordon C. Mack, Mr. W. B. Morton* and *Mr. Clarence M. Fisher* of counsel) for McCoy.

Mr. Luther E. Morrison (*Messrs. Morrison, Kenady* and *Campbell* of counsel) for Pfeiffer.

HATFIELD, *J.*:

This is an appeal in an interference proceeding from the decision of the Board of Interference Examiners of the United States Patent Office rendering judgment on the record against appellant and awarding priority of invention of the subject matter defined in the two counts in issue (Nos. 1 and 2) to appellee.

The interference is between appellant's patent No. 2,168,651, issued August 8, 1939, on an application filed June 30, 1936, and appellee's application No. 193,214, filed February 28, 1938.

The counts in issue originated in appellant's patent, and were copied by appellee for interference purposes. They read:

1. A method of packaging which includes the steps of heating a film of stabilized rubber hydrohalide until the same acquires a high degree of elasticity, and stretching the same in contact with the surface of an article to be wrapped therein.

2. A method of packaging which includes the steps of enclosing an article to be packaged at least partially with a film which includes a rubber hydrohalide and a substance of such character and in such an amount as to retard photochemical disintegration of the rubber hydrohalide and which has been heated to a temperature and for a time sufficient to shrink said film about 10% without imparting even temporary tackiness to said film.

Appellee is the junior party, and the burden was upon him to establish priority of invention by a preponderance of the evidence.

The invention relates to a method of packaging articles, and, as will be observed from the quoted counts, is limited, as stated in count 2, to

"a film which includes a rubber hydrohalide and a substance of such character and in such an amount as to retard photochemical disintegration of the rubber hydrohalide,"

that is,

"a film of stabilized rubber hydrohalide."

as stated in count 1.

The interference was declared April 9, 1940.

On August 2, 1940, appellant filed an application, Serial No. 349,984, for the reissue of his patent. The reissue application did not contain claims corresponding to the counts in issue, nor did it contain any statement that appellant's invention was limited to, or depended upon, the use of a film of stabilized rubber hydrohalide. On the contrary, in appellant's reissue oath it was stated that, when heated, unstabilized rubber hydrohalides react substantially the same as stabilized rubber hydrohalides; that appellant was not aware of that fact at the time of the issuance of his patent; that appellant's patent was inoperative or invalid for the reason that the specification and the claims were defective and insufficient; and that the errors contained in the specification and claims arose through inadvertence or mistake and without any fraudulent purpose on the part of appellant.

Appellant's reissue application was accompanied by the written assent of appellant's assignees.

On August 14, 1940, appellant filed two affidavits which corroborated the statement contained in the reissue oath; that is, that, when heated, unstabilized rubber hydrohalides react the same as stabilized rubber hydrohalides.

In a decision rendered August 22, 1940, the Commissioner of Patents stated that appellant's reissue application would be open to inspection by appellee; that it might be separately prosecuted during the prosecution of the interference, but that it would not be passed to issue without the approval of the Commissioner until the interference was finally determined.

On September 20, 1940, appellee Pfeiffer filed a motion requesting that the interference be suspended, and that his application be remanded to the Primary Examiner for further ex parte prosecution during the pendency of appellant's reissue application or until a new interference was declared between appellee's application and appellant's reissue application. Attention was called in appellee's motion to the fact that claims corresponding to the interference counts were not in appellant's reissue application; that they were to be surrendered by appellant upon the allowance of his reissue application; and that the surrender of such claims would terminate the interference.

On September 23, 1940, the Examiner of Interferences denied appellee's motion to stay and remand for the purposes therein set forth, and stated that appellant "*should make his position clear as soon as possible*"; that the parties had until October 16, 1940, to file motions; and that as the reissue application of appellant did not contain claims corresponding to the counts in the interference, appellant had "*until October 16, 1940, to show cause why judgment should not be rendered against him.*" [Italics not quoted.]

On October 16, 1940, appellant responded to the order to show cause, stating that his reissue application had been amended to include all the claims in his patent, and that the interference could proceed with the counts here in issue if the Examiner of Interferences so desired. Appellant requested, however, that the Examiner of Interferences give due consideration to the fact that appellant's purpose in filing his reissue application was to present claims which he believed more accurately defined the invention, and also requested that claims of the reissue application which were identical with the involved counts, except that they were not limited to stabilized rubber hydrohalide, be made the basis of the interference. On the same date, appellant moved to substitute his reissue application for his patent and to place additional counts (which need not be discussed here) in the interference. Appellant also requested in the motion that the counts here in issue "be abandoned and be replaced" by the broader claims (claims 2 and 6 of the reissue application) referred to in the response to the order to show cause.

In a decision dated October 28, 1940, the Examiner of Interferences noted appellant's response to the order to show cause why judgment should not be rendered against him, dismissed appellant's motion to substitute his reissue application and to add the counts therein set forth for the reason that appellant failed to allege in his motion that the proposed counts were deemed to be patentable and patentably distinct from each other and for the further reason that appellant had

"not effectively disclaimed in claims 2 and 6 of the patent [involved counts 1 and 2] *the limitation omitted in the said proposed counts;"*

and stated that *without*

"such disclaimer the motion constitutes a species of experimental prosecution whereby in the event of adverse ruling on priority on the two proposed counts the patentee [appellant] *could retain claims 2 and 6* [in the patent] *without actual judgment thereon."* [Italic ours.]

On November 2, 1940, counsel for appellant filed an amended motion to substitute in the interference appellant's reissue application which contained the claims of his patent, including claims corresponding to the counts in issue, as well as additional claims. In the amended motion, counsel stated that the Examiner of Interferences dismissed appellant's original motion to substitute his reissue application containing the broad claims because appellant had not disclaimed the narrow claims (the two claims of his patent corresponding to the counts in issue), and that appellant could not "afford to disclaim" the claims of his patent until he was "assured that the reissue application" was free from all informalities" and the broad claims therein held allowable. Counsel further stated that both the broad and narrow claims related to the same invention; that counsel could not argue that they were patentably distinguishable; and that the broader claims more accurately defined appellant's invention.

In a decision of the Examiner of Interferences, dated November 7, 1940, appellant's amended motion to add counts to the interference was set for hearing January 2, 1941.

On January 25, 1941, appellant again amended his reissue application by including in his specification matter contained in his patent which was the basis for the narrow patented claims, including those here involved.

On March 17, 1941, the Primary Examiner, before whom appellant's reissue application was being prosecuted, rejected all of the claims in appellant's reissue application, except those corresponding to the claims in appellant's patent (concerning which no reference was made in the Examiner's decision), on the ground that they were unsupported by appellant's original disclosure, stating that there was no suggestion in appellant's patent that materials other than stabilized rubber hydrohalide could be used in appellant's process, and that the rejected claims were based on new matter. Some of the claims were also rejected on prior art.

Thereafter, on March 25, 1941, counsel for appellant, in the ex parte prosecution of appellant's reissue application, filed an amendment to that application, cancelling the amendment of January 25, 1941, hereinbefore referred to, and also cancelling from the reissue application the claims corresponding to the claims of appellant's patent. In the remarks accompanying the stated amendment, counsel for appellant stated that the matter included in the reissue application by the amendment of January 25, 1941, relating to the use of stabilized rubber hydrohalide, and the claims corresponding to the claims of the patent which were limited to the use of stabilized rubber hydrohalide were at variance with the statements contained in the reissue oath, and had no place in the reissue application; that the disclosure in appellant's patent was sufficient to support the broader claims contained in his reissue application; that, until the reissue application was allowed, the involved counts, which were copied from appellant's patent, were available for interference purposes; and that, in the event the reissue application was not allowed, the claims of the patent would be enforced throughout the period of the patent grant. On that same date, March 25, 1941, counsel for appellant filed a motion in the interference proceeding, cancelling the amendment of January 25, 1941, and also cancelling the claims corresponding to the claims of appellant's patent. It was stated in that motion that—

Reference should therefore be had to the patent wherever these claims [the counts in the interference] are mentioned.

In view of the fact that the interference involves the patent, there was no reason for placing McCoy [appellant] under order to show cause for not making the patent claims in the reissue application.

On that same date, March 25, 1941, the Primary Examiner, who rejected all of the claims in appellant's reissue application as hereinbefore noted.

denied appellant's amended motion to substitute his reissue application for his patent in the interference, stating that all of

"The claims are under rejection on several grounds which are adhered to here."

The Primary Examiner also stated, as he did in his decision in the ex parte proceeding, that appellant's reissue oath was insufficient; that one of the alleged errors mentioned therein did

"not appear to be an error since applicant" had "reinserted the paragraph in question [the paragraph containing the disclosure upon which the narrower claims in the patent were based] in the specification";

that the broad claims in the reissue application were broader than the original disclosure in the patent, and were based on new matter; and that there was no suggestion in the patent that any material other than stabilized rubber hydrohalide might be used in appellant's process. Attention was called to the fact that the reissue oath contained, in substance, the statement that at the time his patent issued, appellant was not aware of the fact that, when heated, unstabilized rubber hydrohalide reacted substantially the same as stabilized rubber hydrohalide.

In its decision, dated April 3, 1941, the Board of Interference Examiners, in awarding priority of invention to appellee (the junior party), reviewed the facts hereinbefore set forth, and stated that the order of the Examiner of Interferences requiring appellant to show cause why judgment should not be rendered against him was issued because of the failure of appellant to include in his reissue application (filed subsequent to the declaration of the interference) the claims from his patent corresponding to the counts here involved, and that appellant's failure to include such claims in his reissue application indicated a "probable intention" on his part "to relinquish the claims of the patent." The Board further stated that, instead of prosecuting an ex parte appeal from the Primary Examiner's decision holding the oath accompanying appellant's reissue application to be insufficient for the reasons hereinbefore set forth, appellant, on March 25, 1941, filed an amendment cancelling the claims of the patent corresponding to the counts in issue and the paragraph in the specification containing the disclosure of the use of stabilized rubber hydrohalide in his process; that, in the remarks accompanying the amendment, appellant stated that the disclosure contained in the paragraph referred to and the claims of the patent were at variance with the statements contained in the reissue oath; and that by cancelling the claims of the patent and the paragraph in the specification containing appellant's disclosure and failing to prosecute an ex parte appeal, appellant

"elected * * * to withdraw the patent claims from the reissue" and "therefore elected not to further prosecute the involved claims in the reissue application but to prosecute other claims which prosecution if successful will complete the surrender of the patent."

The Board also stated that

"Since the pendency of a reissue application supersedes the patent and McCoy's [appellant's] *announced intention is to take out the reissue application without the claims of the patent, his action renders the interference contest on the patent claims an idle ceremony";*

that as appellant

had assumed two conflicting positions, it is considered that no useful purpose would be served by *again issuing against him an order to show cause based on his latest action cancelling the added claims";*

and that appellant's action in cancelling the claims to the subject matter hereinbefore stated is the

"equivalent of a disclaimer of the involved claims of the patent, warranting the issuance of judgment on the record against him, which judgment will be not further withheld." [Italics not quoted.]

Appellant filed a request for reconsideration of the Board's decision, which was denied. Appellant then filed a petition with the Commissioner of Patents, requesting that the Board of Interference Examiners be directed to withdraw its decision awarding priority of invention to appellee and to postpone further proceedings until appellant's reissue application was finally disposed of or, in the alternative, dissolve the interference. The petition was denied by the Commissioner. Appellant filed a request for further consideration by the Commissioner of Patents, which was denied. Thereafter, appellant filed with the Commissioner a request for a hearing, claiming that the Board of Interference Examiners had acted summarily and that appellant had never had a hearing. That request was denied by the Examiner of Interferences. Whereupon, an appeal was taken to this court.

It is contended here by counsel for appellant that appellant neither expressly, nor by his conduct, disclaimed the subject matter defined by the involved counts, and that the Board of Interference Examiners was without authority to render a judgment of priority in favor of appellee, the junior party.

[1] As pointed out by counsel for appellant in their brief, a patent is not surrendered, nor is the subject matter claimed therein relinquished, upon the filing of a reissue application by the patentee. An application for a reissue is accompanied by a mere offer to surrender the original patent in the event the reissue application is allowed and the patent reissued. However, if the reissue application is not allowed, or if it is abandoned, the original patent is not surrendered, nor is the subject matter of the claims therein relinquished. See section 4916 of the Revised Statutes (U. S. C. title 35, section 64); rule 91 of the Rules of Practice in the United States Patent Office; *Allen* v. *Culp*, 79 O. G. 1523, 166 U. S. 501, 504; and *McCormick Harvesting Machine Co.* v. *Aultman*, 82 O. G. 1988, 169 U. S. 606, 612.

[2] There are two statutory methods by which a patentee may disclaim subject matter covered by the claims of his patent, which claims are involved in an interference; namely, first, by securing a reissue of his patent in accordance with the provisions of section 4916 of the Revised Statutes, supra, and rules 85 to 92, inclusive, of the Rules of Practice in the United States Patent Office without including in such reissued patent claims to the subject matter involved in the interference, in which event the interference should be dissolved (*Lattig* v. *Dean*, 117 O. G. 1798, 25 App. D. C. 591); and, second, by the patentee or his assignee filing a written disclaimer in the Patent Office in accordance with the provisions of section 4917 of the Revised Statutes (U. S. C. title 35, section 65) and rule 181 of the Rules of Practice in the United States Patent Office, in which event the interference should be dissolved. See *Moore and McKee* v. *Bradley* v. *Doering, Jr.*, 180 O. G. 879, 1912 C. D. 205; *Maxfield* v. *Waters*, 47 U. S. P. Q. 280; *Stein and Peters, Jr.*, v. *Cunningham*, 47 U. S. P. Q. 281.

A statutory disclaimer, under rule 181, supra, must be in writing, must be signed by the patentee or his assignee, must be attested by one or more witnesses, and must be accompanied by a filing fee of $10. As no disclaimer was filed by appellant in accordance with rule 181, supra, and as all of the claims in appellant's reissue application were under rejection at the time of the Board's decision, it is obvious that the patented claims involved as counts in the interference were not relinquished or disclaimed in accordance with either of the hereinbefore mentioned statutory methods.

Rule 107 of the Rules of Practice in the United States Patent Office provides that an applicant or a patentee may avoid an interference in which he is involved by filing

"a written disclaimer or concession of priority, or abandonment of the invention, signed by the inventor in person with the written consent of the assignee when there has been an assignment. Upon the filing of such an instrument by any party, judgment shall be rendered against him."

Rule 125 of the Patent Office rules provides that—

After an interference is finally declared it will not, except as herein otherwise provided, be determined without judgment of priority founded either upon the evidence, or upon a written concession of priority, or upon a written disclaimer of the invention, or upon a written declaration of abandonment of the invention, signed by the inventor himself (and by the assignee, if any).

[3] Appellant did not file a "written disclaimer or concession of priority, or abandonment of the invention" defined by the counts in the interference for the purpose of avoiding the interference, as provided by rule 107, supra. Furthermore, so far as appears of record, there was nothing in the conduct of appellant, either in the interference proceeding or in the ex parte prosecution of his reissue application, to indicate any intention on his part to disclaim or abandon the invention defined by the involved counts for the purpose of avoiding the interference. On the contrary, throughout the proceedings in the interference, counsel for appellant persisted in the contention that appellant could not afford to disclaim or abandon the invention defined by the counts in the interference until he was assured of the allowance of the broad claims (claims 2 and 6) in his reissue application, which counsel claimed more accurately defined appellant's invention and which were identical with the involved counts except that they were not limited to stabilized rubber hydrohalide. Under the related circumstances, the Board of Interference Examiners was clearly without authority to render judgment of priority of invention to appellee under the provisions of rule 125, supra.

It will be recalled that the Board stated in its decision that the Examiner of Interferences' order requiring appellant to show cause why judgment should not be rendered against him was issued because of the failure of appellant to include in his reissue application the claims of his patent corresponding to the counts in issue. It will also be recalled that the order to show cause was issued by the Examiner of Interferences in his decision denying appellee's motion to suspend the interference and remand appellee's application to the Primary Examiner for further ex parte prosecution during the pendency of appellant's reissue application. Appellee's motion was obviously submitted to the end that priority of invention of all allowable common patentable subject matter might be determined in one interference proceeding.

[4] It is not clear to the court why the Examiner of Interferences deemed it necessary to issue the order against appellant to show cause why judgment should not be rendered against him in his decision denying appellee's motion to suspend the interference. If the order was issued, as it evidently was, for the purpose of requiring appellant to relinquish or disclaim the claims of his patent involved in the interference, or, in the alternative, abandon his reissue application, it was without authority of law, as appellant clearly had the right, under the provisions of section 4916 of the Revised Statutes, supra, to file his reissue application and prosecute the same without being forced to disclaim or relinquish the claims of his patent which were not included in his reissue application and which appellant thought, rightly or wrongly, did not correctly define his real invention.

In the case of *Thompson* v. *Keller*, 407 O. G. 1117, 1931 C. D. 2, a situation prevailed similar to that presented in the instant case, except that in that case an application for the reissue of the Thompson patent, from which the claims of the patent were omitted, was filed before the declaration of the interference. In his decision in that case, the Commissioner of Patents, among other things, said:

It is clear that this interference should not be determined or terminated until the reissue application filed by the party Thompson is either granted or abandoned, to the end that the status of the original Thompson patent be first finally settled.

In the case of *Read* v. *Scott*, 100 O. G. 449, 1902 C. D. 242, an interference was declared between Read's patent and Scott's application. During the pendency of the interference, Read filed a reissue application which contained the claims corresponding to the counts in the interference, as well as other claims. Thereafter, a second interference was declared between Scott's application and Read's reissue application. However, before the declaration of the second interference, Read cancelled from his reissue application two of his patent claims which corresponded to two of the counts in the original interference. Those claims had been rejected by the Primary Examiner on a reference. Thereupon, the party Scott moved for a judgment awarding priority of invention to him

as to the two counts which were cancelled from Read's reissue application. The motion was denied by the Examiner of Interferences and, on appeal, the Examiner's decision was affirmed by the Commissioner of Patents. In his decision, the Commissioner called attention to the fact that the two claims there in question were cancelled from Read's reissue application before that application became involved in the second interference, and stated that the cancellation of the patented claims from the reissue application did not amount to a disclaimer of those claims. In so holding, the Commissioner relied upon the decision of the Supreme Court in the case of *McCormick Harvesting Machine Co.* v. *Aultman*, supra, where it was held, in substance, that until a patent was reissued the original patent stood, so far as the Patent Office was concerned, as though the reissue application had not been filed.

In the Read case, as in the case at bar, the patentee's reissue application was filed subsequent to the declaration of an interference between his patent and the application of the opposing party. There, as here, the patentee cancelled from his reissue application two of his patented claims which were involved in the original interference; and there, as here, such cancellation was effected before the reissue application became involved in an interference with the opposing party. (It will be recalled that appellant's reissue application has not been involved in an interference with appellee's application.)

The difference between the facts in the Read case and those in the instant case is that in that case the patentee Read included in his reissue application, as filed, the claims of his patent which were involved in the original interference and then subsequently cancelled them, whereas, in the instant case, appellant did not include in his reissue application, as filed, the patented claims involved in the interference, but rather, in his response to the order to show cause, inserted such claims in his reissue application, then, upon the rejection of that application by the Primary Examiner on the ground, among others, that the presence of the patented claims (involved as counts in the interference) with their supporting disclosure was inconsistent with the statements contained in appellant's reissue oath, cancelled the patented claims and their supporting disclosure, and, in so doing, stated that that subject matter had no place in his reissue application because, as stated by the Primary Examiner, it was inconsistent with the statements contained in the reissue oath.

It will be recalled that appellant was criticized in the Board's decision for cancelling the patented claims (involved as counts in the interference) together with their supporting disclosure from his reissue application, and that the Board, contrary to the provisions of section 4916 of the Revised Statutes, supra, the pertinent Rules of Practice in the United States Patent Office, and applicable decisions hereinbefore cited, made the cancellation of that subject matter the basis of its decision holding that appellant had disclaimed it.

[5] For the reasons hereinbefore stated, we are unable to concur in the views expressed by the Board of Interference Examiners that the pendency of appellant's reissue application superseded appellant's patent, and that his cancellation of the patented claims, involved as counts in the interference, from his reissue application was the equivalent of a disclaimer of the subject matter of those claims. Accordingly, we are of opinion that, under the circumstances of this case, the Board was without authority to render judgment on the record against appellant and award priority of invention to appellee.

The decision is reversed and the cause remanded for further proceedings.

Reversed and remanded.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 8, 1943

[VOL. 551. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 446,970. KANE IMPORT CORPORATION, New York, N. Y. Filed Sept. 11, 1941.



No claim is made to the word "China" apart from the mark.

FOR BAMBOO, BRISTLES, CASSIA, FEATHERS, GALANGAL, GALLNUTS, HORSE HAIR, HUMAN HAIR, SEA GRASS, SESAME, SILK, SILK WASTE, TSINGLEE CANE, TUNGSTEN ORE, AND WOLFRAM ORE.

Claims use since Apr. 15, 1941.

CLASS 2

RECEPTACLES

Ser. No. 458,033. THE CHASE BAG COMPANY, New York, N. Y. Filed Jan. 20, 1943.

"PROTEX"
PIC-A-KROPSAX

FOR COTTON PICKERS' CLOTH BAGS AND SACKS.

Claims use since 1939.

Ser. No. 459,629. HARRY MORRIS, Chicago, Ill. Filed Apr. 5, 1943.



FOR COMPACTS MADE OF BASE METALS OR SYNTHETIC MATERIALS AND SOLD IN TRADE EMPTY.

Claims use since December, 1942.

Ser. No. 459,705. IVERS-LEE COMPANY, Newark, N. J. Filed Apr. 8, 1943.

V-PAK

The word "Pak" is disclaimed apart from the mark.

FOR ENVELOPE-LIKE SEALED CONTAINERS HAVING FOLDED COVERS.

Claims use since July 10, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 459,757. H. LEVINE & COMPANY, Cleveland, Ohio. Filed Apr. 9, 1943.

DUR-RATION

The word "Ration" is disclaimed apart from the mark.

FOR WAR RATION BOOK HOLDERS OR COVERS.

Claims use since Apr. 1, 1943.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 457,530. READE MANUFACTURING COMPANY, INC., Jersey City, N. J. Filed Dec. 19, 1942.

Unit-Suds

FOR WASHING COMPOUNDS.
Claims use since Oct. 23, 1942.

Ser. No. 459,414. GENERAL SHOE CORPORATION, Nashville, Tenn. Filed Mar. 27, 1943.

'76

FOR SHOE AND BOOT POLISH.
Claims use since Feb. 10, 1943.

Ser. No. 459,634. THE PROTECTITE COMPANY, Houston, Tex. Filed Apr. 5, 1943.

PROTECTITE

FOR PREPARATION USED AS A LEATHER DRESSING AND LEATHER PRESERVATIVE AND HAVING INCIDENTAL CLEANSING PROPERTIES.
Claims use since March 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 451,583. C. F. STUART, doing business as C & S Chemical Supply Company, Chickasha, Okla. Filed Mar. 12, 1942.

C & S
CHEMICAL SUPPLY CO.
"Clean and Save The C & S Way"

Applicant disclaims the terms "Chemical Supply Co." and "Clean and Save" apart from the mark.
FOR SOLVENT USED IN CLEANING BOILERS, CORRODED PIPES, ENGINE JACKETS, AND COOLING TOWERS.
Claims use since March 1939.

Ser. No. 455,669. NYAL COMPANY, Detroit, Mich. Filed Sept. 21, 1942.

NYAL
FIZZES

Applicant is the owner of registered T. M. No. 34,595 (renewed), for the word "Nyal". Applicant disclaims the word "Fizzes" apart from the mark.
FOR ANTACID FOR SOUR STOMACH, ACID INDIGESTION, AND HEARTBURN.
Claims use since June 21, 1933.

Ser. No. 456,483. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y. Filed Oct. 28, 1942. Under section 5b of the act of 1905 as amended in 1920.

Barrett

FOR NAPHTHALENE, TAR DISTILLATE HYDROCARBON OILS FOR IMPREGNATING WOOD AND OTHER PURPOSES, CREOSOTE OILS, DISINFECTANTS, INSECTICIDES, COMPOSITIONS USED IN THE PROCESSING, TREATMENT AND SOFTENING OF RUBBER, COAL TAR ACIDS OF PHENOLIC CHARACTER, COAL TAR BASES CONTAINING THE PYRIDINE NUCLEUS, PHTHALIC ANHYDRIDE, AROMATIC HYDROCARBON AND ALICYCLIC SOLVENTS, BENZOL, CYCLOHEXANONE, AND STYRENE.
Claims use to naphthalene since March 1941; to tar distillate hydrocarbon oils for impregnating wood and other purposes, creosote oils, disinfectants and insecticides since November 1941; to styrene since March 1942; and to the remainder of said goods since February 1942.

Ser. No. 457,056. FRED L. TRICKEY, doing business as Nitroloid Company, Berlin, Wis. Filed Nov. 25, 1942.

NITROLENE

FOR THINNER FOR RESINOUS AND CELLULOSE CEMENTS AND A SOLVENT THINNER FOR EMBALMERS' USE.
Claims use in applicant's business, as a thinner for resinous and cellulose cements, since July 2, 1927; and has been continuously used and applied to said goods in applicant's business, and as a solvent thinner for embalmers' use, since Dec. 5, 1927.

Ser. No. 458,008. BURROUGHS WELLCOME & CO. (U. S. A.) INC., New York, N. Y. Filed Jan. 19, 1943. Under 10-year proviso.

'Wellcome'

FOR ASCARIDOLE; ATROPINE SULFATE, U. S. P.; BISMUTH SALICYLATE CREAM WITH CAMPHOR; MERCUROUS CHLORIDE, U. S. P. (CALOMEL); CHLOROFORM, U. S. P.; TINCTURE DIGITALIS, U. S. P.; EMETINE AND BISMUTH IODIDE, B. P.; EMETINE HYDROCHLORIDE, U. S. P.; EPHEDRINE (PURE ALKALOID) U. S. P.; EPHEDRINE HYDROCHLORIDE, U. S. P.; EPHEDRINE SULFATE, U. S. P.; SOLUTION OF EPINEPHRINE HYDROCHLORIDE, U. S. P.; ERGAMINE ACID PHOSPHATE; ERGOTOXINE ETHANESULFONATE, U. S. P.; HEMOGLOBIN, B. P. C.; HIRUDIN; HOMATROPINE (PURE ALKALOID); HOMATROPINE HYDROBROMIDE, U. S. P.; IRON AND AMMONIUM CITRATE, B. P.; TOILET LANOLINE; MERCURIC POTASSIUM IODIDE (SOLUBLE); OUABAIN, U. S. P.; PHYSOSTIGMINE (ESERINE) SALICYLATE, U. S. P.; PHYSOSTIGMINE (ESERINE) SULFATE, B. P. C.; PILOCARPINE HYDROCHLORIDE, N. F. VI; PILOCARPINE NITRATE, U. S. P.; SODIUM SALICYLATE, U. S. P.; STROPHANTHIN, U. S. P.; SULFONAMIDE-P (RECRYSTALLIZED); WASSERMANN ANTIGEN; HEMOLYTIC SERUM (GLYCERINATED).
Claims use since Jan. 1, 1894.

Ser. No. 458,311. WOOD TREATING CHEMICALS CO., St. Louis, Mo. Filed Feb. 2, 1943.

TERRA TOX

The word "Tox" is disclaimed apart from the mark.
FOR WOOD PRESERVATIVES.
Claims use since Nov. 1, 1940.

Ser. No. 458,336. NATIONAL PACKAGE DRUGS, INC., St. Louis, Mo. Filed Feb. 4, 1943.

nPD

FOR OIL OF CITRONELLA, SWEET OIL, CAMPHORATED OIL, CASTOR OIL, OIL OF WINTERGREEN, VITAMIN B1 TABLETS, VITAMIN C TABLETS, VITAMIN A AND D CONCENTRATE TABLETS, VITAMIN B COMPLEX CAPSULES, PHENOBARBITAL TABLETS, QUININE SULFATE CAPSULES, AROMATIC SPIRITS OF AMMONIA, EPHEDRINE SULPHATE CAPSULES, CASCARA SAGRADA (AROMATIC), CALCIUM PANTOTHENATE TABLETS, POTASSIUM PERMANGANATE (TABLETS AND LIQUID), COMPOUND TINCTURE OF BENZOIN, TINCTURE OF ARNICA, SPIRITS OF CAMPHOR, ESSENCE OF PEPPERMINT, CHLOROFORM LINIMENT, SWEET SPIRIT OF NITRE, SODIUM SALICYLATE TABLETS, COMPOUND SYRUP OF WHITE PINE, TINCTURE OF GREEN SOAP, EYE BATH, CALCIUM LACTATE TABLETS, GLYCERINE, PETROLEUM JELLY (WHITE), BREWERS YEAST TABLETS, HYDROGEN PEROXIDE, GLYCERINE SUPPOSITORIES, BEEF, IRON AND WINE, ELIXIR THIAMIN, CREAM OF TARTAR, ALUM (POWDER AND LUMP), MUSTARD POWDER (YELLOW), BORIC ACID (POWDER AND CRYSTALS), ROCHELLE SALTS, SALT PETRE, EPSOM SALT, HENNA POWDER, SENNA LEAVES, BORAX, COMPOUND POWDER OF SENNA, SODIUM BICARBONATE, SALICYLIC ACID, MOTH BALLS, CHAMOMILE FLOWERS, COPPERAS, FLAXSEED MEAL, FLAXSEED (WHOLE), SODIUM FLUORIDE, HEADACHE TABLETS, TABLETS FOR THE RELIEF OF STOMACH AILMENTS, TONIC, BILE TABLETS, COUGH SYRUP, AND FLOWERS OF SULFUR.
Claims use since Jan. 15, 1938.

Ser. No. 458,413. STUART OXYGEN CO., San Francisco, Calif. Filed Feb. 8, 1943.

FOR MEDICAL OXYGEN, MEDICAL NITROUS OXIDE, MEDICAL HI-PURE NITROUS OXIDE, MEDICAL CARBON DIOXIDE, MEDICAL OXYGEN-CARBON DIOXIDE MIXTURE AND HELIUM.
Claims use since Dec. 15, 1942.

Ser. No. 458,414. STUART OXYGEN CO., San Francisco, Calif. Filed Feb. 8, 1943.

FOR MEDICAL OXYGEN, MEDICAL NITROUS OXIDE, MEDICAL HI-PURE NITROUS OXIDE, MEDICAL CARBON DIOXIDE, MEDICAL OXYGEN-CARBON DIOXIDE MIXTURE AND HELIUM.
Claims use since Dec. 15, 1942.

Ser. No. 458,579. APPLIED CHEMICAL CORPORATION, New York, N. Y. Filed Feb. 17, 1943.

APLOCOP

FOR IMPREGNATING SUBSTANCES, FUNGICIDES, SOLVENTS FOR CELLULOSE, WATER-PROOFING SUBSTANCES.
Claims use since January, 1942.

Ser. No. 459,036. BONAT & BONAT, INC., New York, N. Y. Filed Feb. 20, 1943.

BONAT Gleamol

FOR SHAMPOOS CONSISTING OF LIQUID HAIR CREAM CONDITIONER AND LOTIONS CONSISTING OF PERMANENT WAVING SOLUTIONS.
Claims use since Nov. 1, 1942.

Ser. No. 459,096. WILLIAM R. WARNER & CO., INC., Wilmington, Del., and New York, N. Y. Filed Mar. 13, 1943.

CREMADERM

FOR CREAM OINTMENT BASE.
Claims use since March, 1943.

Ser. No. 459,140. WARREN F. WILHELM, doing business as New Products Laboratories, Chicago, Ill. Filed Mar. 15, 1943.

Desylan

FOR DISINFECTING SOLUTION.
Claims use since February, 1942.

Ser. No. 459,270. PINUS MEDICINE COMPANY, Monticello, Ill. Filed Mar. 22, 1943.

FRITOLA

FOR INTERNAL REMEDIES FOR THE TREATMENT OF INTESTINAL INFLAMMATIONS AND STOMACH DISORDERS.
Claims use since Mar. 10, 1943.

Ser. No. 459,317. SCHERING & GLATZ, INC., New York, N. Y. Filed Mar. 24, 1943.

BILATRATE

FOR BILE SALTS COMPOSITIONS.
Claims use since Mar. 17, 1943.

Ser. No. 459,571. MITCHELL-BRADFORD CHEMICAL COMPANY, Bridgeport, Conn. Filed Apr. 1, 1943.

BLACK-MAGIC

FOR COMPOUNDS FOR USE IN AQUEOUS SOLUTIONS TO DARKEN METAL SURFACES.
Claims use since April, 1939.

Ser. No. 459,647. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Apr. 5, 1943.

NOXTANE

FOR CHEMICAL PRESERVATIVE FOR CONTROLLING STAIN AND MOLD ORGANISMS WHICH DEGRADE LUMBER AND OTHER COMMERCIAL PRODUCTS.
Claims use since May, 1941.

Ser. No. 459,762. PETROGALAR LABORATORIES, INC., Chicago, Ill. Filed Apr. 9, 1943.

Purnatol

FOR RECTAL OINTMENTS.
Claims use since Feb. 26, 1917.

CLASS 7

CORDAGE

Ser. No. 458,512. JOHN H. GRAHAM & CO., INC., New York, N. Y. Filed Feb. 13, 1943.

King Cotton

No claim is made to the word "Cotton" apart from the mark.
FOR BRAIDED AND TWISTED COTTON CORD AND TWINE, PARTICULARLY BRAIDED SASH CORD, BRAIDED MASON'S LINE, BRAIDED DRAPERY CORD, TWISTED COTTON ROPE, CHALK LINE, AND SEINE TWINE.
Claims use since Jan. 15, 1943.

Ser. No. 458,513. JOHN H. GRAHAM & CO., INC., New York, N. Y. Filed Feb. 13, 1943.

KING COTTON

No claim is made to the word "Cotton" apart from the mark.
FOR BRAIDED AND TWISTED COTTON CORD AND TWINE, PARTICULARLY BRAIDED SASH CORD, BRAIDED MASON'S LINE, BRAIDED DRAPERY CORD, TWISTED COTTON ROPE, CHALK LINE, AND SEINE TWINE.
Claims use since 1934.

Ser. No. 459,700. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Apr. 8, 1943.

COUNTER-PAK

The word "Pak" and the representation of the goods are disclaimed apart from the mark.
FOR ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER.
Claims use since Oct. 12, 1939.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 450,442. THE CELOTEX CORPORATION, Chicago, Ill. Filed Jan. 24, 1942.

CELOTEX

FOR FIBER WALL BOARD, FLOORING AND WAINSCOATING; ACOUSTICAL CORRECTION TILE; FIBER BOARD SOUND INSULATION AND PLASTER BASE; WOOD AND FIBER MOLDINGS; FIBER HARD BOARD; MINERAL WOOL; ASPHALT SHINGLES, SIDING AND ROLL FELT ROOFING; BUILDING AND SHEATHING PAPERS; ASBESTOS ROOF CEMENT; ASPHALT ROOF CEMENT; GYPSUM PLASTER, GYPSUM WALL BOARD, PLASTER BOARD AND LATH; GYPSUM ACCELERATOR AND RETARDER; AND METAL RETAINING STRIPS, SPLINES AND MINIATURE BEAMS FOR THE ERECTION OF PREFABRICATED TILE.
Claims use to fiber products—namely, fiber wall board since Oct. 14, 1938; to flooring since February, 1938, and wainscoating since Feb. 2, 1940; to acoustical correction tile since May, 1937; to fiber board sound insulation and plaster base since August, 1932; to wood and fiber moldings since March, 1938; to fiber hard board since September, 1928; to mineral wool since May, 1938; to asphalt shingles, siding and roll felt roofing since Aug. 30, 1938; to building and sheathing papers since Sept. 1, 1938; to asbestos roof cement Sept. 2, 1938; to asphalt roof cement Sept. 8, 1938; to gypsum plaster, gypsum wall board, plaster board and lath since Sept. 13, 1939; to gypsum accelerator since Nov. 25, 1939; to retarded since Nov. 7, 1939; and to metal retaining strips, splines and miniature beams for the erection of prefabricated tile since Oct. 31, 1939.

Ser. No. 451,352. SUPERIOR SASH AND SCREEN COMPANY, Detroit, Mich. Filed Mar. 2, 1942.

"UNIQUE" WINTER WINDOWS

The words "Winter Windows" are disclaimed apart from the mark.
FOR STORM WINDOWS.
Claims use since 1935.

Ser. No. 452,242. W. J. DENNIS & COMPANY, Chicago, Ill. Filed Apr. 9, 1942.

PLASTEEL

FOR WALLBOARD MOULDINGS.
Claims use since Jan. 15, 1942.

Ser. No. 459,557. IPIK PLYWOOD CORPORATION, New Orleans, La. Filed Nov. 2, 1942.



FOR PLYWOOD PANELS.
Claims use since Aug. 29, 1942.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 455,151. ACME STEEL COMPANY, Chicago, Ill. Filed Aug. 28, 1942.



No claim is made to the words "Look For," "Steel," "Steel Co.," "Chicago," or "On The Seal" or to the representation of the goods apart from the mark.
FOR METAL STRAPPING EMPLOYED IN REINFORCING BOXES, CRATES, BALES AND PACKAGES, AND IN LOADING FREIGHT CARS AND OTHER CARRIERS.
Claims use since July 24, 1941.

Ser. No. 458,303. OLIVER C. ECKEL, doing business as Stic-Klip Mfg. Company, Cambridge, Mass. Filed Feb. 2, 1943.

STIC-KLIP

No claim is made to the word "Klip" apart from the mark.
FOR METAL CLIPS FOR THE ERECTION OF INSULATING MATERIAL NEXT TO A CEILING OR WALL OR AIR DUCT.
Claims use since Jan. 10, 1943.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,182. H. R. WILLIAMS, doing business as Fusion Engineering, Cleveland, Ohio. Filed Mar. 17, 1943.

LoFLO

FOR ALLOYS FOR SILVER BRAZING AND SOLDERING.
Claims use since Dec. 2, 1942.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 456,485. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y. Filed Oct. 28, 1942. Under section 5b of the act of 1905 as amended in 1920.

Barrett

FOR PAINTS—NAMELY, BITUMINOUS PAINTS, PROTECTIVE PAINTS, READY MIXED PAINTS, AND OILS USED AS VEHICLES IN MAKING STAINS.
Claims use since June 1936 on said paints; and since December 1941 on said oils.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 457,817. UNITED AIRCRAFT CORPORATION, East Hartford, Conn. Filed Jan. 8, 1943.

DUAL-HYDROMATIC

No claim is made to the word "Dual" alone.
FOR AIRCRAFT PROPELLERS, PARTS AND ATTACHMENTS THEREFOR.
Claims use since Oct. 20, 1942.

Ser. No. 457,818. UNITED AIRCRAFT CORPORATION, East Hartford, Conn. Filed Jan. 8, 1943.

MULTIMATIC

FOR AIRCRAFT PROPELLERS, PARTS AND ATTACHMENTS THEREFOR.
Claims use since Oct. 20, 1942.

Ser. No. 457,819. UNITED AIRCRAFT CORPORATION, East Hartford, Conn. Filed Jan. 8, 1943.

SUPER-HYDROMATIC

FOR AIRCRAFT PROPELLERS, PARTS AND ATTACHMENTS THEREFOR.
Claims use since Oct. 20, 1942.

Ser. No. 459,181. VULTEE AIRCRAFT, INC., Vultee Field, Calif. Filed Mar. 17, 1943.

VENGEANCE

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since May 27, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 451,857. THE RELIANCE ELECTRIC & ENGINEERING COMPANY, Cleveland, Ohio. Filed Mar. 23, 1942.

V S

FOR DYNAMO-ELECTRIC ADJUSTABLE SPEED DRIVE COMPRISING ONE OR MORE MOTORS AND A VOLTAGE CONTROL GENERATING UNIT.
Claims use since November 1938.

Ser. No. 456,656. THE MAGNAVOX COMPANY, Fort Wayne, Ind. Filed Nov. 5, 1942.

MAGNAVOX

No claim is made to the representation of the horn device apart from the mark.
FOR RADIO AND RADIO-PHONOGRAPH SETS RECEIVING AND TRANSMITTING, AUDIO FREQUENCY AMPLIFIERS, LOUD SPEAKERS, ELECTRICAL AND MAGNETIC, AND PARTS THEREOF, TELEPHONE RECEIVERS AND TRANSMITTERS BOTH WIRE AND WIRELESS, ELECTROLYTIC CAPACITORS, ELECTRONIC APPARATUS AS USED IN RADIO COMMUNICATION APPARATUS, AIRCRAFT TELEPHONES, DESK TELEPHONES, ANTINOISE TELEPHONES.
Claims use since June 14, 1921.

Ser. No. 457,368. PRICE BROS., INC., Frederick, Md. Filed Dec. 12, 1942.

THE STAMINA OF THE NORTH
"HUSKY"
RADIO CONTROLS

No claim is made for the words "Radio Controls" apart from the mark.
FOR MAGNETIC CONTROLS FOR PRODUCING MECHANICAL MOVEMENTS FOR OPERATING ELECTRIC SWITCHES AND RELAYS.
Claims use since Oct. 18, 1942.

Ser. No. 458,212. SPIEGEL, INC., Chicago, Ill. Filed Jan. 28, 1943.

FORTRESS

FOR AUTOMOBILE REPLACEMENT STORAGE BATTERIES.
Claims use since August 1942.

Ser. No. 458,784. S. C. JOHNSON & SON, INC., Racine, Wis. Filed Feb. 26, 1943.

Streamliner

FOR ELECTRIC FLOOR POLISHING MACHINES.
Claims use since Sept. 15, 1941.

Ser. No. 459,009. THE L. MARTIN CO. INC., New York, N. Y. Filed Mar. 10, 1943.

HALO

FOR CARBON BLACK IN THE FORM OF DRY, FLUFFY POWDER USED AS THE CONDUCTING CARBON FOR DEPOLARIZING MIX IN DRY CELL BATTERIES.
Claims use since Jan. 15, 1943.

Ser. No. 459,106. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Mar. 15, 1943. Under section 5b of the act of 1905 as amended in 1920.

STEWART

FOR ELECTRIC FURNACES.
Claims use since May 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 459,495. GEORGE P. NISSEN, Cedar Rapids, Iowa. Filed Mar. 29, 1943.

NISSEN TRAMPOLINE

The surname "Nissen" is disclaimed apart from the mark and the representation of the metal plate is disclaimed per se.
FOR TUMBLING DEVICES CONSISTING OF CANVAS SHEET STRETCHED BY SPRINGS IN A RIGID FRAMEWORK.
Claims use since Mar. 27, 1935.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 434,720. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Aug. 6, 1940.

IRWIN LOCKHEAD

Applicant is owner of trade-mark registration #65,244, effected under the 10-year proviso of the act of February 20, 1905, and renewed for the mark "Irwin."
FOR EXPANSIVE BITS.
Claims use since June 29, 1940.

Ser. No. 452,418. JAMES DONALDSON COMPANY, INC., New York, N. Y. Filed Apr. 18, 1942.

BURA-WAY

FOR GRINDING MACHINES AND PARTS THEREOF.
Claims use since Apr. 13, 1942.

Ser. No. 457,607. JOHN H. FLYNN, Cincinnati, Ohio. Filed Dec. 26, 1942.

FEDERAL

FOR PULLEY-BLOCKS.
Claims use since Apr. 15, 1941.

Ser. No. 458,069. LOUIS GURRIERI, doing business as L. Gurrieri Co., New York, N. Y. Filed Jan. 21, 1943.

COOKIE HIFFY ROLLER

No claim is made to the words "Cookie" and "Roller" apart from the mark.
FOR COOKIE ROLLING PINS.
Claims use since June 1940.

Ser. No. 458,407. RELIANCE RUBBER COMPANY, Emeryville, Calif. Filed Feb. 8, 1943.

RELIAPOL

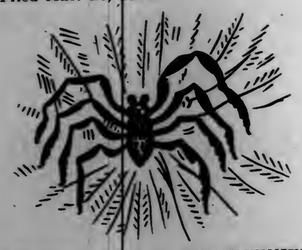
FOR SYNTHETIC RUBBER ROLLERS FOR PRINTING PRESSES, FOOD-PACKAGING MACHINERY, VARNISHING MACHINES AND WRINGING MACHINES, SYNTHETIC RUBBER DIAPHRAGMS FOR REGULATORS AND PUMPS, AND MOLDED SYNTHETIC RUBBER LINING ADAPTED FOR USE IN MACHINERY SO AS TO FORM A PART THEREOF.
Claims use since Nov. 1, 1942.

Ser. No. 458,677. BUCYRUS-ERIE COMPANY, Wilmington, Del., and South Milwaukee, Wis. Filed Feb. 22, 1943.

DOZER-SHOVEL

The word "Shovel" is disclaimed apart from the mark.
FOR POWER SHOVELS.
Claims use since Dec. 17, 1941.

Ser. No. 459,367. GRAEF & SCHMIDT, INC., New York, N. Y. Filed Mar. 26, 1943.



FOR CUTLERY—NAMELY, POCKETKNIVES, PENKNIVES, SHEARS, AND SCISSORS.
Claims use since Oct. 1, 1888.

Ser. No. 459,479. THE MOTCH & MERRYWEATHER MACHINERY COMPANY, Cleveland, Ohio. Filed Mar. 29, 1943.

Triple-Chip

FOR SAWS FOR CUTTING METAL, METAL SAW DISCS AND BLADES.
Claims use since Jan. 6, 1943.

Ser. No. 459,698. WILLIAM ALBERT WURSTER, Portsmouth, Ohio. Filed Apr. 7, 1943.

UNCLE AL'S HO-RAKE

The phrase "Ho-Rake" is disclaimed apart from the mark.
FOR COMBINED HOE AND RAKE.
Claims use since Oct. 14, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 451,531. EVERSHED & VIGNOLES LIMITED, London, England. Filed Mar. 10, 1942.

MEG

FOR ELECTRICAL APPARATUS FOR TESTING INSULATION RESISTANCE AND ELECTRICAL APPARATUS FOR TESTING EARTH RESISTANCE, EACH COMPRISING AN ELECTRIC GENERATOR AND AN ELECTRIC MEASURING INSTRUMENT.
Claims use since October 1922.

Ser. No. 456,556. GENERAL ANILINE & FILM CORPORATION, New York and Binghamton, N. Y. Filed Oct. 31, 1942.

ANSCO COLOR FILM

The words "Color Film" are disclaimed apart from the mark.
FOR SENSITIZED PHOTOGRAPHIC FILM.
Claims use since July 1942.

Ser. No. 458,150. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Jan. 25, 1943.



FOR SENIOR TITRIMETER, AN ELECTROMETRIC TITRATION INSTRUMENT; INFRA-REDIATOR, A HEATING DEVICE EMPLOYING INFRA-RED LAMPS; A. C. MODEL ELECTROPHOTOMETER; ELECTROPODE, AND ELECTROMETRICAL INSTRUMENT EMPLOYING THE MERCURY FALLING DROP PRINCIPLE; ELECTRO-ANALYZER, AN ELECTRICAL DEVICE FOR PLATING METALS FROM SOLUTIONS; ELECTRO-HEMOMETER; KLINE-TEST ROTATOR, A DEVICE FOR MECHANICALLY AGITATING MICROSCOPE SLIDES; KAHN SHAKER, A DEVICE FOR MECHANICALLY SHAKING TEST TUBES; AND REFRACTOMETER.
Claims use since Sept. 1, 1936.

Ser. No. 458,285. RAY CONTROL COMPANY, Pasadena, Calif. Filed Feb. 1, 1943.



FOR OPTICAL ELEMENTS—NAMELY, MIRRORS AND FLATS.
Claims use since Aug. 18, 1942.

Ser. No. 458,787. ROGER E. LORENZEN, doing business as Lorenzen Industries, Niles, Mich. Filed Feb. 26, 1943.

FLYTOMETER

FOR ATTITUDE INDICATING INSTRUMENTS FOR AIRCRAFT.
Claims use since July 1, 1941.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 449,587. RETAIL CLERKS INTERNATIONAL PROTECTIVE ASSOCIATION, La Fayette, Ind. Filed Dec. 18, 1941. Under 10-year proviso and under the act of February 20, 1905, as amended June 10, 1938.



The drawing is lined for red and blue.
FOR JEWELRY—NAMELY, TIE CLASPS, ORNAMENTAL COIN KNIVES, BUTTONS, PINS, AND CHARMS, MADE OF OR PLATED IN WHOLE OR IN PART WITH PRECIOUS METAL.
Claims use since July 15, 1891.

Ser. No. 459,337. GLOBE NOVELTY HOUSE, New York, N. Y. Filed Mar. 25, 1943. Under section 5b of the act of 1905 as amended in 1920 as to the word "London."

ROYAL London

FOR MEN'S ORNAMENTAL JEWELRY—NAMELY, TIE CLASPS, CUFF LINKS, COLLAR CLASPS, FOBS, STUDS, TIE PINS, TIE BARS, TIE HOLDERS, KEY CHAINS, TIE CHAINS, BUCKLES, COLLAR HOLDERS, COLLAR PINS, COLLAR BUTTONS, WRIST BANDS, SCARF PINS, FINGER RINGS, AND WATCH CHAINS.
Claims use since Jan. 2, 1940.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 458,611. I. M. HESCHELES, INC., New York, N. Y. Filed Feb. 18, 1943.

RECOBIN

FOR PORTABLE FILE CABINET FOR PHONOGRAPH RECORDS.
Claims use since Jan. 29, 1943.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 433,104. NATIONAL WELDING EQUIPMENT CO., San Francisco, Calif. Filed June 17, 1940.

Koolite

FOR GAS BLOW PIPES AND HANDLES AND BASES THEREFOR.
Claims use since February 1936.

Ser. No. 455,895. UNITED AIRCRAFT PRODUCTS, INC., Dayton, Ohio. Filed Oct. 1, 1942.

UAP UNITED AIRCRAFT PRODUCTS INC.

FOR OIL TEMPERATURE REGULATORS FOR REGULATING THE TEMPERATURE OF OILS USED IN AUTOMOTIVE VEHICLES OR OTHER POWER PLANTS.
Claims use since Sept. 1, 1942.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 459,300. CHARLES A. CORNELL, doing business as The Technical Rubber Company, Johnstown, Ohio. Filed Mar. 24, 1943.

TECH NON-ABRASION

The word "Non-Abrasion" is disclaimed apart from the mark.
FOR TIRE PATCHES.
Claims use since Dec. 3, 1941.

CLASS 37

PAPER AND STATIONERY

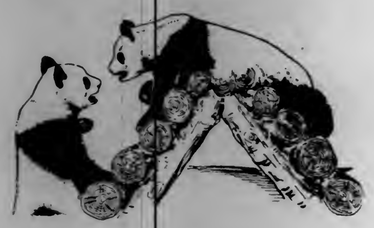
Ser. No. 454,891. HUFF, BARNES & OPIE, INC., Pittsburgh, Pa. Filed Aug. 13, 1942.

PANDA-PARCH

FOR SEMI-GREASE-PROOF PARCHMENT USED FOR WRAPPING AND PACKAGING.
Claims use since December 1914.

Ser. No. 454,892. HUFF, BARNES & OPIE, INC., Pittsburgh, Pa. Filed Aug. 13, 1942.

PANDA-PARCH

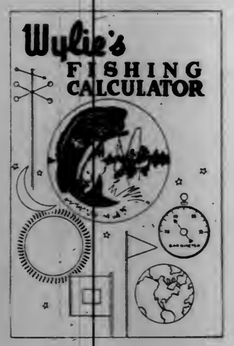


FOR SEMI-GREASE-PROOF PARCHMENT FOR WRAPPING AND PACKAGING.
Claims use since December 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 458,644. GEORGE WYLIE COMPANY, INC., Clay Center, Kans. Filed Feb. 19, 1943.



Applicant disclaims "Wylie's" and "Fishing Calculator" apart from the mark.
FOR PUBLICATION PUBLISHED ANNUALLY.
Claims use since Oct. 20, 1942.

Ser. No. 459,301. FEDERAL TELEPHONE AND RADIO CORPORATION, New York, N. Y. Filed Mar. 24, 1943.

FTR News

No claim is made to the word "News" apart from the mark.
FOR MONTHLY HOUSE ORGANS.
Claims use since Dec. 13, 1942.

CLASS 39

CLOTHING

Ser. No. 452,061. ARTHUR USHERSON, New York, N. Y. Filed Mar. 31, 1942.

MacCardel

FOR MEN'S AND BOYS' UNDERWEAR, MEN'S AND BOYS' OUTER SHIRTS, LADIES' LEISURE JACKETS AND SWEATERS, BATHING SUITS, MUFFLERS, MEN'S AND BOYS' WINDBREAKERS, MEN'S SPORT SWEATERS AND SPORT SHIRTS.
Claims use since May 1933.

Ser. No. 453,054. J. FRIEDMAN & CO., INC., New York, N. Y. Filed May 16, 1942.



FOR MEN'S AND BOYS' SUITS, COATS, VESTS, PANTS, OVERCOATS, AND TOPCOATS.
Claims use since March 1941.

Ser. No. 457,096. LORD JEFF KNITTING COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 28, 1942.

Kahara Kuna Angora

No claim is made to the words "Kuna" and "Angora" other than as a part of the mark.
FOR SWEATERS FOR MEN, WOMEN, BOYS AND GIRLS, MUFFLERS AND WRISTLETS.
Claims use since January 1938.

Ser. No. 457,098. LORD JEFF KNITTING COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 28, 1942.



The portrait is fanciful.
FOR SWEATERS FOR MEN, WOMEN, BOYS AND GIRLS, MUFFLERS, WRISTLETS, SOCKS AND COTTON BASQUE SHIRTS.
Claims use since January 1932.

Ser. No. 457,100. LORD JEFF KNITTING COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 28, 1942.

Woolhara

No claim is made to the word "Wool" other than as a part of the mark shown.
FOR SWEATERS FOR MEN, WOMEN, BOYS AND GIRLS, MUFFLERS AND WRISTLETS.
Claims use since January 1938.

Ser. No. 458,081. L. L. ROSENTHAL AND COMPANY, INC., Chicago, Ill. Filed Jan. 21, 1943.

MASTER-PACA

FOR MEN'S OVERCOATS.
Claims use since July 1, 1942.

Ser. No. 458,246. C. A. NEUBURGER COMPANY, Oshkosh, Wis. Filed Jan. 30, 1943.

FAIR SEX

FOR WOMEN'S BLOUSES, COVERALLS, SLACKS, APRONS, APRON KITS, WORK UNIFORMS, OVERALLS, DRESSES, AND SPORTSWEAR—NAMELY, OVERALLS, SLACKS, AND SLACK SUITS COMPRISING TROUSER AND JACKETS, AND BLOUSES.
Claims use since Jan. 1, 1905.

Ser. No. 458,400. A. C. MEYERS & COMPANY, Philadelphia, Pa. Filed Feb. 8, 1943.

SEVEN-IN-ONE

FOR SCARVES AND DICKEYS.
Claims use since Jan. 5, 1942.

Ser. No. 458,928. WIMELBACHER & RICE, New York, N. Y. Filed Mar. 5, 1943.

DUO-PLEX SUEDE

No claim is made to the word "Suede."
FOR LEATHER AND FABRIC GLOVES.
Claims use since December 1941.

Ser. No. 458,956. ZAKONIT, INC., Boston, Mass. Filed Mar. 6, 1943.

Lla Gora

FOR WOMEN'S, MISSES', AND CHILDREN'S KNITTED SWEATERS.
Claims use since Sept. 16, 1938.

Ser. No. 459,068. BILLIE KNITWEAR INC., New York, N. Y. Filed Mar. 13, 1943.

COMMANDEARS
BY BILLIE

FOR LADIES' AND MISSES' SWEATER, AND SWEATER ENSEMBLES CONSISTING OF COAT SWEATER AND A SLIP OVER SWEATER, SWIMMING SUITS, PLAY SUITS.
Claims use since September 1942.

Ser. No. 459,244. KIRKENDALL BOOT COMPANY, Omaha, Nebr. Filed Mar. 20, 1943.

BOMBER

FOR JODHPUR BOOTS MADE OF LEATHER.
Claims use since Feb. 2, 1943.

Ser. No. 459,304. GENERAL SPORTWEAR CO., INC., Ellenville, N. Y. Filed Mar. 24, 1943.

Romp Overs

FOR PLAY SUITS, COVERALLS, AND OVERALLS FOR CHILDREN.
Claims use since Sept. 1, 1941.

Ser. No. 459,334. MAX DAVIS & SONS, New York, N. Y. Filed Mar. 25, 1943.

"Kiss-me Beaux"

Applicant disclaims the word "Beaux" except as shown.
FOR WOMEN'S NECKTIES.
Claims use since Mar. 19, 1943.

Ser. No. 459,516. HIGHLAND KNITTING MILLS, doing business as Forrest Knitting Mills, Philadelphia, Pa. Filed Mar. 30, 1943.

HIGHLAND

Applicant is the owner of registration Number 190,199, issued Oct. 7, 1924.
FOR SWEATERS, BATHING SUITS, AND BATHING TRUNKS.
Claims use since July 27, 1922, on sweaters; and since Feb. 1, 1931, on bathing suits and bathing trunks.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 452,036. BAXTER, KELLY & FAUST, INC., New York, N. Y. Filed Mar. 31, 1942.

Cavalier Velvet

The word "Velvet" is disclaimed apart from the mark.
FOR UPHOLSTERY AND DRAPERY FABRICS—NAMELY, VELVETS, BROCATELLES, BROCADES, DAMASKS, AND FRIEZES.
Claims use since May 19, 1939.

Ser. No. 455,970. FOREMAN FABRICS, INC., New York, N. Y. Filed October 5, 1942.

Crepe Brocalure

The word "Crepe" is disclaimed apart from the mark.
FOR PIECE GOODS OF COTTON, RAYON, AND SILK, AND/OR MIXTURES THEREOF.
Claims use since Sept. 3, 1942.

Ser. No. 459,460. CALLAWAY MILLS, La Grange, Ga. Filed March 29, 1943.

"KEX" SANA-WIPE

The word "Wipe" is disclaimed apart from the mark.
FOR INDUSTRIAL WIPING TOWELS.
Claims use since Mar. 15, 1943.

CLASS 43

THREAD AND YARN

Ser. No. 459,391. AMERICAN VISCOSE CORPORATION, Wilmington, Del. Filed Mar. 27, 1943.

AVICRON

FOR YARNS, THREADS, AND YARN AND THREAD FILAMENTS.
Claims use since Mar. 18, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 424,255. HERBERT K. CLOFINE, Philadelphia, Pa. Filed Oct. 6, 1939.

SUPREME BRAND

The word "Brand" is disclaimed apart from the mark.
FOR DRIED SKIM MILK, DRIED BUTTERMILK, CONDENSED SKIM MILK, AND CONDENSED BUTTERMILK.
Claims use since Jan. 1, 1932.

Ser. No. 454,543. RIVERBANK CANNING COMPANY, Riverbank, Calif. Filed July 27, 1942.

MADONNA

FOR DRIED FRUITS, DRIED VEGETABLES, CANNED VEGETABLES, CANNED FISH, CANNED TOMATO PASTE, SPAGHETTI SAUCE, OLIVE OIL, COTTONSEED OIL, COOKED SPAGHETTI, WHEAT FLOUR, BREAKFAST CEREAL FOODS, BUTTER, SPICES, SALT, CANDY, ICE CREAM, CRACKERS, MACARONI, SPAGHETTI AND RAVIOLI.
Claims use since Jan. 22, 1923.

Ser. No. 456,947. ANTHONY A. RODERICK, Hartford, Conn. Filed Nov. 20, 1942.

ALCRIN

FOR PREPARATION MADE OF ROASTED CEREALS AND USED AS A CEREAL BEVERAGE.
Claims use since Nov. 3, 1942.

Ser. No. 458,735. MAINE POTATO GROWERS, INC., Presque Isle, Maine. Filed Feb. 24, 1943.

TOP TATER



Applicant is the owner of trade-mark registration No. 317,199. The representation of a potato and the word "Tater" are disclaimed apart from the mark.
FOR POTATOES IN THEIR NATURAL STATE.
Claims use since September 1936; and since Mar. 5, 1933, for the words "Top Tater."

Ser. No. 458,803. CHAPMAN & SMITH COMPANY, Chicago, Ill. Filed Feb. 27, 1943.

Rolling Pin

FOR MILK OF SOYA.
Claims use since Jan. 29, 1943.

Ser. No. 458,908. CHAPMAN & SMITH COMPANY, Chicago, Ill. Filed Mar. 5, 1943.



FOR MILK OF SOYA.
Claims use since Jan. 29, 1943.

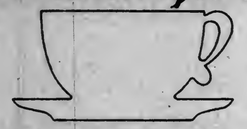
Ser. No. 459,319. GEORGE YONEO TADANO, doing business as Showa Shoyu Brewing Co., Glendale, Ariz. Filed Mar. 24, 1943.



The symbol surrounded by the circle has no literal translation in English.
FOR SOYA BEAN SAUCE FOR SEASONING FOOD.
Claims use since Dec. 2, 1941.

Ser. No. 459,385. G. WASHINGTON COFFEE REFINING COMPANY, Morris Plains, N. J. Filed Mar. 26, 1943.

G. Washington's



HOME STYLE
INSTANT COFFEE

The name "G. Washington's" is a reproduction of the generally accepted signature of George Washington, first president of the United States. The representation of a cup and the words "Home Style Instant Coffee" are disclaimed apart from the mark.
FOR COFFEE.
Claims use since Nov. 1, 1941.

Ser. No. 459,594. EXETER ORCHARDS ASS'N. INC., Exeter, Calif. Filed Apr. 3, 1943.



FOR FRESH CITRUS FRUITS.
Claims use since Dec. 1, 1942.

CLASS 47

WINES

Ser. No. 453,986. M. LEHMANN, INC., New York, N. Y. Filed July 1, 1942.



FOR CHAMPAGNES.
Claims use since Feb. 1, 1941.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 456,836. VITA-ZYME LABORATORIES, INC., Chicago, Ill. Filed Nov. 14, 1942.

N-ZYMO

FOR ENZYMES FOR IMPROVING CHILL STABILITY OF BEERS AND ALES.
Claims use since Apr. 12, 1941.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 455,785. BOHEMIAN DISTRIBUTING COMPANY, Los Angeles, Calif. Filed Sept. 26, 1942.



Mona Lisa

FOR FRUIT LIQUEUR, BRANDY AND GIN.
Claims use since Apr. 23, 1937.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 459,086. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa. Filed Mar. 13, 1943.

CARRIER

FOR PACKAGE CONSISTING OF V-MAIL STATIONERY, WRITING FLUID, AND LEADS FOR A MECHANICAL PENCIL.
Claims use since Mar. 9, 1943.

Ser. No. 459,088. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa. Filed Mar. 13, 1943.

NAVIGATOR

FOR PACKAGE CONSISTING OF V-MAIL STATIONERY, WRITING FLUID, AND LEADS FOR A MECHANICAL PENCIL.
Claims use since Mar. 9, 1943.

Ser. No. 459,089. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa. Filed Mar. 13, 1943.

TRANSPORT

FOR PACKAGE CONSISTING OF V-MAIL STATIONERY, WRITING FLUID, AND LEADS FOR A MECHANICAL PENCIL.
Claims use since Mar. 9, 1943.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 8, 1943

401,734. STORAGE BATTERIES. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed February 18, 1941. Serial No. 440,755; PUBLISHED MARCH 23, 1943. Class 21.

401,735. TOILET WATER, PERFUMES, EAU DE COLOGNE, SACHETS, AND BRILLIANTINE. MEM INCORPORATED, New York, N. Y.
Filed March 26, 1941. Serial No. 441,975. PUBLISHED MARCH 23, 1943. Class 6.

401,736. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed July 16, 1941. Serial No. 445,389. PUBLISHED MARCH 23, 1943. Class 6.

401,737. MOLASSES. COLONIAL MOLASSES CO., INC., Brooklyn, N. Y.
Filed August 15, 1941. Serial No. 446,263. PUBLISHED AUGUST 11, 1942. Class 46.

401,738. SAFETY RAZOR BLADES. COLTON RAZOR BLADE COMPANY, Boston, Mass.
Filed October 4, 1941. Serial No. 447,539. PUBLISHED NOVEMBER 25, 1941. Class 23.

401,739. FRESH VEGETABLES—NAMELY, LETTUCE. RALPH E. MYERS, doing business as Ralph E. Myers Co., Salinas, Calif.
Filed October 15, 1941. Serial No. 447,819. PUBLISHED DECEMBER 30, 1941. Class 46.

401,740. MAGAZINE PUBLISHED QUARTERLY. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed November 13, 1941. Serial No. 448,621. PUBLISHED MARCH 23, 1943. Class 38.

401,741. HEAVY BODIED AND LIGHT BODIED WATERPROOF ADHESIVES FOR CEMENTING OR ADHERING TOGETHER CONSTRUCTION MATERIALS—NAMELY, PLASTIC ADHESIVES COMPRISING A BASE OF RESINS, ETC. THE CELOTEX CORPORATION, Chicago, Ill.
Filed December 22, 1941. Serial No. 449,669. PUBLISHED MARCH 2, 1943. Class 12.

401,742. RUM. ESTHER BERGERON, doing business under the fictitious name and style of Trader Vic, Oakland, Calif.
Filed January 5, 1942. Serial No. 449,985. PUBLISHED MARCH 30, 1943. Class 49.

401,743. COMBINATION OF ENVELOPE AND LETTER-FOLDER SHEETS. PAPER PRODUCTS, Oconomowoc, Wis.
Filed January 10, 1942. Serial No. 450,142. PUBLISHED MARCH 30, 1943. Class 37.

401,744. SERVICE MANUALS PUBLISHED FROM TIME TO TIME. PHILCO CORPORATION, Philadelphia, Pa.
Filed January 22, 1942. Serial No. 450,403. PUBLISHED MARCH 23, 1943. Class 38.

401,745. GLASS AND COMBINATION GLASS AND METAL GLOBES AND REFLECTORS. HOLOPHANE COMPANY, INC., New York, N. Y.
Filed January 30, 1942. Serial No. 450,591. PUBLISHED MARCH 30, 1943. Class 34.

401,746. WHISKEY. OLD WESTON DISTILLING CO., Weston, Mo.
Filed February 2, 1942. Serial No. 450,660. PUBLISHED MARCH 30, 1943. Class 49.

401,747. READY MIXED PAINTS, VARNISHES AND PAINT ENAMELS. VITA-VAR CORPORATION, Newark, N. J.
Filed February 20, 1942. Serial No. 451,127. PUBLISHED MARCH 30, 1943. Class 16.

401,748. EDIBLE VEGETABLE OIL FOR USE AS A COOKING OIL, SEASONING OIL OR AS A SHORTENING. C. F. SIMONIN'S SONS, INC., Philadelphia, Pa.
Filed March 6, 1942. Serial No. 451,451. PUBLISHED MARCH 30, 1943. Class 46.

401,749. CARBON PAPER. FRED H. MAHLER, doing business as Allen & Company, New York, N. Y.
Filed March 24, 1942. Serial No. 451,873. PUBLISHED JULY 21, 1942. Class 11.

401,750. FRESH VEGETABLES. A. ARENA AND CO., LTD., Los Angeles, Calif.
Filed June 10, 1942. Serial No. 453,577. PUBLISHED DECEMBER 22, 1942. Class 46.

401,751. GLYCERINE SUBSTITUTE. UNITED CHEMICAL COMPANY, INC., Kansas City, Mo.
Filed July 29, 1942. Serial No. 454,586. PUBLISHED MARCH 30, 1943. Class 6.

401,752. BREAKFAST CEREALS. JERSEY CEREAL COMPANY, Chicago, Ill.
Filed August 6, 1942. Serial No. 454,757. PUBLISHED MARCH 30, 1943. Class 46.

401,753. WRITING AND PRINTING PAPER. FREDERIC T. BURKHARDT, Holyoke, Mass.
Filed August 24, 1942. Serial No. 455,064. PUBLISHED MARCH 30, 1943. Class 37.

401,754. CLEANING COMPOUND FOR USE IN WATER WITH OR WITHOUT SOAP. THE COWLES DETERGENT COMPANY, Cleveland, Ohio.
Filed September 3, 1942. Serial No. 455,299. PUBLISHED OCTOBER 27, 1942. Class 4.

401,755. FRESH CITRUS FRUITS. HILLSBOROUGH PACKING COMPANY, INC., Tampa, Fla.
Filed September 5, 1942. Serial No. 455,375. PUBLISHED MARCH 30, 1943. Class 46.

401,756. FOOD COMPOSITIONS CONTAINING CORN SYRUP SOLIDS, SUCROSE, CALCIUM SUCRATE, CALCIUM CARBONATE, MAGNESIUM OXIDE, OR LIKE INGREDIENTS FOR ADJUSTING THE SALTS BALANCE AND/OR SOLIDS CONTENT OF ICE CREAM, BUTTERMILK, COTTAGE CHEESE, AND RELATED FOODS. PURO PRODUCTS COMPANY, Chicago, Ill.
Filed September 14, 1942. Serial No. 455,517. PUBLISHED MARCH 30, 1943. Class 46.

401,757. MAGAZINE FOR COMIC STRIPS. TERRYTOONS, INC., New Rochelle, N. Y.
Filed September 16, 1942. Serial No. 455,576. PUBLISHED MARCH 30, 1943. Class 38.

401,758. THERMAL PIPE INSULATION. UNION ASBESTOS & RUBBER COMPANY, Chicago, Ill.
Filed September 18, 1942. Serial No. 455,617. PUBLISHED MARCH 30, 1943. Class 12.

401,759. CELERY. MUCKLAND CELERY COMPANY, Sarasota, Fla.
Filed September 22, 1942. Serial No. 455,694. PUBLISHED DECEMBER 8, 1942. Class 46.

401,760. UNFINISHED PLYWOOD SHAPES IN THE FORM OF SHELLS AND PANELS. HASKELITE MANUFACTURING CORPORATION, Chicago, Ill.
Filed September 24, 1942. Serial No. 455,729. PUBLISHED MARCH 30, 1943. Class 12.

401,761. VITAMIN TABLETS. LAMBERT VITAMINS COMPANY, INC., New York, N. Y.
Filed October 12, 1942. Serial No. 456,150. PUBLISHED MARCH 30, 1943. Class 6.

401,762. WATCHES, PARTS THEREOF, WATCH MOVEMENTS, AND CLOCKS. EMIL VON BURG, doing business as American Grana Watch Company, New York, N. Y.
Filed October 22, 1942. Serial No. 456,349. PUBLISHED MARCH 30, 1943. Class 27.

401,763. ELECTRIC FLOOR POLISHING MACHINES. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed October 31, 1942. Serial No. 456,560. PUBLISHED MARCH 30, 1943. Class 21.

401,764. IRONING TABLE PADS AND COVERS. WELMAID PRODUCTS, Chicago, Ill.
Filed November 4, 1942. Serial No. 456,644. PUBLISHED MARCH 30, 1943. Class 24.

401,765. IRONING TABLE PADS AND COVERS. WELMAID PRODUCTS, Chicago, Ill.
Filed November 4, 1942. Serial No. 456,645. PUBLISHED MARCH 23, 1943. Class 24.

401,766. MODEL AIRPLANES—NAMELY, MINIATURE AIRPLANES FOR CLASSROOM INSTRUCTION WORK. COMET MODEL AIRPLANE & SUPPLY COMPANY, INCORPORATED, Chicago, Ill.
Filed November 14, 1942. Serial No. 456,820. PUBLISHED MARCH 23, 1943. Class 26.

401,767. PETROLEUM SOLVENT IN THE FORM OF A CHEMICAL PETROLEUM COMPOUND FOR REMOVING RUST FORMATIONS AND GUMMY DEPOSITS, ETC. GEORGE F. HUTTER, doing business as The George F. Hutter Company, Buffalo, N. Y.
Filed November 18, 1942. Serial No. 456,889. PUBLISHED MARCH 23, 1943. Class 6.

401,768. DEXTROSE WAFERS. WILLIAM H. MACFARLAND, SR., Philadelphia, Pa.
Filed November 24, 1942. Serial No. 457,009. PUBLISHED MARCH 30, 1943. Class 46.

401,769. TESTING AND COMBINED CHARGING AND TESTING APPARATUS FOR STORAGE BATTERIES. THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia, Pa.
Filed November 26, 1942. Serial No. 457,062. PUBLISHED MARCH 23, 1943. Class 26.

401,770. FUEL OIL CONDITIONER ACTING AS A NON-CORROSIVE SOLVENT WHICH DISSOLVES CARBON AND GUM DEPOSITS. GENERAL PAINT & VARNISH CO., doing business as Kwikote Products, Chicago, Ill.
Filed November 27, 1942. Serial No. 457,079. PUBLISHED MARCH 23, 1943. Class 6.

401,771. SHAVING CREAM. ABRAHAM S. FREEMAN, doing business as Beacon Sales Company, Cleveland, Ohio.
Filed November 30, 1942. Serial No. 457,118. PUBLISHED MARCH 30, 1943. Class 4.

401,772. ARTISTS' MATERIALS—NAMELY, ALL KINDS OF ARTISTS' COLORS. LEONARD BOGDANOFF, New York, N. Y.
Filed December 14, 1942. Serial No. 457,378. PUBLISHED MARCH 30, 1943. Class 16.

401,773. PRODUCT USED TO PREVENT HEMORRHAGE. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 14, 1942. Serial No. 457,396. PUBLISHED MARCH 23, 1943. Class 6.

401,774. PRODUCT TO SUPPLY SUPPLEMENTARY CALCIUM, PHOSPHORUS, IRON, AND VITAMIN D. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 14, 1942. Serial No. 457,397. PUBLISHED MARCH 23, 1943. Class 6.

401,775. PRODUCT USED TO PREVENT HEMORRHAGE. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 14, 1942. Serial No. 457,399. PUBLISHED MARCH 23, 1943. Class 6.

401,776. PRODUCT USED TO INCREASE THE FLOW OF BILE. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 14, 1942. Serial No. 457,401. PUBLISHED MARCH 23, 1943. Class 6.

401,777. PRODUCT FOR LOCAL APPLICATION TO EFFECT GRANULATION AND HEALING. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 14, 1942. Serial No. 457,402. PUBLISHED MARCH 23, 1943. Class 6.

401,778. SHREDDED BARK FIBER. THE PACIFIC LUMBER COMPANY, San Francisco, Calif.
Filed December 15, 1942. Serial No. 457,420. PUBLISHED MARCH 30, 1943. Class 1.

401,779. MEAT AND VEGETABLE EXTRACT. SUNDOX PRODUCTS LIMITED, Gateshead, England.
Filed December 15, 1942. Serial No. 457,425. PUBLISHED MARCH 30, 1943. Class 46.

401,780. ELECTRIC SWITCHES. MICRO SWITCH CORPORATION, Freeport, Ill.
Filed December 18, 1942. Serial No. 457,503. PUBLISHED MARCH 16, 1943. Class 21.

401,781. GERMICIDAL AND FUNGICIDAL PREPARATIONS. MEDICAL CHEMICALS, INC., Baltimore, Md.
Filed December 19, 1942. Serial No. 457,526. PUBLISHED MARCH 30, 1943. Class 6.

401,782. SPECIAL PURPOSE FOOD, AUXILIARY OR DIETARY SUPPLEMENT FOOD FOR HUMAN CONSUMPTION, CONTAINING DRIED PEAS, CARROTS, CELERY, ETC. DELANE BROWN, INC., Towson, Md.
Filed December 23, 1942. Serial No. 457,572. PUBLISHED MARCH 30, 1943. Class 46.

401,783. AUTOMATIC TESTER FOR USE WITH ALL TYPES OF ELECTRONIC EQUIPMENT ENABLING UNSKILLED WORKERS TO MAKE HIGH SPEED TESTS FOR CIRCUIT WIRING ERRORS, PROPER RESISTANCE, CAPACITY, AND INDUCTANCE VALUES. COMMUNICATION MEASUREMENTS LABORATORY, New York, N. Y.
Filed December 26, 1942. Serial No. 457,601. PUBLISHED MARCH 30, 1943. Class 26.

401,784. BLASTING CAP PROTECTORS AND DEVICES FOR CARRYING AND APPLYING THE SAME. JOHN S. CURTISS, El Paso, Tex.
Filed December 26, 1942. Serial No. 457,603. PUBLISHED MARCH 30, 1943. Class 9.

401,785. BOOKS—NAMELY, DICTIONARIES. G. & C. MERRIAM COMPANY, Springfield, Mass.
Filed December 28, 1942. Serial No. 457,628. PUBLISHED MARCH 23, 1943. Class 38.

401,786. PREPARATION FOR USE IN THE TREATMENT OF INAPPETENCE, GENERAL DEBILITY, EXHAUSTION, ANEMIA, NEURASTHENIA, NERVOUS DEPRESSION, DURING CONVALESCENCE. THE SYDNEY ROSS CO., Newark, N. J.
Filed December 30, 1942. Serial No. 457,659. PUBLISHED MARCH 30, 1943. Class 6.

401,787. COMPOSITION FOR RETARDING AND INHIBITING THE GROWTH AND DEVELOPMENT OF MOLD IN FOODS AND FOR PRESERVING OTHER PRODUCTS SUSCEPTIBLE TO THE GROWTH OF MOLD SOLD IN THE FORM OF A POWDER PREPARATION. STEIN, HALL MANUFACTURING COMPANY, Chicago, Ill.
Filed December 30, 1942. Serial No. 457,664. PUBLISHED MARCH 23, 1943. Class 6.

401,788. B VITAMINS. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 31, 1942. Serial No. 457,683. PUBLISHED MARCH 23, 1943. Class 6.

401,789. MEDICINAL PREPARATION IN TABLET FORM FOR PROPHYLAXIS AGAINST HEAT EXHAUSTION. LIBERTY VITAMIN CORPORATION, New York, N. Y.
Filed January 5, 1943. Serial No. 457,765. PUBLISHED MARCH 30, 1943. Class 6.

401,790. SMOKING TOBACCO. COSMETICS RESEARCH CORPORATION, also doing business as Don Leslie, West Haven, Conn., and New York, N. Y.
Filed January 8, 1943. Serial No. 457,806. PUBLISHED MARCH 30, 1943. Class 17.

401,791. JEWELRY—NAMELY, EXPANSION BRACELETS. ARTHUR ALBANESE, doing business as Marvel Jewelry Mfg. Company, Providence, R. I.
Filed January 12, 1943. Serial No. 457,868. PUBLISHED MARCH 30, 1943. Class 28.

401,792. WHEAT FLOUR. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed January 13, 1943. Serial No. 457,895. PUBLISHED MARCH 30, 1943. Class 46.

401,793. VITAMIN CAPSULES. THE GROVE LABORATORIES, INC., doing business as Beaumont Company, Wilmington, Del., and St. Louis, Mo.
Filed January 14, 1943. Serial No. 457,914. PUBLISHED MARCH 30, 1943. Class 6.

401,794. BRAZING AND WELDING FLUX. AIR REDUCTION SALES COMPANY, New York, N. Y.
Filed January 15, 1943. Serial No. 457,926. PUBLISHED MARCH 16, 1943. Class 6.

401,795. MEDICINAL PREPARATION POSSESSING HEALING PROPERTIES AND BEING A HEALING PREPARATION FOR INJURIES AND ACUTE AND CHRONIC INFLAMMATORY AFFECTIONS. THE DENVER CHEMICAL MANUFACTURING COMPANY, New York, N. Y.
Filed January 15, 1943. Serial No. 457,931. PUBLISHED MARCH 23, 1943. Class 6.

401,796. ASH TRAYS. MCDONALD PRODUCTS CORPORATION, Buffalo, N. Y.
Filed January 15, 1943. Serial No. 457,938. PUBLISHED MARCH 30, 1943. Class 8.

401,797. COMIC MAGAZINES OF CARTOONS, COMIC AND CARTOON STRIPS, PUZZLES, GAMES, TRICKS OF MAGIC, STORIES, LESSONS, ADVERTISEMENTS, ETC., PUBLISHED IN A SERIES. FAMOUS FUNNIES, INC., Waterbury, Conn.
Filed January 16, 1943. Serial No. 457,950. PUBLISHED MARCH 30, 1943. Class 38.

401,798. WHEAT MEAL IN GRANULAR FORM FOR USE IN THE MANUFACTURE OF ALCOHOL. INTERNATIONAL MILLING COMPANY, Minneapolis Minn.
Filed January 18, 1943. Serial No. 457,976. PUBLISHED MARCH 30, 1943. Class 1.

401,799. EGG SUBSTITUTE DERIVED FROM MILK, MAIZE, AND SODA AND USED IN BAKING AND COOKING. CHARLES T. MORRISSEY, doing business as Charles T. Morrissey & Company, Chicago, Ill.
Filed January 18, 1943. Serial No. 457,985. PUBLISHED MARCH 30, 1943. Class 46.

401,800. METAL POLISH. OIL SPECIALTIES & REFINING CO., INC., Brooklyn, N. Y.
Filed January 18, 1943. Serial No. 457,988. PUBLISHED MARCH 30, 1943. Class 4.

401,801. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y.
Filed January 20, 1943. Serial No. 458,034. PUBLISHED MARCH 30, 1943. Class 6.

401,802. AMMONIA SUBSTITUTE. SEEMAN BROTHERS, INC., New York, N. Y.
Filed January 21, 1943. Serial No. 458,082. PUBLISHED MARCH 30, 1943. Class 6.

401,803. NEWSPAPER SECTION OR DEPARTMENT. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed January 22, 1943. Serial No. 458,101. PUBLISHED MARCH 23, 1943. Class 38.

401,804. STEATITE INSULATORS USED AS COMPONENT PARTS OF RADIO SETS. THE NATIONAL TILE COMPANY, Anderson, Ind.
Filed January 23, 1943. Serial No. 458,119. PUBLISHED MARCH 30, 1943. Class 21.

401,805. ACETYLCHOLINE BROMIDE, AMINOPHYLLINE, BISMUTH METAL, BISMUTH SALICYLATE IN OIL, ETC. BURROUGHS WELLCOME & CO. (U. S. A.) INC., New York, N. Y.
Filed January 26, 1943. Serial No. 458,170. PUBLISHED MARCH 16, 1943. Class 6.

401,806. VITAMIN B COMPLEX CAPSULES, BREWERS' YEAST TABLETS, MINERAL OIL FOR MEDICINAL PURPOSES, HALIBUT LIVER OIL CAPSULES, AND IMPROVED A, B_1, D, AND G(B_2) VITAMIN CAPSULES. GAMBLE STORES INCORPORATED, Minneapolis, Minn.
Filed January 26, 1943. Serial No. 458,174. PUBLISHED MARCH 30, 1943. Class 6.

401,807. VITAMIN CAPSULES. THE GROVE LABORATORIES, INC., doing business as Beaumont Company, Wilmington, Del., and St. Louis, Mo.
Filed January 27, 1943. Serial No. 458,190. PUBLISHED MARCH 30, 1943. Class 6.

401,808. CEREAL BEVERAGE PREPARATION SUITABLE FOR USE WITH, OR AS A SUBSTITUTE FOR, COFFEE FOR MAKING A TABLE BEVERAGE. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed January 27, 1943. Serial No. 458,201. PUBLISHED MARCH 30, 1943. Class 46.

401,809. PAPER FOR TOILET PURPOSES—NAMELY, TOILET TISSUES AND PAPER TOWELS. A. P. W. PAPER COMPANY, INC., Albany, N. Y.
Filed January 28, 1943. Serial No. 458,204. PUBLISHED APRIL 6, 1943. Class 37.

401,810. PERIODICAL. YOUTHS ASSOCIATES CO., Minneapolis, Minn.
Filed January 28, 1943. Serial No. 458,215. PUBLISHED MARCH 23, 1943. Class 38.

401,811. LIQUID AND PASTE PAINTS, PAINT PRIMERS, PAINT ENAMELS AND LACQUERS, AND VARNISHES. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed January 29, 1943. Serial No. 458,226. PUBLISHED MARCH 30, 1943. Class 16.

401,812. UNITARY, DETACHABLE, FILLED, RADIO-SHIELDED SPARK PLUG LEADS FOR THE IGNITION OF INTERNAL COMBUSTION ENGINES. TITEFLEX METAL HOSE CO., Newark, N. J.
Filed January 30, 1943. Serial No. 458,255. PUBLISHED MARCH 30, 1943. Class 21.

401,813. MIXED FRUIT AND VEGETABLE JUICE. LA CHOY FOOD PRODUCTS, INC., Archbold, Ohio.
Filed February 1, 1943. Serial No. 458,272. PUBLISHED MARCH 30, 1943. Class 46.

401,814. SOUVENIR PROGRAM, ISSUED PERIODICALLY. HEY-RUBE, INC., Tulsa, Okla.
Filed February 2, 1943. Serial No. 458,304. PUBLISHED MARCH 30, 1943. Class 38.

401,815. FROZEN CONFECTIONS. JOE LOWE CORPORATION, New York, N. Y.
Filed February 4, 1943. Serial No. 458,334. PUBLISHED MARCH 30, 1943. Class 46.

401,816. ANESTHETIC PREPARATIONS, PREPARATIONS FOR DETERMINING BLOOD CLOTTING CAPACITY, AND PREPARATIONS FOR THE TREATMENT OF DEFICIENCIES OF VITAMIN B COMPLEX FACTORS, IN INSTANTLY SOLUBLE FORM. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed February 4, 1943. Serial No. 458,350. PUBLISHED MARCH 30, 1943. Class 6.

401,817. SOUPS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed February 6, 1943. Serial No. 458,373. PUBLISHED MARCH 30, 1943. Class 46.

401,818. MEDICINAL PREPARATION USED FOR THE RELIEF OF FUNCTIONAL GASTRO-INTESTINAL DISORDERS CAUSED BY HYPERACIDITY. THE FRYE COMPANY, Watertown, Mass.
Filed February 10, 1943. Serial No. 458,458. PUBLISHED MARCH 30, 1943. Class 6.

401,819. SOLUTION CONTAINING CHEMICAL INGREDIENTS FOR STRENGTHENING, FEEDING, AND PROMOTING THE DEVELOPMENT OF CUT PLANTS. FLOWER FOODS, INC., Maywood, Ill.
Filed February 12, 1943. Serial No. 458,491. PUBLISHED MARCH 30, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,820. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) MALCOLM FRASER & CO. LIMITED, London, England. Filed July 8, 1940. Serial No. 433,754.



FOR WHISKY.
Claims use since 1930.

401,821. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE PIONEER RUBBER COMPANY, Willard, Ohio. Filed Mar. 26, 1941. Serial No. 441,978.



FOR SURGEONS' RUBBER GLOVES.
Claims use since October, 1939.

401,822. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CEROPHYL LABORATORIES, INC., Kansas City, Mo. Filed June 18, 1941. Serial No. 444,631.

GRAS

FOR VITAMIN AND MINERAL SUPPLEMENT DOG FOOD.
Claims use since June 11, 1941.

401,823. (CLASS 12. CONSTRUCTION MATERIALS.) NU-FORM ENGINEERING CORPORATION, New York, N. Y. Filed Feb. 6, 1942. Serial No. 450,809.

SAVALIFE SHELTER

FOR KNOCKDOWN INDOOR AIR RAID SHELTERS.
Claims use since Jan. 15, 1942.

401,824. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed Mar. 7, 1942. Serial No. 451,460.

THE MEN'S STORE
Toggery Shop
CARSON PIRIE SCOTT & CO.

FOR MEN'S SPORTSWEAR—NAMELY, POLO AND SPORT SHIRTS, SPORT COATS, SLACK SUITS INCLUDING SPORT SHIRTS AND TROUSERS, SWEATERS, NECKTIES, UNDERSHIRTS, UNDER AND OUTER SHORTS, AND LUMBERJACKS.
Claims use since Aug. 1, 1941.

401,825. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED STATES NEWS PUBLISHING CORPORATION, Washington, D. C. Filed Mar. 16, 1942. Serial No. 451,661.

U. S. WEEKLY

FOR PERIODICAL PUBLICATIONS.
Claims use since Mar. 13, 1942.

401,826. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MICROMATIC HONE CORPORATION, Detroit, Mich. Filed Mar. 30, 1942. Serial No. 452,019.

CO-DIRECTIONAL

FOR HONING TOOL.
Claims use since Jan. 21, 1941.

401,827. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MICROMATIC HONE CORPORATION, Detroit, Mich. Filed Mar. 30, 1942. Serial No. 452,020.

DRAW-FINISH

FOR HONING TOOL.
Claims use since Jan. 21, 1941.

401,828. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GAMBLE STORES INCORPORATED, Minneapolis, Minn. Filed Mar. 31, 1942. Serial No. 452,041.

GAMBLE'S

FOR LIQUID FLY SPRAY.
Claims use since June, 1938.

401,829. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. L. FRY, St. Louis, Mo. Filed Apr. 27, 1942. Serial No. 452,609.

ANTI-CO-RODE

FOR DRY CHEMICAL COMPOUND TO PREVENT AND REMOVE SULPHATED LEAD ACCUMULATING ON STORAGE BATTERY PLATES.
Claims use since Jan. 26, 1942.

401,830. (CLASS 27. HOROLOGICAL INSTRUMENTS.) R. GSELL & CO., INC., New York, N. Y. Filed May 19, 1942. Serial No. 453,109.

ORVIN

FOR WATCHES AND WATCH MOVEMENTS, WATCHCASES, AND PARTS THEREOF.
Claims use since Sept. 5, 1933.

401,831. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AVON PRODUCTS, INC., New York, N. Y. Filed July 4, 1942. Serial No. 454,050.

AVON

TOP-COAT

FOR NAIL POLISH PRESERVER.
Claims use since Apr. 1, 1942.

401,832. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROGER KENNA, doing business as Kenro Products, New Haven, Conn. Filed July 13, 1942. Serial No. 454,193.

effer-vess

FOR DENTURE CLEANSER.
Claims use since Apr. 1, 1942.

401,833. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) STITZEL-WELLER DISTILLERY, Louisville and Shively, Ky. Filed Sept. 4, 1942. Serial No. 455,352.

OLD FITZ

FOR DISTILLED LIQUORS—NAMELY, WHISKEY.
Claims use since Mar. 21, 1942.

401,834. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) KARLAN & BLEICHER, INC., New York, N. Y. Filed Sept. 16, 1942. Serial No. 455,566.



FOR RING FINDINGS—NAMELY, BOX-TOP, SHANK, SIDE-PIECES, SETTING, BEZEL, AND FRAME THAT MAY FORM PART OF A RING MADE OF PRECIOUS METAL.
Claims use since Jan. 2, 1939.

401,835. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD M. CROSBY, New York, N. Y. Filed Oct. 2, 1942. Serial No. 455,909.

Kromo-Lite

FOR CHEMICAL MATERIALS, SUPPLIES, AND PREPARATIONS UTILIZED IN THE MAKING OF HIGHLIGHT HALFTONES, UNDER AN INVENTED PROCESS OWNED BY THE APPLICANT.
Claims use since Sept. 24, 1941.

401,836. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PENNSYLVANIA SAW CORPORATION, York, Pa. Filed Feb. 12, 1943. Serial No. 458,496.



FOR SAWS—NAMELY, WOOD AND METAL CUTTING SAWS.
Claims use since Sept. 1, 1941.

401,837. (CLASS 39. CLOTHING.) WARSHAUER & FRANCK, INC., Boston, Mass. Filed Mar. 12, 1943. Serial No. 459,057.

Nan Rogers ORIGINAL

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Dec. 9, 1940.

TRADE-MARK REGISTRATIONS RENEWED

163,693. **N & C NICHOLSON & CO.** RAINCOATS, OVERCOATS, AND SUITS FOR MEN, WOMEN, AND JUVENILES, IN PROOFED CLOTHS. Registered January 23, 1923. NICHOLSON'S RAINCOAT COMPANY, LIMITED. Renewed January 23, 1943, to Nicholson & Co. (Coat Specialists) Limited, St. Albans, England, a corporation of Great Britain, successor.

166,594. **"MANYWASH".** LAUNDRY NETS. Registered April 10, 1923. PENDLETON MANUFACTURING COMPANY, Autun, S. C. Renewed April 10, 1943, to Manywash Laundry Textiles, Inc., Philadelphia, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

166,595. **PEMCO.** LAUNDRY NETS. Registered April 10, 1923. PENDLETON MANUFACTURING COMPANY, Autun, S. C. Renewed April 10, 1943, to Manywash Laundry Textiles, Inc., Philadelphia, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

166,631. **"SPARTAN" AND DRAWING.** HOSIERY FOR MEN. Registered April 10, 1923. ATHENS HOSIERY MILLS. Renewed April 10, 1943, to Athens Hosiery Mills, Incorporated, Athens, Tenn., a corporation of Tennessee, assignee.

166,790. **MANOR.** TIN AND TERNE PLATES AND SHEETS. Registered April 17, 1923. BALDWINS LIMITED, London, England, a British joint stock company. Renewed April 17, 1943.

167,192. **HUDSON CREAM.** WHEAT FLOUR. Registered April 24, 1923. STAFFORD COUNTY FLOUR MILLS CO., Hudson, Kans., a corporation of Kansas. Renewed April 24, 1943.

167,577. **RE-FINIS-HR.** LIQUID WOOD CLEANERS AND THE LIKE FOR PREPARING WOODEN SURFACES. Registered May 1, 1923. CHARLES M. ANDERSEN, doing business as Andersen Specialty Co., Chicago, Ill. Renewed May 1, 1943.

167,613. **"DU PONT" AND DRAWING.** DYESTUFFS. Registered May 1, 1923. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed May 1, 1943.

167,706. **"UNDERWOOD" AND DRAWING.** TYPEWRITING MACHINES AND PARTS THEREOF. Registered May 8, 1923. UNDERWOOD TYPEWRITER COMPANY. Renewed May 8, 1943, to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware, by change of name,.

167,815. **FAVORITA.** CANNED SWEETENED MILK. Registered May 8, 1923. AMERICAN MILK PRODUCTS CORPORATION. Renewed May 8, 1943, to General Milk Company, Inc., New York, N. Y., a corporation of Delaware, by change of name.

168,249. **T. M. C.** SHOE BRUSHES. Registered May 15, 1923. PARKS & PARKS, INC., Troy, N. Y., a corporation of New York. Renewed May 15, 1943.

168,331. **WIELAND'S.** BEER, MALT TONIC, MALT BEVERAGES, AND MALT SIRUPS. Registered May 22, 1923. THE SAN FRANCISCO BREWERIES, LTD., assignor to Wielands Incorporated. Renewed May 22, 1943, to Wielands Incorporated, San Francisco, Calif., a corporation of California, assignee.

168,458. **REPRESENTATION OF A LADY GOLFER, ETC.** CREAM, LEMON, ORANGE, AND STRAWBERRY SODA, BURCH BEER, GINGER ALE, ORANGEADE, ROOT BEER, AND SARSAPARILLA. Registered May 22, 1923. COUNTRY CLUB SODA CO., INC., Springfield, Mass., a corporation of Massachusetts. Renewed May 22, 1943.

168,778. **HAVSOME.** COCOA. Registered May 29, 1923. STEPHEN L. BARTLETT COMPANY. Renewed May 29, 1943, to Bensdorp Importers, Inc., Boston, Mass., a corporation of Massachusetts, by change of name.

169,830. **MURALO.** WALL SIZE IN DRY POWDER FORM. Registered July 3, 1923. THE MURALO COMPANY, New York and New Brighton, N. Y. Renewed July 3, 1943, to The Muralo Company, Inc., Staten Island, N. Y., a corporation of New York, assignee.

170,576. **WIELAND'S.** CANNED PRESERVED FRUITS, JAMS, JELLIES, AND FRUIT SIRUPS FOR FOOD PURPOSES. Registered July 17, 1923. THE SAN FRANCISCO BREWERIES, LTD., assignor to Wielands Incorporated. Renewed July 17, 1943, to Wielands Incorporated, San Francisco, Calif., a corporation of California, assignee.

171,076. **"PURITY CHEESE" AND DRAWING.** CHEESE. Registered July 31, 1923. T. L. KNAPSTEIN, Appleton, Wis. Renewed July 31, 1943, to Purity Cheese Company, Mayville, Wis., a corporation of Wisconsin, assignee.

171,223. **"PYRAMID" AND DRAWING.** DRY PASTE. Registered July 31, 1923. PYRAMID PROCESS CO., INC., East Rochester, N. Y., a corporation of New York. Renewed July 31, 1943.

171,550. **REPRESENTATION OF TWO DOTS.** ARTIFICIAL EYES. Registered August 7, 1923. CONRAD E. BIEL, doing business as Denver Optic Company. Renewed August 7, 1943, to C. A. Rheem, doing business as Denver Optic Company, Denver, Colo., successor.

171,622. **C. E. P.** SHOE DAUBERS. Registered August 7, 1923. PARKS & PARKS, INC., Troy, N. Y., a corporation of New York. Renewed August 7, 1943.

171,830. **B (IN DIAMOND) S.** METAL COUPLINGS, METAL PIPES, METAL TUBES, AND METAL CASINGS. Registered August 14, 1923. NATIONAL TUBE COMPANY, Pittsburgh, Pa., a corporation of New Jersey. Renewed August 14, 1943.

172,103. **PEDEMODE.** WOMEN'S SHOES OF CERTAIN DESCRIPTIONS. Registered August 21, 1923. JULIUS GROSSMAN, INC., Brooklyn, N. Y. Renewed August 21, 1943, to Julius Grossman, Inc., New York, N. Y., a corporation of New York.

172,318. **"P-B MILL TYPE" AND DRAWING.** SPEED REDUCERS, SHAFT COUPLINGS, FRICTION CLUTCHES, HOISTS, JACKS, AND CRANES. Registered August 28, 1923. PALMER-BEE COMPANY, Detroit, Mich., a corporation of Michigan. Renewed August 28, 1943.

172,342. **SOBRITE.** ENAMEL FOR GENERAL USE. Registered August 28, 1923. EDWARD E. ALLEN MFG. Co., Chicago, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,343. **MANORHOUSE.** READY-MIXED HOUSE PAINT FOR BOTH INSIDE AND OUTSIDE USE. Registered August 28, 1923. EDWARD E. ALLEN MFG. Co., Chicago, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,344. **MOSAIC.** FLOOR PAINT. Registered August 28, 1923. EDWARD E. ALLEN MFG. Co., Chicago, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,435. **"LADY LITE" AND DRAWING.** SELF-RISING FLOUR. Registered August 28, 1923. AMERICAN HOMINY COMPANY, Chicago, Ill. Renewed August 28, 1943, to Knefler-Bates Company, Indianapolis, Ind., a corporation of Indiana, assignee.

172,445. **"SWEET TOOTH" AND DRAWING.** WHEAT FLOUR. Registered August 28, 1923. BLACK BROS. FLOUR MILLS, Beatrice, Nebr. Renewed August 28, 1943, to Black Brothers Flour Mills, Beatrice, Wymore and Superior, Nebr., a corporation of Nebraska.

172,462. **"BANNER" AND DRAWING.** OLEO, OLEO OIL AND SHORTENING. Registered August 28, 1923. CONSOLIDATED RENDERING COMPANY, Boston, Mass., a corporation of Maine. Renewed August 28, 1943.

173,052. **WINX.** PREPARATION FOR TREATING THE EYEBROWS AND EYELASHES. Registered September 11, 1923. ROSS COMPANY. Renewed September 11, 1943, to George W. Ross, doing business as Ross Company, New York, N. Y., assignee.

173,337. **ROUGH RIDER.** KHAKI, CORDUROY, AND WORSTED PANTS. Registered September 25, 1923. NATHAN ROTHMAN, doing business as Rough Rider Manufacturing Company, San Francisco, Calif. Renewed September 25, 1943, to Nathan Rothman, Hillsborough, Calif.

173,387. **ASSORTEX.** FINISHED OR PRINTED COTTON PIECE GOODS. Registered September 25, 1923. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed September 25, 1943.

173,425. **QUARTZ-QUALITY SILICATE SERVICE.** SODIUM SILICATE. Registered September 25, 1923. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 25, 1943.

173,607. **"GLADDING'S QUALITY" AND DRAWING.** CERTAIN ARTICLES OF FURNITURE. Registered October 2, 1923. GLADDING DRY GOODS CO. Renewed October 2, 1943, to Gladding's Inc., Providence, R. I., a corporation of Rhode Island, by change of name.

173,608. **QUARTZ-QUALITY SILICATE SERVICE.** PUBLICATIONS AND PRINTED LITERATURE. Registered October 2, 1923. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 2, 1943.

173,677. **"VOLANS NON SERPENS" AND DRAWING.** NEEDLES FOR HAND SEWING. JOHN JAMES & SONS LIMITED. Renewed October 2, 1943, to The English Needle & Fishing Tackle Co. Ltd., Redditch, England, an organized company of England, assignee.

173,749. **ALBATROSS.** COTTON DUCK AND CANVAS PIECE GOODS. Registered October 2, 1923. A. D. JUILLIARD & CO., INC., New York, N. Y., a corporation of Delaware. Renewed October 2, 1943.

173,805. **STYLASTIC.** CORSETS. Registered October 2, 1923. WEINGARTEN BROS., New York, N. Y. Renewed October 2, 1943, to W. B. Foundations, Incorporated, Newark, N. J., a corporation of New Jersey, assignee.

173,962. **SCHRADER.** PNEUMATIC VALVES AND PARTS THEREOF AND ACCESSORIES THEREFOR. Registered October 2, 1923. A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y. Renewed October 2, 1943, to Scovill Manufacturing Company, Waterbury, Conn., assignee.

174,049. **TARKROOT.** A "BEAUTY MASK" TOILET PREPARATION IN POWDERED FORM. Registered October 2, 1923. DEARBORN SUPPLY COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 2, 1943.

174,055. **THOMPSON SILCROME.** POPPET VALVES FOR INTERNAL-COMBUSTION ENGINES. Registered October 2, 1923. THE STEEL PRODUCTS COMPANY. Renewed October 2, 1943, to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio, by change of name.

174,056. **SILCROME.** POPPET VALVES FOR INTERNAL-COMBUSTION ENGINES. Registered October 2, 1923. THE STEEL PRODUCTS COMPANY. Renewed October 2, 1943, to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio, by change of name.

174,059. **DIXIE DANDY DDD.** CHILDREN'S DRESSES. Registered October 2, 1923. MARTHA MAID MANUFACTURING COMPANY, INCORPORATED. Renewed October 2, 1943, to Martha Maid Mfg. Co., Chicago, Ill., a corporation of Illinois, by change of name.

174,066. **LE-PEP-LINE.** PREPARATION FOR THE TREATMENT OF PILES. Registered October 2, 1923. CICERO F. FUTRELL, Conway, N. C. Renewed October 2, 1943.

174,164. **SCHRADER.** FLUID-PRESSURE GAUGES, INDICATORS, AND REGULATORS, AND SOUNDING LEADS. Registered October 9, 1923. A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y. Renewed October 9, 1943, to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut, assignee.

174,193. **TREMBLANT.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered October 9, 1923. CHENEY BROTHERS, South Manchester, Conn. Renewed October 9, 1943, to Cheney Brothers, South Manchester, Conn., and New York, N. Y., a corporation of Connecticut, assignee by mesne assignments.

174,219. **STOCK EXCHANGE.** WRITING PAPER. Registered October 9, 1923. FOX RIVER PAPER COMPANY. Renewed October 9, 1943, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

174,222. **OLD GLORY.** PRINT PAPER, BOOK PAPER, BOND PAPER, WRITING PAPER, BRISTOL BOARD, AND CARD BOARD. Registered October 9, 1923. THE J. W. BUTLER PAPER CO. Renewed October 9, 1943, to Butler Paper Corporation, Chicago, Ill., a corporation of Illinois, assignee.

174,225. **DANDY.** PAPER CLIPS. Registered October 9, 1923. NOESTING PIN TICKET COMPANY, INCORPORATED, Mount Vernon, N. Y. Renewed October 9, 1943, to Noesting Pin Ticket Company, Incorporated, New York, N. Y., a corporation of New York.

174,232. **WALL STREET.** WRITING PAPER. Registered October 9, 1923. FOX RIVER PAPER COMPANY. Renewed October 9, 1943, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin.

174,236. **SCHRADER.** ICE BAGS AND SYRINGE FIXTURES. Registered October 9, 1923. A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y. Renewed October 9, 1943, to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut, assignee.

174,242. **LITHOCRAFT.** PRINT, BOOK, COVER, WRITING, AND BOND PAPER, BRISTOL BOARD, CARD BOARD, AND THIN PAPERS USED FOR MANIFOLD-COPY WORK. Registered October 9, 1923. THE J. W. BUTLER PAPER CO. Renewed October 9, 1943, to Butler Paper Corporation, Chicago, Ill., a corporation of Illinois, assignee.

174,273. **CAMEO.** MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. Registered October 9, 1923. STAMPER & KAISER, New York, N. Y. Renewed October 9, 1943, to May McEwen Kaiser Company, Burlington, N. C., a corporation of North Carolina, successor.

174,279. **ALLCO.** CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Registered October 9, 1923. EDWARD E. ALLEN MFG. CO., Chicago, Ill., a corporation of Illinois. Renewed October 9, 1943.

174,315. **ROYAL ARTIST.** SAXOPHONES, CORNETS, TROMBONES, AND CERTAIN NAMED HORN MUSICAL INSTRUMENTS, AND PARTS THEREOF. Registered October 16, 1923. C. BRUNO & SON, INC., New York, N. Y., a corporation of New York. Renewed October 16, 1943.

174,327. **REPRESENTATION OF MOON AND STARS.** GLYCERINE. Registered October 16, 1923. THE PROCTER & GAMBLE COMPANY. Cincinnati, Ohio, a corporation of Ohio. Renewed October 16, 1943.

174,331. **"MARTHA MAID" AND DRAWING.** COTTON, SILK, WOOL, AND LINEN UNDERWEAR OF KNITTED AND TEXTILE FABRIC FOR FEMALES. Registered October 16, 1923. MARTHA MAID MANUFACTURING COMPANY, INCORPORATED. Renewed October 16, 1943, to Martha Maid Mfg. Co., Chicago, Ill., a corporation of Illinois, by change of name.

174,341. **WHITE CAPS.** PREPARATION FOR THE TREATMENT OF HEADACHE, NEURALGIA, NEURITIS, RHEUMATISM, LUMBAGO, COLDS, LA GRIPPE, AND ACUTE MUSCULAR RHEUMATISM. Registered October 16, 1923. GILBERT BROS. & CO., INC. Renewed October 16, 1943, to The White Caps Company, Baltimore, Md., a corporation of Maryland, assignee by mesne assignments.

174,348. **"KLEIN'S" AND DRAWING.** CHOCOLATE. Registered October 16, 1923. KLEIN CHOCOLATE COMPANY, INC., Elizabethtown, Pa., a corporation of Pennsylvania. Renewed October 16, 1943.

174,361. **MOUNTAIN PINE.** SIRUP FOR THE RELIEF OF COUGHS, COLDS, AND BRONCHITIS. Registered October 16, 1923. SAN ANTONIO DRUG COMPANY, San Antonio, Tex., a corporation of Texas. Renewed October 16, 1943.

174,425. **REPRESENTATION OF BIRD AND MONOGRAM.** CORRESPONDENCE PAPER AND CARDS, ENVELOPES, AND BOXES FOR CONTAINING PAPER, ENVELOPES, AND CARDS, CALLED PAPETERIE. Registered October 16, 1923. MELLEN T. BIRD, doing business as M. T. Bird & Co. Renewed October 16, 1943, to M. T. Bird & Company, Incorporated, Boston, Mass., a corporation of Massachusetts, assignee.

174,550. **M.** PIPE FITTINGS, VENT FITTINGS, CASING FITTINGS, RAILING FITTINGS, AND URINAL FITTINGS AND ACCESSORIES. Registered October 23, 1923. ACHESON MANUFACTURING COMPANY, Rankin, Pa. Renewed October 23, 1943, to Acheson Manufacturing Company, Braddock, Pa., a corporation of Pennsylvania

174,568. **REPRESENTATION OF A CHEF.** COAL AND GAS AND COMBINATION RANGES AND BROILERS AND WARMING CLOSETS FOR HOTELS, RESTAURANTS, STEAMSHIPS, AND INSTITUTIONS. Registered October 23, 1923. W. F. DOUGHERTY & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 23, 1943.

174,600. **"DAYS KERITE" AND DRAWING.** INSULATED WIRE AND CABLES. Registered October 23, 1923. THE KERITE INSULATED WIRE & CABLE COMPANY, INC., Seymour, Conn., and New York, N. Y. Renewed October 23, 1943, to The Kerite Insulated Wire & Cable Company, Inc., New York, N. Y., a corporation of Connecticut.

174,624. **SUN SMILE.** FRESH DECIDUOUS FRUITS. Registered October 23, 1923. COLFAX FRUIT GROWERS ASSOCIATION, Colfax, Calif., a corporation of California. Renewed October 23, 1943.

174,676. **POLY POP.** CERTAIN NAMED POWDER USED FOR MAKING SOFT DRINKS. Registered October 23, 1923. PAUL S. HOLLIS, doing business as Big State Company, Fort Worth, Tex. Renewed October 23, 1943.

174,711. **"DE LUXE" AND DRAWING.** WASH BOILERS AND GALVANIZED WASH TUBS. Registered October 23, 1923. SCHLUETER MANUFACTURING CO., St. Louis, Mo., a corporation of Missouri. Renewed October 23, 1943.

174,737. **KANT-SKORE.** PISTONS. Registered October 23, 1923. THE KANT-SKORE PISTON COMPANY. Renewed October 23, 1943, to Aluminum Industries, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee.

174,744. **"DR. MARTEL'S" AND DRAWING.** PILLS AND TABLETS FOR REGULATING MENSTRUAL FUNCTIONS. Registered October 23, 1923. J. RUBSAM CO. INC., New York, N. Y., a corporation of New York. Renewed October 23, 1943.

174,750. **B B B.** BEAMS, GIRDERS, AND OTHER STRUCTURAL MEMBERS EITHER SINGLY FABRICATED OR GROUPED INTO AN ASSEMBLED MEMBER. Registered October 23, 1923. BETHLEHEM FABRICATORS, INC., Bethlehem, Pa., a corporation of Pennsylvania. Renewed October 23, 1943.

174,772. **SECURITY.** LADDERS. Registered October 23, 1923. THE GOSHEN CHURN & LADDER COMPANY. Renewed October 23, 1943, to Goshen Churn & Ladder, Inc., Goshen, Ind., a corporation of Indiana, by change of name.

174,798. **GRIPPER.** SCREW DRIVERS. Registered October 23, 1923. SNAP-ON WRENCH COMPANY, Milwaukee, Wis. Renewed October 23, 1943, to Snap-On Tools Corporation, Kenosha, Wis., a corporation of Delaware, assignee.

174,830. **"EPCO".** METALLIC HOT-DISH PLAQUES. Registered October 23, 1923. ETCHED PRODUCTS CORPORATION, Long Island City, N. Y., a corporation of New York. Renewed October 23, 1943.

174,834. **ARAWEB.** COLLARS. Registered October 23, 1923. CLUETT, PEABODY & CO., INC., Troy, N. Y., a corporation of New York. Renewed October 23, 1943.

REISSUES

JUNE 8, 1943

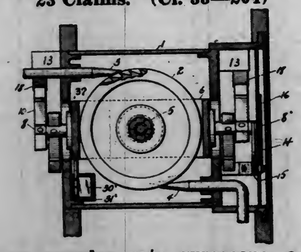
22,330

TURN INDICATOR

Charles S. Draper, Newton, Mass., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Original No. 2,291,612, dated August 4, 1942, Serial No. 330,481, April 19, 1940. Application for reissue March 15, 1943, Serial No. 479,299

23 Claims. (Cl. 33—204)



1. In an angular rate gyroscope, a rotor, a bearing frame within which said rotor is mounted for spinning about an axis an outer casing, and means for pivotally mounting said frame in said casing for precession about a second axis, including a leaf spring extending in both directions from said frame and clamping means for securing the outer ends of said spring to said casing for both pivotally supporting the frame and yieldingly opposing the precession of the gyroscope in either direction from its normal position.

22,331

ARTIFICIAL TOOTH

Simon Myerson, Brookline, Mass.

Original No. 2,300,305, dated October 27, 1942, Serial No. 412,574, September 27, 1941, which is a division of Serial No. 324,127, March 15, 1940. Application for reissue filed April 7, 1943, Serial No. 482,214

11 Claims. (Cl. 32—8)



11. An artificial tooth having a body portion of relatively opaque material which constitutes the major part of the tooth and a mass of relatively transparent enamel which forms the incisal edge, the body portion tapering downwardly to form a spur whose lower end is substantially spaced from the incisal edge of the finished tooth, the mass of enamel having a socket cavity in which the spur of the body portion is seated and a layer of ceramic material having a different visual appearance from that of the body of the tooth disposed against the labial surface of said spur, said layer having a thin upwardly directed extension overlying the upper part of the body portion of the tooth and extending substantially to the gingival surface, the mass of enamel which forms the incisal edge also having a thin upwardly directed extension which overlies the extension of the ceramic layer and which also terminates substantially at the gingival surface of the tooth.

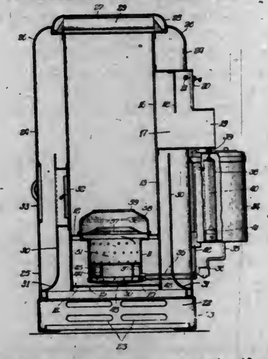
22,332

OIL BURNER CONSTRUCTION

Rolland C. Sabins, Seattle, Wash., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois

Original No. 2,240,861, dated May 6, 1941, Serial No. 256,449, February 15, 1939. Application for reissue May 5, 1942, Serial No. 441,880

15 Claims. (Cl. 158—91)



1. In a pot type burner, a pot, the pot wall having primary air openings adjacent the bottom, a ring shaped generator located in the pot above the primary openings, the outer wall of the ring having its major portion spaced from the pot wall, a cover for the ring spaced from the upper edge of the outer wall of the ring, the pot wall having secondary air openings therein above the ring, and means for supplying oil to the ring.

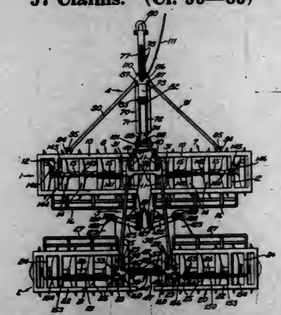
22,333

DISK HARROW

Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Original No. 2,264,783, dated December 2, 1941, Serial No. 183,988, January 8, 1938. Application for reissue December 16, 1941, Serial No. 423,221

57 Claims. (Cl. 55—83)

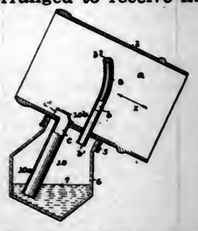


1. A disk harrow comprising a unitary rigid frame, two pairs of disk gangs pivotally connected to the rigid frame, a rigid draft member pivotally connected for lateral swinging movement to said rigid frame, rigid draft members pivotally con-

nected at their rear ends to the laterally outer end of the forward gangs, and means connecting the forward ends of said last mentioned rigid draft members to said first mentioned rigid draft member for controlled longitudinal movement relative thereto.

22,334
VACUUM CLEANER
John Winthrop, Wyckoff, N. J.
Original No. 2,304,868, dated December 15, 1942, Serial No. 366,673, November 22, 1940. Application for reissue December 18, 1942, Serial No. 469,464
4 Claims. (Cl. 261—121)

1. The combination, with an apparatus having a passage for flowing air, which passage is of a substantially constant cross-sectional area from end to end thereof, of an ebullition system including a container containing a body of liquid, an air conductor having its intake open to the exterior of the container and out of catching relation to air flowing through said passage and its discharge outlet discharging to the liquid in the container below the normal level thereof, and a conductor arranged to receive liquid in atom-



ized state produced by discharge of air to said liquid body by the first conductor and having its discharge outlet arranged to discharge to said passage where the pressure therein is less than that opposite to said intake of the air conductor.

PLANT PATENTS

GRANTED JUNE 8, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

587
NECTARINE
Signa Larsen Hayes, Fresno, Calif.
No Drawing. Application October 24, 1941, Serial No. 416,361
1 Claim. (Cl. 47—62)

A new variety of nectarines as herein disclosed characterized by lateness of season for ripening, good shipping and good keeping qualities, having a sweet aromatic taste and firm clinging flesh

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588
PEACH TREE
Herbert W. Donahey, Yakima, Wash., assignor to Columbia & Okanogan Nursery Company, Wenatchee, Wash.
Application August 20, 1940, Serial No. 353,436
1 Claim. (Cl. 47—62)

The new and distinct variety of peach tree of the J. H. Hale type herein disclosed, characterized particularly by its hardy and rapid growth; the early ripening season of its fruit; and its fruit with excellent, sprightly flavor, moderately firm texture; with deep yellow flesh into which the red next the pit penetrates but slightly and which red is almost completely absent when the fruit is canned.

589
CAMELLIA PLANT
James W. Robinson, Richmond, Calif.
Application November 28, 1941, Serial No. 420,873
1 Claim. (Cl. 47—60)

A new and distinct variety of camellia plant, of the semi-double type, characterized as to novelty by its very pleasing fragrance, similar to that of a wild rose, by its rich, deep pink and uniform color, by the medium texture of the willow-green leaves inclined to be slightly wavy, and by a flower about three to three and one-half inches in diameter, of considerable depth and lasting from ten days to two weeks when cut, substantially as shown and described.

PATENTS

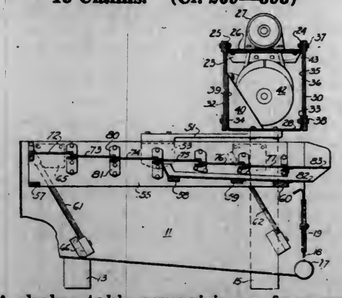
GRANTED JUNE 8, 1943

2,320,987
SPRING ASSEMBLY
Leonard A. Young and Vito Asaro, Detroit, Mich., assignors to L. A. Young Spring & Wire Corporation, Detroit, Mich., a corporation of Michigan
Application April 12, 1941, Serial No. 388,226
10 Claims. (Cl. 5—260)



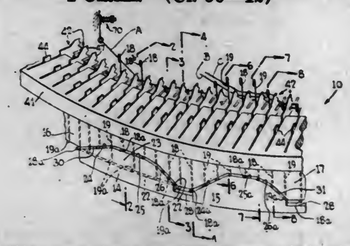
1. A spring assembly fabricated entirely of preconformed parts comprising a continuous annular border frame of resilient stock of flat section disposed with the wider surfaces thereof in the plane of the frame, and a plurality of coiled border springs connected to said frame, the end coil of said springs being provided with an internally extending loop-like offset including spaced arms in the plane of the coil, said arms having inner extensions initially offset downwardly relative to said plane and a terminal bight integrally connecting said extensions and offset in the opposite direction from the latter, said frame having an offset receiving said loop-like spring offset, in the form of a recess of generally W-shaped configuration disposed beneath the outer horizontal surface of the frame, the arms of said loop-like spring offset being engageable in the recesses on the opposite sides of the center portion of said frame offset and the extensions and the bight thereof being disposed internally of the frame in locking engagement with the inner edge of said frame, said bight being in substantially spaced relation to the inner side of the frame for ready engagement of an assembling tool therewith.

2,320,988
SHAKER CONVEYER
Ben Wathen, San Jose, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application November 13, 1939, Serial No. 304,030
15 Claims. (Cl. 209—395)



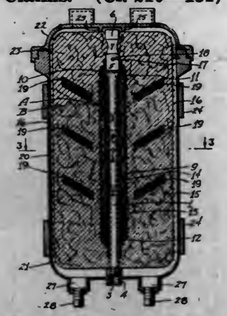
2. A shaker table comprising a framework including two opposite side members, a plurality of sections, each consisting of a plurality of parallel longitudinal rods and transverse rods secured thereto adjacent the front and rear edges of the section, a series of mountings on each of said side members, each of said mountings including a bracket formed to receive adjacent transverse rods.

2,320,989
KNITTING MACHINE
Max Weinberg, Brooklyn, N. Y., assignor to Harrison Mills, Inc., East Newark, N. J.
Application August 27, 1940, Serial No. 354,340
1 Claim. (Cl. 66—12)



A knitting machine comprising a rotating member having means to support a plurality of parallel, alternating long and short butt needles for sliding movement, fixed means to raise the long butt needles without raising the short butt needles, as said rotating member rotates, means for raising both the long and short butt needles, as said rotatable member rotates, a radial sinker disposed between each pair of adjacent needles, each of said sinkers being formed with a pair of notches one disposed above the other and one radially outwardly of the other, means to move the sinkers between the needles when the long butt needles alone are raised, means for feeding an elastic yarn between the needles and the sinkers at a point where the long butt needles alone are raised, and before the sinkers are moved in between the needles, and means for feeding a pair of non-elastic yarns between the needles and the sinkers at a point where both the long and the short butt needles are raised with said pair of yarns engaging the upper and lower notches of said sinkers, whereby said pair of yarns are knitted with one of the yarns producing loops which may be cut to produce velvet and such elastic yarn is laid into the knitted fabric.

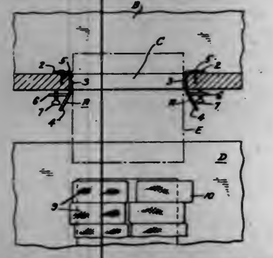
2,320,990
OIL REFINER PACK
Albert R. White, Glendale, Calif.
Application January 8, 1940, Serial No. 312,986
9 Claims. (Cl. 210—131)



1. An oil refiner pack comprising a perforated oil outlet tube closed at one end, a disc mounted

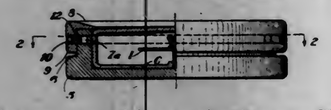
on the tube near the closed end, oil absorbing and deflecting means wrapped tightly about the tube adjacent to the disc, the other end of the tube also having oil absorbing and deflecting means wrapped tightly therearound, and oil refining material enclosing the tube with the exception of the open end.

2,320,991
LOAD GUIDE AND PROTECTOR
Charles White, Alameda, Calif.
Application May 26, 1941, Serial No. 395,198
2 Claims. (Cl. 193—1)



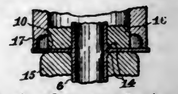
1. The combination with a car body provided with a side opening to permit the passage of a loaded truck into and out of the car, of a guide and protector means to prevent injury to the sides of said opening and to the goods during passage of the truck into the car and to prevent injury to the containers of goods carried on the truck incident to moving contact of the truck and the goods on the truck with the sides of the car opening as the truck moves through the opening into the car body, comprising a pair of spaced, unconnected angular members each including an inner plate and a plate at right angle thereto fitting within the door opening at the sides of the opening, a deflector element projecting from each of said second mentioned plates of said angular members and located outwardly wholly beyond the car body and the respective sides of said opening, said deflector elements being arranged in outwardly diverging relation to each other, said angular members each having a flange at each end thereof projecting therefrom in parallel relation with the side of the car body and parallel with the first named plate of the respective angular members, and a clamping screw adjustably mounted in each of the said flanges for co-action with the adjacent side wall of the car body whereby to secure the angular members and their deflecting elements detachably to the car body.

2,320,992
INSTRUMENT CASE AND THE LIKE
Jules A. Widmer, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application November 7, 1942, Serial No. 464,919
3 Claims. (Cl. 73—151)



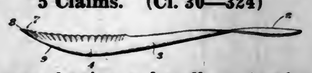
2. A case comprising a circular cup-like part and a cover part fitting thereon, said cup-like part having a circumferential groove in parallel spaced relation to its rim, said cover part having a circular flange projecting in telescopic relation to said rim over said groove, said flange having a plurality of apertures extending therethrough in registry with said groove, and a ring adapted to be received in said groove, spaced lugs on said ring extending into the apertures on said cover, the major part of the groove in the cup having a depth less than the corresponding dimension of a lug and the ring, while the remainder of said groove has portions of greater depth than the mentioned dimension of a lug and the ring, said portions being spaced apart circumferentially a distance of the order of the spacing between said lugs whereby said ring can be rotated with said cover to a position where it can be forced into said groove portions to permit said lugs to be disengaged from said apertures enabling the cover to be removed from said cup.

2,320,993
THERMOMETER CONSTRUCTION
George R. Worner, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application January 31, 1941, Serial No. 376,791
2 Claims. (Cl. 29—148.2)



1. The method of manufacturing a sanitary hollow thermometer stem with an integral flange fitting all made of a noncorrosive ferrous alloy which method comprises providing an annulus of said alloy having an opening therethrough of a diameter slightly larger than that of said stem, providing border rings of said alloy at each surface of said annulus at the opening therethrough, the openings through said border rings being approximately the same size as the opening through said annulus, assembling said annulus with said border rings on said stem, fusing said rings to fill the junction between said stem and said annulus, shaping the fused rings to provide rounded fillets at said junction, and then simultaneously correcting any distortion in said annulus and curving it into an umbrella shape by forming it in a cooperating punch and die.

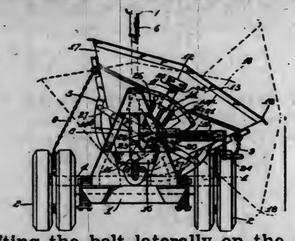
2,320,994
SPOON FOR CITROUS FRUITS
Arthur Wright, Forest Hills, N. Y.
Application August 30, 1941, Serial No. 408,941
5 Claims. (Cl. 30—324)



5. A spoon having a handle, a bowl provided with a dull wavy edge having waves extending upwardly from the concavity of the bowl terminating in a U-shaped peak at the outer end of and above the concavity of the bowl and a liquid-retaining channel between the handle and the bowl of the spoon and communicating with the bowl.

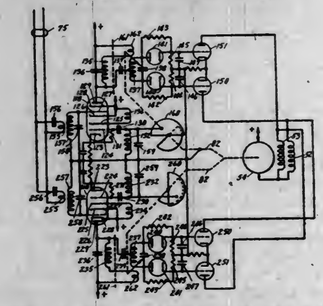
2,320,995
TILTING DUMP BODY
Edwin H. Allen, Janesville, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a corporation of Wisconsin
Application June 15, 1940, Serial No. 340,727
8 Claims. (Cl. 298—18)

1. In a vehicle comprising a frame and a body thereon mounted to tip laterally to discharge its load, a locking bolt on the frame, a keeper therefor on the body engageable with the bolt when the body is at upright position, and means



for shifting the bolt laterally on the frame for holding the body tilted between its upright position and its dumping position to facilitate loading.

2,320,996
REMOTE CONTROL SYSTEM
Harald Valdemar Alexandersson, Lidingo, and Carl-Erik Granqvist, Stockholm, Sweden, assignors to Aga-Baltic Radio Aktiebolag, Stockholm, Sweden, a corporation of Sweden
Application April 14, 1941, Serial No. 388,547
In Sweden April 15, 1940
7 Claims. (Cl. 172—239)

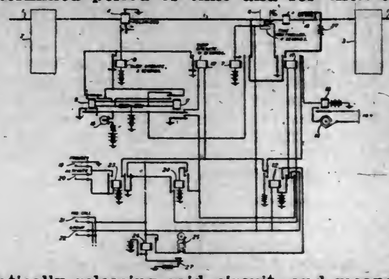


1. A remote control system responsive to frequency variations of a received signal, comprising a receiver having a circuit responsive to the received signal, a rotatable tuning element passing progressively through maximum and minimum positions during its rotation, said tuning element being connected to control the frequency response characteristics of said receiver, a reversible motor connected to actuate said tuning element, a motor control circuit responsive to the relative frequency characteristics of said receiver and of the received signal and connected and arranged to cause said tuning element to follow variations in signal frequency, and a circuit connected to cause said motor to continue operation in the same direction in response to continued unidirectional variation in frequency of the received signal as the tuning element passes through its maximum or minimum position.

2,320,997
COMMUNICATION SYSTEM
Walter M. Bacon, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 17, 1940, Serial No. 353,086
12 Claims. (Cl. 178—4.1)

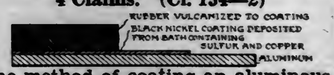
1. In a communication system, a station circuit, means responsive to a signal of a predetermined time interval for conditioning said station

circuit for reception, means for holding said station circuit in said condition for a second predetermined period of time and for then auto-



matically releasing said circuit, and means operative within said second predetermined period for disabling said automatic releasing means.

2,320,998
COATING METAL ARTICLES
Murray C. Beebe, Mount Carmel, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application May 5, 1938, Serial No. 206,273
4 Claims. (Cl. 154—2)

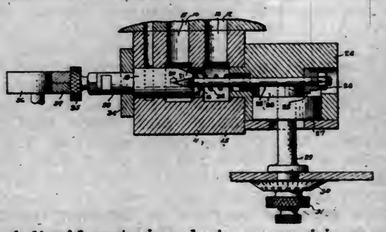


1. The method of coating an aluminous metal surface which comprises depositing a black nickel coating thereon by subjecting said surface to the action of a black nickel coating bath containing a dissolved nickel salt, a dissolved sulfur compound and a minor amount of a dissolved copper salt, and thereafter vulcanizing rubber onto the said black nickel coating.

2,320,999
BONDING RUBBERLIKE PLASTICS AND ALUMINUM
Murray C. Beebe, Mount Carmel, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
No Drawing. Application May 14, 1940, Serial No. 335,171
5 Claims. (Cl. 154—2)

5. The method of claim 1 wherein the bath contains colloidally suspended alumina derived from aluminum articles previously treated therein.

2,321,000
FEED CONTROL AND DECELERATION VALVE
Racy D. Bennett, Detroit, Mich., assignor to Vinco Corporation, Detroit, Mich., a corporation of Michigan
Application October 9, 1941, Serial No. 414,368
3 Claims. (Cl. 251—34)



1. A liquid metering device comprising a cas-

ing having a bore longitudinally thereof, said bore being connected at spaced points to a fluid pressure line and to an outlet line, a slide valve guarding the space between said lines, said slide valve having a plurality of serrations of varying lengths arranged circumferentially thereof and extending along the sidewall of said valve for fractional portions of its length means operative against one end of said valve for regulating the degree of constant opening thereof and means operative against the other side of said valve to completely close same irrespective of the position of the first named means.

2,321,001
TURNBUCKLE LOCK
Stanley Billett, Bakersfield, Calif.
Application August 10, 1942, Serial No. 454,252
7 Claims. (Cl. 287—60)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



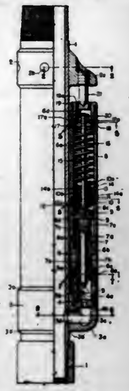
1. A turnbuckle assembly comprising a right and left hand threaded coupling member, a pair of oppositely threaded end members cooperating therewith, a lock plate fixed to one end member and slidably attached to the other end member, and a lock pin passing through both the lock plate and the coupling member.

2,321,002
STAGE LIFT FLOW DEVICE
Alexander Boynton, San Antonio, Tex.
Application December 8, 1939, Serial No. 308,314
3 Claims. (Cl. 137—111)



1. A valve body, a housing thereon, a valve chamber in said housing, valve seats at the upper and lower ends of said chamber, said seats having a cylindrical area adjacent thereto and a convexly tapering area leading to said cylindrical area, a cylindrical valve member between said seats, tapered ends thereon to engage said seats, said valve member being adapted to engage slidably within said cylindrical areas, said housing having openings above and below said valve chamber, one opening communicating with the interior of said body and the other with the exterior thereof, and springs to hold said valve resiliently between said seats, each of said springs having separate portions of different resistance to compression and of correspondingly different expansive forces when compressed whereby said springs exert a variable force upon said valve as they are compressed in the movement of the valve, so that the rate of movement of said valve to or from the seat will not be uniform.

2,321,003
DIFFERENTIAL STAGE LIFT FLOW DEVICE
Alexander Boynton, San Antonio, Tex.
Application December 8, 1939, Serial No. 308,318
5 Claims. (Cl. 137—111)



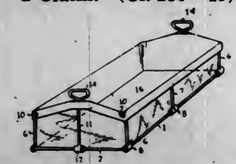
1. A well flowing device comprising a tubular body having a passageway in the wall thereof with an inlet and an outlet, a valve assembly movable in and adjacent said passageway and including a valve rod extending longitudinally of the passageway, a valve on said rod, a valve seat in the passageway adapted to be engaged by the valve, means normally urging the assembly axially of the passageway to maintain the valve and valve seat in spaced relation, a piston on said rod subjected to pressure fluid about the body and tending to move the valve to closed position, a second piston on the rod, and a pressure passage to said second piston from a reduced pressure chamber between the inlet and the valve seat.

2,321,004
OPTICAL DEVICE
Ellis M. Branson, Orlando, Fla.
Original application May 21, 1937, Serial No. 143,923. Divided and this application February 15, 1940, Serial No. 319,013
1 Claim. (Cl. 88—29)



In an optical device, a lens carrier comprising an elongate strip having longitudinally extending fold portions in adjacent relation and spaced pairs of registered openings therethrough, a strip between said fold portions having an opening therethrough concentric with and of larger diameter than each of said pairs of registered openings, said last strip extending beyond the ends of said first strip and having aligned edge recesses at each end thereof for receiving a supporting member, a lens for each pair of said registered openings having the periphery thereof seated in a concentric enlarged opening in said last strip and the peripheral edge margins thereof seated between said fold portions, means for connecting said fold portions and said last strip together adjacent the periphery of each of said lenses, and an enlarged recess through said connected strips between the spaced lenses.

2,321,005
COLLAPSIBLE BASKET
Mary Ethel Britain, Detroit, Mich.
Application January 15, 1940, Serial No. 313,838
1 Claim. (Cl. 150—49)



A collapsible container, comprising substantially rectangular bottom frame member, four wall-forming frame members, means pivotally connecting the wall-forming members respectively to the bottom frame member, at its respective margins, whereby the wall-forming members may adjoin each other in substantially vertical positions of use, or may be collapsed to substantially horizontal positions, fasteners projecting from the ends of an opposed pair of the wall members, near the tops thereof, the other two wall members, being disposed substantially between such fasteners, when all of the wall members are disposed for use, latch members pivoted on said fasteners and engageable with the wall members between the fasteners to resist collapse of all the wall members, and a fabric sheet adapted to fit within the frame formed by said members in their position of use, said sheet having openings to receive said fasteners, whereby the sheet is made to conform to the wall members.

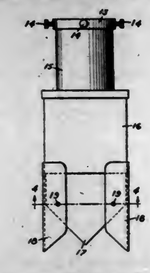
2,321,006
CONVERSION OF NONBENZENOID HYDROCARBONS TO AROMATICS
Robert E. Burk and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Original application March 21, 1939, Serial No. 263,198. Divided and this application October 19, 1939, Serial No. 300,238
3 Claims. (Cl. 260—668)

1. A process of converting hydrocarbons to aromatics, which comprises subjecting nonbenzenoid hydrocarbons to the action of a contact mass characterized by 2–15 mol per cent of copper oxide with 42.5–88.2 mol per cent of gel type aluminum oxide which is co-precipitated with 8.5–49 mol per cent of chromium oxide, at 700–1250° F.

2,321,007
METHOD OF PREPARING PIGMENT MATERIAL
Samuel Cabot, Jamaica Plain, Mass., assignor to Samuel Cabot, Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application June 13, 1940, Serial No. 340,321
9 Claims. (Cl. 106—262)

1. The method of preparing a dispersion of pigment particles of colloidal fineness, consisting in working by repeatedly squeezing together under heavy pressure while continuously turning and returning such pigment particles in an unmodified dry state until the mutual abrasion or attrition of the particles on each other during said squeezing rubs off gases adsorbed on the surfaces of each particle and the thus denuded surfaces of the gas-free particles adhere together in mutually protective relation against re-adsorption of gases to establish agglomerates in the form of slivers or clumps or flakes, and of bulk substantially less than that of the same particles before said working, adding a dispersion medium of adhesiveness sufficient to seize upon the outer surfaces of the agglomerates and of cohesiveness sufficient to break up the agglomerates so seized into their constituent particles of colloidal fineness, and kneading the gas free particles in the dispersion medium until the agglomerates are broken up and each isolated individual particle is enveloped and protected by the dispersion medium as a colloidal surface film, said mixture being characterized in that a substantially lesser volume of the dispersion medium is required to disperse the particles and the speed of absorption of the medium by the particles is greatly increased over that of the particles originally.

2,321,008
BLACKOUT LAMP
Daniel Cantor, Jersey City, N. J.
Application June 5, 1942, Serial No. 445,959
4 Claims. (Cl. 240—108)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a lamp, a container for a light source, said container having a light aperture, parallel louvers in said aperture extending substantially perpendicular to the plane of the aperture, said louvers having converging plan profiles on their external ends, and a pair of shutters pivotally mounted on the lamp for motion about an axis perpendicular to the louvers and swingable into covering relationship with the converging portion of said louvers for directing light at will in a plurality of directions.

2,321,009
SWIM FIN
Owen P. Churchill, Los Angeles, Calif.
Application September 27, 1940, Serial No. 358,637
5 Claims. (Cl. 9—21)

1. A swim-fin of resilient material, adapted to be mounted on the foot and embodying a hydrodynamic fin shape comprising a heel gripping section, a central section forming a pocket to receive the forepart of the foot, and a toe extension web continuing the natural wedge shape of the foot, the toe extension web having one side diverging with respect to the other toward the free end, and said end being diagonally formed

whereby the outer side is longer than the inner side, the central section and the toe extension



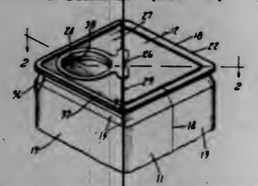
having a gradually increasing flexibility toward the said end.

2,321,010
METHOD AND APPARATUS FOR TREATING FABRICS
Samuel Cohn, New York, N. Y.
Application November 13, 1941, Serial No. 418,939
17 Claims. (Cl. 26—1)



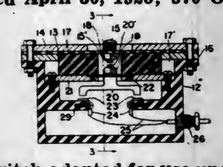
1. The method of handling fabric comprising providing a fabric strip in a continuous length with free edges, progressively feeding the fabric and folding it to bring the edges together in doubled formation, progressively uncurling said edges and sewing them together while maintaining them uncurled and in alinement so as to give the fabric a tubular formation, progressively treating the tubular fabric in a finishing operation, and then opening the edges of the tubular fabric to disconnect said edges from each other and leave them free.

2,321,011
CONTAINER
Herbert F. Cox, Jr., Murray Hill, and John Felber, Hillside, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 19, 1941, Serial No. 403,228
3 Claims. (229—7)



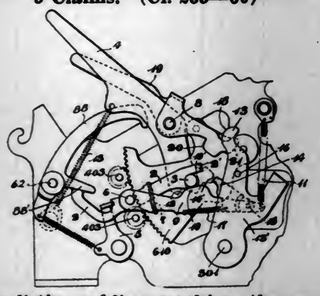
1. A container for liquids, comprising in combination, a tubular fibre body having a substantially flat fibre top end member secured thereto in a laterally projecting liquid proof end seam joint, said top end member having a filling and dispensing opening, a removable protective cover shield secured to said top end member surrounding said opening to maintain the portion of said top end member covered thereby in a sterile condition, adjacent marginal edges of said shield extending over and inwardly beneath and removably secured to said projecting end seam joint, said cover shield also having a filling and dispensing opening disposed in registry with said top end member opening, and a plug closure element hingedly secured to said top end member engaging over said protective cover shield to close and seal the registering openings in said cover and end member, said protective cover shield being removable during opening of the container to expose the normally concealed sterile surface of said top end member to permit pouring of the container contents over such sterile surface.

2,321,012
ELECTRICAL SWITCH
John D. Crecca, United States Navy
Application April 9, 1942, Serial No. 438,285
10 Claims. (Cl. 200—83)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a switch adapted for use under fluid pressure such as in under-water operation, the combination comprising a switch casing, switch contact means, means for supporting said contact means within said casing, a flexible diaphragm closure member for said casing, means operable upon a depression of said closure member to actuate said contact means, a support and a resilient pad member disposed between the underside of said diaphragm closure member and said support, said resilient member being adapted to be distorted upon depression of said closure member whereby the restoring force created therein will be exerted outwardly against said closure member to oppose fluid pressure acting thereupon in an opposite direction.

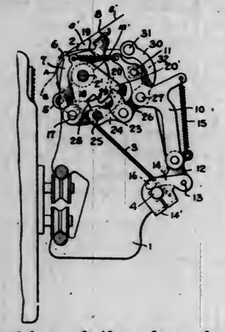
2,321,013
LISTING ADDING MACHINE
Loring Pickering Crosman, Maplewood, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application January 31, 1940, Serial No. 316,667
5 Claims. (Cl. 235—60)



1. In a listing adding machine, the combination with an item accumulator, a grand total accumulator, and means for taking totals and grand totals including a total taking key, a grand total control device, means for rendering the item totalizer inactive upon manipulation of said grand total control device, and power driven means; of means controlled by said power driven means for locking the grand total control device in normal position, means controlled by the total

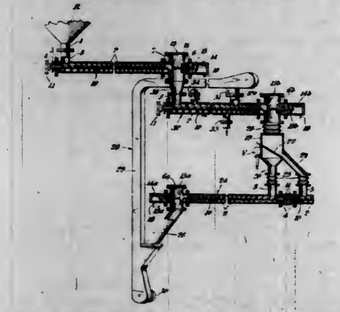
taking key for releasing the locking means, and means including a manipulable device for maintaining the locking means in released position, whereby item registrations may be alternatively effected in the grand total accumulator.

2,321,014
LISTING MACHINE
Loring Pickering Crosman, Maplewood, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application January 8, 1941, Serial No. 373,676
13 Claims. (Cl. 197—127)



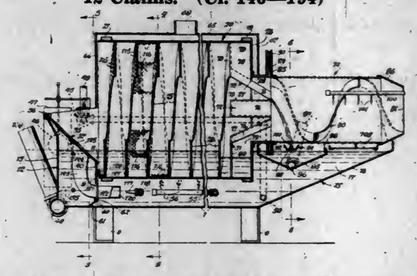
5. In a machine of the class described, the combination with a rotatable platen; of a front feed paper guide having pressure rolls normally engaging the platen to feed a paper sheet thereover in rotation of the platen, a combined paper hold back and line finder device extending the full length of the platen having normal raised position to hold back the paper sheet, and means including a manipulable member for conjointly displacing said device downwardly for line finding purposes and said paper guide to open position with its rolls spaced from the platen upon manipulation of said member and for conjointly restoring said device and said paper guide to normal position.

2,321,015
CATALYTIC REACTOR
Hyman R. Davis, New York, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application May 30, 1942, Serial No. 445,157
20 Claims. (Cl. 34—19)



6. The method of removing a granular catalyst from a reaction chamber wherein the reaction is conducted in liquid phase under a pressure other than atmospheric, comprising conducting the wet catalyst from said chamber into a gas-tight discharge conduit having an outlet, directing a forced draft of drying gas through the introduced wet catalyst to dry it, introducing into said conduit a solid filler material more finely divided than the catalyst, mixing the dried catalyst and filler material within the conduit, propelling the mixture along the conduit and through said outlet, and choking said outlet whereby the propelling force will compact the mixture against the choke and seal the outlet gas-tight.

2,321,016
APPARATUS FOR TREATING FOODSTUFFS
William de Back, Niagara Falls, N. Y., assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y., a corporation of New York
Application May 23, 1941, Serial No. 394,875
12 Claims. (Cl. 146—194)

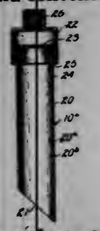


1. Apparatus for treating foodstuffs, comprising a tank adapted to contain a body of treating liquid in its bottom, an open ended drum arranged in said tank and rotatable about a substantially horizontal axis and having its lower part submerged in said body of treating liquid, a helix secured to the inside of said drum and forming a helical channel along the inner face thereof, means for rotating said drum about said axis, said drum at the leading end of said helix being perforated to permit the circulation of said treating liquid therethrough, means for feeding foodstuffs to the leading end of said helix to be conveyed with said treating liquid to the opposite end of said drum, means adjacent said feeding means for heating and effecting a localized recirculation of the body of said treating liquid contained in the leading end of said helix through said perforations and through the body of liquid in the bottom of said tank to rapidly heat the foodstuffs so fed to the treating temperature, heating means for maintaining said treating temperature of said foodstuffs and treating liquid during the continued movement thereof through said drum, and means at the opposite end of said drum for separating the treated foodstuffs and liquid from each other.

2,321,017
FLUID DISCHARGE NOZZLE
Antonio Fernando de la Calle, Mexico City, Mexico
Application October 31, 1940, Serial No. 363,655
3 Claims. (Cl. 225—6)

1. A nozzle of the class described for discharging foaming liquids, said nozzle comprising a header having an inlet passage and a plurality of restricted outlet passages, means associated with said outlet passages for conducting discharged liquid away from said passages, said discharge passages being circumferentially arranged in said header, said conducting means comprising a tubular member extending from said passages, and

said header having other circumferential passages arranged concentrically to said first named outlet passages, said concentric passages register-



ing with opposed surfaces of said tubular member, thereby providing for the discharge of fluid on both inner and outer surfaces of said member.

2,321,018

BRACKET FOR MOUNTING AUTOMATIC RIFLES

Charles G. Dowd, Baltimore, Md.

Application October 1, 1941, Serial No. 413,108

7 Claims. (Cl. 211—64)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



6. A rifle rack consisting of a longitudinal channel shaped frame portion including a pocket to receive the bolt mechanism of a rifle; a stock pocket on said frame adjacent one of its ends, the stock pocket including a bottom plate, side flanges, and a front flange adapted to receive and support a rifle stock; and a muzzle socket on said frame at the opposite end of the frame and spaced apart from the aforementioned stock pocket, said muzzle socket including bottom and side rifle supporting surfaces adapted to engage the muzzle of a rifle on three sides and a retaining clip, pivoted to one side of the muzzle socket and engaging means on the other side, and extending across the muzzle socket to engage the muzzle of the rifle on the fourth side and thus secure the rifle in the muzzle socket.

2,321,019

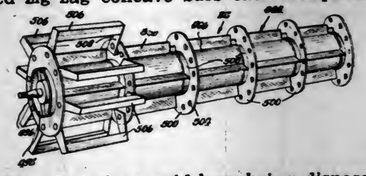
HARVESTER-THRESHER COMBINE

Walter R. Dray, Yorkville, Ill.

Original application December 29, 1939, Serial No. 311,572. Divided and this application October 2, 1940, Serial No. 359,331

13 Claims. (Cl. 130—27)

1. In a threshing machine, a threshing mechanism, said threshing mechanism comprising a rotatable threshing member provided with a plurality of angularly spaced threshing elements, a stationary threshing element having an imperforate concave surface supporting a plurality of spaced zig-zag concave bars each comprising a



plurality of sections, said bars being disposed in position spaced radially from the path of said threshing elements, and having each free-end section overlapping the adjacent section to form sets of successive passages each inclined to the path of movement of the threshing elements.

2,321,020

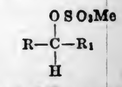
DETERGENT AND METHOD OF MAKING IT

Emil E. Dreger, Summit, N. J., and John Ross, New York, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application July 9, 1937, Serial No. 152,852

18 Claims. (Cl. 260—459)

3. A sulphation product of the following general formula



containing at least fifteen and not more than twenty-one carbon atoms wherein R represents a straight chain alkyl group containing at least five carbon atoms, R_1 is a straight chain alkyl group containing at least three carbon atoms and Me is a radical of the group consisting of alkali metals, alkaline earth metals and ammonium.

10. A normal pentadecyl-8 sulphate.

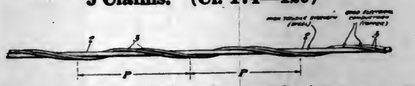
2,321,021

COMPOSITE ELECTRICAL CONDUCTOR

Daniel P. Dyer, Jr., Chagrin Falls, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application July 30, 1940, Serial No. 348,477

5 Claims. (Cl. 174—129)



1. As a new article of manufacture, a composite electrical conductor consisting solely of three wires with one of said wires being a relatively straight steel wire having a diameter of about .112 to .115 of an inch with a relatively high tensile strength, and a pair of wires with each having a diameter of about .093 of an inch wrapped around said steel wire in side-by-side relation and having the quality of good electrical conductivity.

2,321,022

CHEMICAL COMPOUND AND PROCESS

Arthur Lawrence Fox, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 10, 1940, Serial No. 360,602

3 Claims. (Cl. 260—505)

1. A process of making an alkyl substituted aromatic compound which contains an exo-sulfonyl chloride group which comprises reacting an alkyl substituted aromatic compound wherein an alkyl group contains at least 5 carbon atoms with sulfur dioxide and chlorine in the presence of light.

2. A process as defined in claim 1 according to which the exo-sulfonyl chloride group is converted by hydrolysis to an exo-sulfonate group.

2,321,023

METHOD OF APPLYING PARASITICIDES

Lyle D. Goodhue, Berwyn, Md., and William N. Sullivan, Washington, D. C., assignors to Claude R. Wickard, as Secretary of Agriculture of United States of America, and his successors in office

No Drawing. Application July 29, 1941, Serial No. 404,520

6 Claims. (Cl. 167—22)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method of producing an aerosol comprising releasing into the atmosphere in the form of finely divided droplets a solution under pressure of not more than 10 parts of the material to be dispersed as an aerosol in not less than 90 parts of a solvent, the vapor pressure being such that the solvent will boil violently under atmospheric conditions, whereby the violent boiling of the solvent will cause the droplets to be further subdivided, so that when all of the solvent has evaporated the solute material will remain colloidally suspended in the atmosphere.

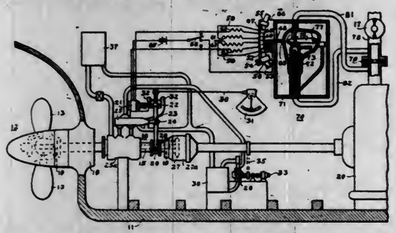
2,321,024

PROPELLER CONTROL SYSTEM

John Hays Hammond, Jr., Gloucester, Mass.

Application August 22, 1941, Serial No. 407,892

6 Claims. (Cl. 170—135.6)



1. In a system for driving a vessel, a propeller having blades, means controlling the pitch of said blades, a steam actuated motor driving said propeller, a steam consumption meter, means connecting said meter to be actuated in accordance with the rate of steam consumption of said motor, and means actuated by said meter to cause said pitch control means to decrease the pitch of said blades in response to an increased rate of steam consumption and vice versa so as to maintain a substantially constant rate steam consumption.

2,321,025

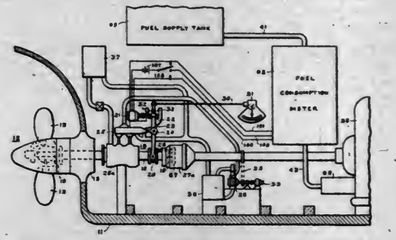
PROPELLER CONTROL MECHANISM

John Hays Hammond, Jr., Gloucester, Mass.

Application October 10, 1941, Serial No. 414,488

7 Claims. (Cl. 170—135.6)

1. In a system for driving a vessel, a propeller having blades, means controlling the pitch of said blades, a liquid fuel actuated motor driving said propeller, a fuel line supplying liquid fuel to said motor, a fuel meter connected in said fuel supply line and including means measuring the rate of fuel flow therein to said motor, and means actuated by said last means to actuate said pitch control means so as to vary the pitch of said blades



in a manner to maintain substantially constant fuel flow conditions.

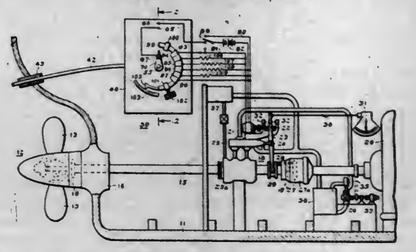
2,321,026

PROPELLER CONTROL MECHANISM

John Hays Hammond, Jr., Gloucester, Mass.

Application October 10, 1941, Serial No. 414,489

5 Claims. (Cl. 170—163)



1. In a system for driving a vessel, a propeller having blades, means controlling the pitch of said blades, means measuring the distance travelled by said vessel in a predetermined time interval, and means actuated by said last means, in accordance with the distance travelled during said predetermined time interval, to actuate said pitch control means in a direction and by an amount dependent upon the direction and amount of variation of distance travelled from a predetermined standard and to cause said pitch control mechanism to change the pitch of said blades in a direction and by an amount to compensate for said variations in the distance travelled, whereby said vessel tends to maintain said standard.

2,321,027

COAL BREAKER

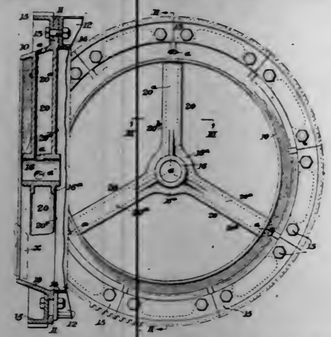
Charles A. Jamison, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y., a corporation of New York

Application August 3, 1940, Serial No. 350,434

2 Claims. (Cl. 83—52)

1. The combination, in a coal breaker of the rotary drum type, of a breaker drum, and an end structure therefor comprising a rim or annulus in the form of a truncated cone with its dimension of greater diameter disposed adjacent to the end of the breaker drum and secured thereto, a central hub, and a plurality of hollow arms with narrow wall surfaces substantially triangular in cross sectional contour connecting said hub with the rim; said arms being set inwardly with respect to the lesser diameter of the rim with their narrow wall surfaces inwardly

thereof and disposed substantially in the plane



of the connection of said end structure with the breaker drum.

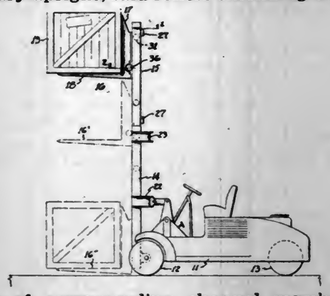
2,321,028
COUPLING DEVICE
Clifford E. Johnson, Medway, Ohio
Application July 28, 1942, Serial No. 452,617
2 Claims. (Cl. 287—114)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A coupling device of the class described comprising, in combination, a pair of holding members, each having a tapered socket therein, said members having their sockets axially disposed in reverse relationship respecting one another so that the flared wider ends of said sockets face each other, a pair of clamping members adapted to clamp a cable or the like between them and when so engaged forming a plural part sleeve with each end thereof oppositely tapered to fit snugly in one of said sockets respectively, and a coupling member adapted for detachable interlocking connection with one of said holding members, said coupling member having an axial bore within which the other holding member is entirely received, said bore being of sufficiently large diameter that there is no peripheral engagement of said coupling member and said other holding member when the latter is so received and in cooperative relation to said clamping members with the latter clampingly engaged with said cable, said coupling member having an internal annular shoulder in said bore axially engageable with an end edge only of said other holding member in moving the same axially of the cable to draw said holding members toward one another in cooperative relation with said sleeve.

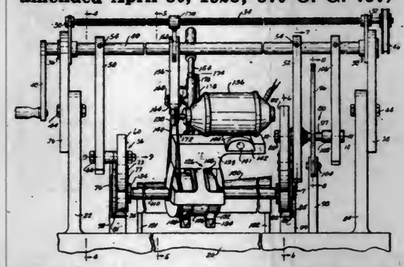
2,321,029
INDUSTRIAL LIFT TRUCK
George V. Johnson, Portland, Oreg., assignor to Willamette Hyster Company, Portland, Oreg., a corporation of Oregon
Application September 2, 1941, Serial No. 409,173
6 Claims. (Cl. 187—9)

1. In an industrial truck, a main frame, a primary upright secured to said frame and comprising a pair of inwardly facing channel members rigidly fixed relative to each other in a spaced parallel relation, a secondary upright comprising a pair of inwardly facing channel members rigidly fixed relative to each other in a spaced parallel relation, said secondary upright being arranged for telescopic movement within said primary upright, a pair of rollers rotatably mounted in a spaced relation upon the outer sides of each of the channel members of said secondary upright, said rollers extending between



flanges of corresponding channel members of said primary upright, a pair of half round metal bars welded to the inner surfaces of the flanges of each of the channels of said primary upright, the periphery of said rollers being provided with a concave groove for cooperatively fitting over said bars, the diameter of the flanges of said rollers being greater than the spacing between said pair of bars.

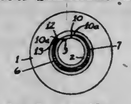
2,321,030
UNIVERSAL SHAPER
Howard C. Langhorst, Dayton, Ohio
Application October 14, 1941, Serial No. 414,931
20 Claims. (Cl. 90—13)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. For shaping an irregular surface on a work piece, a machine which comprises, in combination, a frame, means on the frame for holding the work piece, cams supported on said frame at each end of the work piece, cam follower members at the ends of the work piece resting on said cams, a cutter bar having its ends carried one on each follower member, a cutter head rotatable and axially slidable on said bar, means to rotate said cutter head, means to move said cutter head axially over said bar, and means to move said bar transversely of its length with said cam follower members resting on said cams.

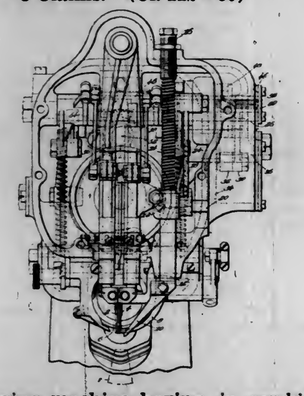
2,321,031
CLOSURE CAP FOR COLLAPSIBLE TUBES
Gaston L. Lateur, San Francisco, Calif.
Application March 14, 1939, Serial No. 261,699
1 Claim. (Cl. 221—60)

In a dispensing device for a collapsible tube containing a plastic material, a cylindrical member having a longitudinally extending slot therein, the outer surface of the member disposed near the slot being flattened to materially lessen the thickness of the longitudinal edges bordering the slot and to define two longitudinally-extending flattened surfaces bordering the slot,



and a lip formed along the outer longitudinal edge of one of the flat surfaces for aiding in severing the dispensed material at a point near the slot when the cylindrical member is rotated for causing the lip to cut through the material extruded through the slot.

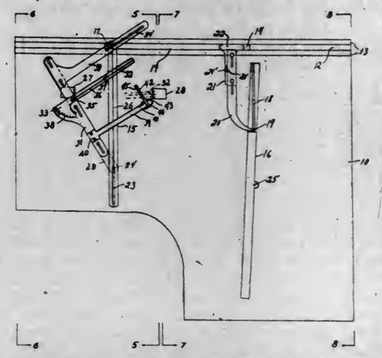
2,321,032
PRESSER FOOT MECHANISM
Bernard T. Leveque, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application April 19, 1939, Serial No. 268,708. Divided and this application September 29, 1941, Serial No. 412,748
5 Claims. (Cl. 112—60)



1. A sewing machine having, in combination with the stitch forming devices, a work support, a presser foot, and means for pressing the presser foot yieldingly against the work, means for actuating the presser foot comprising a driving clutch member, a driven clutch member, connections from the driven clutch member to the presser foot, means for actuating the driving clutch member first in one direction to raise the presser foot from the work and in the other direction to move the presser foot positively towards the work, and means for disconnecting the driving and driven clutch members in each stitch forming cycle just before the presser foot clamps the work.

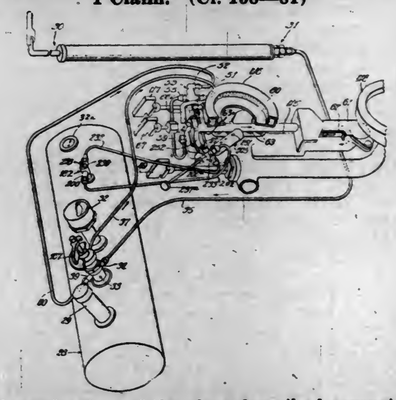
2,321,033
RECTOBLIQUE PLOTTER
James G. Lewis, Siloam, Ga.
Application May 27, 1942, Serial No. 444,699
17 Claims. (Cl. 33—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a device for plotting maps from oblique photographs comprising a support including means for supporting a photograph and a mapping sheet in displaced relation in a single plane, a link member slidably mounted on said support for movement parallel to said plane, a pivot pin carried by said link member normal to said plane, a device for sighting along a photograph mounted on said support, said device being pivoted to said pivot pin and being provided with a longitudinal slot displaced radially from said pivot pin, and a second pivot pin mounted on said support and engaging the slot provided in said sighting device, a mapping arm pivoted to a pin fixedly mounted on said support normal thereto and displaced from said first mentioned pivot pins, said mapping arm extending from its fixedly



mounted pivot pin toward said link in a predeterminately fixed angular relation to said sighting device and being provided with a slot extending radially with respect to its fixed pivot, an arm mounted on said link member displaced from said first mentioned pivot pin, and a pivot pin mounted on said arm normal to said plane engaging the slot provided in said mapping arm whereby when said sighting device is moved angularly an angular displacement is imparted to said mapping arm.

2,321,034
LIQUID FUEL STOVE
Herman F. Lieber, Newark, Ohio, assignor to Newark Stove Company, Newark, Ohio, a corporation of Ohio
Application June 3, 1938, Serial No. 211,486
1 Claim. (Cl. 158—81)



A mechanism of the class described comprising a nozzle having an annular recess and an air inlet and a liquid fuel inlet discharging into said recess, said nozzle having a bore and an annular wall spacing apart said recess and said bore, said wall having a slot substantially tangent to said

bore and establishing communication between said recess and said bore, said nozzle having a discharge orifice adjacent said bore, and means movable in said bore for selectively preventing and permitting flow from said slot to said orifice, whereby the air and liquid supplied under pressure to said inlets swirl vigorously in said bore to form a combustible vapor dischargeable through said orifice.

2,321,035

SHADE FOR FLUORESCENT LAMPS

Louis Ludwig, Brooklyn, N. Y.

Application February 7, 1941, Serial No. 377,772
5 Claims. (Cl. 240—109)



1. A shade of insulating material for a fluorescent electric lamp, having a pair of end sockets formed in an end wall thereof for mounting parallel end terminals of the lamp, side walls of said sockets being integral with said end wall and one wall of a socket being a part of said end wall, the longitudinal axes of said sockets being approximately parallel with said end wall, end sockets formed in the opposite end wall of said shade for mounting the opposed parallel end terminals of the lamp, and means for retaining said terminals in said sockets.

2,321,036

PURIFICATION OF ALKYL PHENOLS

Daniel B. Luten, Jr., and Aldo De Benedictis, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 27, 1940, Serial No. 354,398
15 Claims. (Cl. 260—627)

1. In the process of purifying alkyl phenols containing non-basic nitrogen compounds naturally associated with petroleum and coal tar alkyl phenols, which compounds are not removable from said alkyl phenols by strong mineral acid washes, the steps comprising dissolving in said alkyl phenols at least 50 mol percent of a nitrogen base, and then washing the resulting solution with water.

2,321,037

HYDRATION OF HALOGENATED EPOXIDES

Kenneth E. Marple and Theodore W. Evans, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 26, 1940, Serial No. 331,802
5 Claims. (Cl. 260—633)

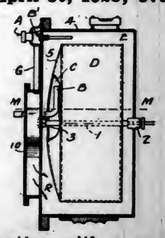
4. A process for the conversion of epihalohydrin to the corresponding glycerine monohalohydrin, which comprises reacting epihalohydrin with water containing an acid-acting catalyst, said acidified water being employed in a quantity of at least 10 mols of water per mol of the epihalohydrin, effecting said reaction at an elevated temperature for a period of time sufficient to effect the hydration of the epihalohydrin, and recovering the glycerine monohalohydrin from the reaction mixture.

2,321,038

GAS MEASURING INSTRUMENT

Francis C. Morey, Kensington, Md., assignor to Government of the United States, as represented by the Secretary of Commerce

Application May 29, 1942, Serial No. 445,001
5 Claims. (Cl. 73—235)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



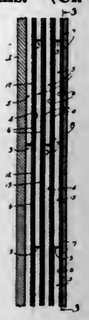
1. In combination with a gas meter having a rotary compartmented drum partially immersed in a liquid reservoir whereby the liquid forms the floor of each compartment as the same is filled with gas flowing through said meter, means for maintaining the liquid at a constant level within said compartment receiving the gas to be measured, said means consisting of a shaped auxiliary reservoir of liquid communicating with the liquid reservoir of said meter, a restricted orifice in the inlet connection to said meter and means for applying the pressure of said gas upstream of said orifice to the surface of said liquid in the auxiliary reservoir whereby the liquid in said auxiliary reservoir is forced into the reservoir of said meter in an amount sufficient to create a hydrostatic pressure on the liquid within the measuring compartment of said drum and maintain the surface of the liquid within said compartment at a constant level.

2,321,039

PROTECTIVE ARMOR

Buell C. Nelson, Portland, Oreg.

Application November 21, 1939, Serial No. 305,467
6 Claims. (Cl. 89—36)



1. Protective armor comprising a plurality of connected layer members in spaced apart relation, certain of said layers being formed of a series of contiguous elements, supported adjacent their margins by easily rupturable elements, transverse members lying intermediate the several layers and joining said layers one with the other, said transverse members lying closely about the margins of the layer members, respectively, whereby said layer members are adapted to be broken loose from their points of joinder by a blow and moved bodily into said structure, closely encompassed by said transverse members.

2,321,040

SELF-THREADING SHUTTLE

Joseph B. Plevyak, Newton, N. J.

Application June 26, 1941, Serial No. 399,881
10 Claims. (Cl. 139—214)



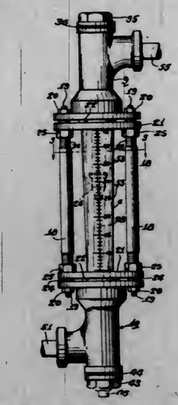
1. A loom shuttle having a bobbin chamber, a thread slot, and a tension chamber with spring-pressed tensioning mechanism therein, and a side delivery eye, the thread from the bobbin passing into and through the shuttle in contact with the tensioning mechanism, and emerging therefrom through the side delivery eye; and means contacting the thread between the bobbin and the tensioning devices for temporarily resisting the movement of the thread from the shuttle to the tensioning devices; and means rendered effective by a pull on the free end of the thread against said temporary resistance, for opening the tensioning devices and laying the thread therein; and additional means for, at that point, freeing the thread from said temporary resistance, whereby to permit the return of the spring-pressed tensioning devices to their normal position, thereby threading the shuttle.

2,321,041

ROTAMETER CONSTRUCTION

George K. Porter, Philadelphia, Pa., assignor, by mesne assignments, to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania

Application December 2, 1940, Serial No. 368,236
3 Claims. (Cl. 73—209)



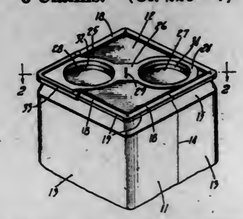
1. A fluid flow meter including an upright elongated tapered transparent metering tube having its narrower end lowermost, separate inlet and outlet fittings in sealed communication with the lower and upper ends of said tube respectively, said fittings each having an end opening in alignment with the extended axis of said metering tube, an inwardly-extending annular shoulder at the innermost portion of each of said end openings, openings in said fittings respectively adapted for connection with conduit means leading to and from said flow meter, structural means securely holding said fittings a fixed distance apart, a taut guide-wire inside said transparent metering tube extending coaxially therethrough, transversely-extending anchorage means associated with the opposite end portions of said guide-wire seated on said inwardly-extending annular shoulders, adjustable means at one end portion of said guide-wire for adjustably longitudinally tensioning said wire, and a float member inside said tube freely slidably mounted on said taut guide-wire and restrained thereby from coming into contact with the wall of said tube.

2,321,042

CONTAINER

Carl G. Preis, Forest Hills, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application July 19, 1941, Serial No. 403,212
3 Claims. (Cl. 229—7)



1. A container for liquids, comprising a tubular body having a flat top end member secured to an end thereof in a leak-proof end seam joint, said top end member having spaced filling and dispensing openings therein, a double plug closure element hingedly secured at its intermediate part to said top end member respectively for closing and sealing said filling and dispensing openings, said dispensing opening plug closure having an outer marginal portion extending over and secured to the upper surface of said end seam joint, and securing means engaging over said marginal plug portion and extending beneath said end seam, whereby the container may be opened by removing said securing means and hinging outwardly said dispensing opening plug closure to expose a sterile surface area surrounding the dispensing opening over which the container contents may be poured free of contamination by contact with said surface area.

2,321,043

POLLEN ANTIGEN AND PROCESS OF PREPARING IT

George E. Rockwell, Cincinnati, Ohio, assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application July 2, 1941, Serial No. 400,797
5 Claims. (Cl. 167—78)

1. A pollen antigen comprising the reaction product of a pollen and tannic acid.

2,321,044

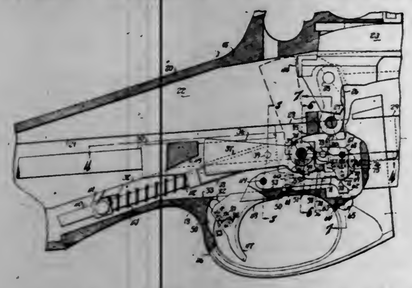
TRIGGER MECHANISM FOR FIREARMS

William C. Roemer, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware

Application January 18, 1940, Serial No. 314,423
1 Claim. (Cl. 42—3)

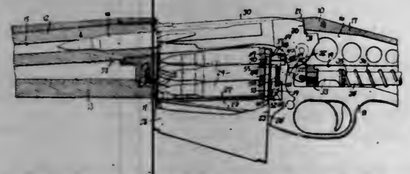
A firearm-structure including in combination: a frame; a first pivot extending crosswise of the frame; a swinging hammer swinging around the

said first pivot; a second pivot located to the rear of the said first pivot and in substantial parallelism therewith; a sear swinging around the said second pivot and extending forwardly therefrom beyond the said first pivot and provided adjacent its forward end with an upwardly-facing actuating surface, the said sear coacting intermediate its ends with the said hammer to releasably hold the latter in its cocked position; a trigger swinging around the said second pivot and provided with two laterally-spaced-apart side-walls embracing the sides of the said sear and with a downwardly-facing actuating-surface located forwardly of the said first pivot and over the upwardly-facing actuating-surface of the said sear; a third pivot located forwardly of the said first pivot and second pivot; a bell-crank-shaped shifting-lever swinging intermediate its ends around the said third pivot and comprising a rearwardly-extending arm having cam-engaging



means and a downwardly-extending arm; a transmitting-member pivoted at its forward end to the downwardly-extending arm of the said shifing-lever and normally extending rearwardly between the respective actuating-surfaces of the said sear and trigger to transmit the movement of the latter to the former; a breech-bolt; and an action-slide reciprocating lengthwise of the frame and operatively connected to the said breech-bolt and provided with a cam-surface engageable with the cam-engaging means of the rearwardly-extending arm of the said shifting-lever at a point forwardly of the said first pivot and rearwardly of the said third pivot and constructed and arranged to depress the said downwardly-extending arm of the shifting-lever and thereby withdraw the rear portion of the said transmitting-member from between the respective actuating-surfaces of the said sear and the said trigger.

2,321,045
AUTOMATIC BOLT STOP FOR REPEATING FIREARMS
William C. Roemer, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application February 9, 1940, Serial No. 318,036
2 Claims. (Cl. 42—18)



1. A firearm-structure including in combination: a receiver-unit having a substantially-vertical magazine-receiving passage and provided to the rear of and adjacent the rear wall of the said magazine-receiving passage with a rearwardly-facing bearing-surface; a breech-bolt reciprocable within the said receiver-unit and above the said bearing-surface thereof; a substantially-vertically-reciprocating bolt-stopping member mounted in the said receiver-unit mainly intermediate the rear wall of the magazine-receiving passage therein and the rearwardly-facing bearing-surface of the said receiver-unit, the said bolt-stopping member having a downwardly-opening notch adjacent its lower end and a forwardly-facing bearing-surface adjacent its upper end and located rearwardly of the main portion of said member and slidably engaging with the rearwardly-facing bearing-surface of the said receiver-unit, the said bolt-stopping member also having a rearwardly-facing portion engageable with the said breech-bolt to hold the same in its open position and also having a downwardly-facing lifting-abutment positioned to be engaged by the cartridge-follower of a magazine installed in the magazine-receiving passage of the said receiver-unit; a guide-pin extending through the downwardly-opening notch in the lower portion of the said bolt-stopping member to guide the same; and spring-means urging the said bolt-stopping member downwardly in its retired position.

2,321,046
PHOTOMECHANICAL NEGATIVE
Benjamin Rudnick, Huntington, N. Y., assignor to Republic Aviation Corporation, Farmingdale, N. Y., a corporation of Delaware
Original application May 21, 1941, Serial No. 394,403. Divided and this application November 10, 1941, Serial No. 418,435
6 Claims. (Cl. 41—46)



1. Photo-mechanical negative for reproducing designs comprising a backing member, a layer of a luminescent composition supported upon said backing member, and a coating of an opaque masking material overlying said layer of luminescent composition, said masking material being of a thickness and composition such as to be readily penetrable by a stylus.

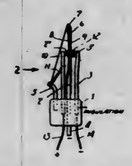
2,321,047
ARTIFICIAL LEATHER
Paul L. Salzberg, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 29, 1940, Serial No. 348,281
6 Claims. (Cl. 18—56)

1. A process for making artificial leather which comprises cold working in the solid state and at a temperature below 50° C. to an elongation of 50 to 200 per cent a sheet of synthetic linear polyamide composition, said polyamide having an intrinsic viscosity above 0.4, and then subjecting the sheet to mechanical pressure without materially changing the linear dimensions of the sheet at a temperature above 60° C. but below the melting point of said composition.

2,321,048
OPALESCENT SYNTHETIC RESINS
Calvin E. Schildknecht, Bloomfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 12, 1941, Serial No. 410,631
6 Claims. (Cl. 260—42)

1. An opalescent resin resulting from the polymerization of a mixture comprising, per 100 parts by weight, 50–70 parts of a polymer component essentially consisting of methyl methacrylate polymer, 25–45 parts of styrene monomer, and 3–8 parts of a second monomer from the group consisting of methyl methacrylate, methyl acrylate, vinyl acetate, and n-butyl methacrylate monomers.

2,321,049
THERMAL SWITCH DEVICE
Joseph Schmidinger, New York, N. Y.
Application April 10, 1940, Serial No. 328,802
17 Claims. (Cl. 200—113)



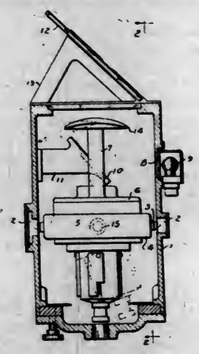
1. A thermal switch mechanism comprising a support, a double spring strip having the members thereof disposed face to face and firmly anchored at one end to said support and rigidly fastened at the other and free end to each other for putting one of the members under buckling constraint when the free end is moved relatively to the support, said strip carrying a contact, and an expansible wire fastened at the free end of said spring strip and biasing said strip to occupy one position when the wire is relatively cool and another position when the wire is relatively hot.

2,321,050
CONTAINER
Richard H. Seymer, Newark, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 19, 1941, Serial No. 403,223
4 Claims. (Cl. 229—7)



1. A container for liquids, comprising in combination, a tubular container body, a flat top end member for said body having a filling and dispensing opening, an integral double layer closure unit folded upon itself so as to constitute an outer removable layer and an inner permanent layer sealed together at their contacting marginal portions, said removable layer having a depending friction plug section engaging within an opening cut in said inner layer, said double layer closure unit being secured to said top end member to close and seal the filling and dispensing opening therein, said outer removable layer being separable from said under layer for opening the container by removing said plug section from the inner layer opening, whereby a sterile surface of the under layer is exposed for pouring of the container contents over such sterile surface.

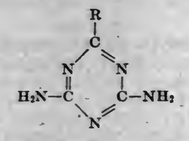
2,321,051
STABILIZED HORIZON
Thomas L. Thurlow and Samuel M. Burka, Dayton, Ohio
Application February 12, 1941, Serial No. 378,583
5 Claims. (Cl. 88—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a casing, a lens, means for mounting said lens on said casing with freedom for universal movement about a substantially horizontal plane spaced from said lens a distance equal to the principal focal distance of the lens, means for gyroscopically stabilizing said lens, a reticle carried by said casing at a distance from the lens such that the optical path from the reticle to the lens is equivalent to the principal focal distance of the lens, a mirror for transmitting light rays carrying an image of said reticle to said lens and a mirror carried by said casing for changing the direction of the light rays emanating from said lens from vertical to horizontal.

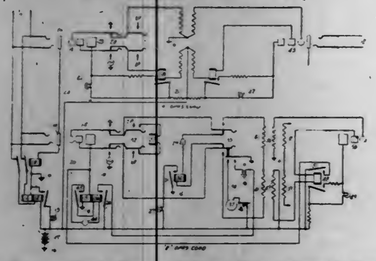
2,321,052
BRANCHED CHAIN GUANAMINES AND PROCESSES OF PRODUCING SAME
Jack T. Thurston, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 26, 1940, Serial No. 331,809
9 Claims. (Cl. 260—248)

1. A guanamine having the following general formula:



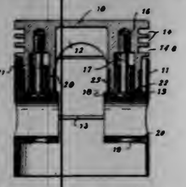
where R is a branched chain aliphatic radical containing at least 7 carbon atoms.

2,321,053
TELEPHONE SYSTEM EMPLOYING PHONOGRAPHS
Harry R. Van Deventer, New York, N. Y., assignor to Peatrophone Corporation, New York, N. Y., a corporation of Nevada
Application January 13, 1942, Serial No. 426,630
41 Claims. (Cl. 179—6)



1. In combination with a line circuit having exchange signalling equipment normally connected thereto, a cord circuit connected to said line circuit, a second cord circuit, signal means in said cord circuit responsive to ringing current supplied via said second cord circuit, switching means in said first cord circuit for disconnecting said signal means therefrom, a phonograph having a motor controlled by said switching means, and talking circuits for said phonograph connected to said first cord circuit.

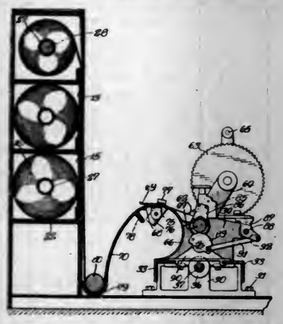
2,321,054
PISTON
Victor Vostrez, Tobias, Nebr.
Application November 22, 1940, Serial No. 366,651
10 Claims. (Cl. 309—14)



1. A piston comprising a skirt of a relatively low expansion metal and a head of a relatively high expansion metal, means for securing said head to said skirt at points spaced inwardly of the outer surfaces of said head and said skirt, the distance between said points of connection being so related to the diameter of the piston skirt across the working surfaces thereof that the product of said distance and the difference between the coefficients of expansion of the high expansion metal and the low expansion metal is equal to the product of the diameter across the working surface and the coefficient of expansion of the low expansion metal of the skirt, so that the diameter of the piston skirt across the working face thereof remains substantially constant.

2,321,055
WINDOW SHADE MACHINE
Harold Warp, Chicago, Ill.
Application August 10, 1940, Serial No. 352,129
17 Claims. (Cl. 1—3)

17. A window shade machine comprising, in combination, means for supporting a roll of shade material and means for completing a shade of any width equal to or less than the width of the material comprising means for rotatably supporting a shade roller upon which the material is to be wound, laterally adjustable cutting means through which the material is drawn as it is wound onto the roller, means for securing the end of the material to the shade roller while in said supporting means to enable the roller when rotated to draw the material through said cutting means, said securing



means being mounted on the shade machine and movable longitudinally thereof to act on the roller throughout its length and comprising a stapler head and an anvil swingable into supporting position beneath the roller as an incident to a stapling operation, and means for positively engaging said roller to enable the roller to be rotated to draw the material through said cutting means and to wind the same on said roller.

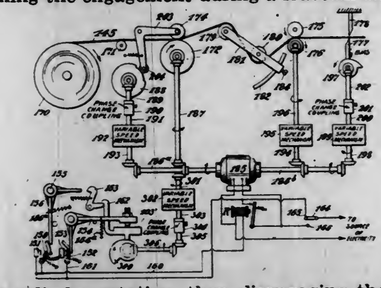
2,321,056
PROCESS AND REAGENT FOR RESOLVING EMULSIONS
Truman B. Wayne, Houston, Tex.
No Drawing. Application July 29, 1938, Serial No. 222,061
16 Claims. (Cl. 252—337)

1. A petroleum demulsifying composition which comprises as a component a water-wettable, interfacial and surface active modified alkyd resin condensation product characterized by the presence of at least one sulfo group in the molecule attached directly to at least one aromatic polycarboxy acid residue, and in the proportion of one sulfo group for each sulfonated aromatic polycarboxy acid residue and further characterized by the presence of at least one residue from a higher aliphatic body selected from the group consisting of hydroxylated fatty bodies, hydroxylated fatty amino bodies and non-nitrogenous polyhydric alcohols.

2,321,057
METHOD OF PRINTING
Adolph Weiss, Brooklyn, N. Y., assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y., a corporation of Ohio.
Original application June 2, 1938, Serial No. 211,325. Divided and this application October 25, 1939, Serial No. 301,113
9 Claims. (Cl. 101—426)

1. In the art of printing, the method of producing individual printed slips having cylinder impression lengths less than the peripheral length of the printing cylinder, which method comprises: continuously rotating the printing cylinder for a full revolution, continuously feeding a web to be printed in one direction only and in a path adjacent to said printing cylinder so that said web

may be brought into printing engagement therewith, engaging the web with the cylinder at a predetermined point in the cylinder rotation, maintaining the engagement during a fraction only of



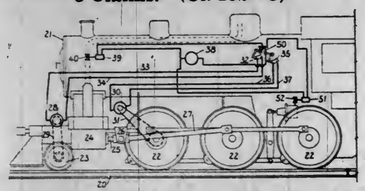
the cylinder rotation, then disengaging the web from the printing cylinder and feeding a length of the web corresponding to the length of the cylinder impression on the web to a severing point, and there severing said length from the web.

2,321,058
FLOATING ROOF FOR LIQUID STORAGE TANKS
John H. Wiggins, Chicago, Ill.
Application November 1, 1940, Serial No. 363,837
6 Claims. (Cl. 220—26)



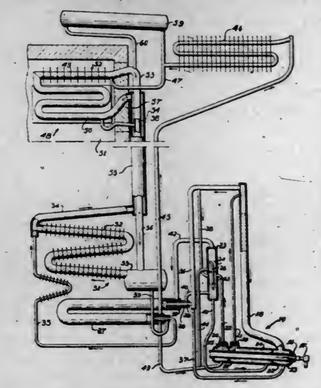
6. A floating roof for liquid storage tanks, comprising a stiff peripheral pontoon whose bottom slopes downwardly and inwardly towards the center of the roof, a stiff center pontoon arranged in spaced relation with said peripheral pontoon and provided with a bottom of substantially inverted cone shape, a single deck portion attached to said pontoons so as to bridge the space between the same and sloping downwardly and inwardly from the top of the peripheral pontoon, said deck having an annular trough adjacent said center pontoon provided with oppositely-inclined drainage surfaces, a primary drain leading from a low point of said trough that is located below the surface of the buoyant liquid, and an auxiliary open drain leading from said trough and having its inlet located at a level higher than the level of the buoyant liquid.

2,321,059
ANTISLIPPING DEVICE FOR LOCOMOTIVES
Albert F. Anderson, San Francisco, Calif.
Application January 6, 1941, Serial No. 373,225
3 Claims. (Cl. 192—3)



1. In a railway locomotive, having drivewheels and rotatable pilot wheels rolling on supporting rails, a motor connected with the drivewheels for rotating them, and a brake mechanism operatively connected with the drivewheels for resisting their rotation, means for reducing the tendency of the drivewheels to slip on the rails during the application of power and during braking, said means comprising, a speed responsive device connected with the drivewheels and another connected with the pilot wheels, said devices being responsive to the peripherial speeds of the wheels, means operated by the speed responsive devices on an increase in the peripherial speed of the drivewheels relative to the peripherial speed of the pilot wheels, for reducing the amount of power delivered to the drivewheels, and means operated by the speed responsive devices on a decrease in the peripherial speed of the drivewheels relative to the peripherial speed of the pilot wheels, due to an excessive braking action, to reduce the braking action.

2,321,060
REFRIGERATION
Carl T. Ashby, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application September 16, 1941, Serial No. 410,978
11 Claims. (Cl. 62—119.5)



1. A refrigeration system including an evaporator, an absorber, a gas circuit including said evaporator and absorber, a condenser for supplying liquid refrigerant to said evaporator, a generator for supplying refrigerant vapor to said condenser, and a liquid circuit including said generator and absorber, said liquid circuit also including an analyzer, said analyzer being of a type in which vapor comes into contact with absorption liquid while raising the liquid by vapor lift action, a rectifier for vapor flowing to said condenser, said rectifier being located at a level below the surface level of liquid in said analyzer, and a lift for raising condensate from said rectifier to said analyzer.

2,321,061
VALVE GEAR
Charles E. Hathaway, New York, N. Y.; Desdemona B. Hathaway, administratrix of said Charles E. Hathaway, deceased
Application January 28, 1941, Serial No. 376,388
18 Claims. (Cl. 121—165)

1. In a valve gear, and in combination, a cam movement and a crank movement and combining means for operatively connecting the said movements to a valve, the said cam movement comprising a cam and a train of gears including a movably mounted intermediate gear pair for

driving the same, and comprising also control means for revolving said intermediate gear pair about adjacent gears to advance and retard the said cam movement.



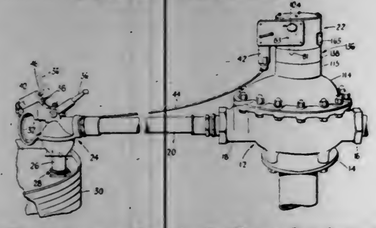
4. In a valve gear for steam engines, and in combination, means for producing a lap and lead motion, means for producing an additional travel motion, and control means for adjusting the first said means to reverse the engine.

2,321,062

REPEAT VALVE SHUTOFF SYSTEM

Charles P. Bergman, San Francisco, Calif., and Mead Cornell, Cleveland, Ohio, assignors, by mesne assignments, to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application September 13, 1940, Serial No. 356,614
9 Claims. (Cl. 221—101)



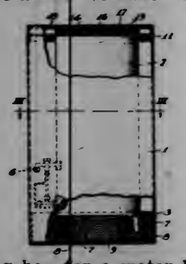
1. Repeating valve shut-off mechanism comprising a casing adapted to be secured to a meter body, a horizontal shaft having one end projecting from the casing, means for driving said shaft from the meter, a sprocket on the exposed outer end of the shaft, a readily removable chain hung on said sprocket, a cam on said chain, a trip, a trip spring, trigger mechanism for holding the trip against the action of the spring, and means connected to said trigger and disposed adjacent the sprocket in such position as to be actuated by the cam to release the trip for movement by the trip spring.

2,321,063

PACKING BOX

Herman C. Bohnke, Carnegie, Pa., assignor to Superior Paper Products Company, Crafton, Pa., a corporation of Delaware

Application May 24, 1941, Serial No. 395,042
4 Claims. (Cl. 206—46)



1. A packing box for a water heater and the like having legs at its bottom and a projecting pipe connection at its top, said box comprising a paper-board carton, a filler member in the bottom of the carton for engaging and supporting said heater and provided with vertical openings for receiving said legs, a filler member in the top of the carton for engaging the top of the heater and spacing it from the carton, said top filler member being provided with an opening for receiving said pipe connection, and a protective member disposed between the top filler member and the top of the carton and provided with an opening for receiving said pipe connection.

2,321,064

FLEXIBLE TUBING

William E. Broedling, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 5, 1940, Serial No. 368,564
1 Claim. (Cl. 138—56)



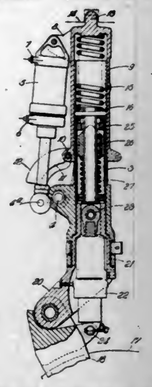
Manually-bendable light weight tubing for conducting low pressure warm air and the like with a minimum of skin friction, comprising: an inner tube of thin flexible fabric having a substantially smooth cylindrical internal surface, a wire helix of loose pitch coaxially disposed around said smooth inner tube, an outer tube of thin flexible fabric disposed around said helix-bound inner tube and having a helical radially inwardly-extending rib of correspondingly loose pitch formed therein and cemented to the external surface of said substantially-smooth inner tube to define therewith a wide helical channel within which said wire helix is loosely disposed permitting substantial axial displacements of its individual turns relative to each other enabling facile bending of the tubing without material localized buckling of said inner tube.

2,321,065

MOUNTING FOR AIRCRAFT COMPONENTS

Peter Walter Burke, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England

Application January 29, 1941, Serial No. 377,397
In Great Britain February 1, 1940
12 Claims. (Cl. 244—102)



1. In a retractable aircraft undercarriage or

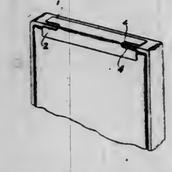
the like, a pillar rotatable about a fixed pivot, a ground-engaging element supported from said pillar, a cap movable lengthwise of the pillar, cam means engageable by said cap, and so positioned relative to the retractional pivot as to effect such movement of the cap during retraction and extension of the undercarriage, spring means reacting between the cap and the pillar to resist such movement during retraction, and to effect such movement by reaction through the cam, during extension, and jack means to effect rotation of the pillar about the retractional pivot, in opposition to the spring means.

2,321,066

PACKAGE SEALING AND OPENING MEANS

Jack C. Dense and John H. Craft, Jr., Rochester, N. Y., assignors to Defender Photo Supply Co., Inc., Rochester, N. Y., a corporation of New York

Application July 15, 1942, Serial No. 451,078
3 Claims. (Cl. 229—51)



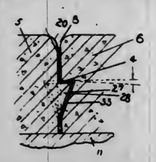
1. Package sealing and opening means comprising a continuous strip having openings arranged at intervals in alinement endwise thereof and between its opposite edges, adhesive material on one face of the strip, and a rip cord extending endwise of the strip across said openings and centrally thereof on the same side as the adhesive material and secured to the strip all along the latter, said openings being of a size to permit access to the cord.

2,321,067

PREFORMED STRIP FOR FORMING EXPANSION JOINTS

Guy C. De Witt, Utica, N. Y.

Application May 15, 1942, Serial No. 443,143
7 Claims. (Cl. 94—18)



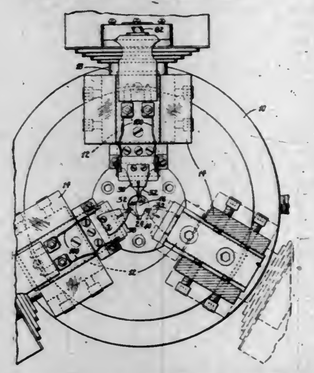
1. A preformed, imperforate one-piece strip for forming an interlocking expansion and contraction joint in concrete, comprising a self-sustaining compressible and resilient strip of a width equalling the thickness of the abutting concrete in which the joint is to be made, said strip having formed wholly therewithin offset portions forming pockets open in the plane of the strip and with one side of certain of said offset portions almost horizontal so that separated interlocking and load-transferring mortise and tenon portions are formed in the concrete placed on the opposite sides of the strip and the material forming the strip and its offset portions can be compressed by the expansion of the concrete.

2,321,068

METHOD OF WELDING

William J. De Witt, Andrew Hommel, and Alexander Schoenwald, Auburn, N. Y., assignors to Shoe Form Co. Inc., Auburn, N. Y., a corporation of New York

Application January 23, 1941, Serial No. 375,658
5 Claims. (Cl. 219—10)



1. The method of welding together three elongated metal articles, which consists in placing the articles together in such manner that each of them is in engagement with the other two, applying pressure to force the articles together, connecting each of the articles to a different phase of a three-phase alternating current circuit, and passing a current of welding strength through the circuit while said pressure is maintained thereby to weld the articles together along the areas of engagement.

2,321,069

PRODUCTION OF CELLULOSE DERIVATIVES

Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application July 17, 1941, Serial No. 402,851. In Great Britain April 19, 1940
5 Claims. (Cl. 260—224)

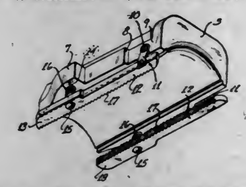
1. Process for the production of sulphur-containing cellulose derivatives, which comprises reacting with a bisulphite an organic derivative of cellulose selected from the group consisting of organic acid esters and ethers of cellulose in which a substituent radicle contains an ethylene linkage by heating the reactants.

2,321,070

JOURNAL BOX

Joseph Dresner, St. Louis, Mo.

Application October 16, 1941, Serial No. 415,202
2 Claims. (Cl. 308—89)



1. In combination, in a journal-box, a bearing-member for disposition upon a wheel-axle disposed within the box, the box having a chamber below such axle for receiving cotton waste and

lubricant and said member being on a side face formed with an outwardly projecting boss at one end and cut-away in the provision of a clearance-space at its opposite end, a depending hanger-arm loosely flatwise attached at an end to said member at said clearance-space, a longitudinal bar attached at one end to said arm and provided at its opposite end with an offset, and means including a stud engaging said bar at said offset and said member at said boss and a spring coiled on the stud intermediate the bar and said member for securing the bar at said opposite end yieldingly to the bearing-member in approximate parallel relation to the wheel-axle, the bar being provided on its inner face with a longitudinal series of serrations for catching and restraining from said member any cotton waste which may be drawn upwardly in the box on and by rotation of the wheel-axle.

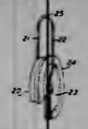
2,321,071

METHOD OF ASSEMBLING DRY RECTIFIERS AND THE LIKE WITH SOLDER

Robert A. Ehrhardt, New Providence, N. J., and Edgar E. Wright, Whitestone, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 18, 1941, Serial No. 398,582

9 Claims. (Cl. 113—112)



1. The method of assembling a conductive device comprising metallic conductive members and units having metallic conductive and non-metallic semiconductive portions that comprises protecting the semiconductive portions of the units from further processing, temporarily assembling a desired number of members and units, immersing the assembly in a first bath of a material that will penetrate the pores of said assembly without injury thereto, removing the assembly from said bath, immersing it in a second bath of a low melting point solder having a layer of weak fluxing material on its surface, and removing the assembly from the second bath when all the conductive portions thereof are coated with solder, said baths each being maintained at a temperature above the melting point of the solder and below a temperature high enough to cause injury to any element of the assembly.

2,321,072

METHOD OF MAKING ADHESIVE-COATED SURFACES AND PRODUCTS SO MADE

Bernhardt J. Eiseman, Jr., Memphis, Tenn.

Application September 27, 1940, Serial No. 358,582

12 Claims. (Cl. 117—62)



9. The method of coating sheet material with adhesive which comprises spreading on a surface of said material a suspension comprising water and unconverted starch, heating the suspension until the starch is converted, thus forming a coating on said material, while maintaining the outer surface of the coating free, and then exposing said free outer surface to humid air and ammonia vapor.

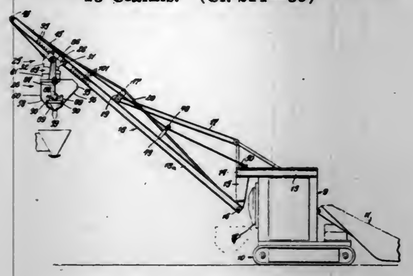
2,321,073

INCLINABLE BOOM AND BUCKET FOR CONCRETE MIXERS

John D. Farrell, Nunda, N. Y., assignor to The Foote Company, Inc., Nunda, N. Y., a corporation of Delaware

Application May 22, 1942, Serial No. 444,151

15 Claims. (Cl. 214—59)



1. An inclinable boom and bucket assembly for concrete pavers and the like, comprising a boom having one end adapted to be pivotally secured to said paver to permit it to be raised and lowered to different inclinations and being formed to provide a track extending lengthwise thereof, a carriage having rollers riding on said track and having a depending arcuate member extending lengthwise of said boom, said arcuate member being concentric with a horizontal axis extending centrally through said carriage and transversely of said boom, a bucket adapted to receive the material to be distributed from said paver, means for pivotally supporting said bucket on said carriage concentric with said axis, and means for securing said bucket to said arcuate member at different positions along the arc thereof thereby permitting said bucket to be leveled upon moving said boom to different inclinations.

2,321,074

WATER COOLED SKEWBACK CASTING

Charles R. Fon Dersmith and William W. Bergmann, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Application January 27, 1941, Serial No. 376,062

10 Claims. (Cl. 122—6)



1. In a skew back construction an angularly disposed wall providing a skew face, a vertical wall joining the skew face at the top whereby the skew back may be attached to supports, a horizontal stiffening rib at the bottom of the skew face and of a width to give the skew back a substantially triangular formation, a slanting wall extending between the front wall and the stiffening rib and spaced both from the edges of said walls and from the juncture thereof to provide a chamber for cooling fluid located at and substantially confined to the nose of said skew back, and connections to said chamber for ingress and egress of cooling fluid.

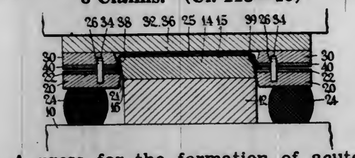
2,321,075

MEANS FOR FORMING SHEET METAL

Christopher J. Frey, Forest Hills, and Stephen Thomas, Astoria, Long Island, N. Y., assignors to Brewster Aeronautical Corporation, Long Island City, N. Y.

Application June 10, 1941, Serial No. 397,426

8 Claims. (Cl. 113—46)



1. A press for the formation of acute angle flanged sheet metal articles comprising, in combination, a press bed, a male form resting upon said press bed and adapted to support the major body portion of a stock sheet thereon and having opposite parallel side wall portions sloped obliquely to the press axis to complement the desired flanged form of said stock sheet, a pressure pad arranged adjacent said male form contiguous to said side wall portions thereof, a press ram arranged above said press bed, a female die mounted upon said ram in registry with said male form and adapted to cooperate with said pressure pad to clamp therebetween portions of said stock sheet extending laterally of said male form upon lowering of said ram, means adapted to fix said female die and said pressure pad against relative lateral movement upon lowering of said female die below the upper level of said male form, and support means extending between said pressure pad and said press bed normally supporting said pressure pad at an elevated position of registry with said male form and being elastically deformable in transverse directions and adapted to be deformed under pressure forces applied by said ram to permit said pressure pad and female die unit to move as a unit to a position below the level of said male form and laterally of the direction of ram movement in response to the camming action of sloping wall portions of said male form.

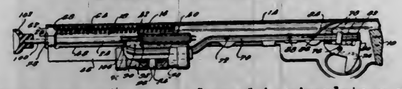
2,321,076

PUMP TYPE DART GUN

John J. Gora, River Rouge, and Edward J. Wyrick, Wyandotte, Mich., assignors to All Metal Products Company, Detroit, Mich., a corporation of Delaware

Application March 25, 1940, Serial No. 325,751

1 Claim. (Cl. 124—16)



In a toy spring gun shaped to simulate a rifle and adapted to shoot darts, a sheet metal casing having a barrel portion, said barrel portion having upper and lower intercommunicating longitudinally extending chambers each of which is substantially circular in cross-section, the lower chamber being provided with a longitudinally extending slot in the underside thereof, a spiral spring mounted within said lower chamber adjacent the forward end thereof and compressible and expansible longitudinally thereof, another spiral spring mounted within the upper chamber adjacent the forward end thereof and compressible and expansible longitudinally thereof, pump means including an elongated member having flanges formed on the upper edge thereof, said flanges being slidably mounted on the edges of said slot, said member having an upwardly extending projection at the front end thereof which projects through said lower chamber and into said upper chamber, said projection engaging both of said springs whereby both of said springs are compressed when said member is slid rearwardly of said barrel, means releasably engaging said first named spring when said first named spring is compressed, the construction and arrangement being such that said another spring returns said member to its initial position after said first named spring is releasably engaged.

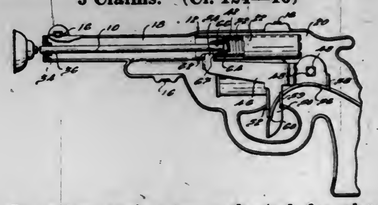
2,321,077

PISTOL TYPE DART GUN

John J. Gora, River Rouge, and Edward J. Wyrick, Wyandotte, Mich., assignors to All Metal Products Company, Wyandotte, Mich., a corporation of Delaware

Application March 25, 1940, Serial No. 325,752

5 Claims. (Cl. 124—16)



1. In a toy spring gun adapted for shooting darts, a sheet metal casing formed to simulate a gun having a barrel portion, a spring within said casing movable longitudinally of said barrel portion, means within said casing forming a seat for said spring, a cup-shaped member having a peripheral flange slidably disposed within said casing and engageable with said spring, the construction and arrangement of said member with respect to said spring being such that the base of said member is loosely received within the forward end of said spring and the peripheral flange abuts against the forward convolution of said spring when said member is engaged by the dart to compress the spring to loaded position, and means releasably engaging said flange at one point when said spring is loaded, to thereby tilt said cup-shaped member resiliently bears against the shaft of said dart to keep said dart from falling out of said gun.

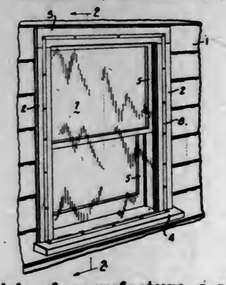
2,321,078

FLEXIBLE STORM WINDOW

Albert D. Greene, Alpha, Ohio, assignor of one-half to Everett P. Larsh, Vandalia, Ohio

Application February 15, 1940, Serial No. 319,048

1 Claim. (Cl. 160—354)



As an article of manufacture, a self-supported

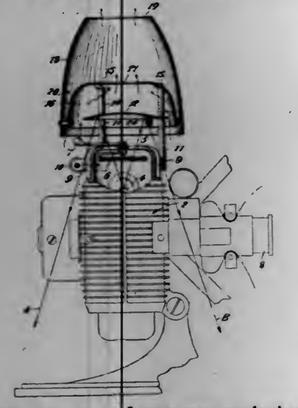
roll consisting of a plurality of spaced sheets of Cellophane hermetically secured together at the edges and providing a dead air space between the unsecured surfaces of the sheets whereby the roll is adapted, when unrolled, to be fastened at the secured edges over an opening in a house to serve as a storm window.

2,321,079
HYDRAULIC DOOR OPERATOR
Harold A. Greenwald, Los Angeles, Calif.
Application January 30, 1940, Serial No. 316,392
4 Claims. (Cl. 121—44)



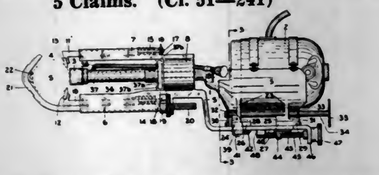
1. In an operating mechanism of the character described, an hydraulic engine comprising a reciprocable piston, hydraulic means for moving said piston in either direction, and control means for determining in which direction said piston shall move, said control means comprising a valve adapted to be placed in either of two optional positions to direct hydraulic fluid to said engine upon the associated side of said piston, spring means for actuating said valve, and means actuated by said piston in moving in either direction for deforming said spring to store energy therein and for moving said spring to that position wherein it yieldably retains said valve in its then position but requires only slight movement of the valve from said position to cause said spring to urge this valve to move to its opposite position, movement of said spring by said piston while said piston is moving in one direction occurring as said piston is in the final portion of its stroke, and movement of said spring by said piston while said piston is moving in the opposite direction, occurring as said piston is in the initial portion of its stroke.

2,321,080
LIGHT TRAP FOR PROJECTORS
Harry Haber, New York, N. Y.
Application May 16, 1941, Serial No. 393,697
6 Claims. (Cl. 88—24)



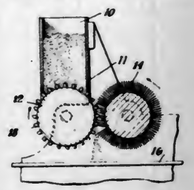
1. A light trap for a home use projector having a lamp housing with an open upper end through which light rays normally escape in an upward direction when said projector is in normal operation, said light trap comprising attaching means adapted to be secured to a portion of said projector, a light shield mounted upon said attaching means and arranged above the open end of said lamp housing of said projector to intercept said light rays normally escaping in an upward direction through said opening, a shield bell arranged above and around said light shield in such manner as to provide an air passage around said light shield for heated air escaping through said opening in said lamp housing, and an air bell mounted over and above said shield bell to provide additional air passages to facilitate the escape of heated air issuing through the opening in the lamp housing, said shield bell and said air bell being provided with openings through which said heated air may escape.

2,321,081
SHAFT GRINDER
Wilfred C. Hanrahan, Iowa City, Iowa
Application November 10, 1941, Serial No. 418,485
5 Claims. (Cl. 51—241)



1. In a grinder for shafts having bearing spaces and shoulders at the ends of said spaces; an abutment jaw against which a shaft may be held, a plurality of movable jaws to be spring-held against said shaft, longitudinal supports for said jaws extending substantially perpendicular to the axis of said shaft, a support for the jaw supports, means for positively adjusting the distance of the support from the abutment jaw, and resilient means for resiliently holding the movable jaws toward the abutment jaw.

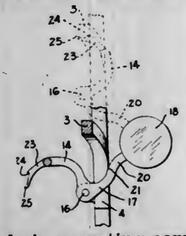
2,321,082
FEEDING AND DISTRIBUTING MECHANISM
Norman P. Harshberger, Scarsdale, N. Y., assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y., a corporation of New York
Application April 29, 1939, Serial No. 270,731
5 Claims. (Cl. 91—43)



1. In a coating unit comprising a hopper, a feed roll, and a coating distributing member, the improvement which comprises a feed roll having a plurality of individual projections substantially uniformly spaced over the surface thereof, each surrounded by a material carrying space; and a material distributing member having a surface comprising a plurality of filament-like flexible individual projections substantially uniformly spaced over the surface and secured to the roll by

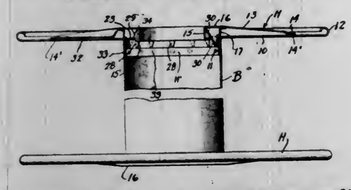
a flexible base piece, each pair of filaments comprising a U shaped piece, the bases of said U shaped pieces extending longitudinally of the roll; said feed roll removing material from said hopper, and the projections on said distributing member removing material from the material carrying space of said feed roll.

2,321,083
OPHTHALMIC MOUNTING
Joseph E. Higgins, Grand Island, Nebr., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 22, 1940, Serial No. 366,684
5 Claims. (Cl. 88—49)



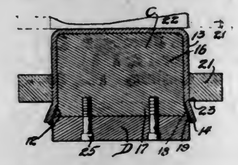
1. An ophthalmic mounting comprising a pair of lens holding members, a main bridge member having a central arch portion connecting said lens holding members, an auxiliary bridge pivotally connected to the mounting adjacent the ends of the bridge member, said auxiliary bridge member having rearwardly extending nose pad supporting arms, said supporting arms having an intermediate portion deflected for engagement with the mounting adjacent the main bridge, and functioning as stop means in one position of adjustment, nose bearing pads attached to said arms, and resiliently supported notched latch means carried by the central portion of said auxiliary bridge for engaging the central arch portion of the main bridge member in one position of adjustment of the nose bearing pads for supporting said pads in said adjusted position.

2,321,084
SPOOL
Hilyard C. Howsam, Chicago, and George G. Tucker, Jr., Berwyn, Ill., assignors to Hubbard Spool Company, Chicago, Ill., a corporation of Illinois
Application November 15, 1941, Serial No. 419,230
9 Claims. (Cl. 242—123)



1. A sheet metal spool comprising a cylindrical barrel, head structures, each head structure comprising a flange disk having its central portion deflected to form an annular hub fitting into the corresponding end of said barrel, an outer disk of less diameter than said flange disk but concentric therewith and secured along its outer peripheral portion to the flange disk by welding, the portion of said outer disk inwardly of its peripheral portion inclining outwardly from the flange disk and having its central portion deflected inwardly to form an annular bushing, an annular supporting and spacing member having its inner end fitting in said flange disk hub and welded thereto and having its outer portion welded to said outer disk, an annular brace member having its inner portion engaging in the inner part of said spacing member and welded thereto and having its outer portion intimately surrounding said bushing, and means for securing said head structures to the barrel ends.

2,321,085
METHOD FOR PRODUCING DRAWN CUPS WITH FACED AND BEVELED EDGES
Henry H. Hubbard, Grosse Pointe Farms, Mich., assignor to Electromaster, Inc., Detroit, Mich., a corporation of Michigan
Application November 6, 1941, Serial No. 418,029
1 Claim. (Cl. 29—148.2)

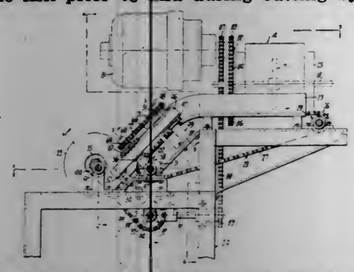


The method of producing a drawn cylindrical cup with its edge portion internally beveled and terminating in a base surface in a plane at right angles with the cup axis, which comprises first die drawing a sheet metal blank to form an embryo cup with a cylindrical body and a flared edge portion with frusto-conical inner and outer surfaces, then mounting this embryo cup on a die block structure having a frusto-conical surface parallel with but radially displaced from the inner frusto-conical surface on said flared edge portion and with said die block structure having an annular flat surface at the base of the frusto-conical surface thereon terminating in a cutting edge, and then forcing a forming ring along the outside of the body of the embryo cup with an annular cutting edge on the ring engaging with the outer side of said flared portion for subjecting said flared portion to radial inward pressure to force the metal thereof against said frusto-conical surface and the flat surface on said die-block structure and with the cutting edge on said ring finally cooperating with the cutting edge at the end of the flat surface on said die-block structure to shear off surplus metal from said flared portion and to produce the finished cup.

2,321,086
APPARATUS FOR FILLETING FISH
William Hutton, Monterey, Calif., assignor to Seapride Packing Corporation, Ltd., a corporation of California
Original application May 27, 1941, Serial No. 395,401. Divided and this application October 13, 1942, Serial No. 461,879
8 Claims. (Cl. 17—4)

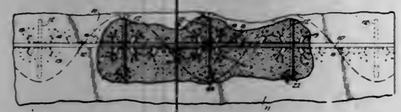
1. In an apparatus for preparing fillets, a frame, a pair of spaced rotary knives journaled on said frame at an acute angle to each other and rotatable to cut a narrow V cut in a decapitated fish, a conveyor for supporting the back of said fish to feed said fish to said knives, feed means on opposite sides of said feed conveyor for moving said fish positively into said knives, and means tending to force together opposite sides of said fish to deform and compress the belly of said fish out and away from the body

of the fish prior to and during cutting by said



knives whereby said knives cut substantially boneless and belly-free fillets off said fish.

2,321,087
MEANS OF REINFORCING VERTICAL FACES OF ROAD SLABS
James H. Jacobson, Chicago, Ill.
Application April 2, 1942, Serial No. 437,308
11 Claims. (Cl. 94—18)



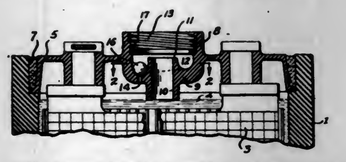
1. In road joint reinforcing means of the character described, a plurality of joint bars arranged in spaced staggered relation to one another and having their ends in overlapping relation, and a load transference member entered through the overlapped ends of the bars and bridging the spaced bars and forming a hinge connection therefor and projecting outwardly in each direction from the bars and in position to have the projecting ends entered through the opposed faces of road slabs and into the interior of the slabs.

2,321,088
NONSLIP LEATHER SOLE
Charlotte T. Johnson, Chicago, Ill.
Application March 5, 1942, Serial No. 433,413
2 Claims. (Cl. 36—59)



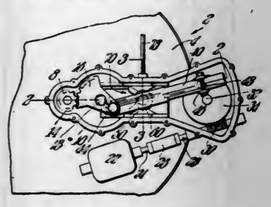
1. A leather outsole for a shoe having on the walkway-engaging face thereof a plurality of non-slipping grippers formed integrally with and derived directly from the leather itself, each of the grippers comprising a pair of divergently related surfaces, one of said surfaces comprising the contiguous original surface area of the walkway-engaging face of the sole, the other of said gripper surfaces comprising a cleanly sheared raw leather plane area extending angularly inwardly from the original walkway-engaging face plane and facing toward the toe end of the sole, the said one surface of each of the grippers slanting heelward inwardly toward the base of the adjoining sheared raw leather surface of the heelward adjacent gripper to expose such raw leather surface for non-slip gripping action in the use of the sole, the material of each gripper inwardly of the base region of said one surface and the contiguous unsheared portion of the sole leather being permanently compacted to substantially greater density than the normal density of the leather, and the leather contiguous to the ridge portions and to the raw leather surfaces of the grippers being of a density approximately the same as the density normal in the leather prior to formation of the grippers.

2,321,089
AUTOMATIC FILLING CONTROL MEANS
Charles L. Keller, Cincinnati, Ohio, assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio
Application February 2, 1940, Serial No. 316,992
9 Claims. (Cl. 136—178)



7. A cell cover having walls defining a filler opening in the form of a well with a bottom, a fixed tubular extension, open through said bottom, and depending therefrom to a desired maximum electrolyte level, said bottom being formed to provide a valve seat portion and a raceway for a ball valve, substantially following the contour of said walls, and so disposed as to cause said valve to roll by gravity to said valve seat portion, an opening through said bottom at said valve seat portion exterior to said tubular extension, a ball valve member, and means within said well to retain a ball valve in said raceway.

2,321,090
DRIVING MECHANISM
Max J. Keltz, Springfield, Mass., assignor to Perkins Machine and Gear Company, West Springfield, Mass., a corporation of Massachusetts
Application December 4, 1941, Serial No. 421,683
6 Claims. (Cl. 74—81)



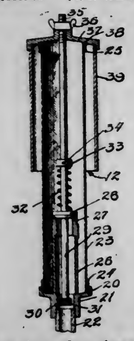
1. The combination with an oscillatable shaft of operating means therefor comprising, an oscillatable driven member fixed on said shaft, a rotatable driving member, a member pivoted at one end to said oscillatable member and having a free end, means on the rotatable member slidably guiding and acting on the free end of the pivoted member to swing it back and forth as the rotatable member rotates, and means acting on the pivoted member to hold the same for swinging movements whereby the swinging of the free end thereof brings about movements of the oscillatable member.

2,321,091
ARTICLE OF APPAREL
Elizabeth Kertesz and Ilonka K. Lorant, New York, N. Y.
Application December 13, 1939, Serial No. 309,046
2 Claims. (Cl. 2—159)



1. An article of apparel comprising, in combination with a glove, a muff portion consisting of multiple fabric layers arranged in tubular form said muff portion having a close fitting wrist end whereby it is connected to the glove and a wide open end capable of receiving a hand, said muff portion being sufficiently long to extend from the wrist back over and cover at least a portion of the hand on which it is worn, so that when used with a similar device on the other hand a complete muff will be formed when the hands are joined.

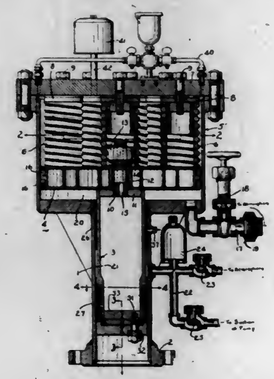
2,321,092
EGG TREATING APPARATUS
Frank B. Lomax, Chicago, Ill.
Application September 12, 1940, Serial No. 356,491
12 Claims. (Cl. 210—154)



1. In an apparatus for treating and filtering egg meats to remove foreign matter and chalazae therefrom, a mixing container for receiving the egg material and having an outlet, means for whirling, agitating and mixing said material in said container, a filter disposed in one side of a portion of the space inside said container, and means for forcing egg material into said filter and laterally therethrough into the mixing container proper, said container having an inlet conduit connection through which egg material is forced and said filter being detachably connected to said connection and extending vertically along a side wall of the container, said filter comprising a screen clamped between cap members the lowermost of which is detachably secured to said conduit connection, the uppermost cap member also being provided with a hood surrounding and spaced from the screen arranged to cover a major portion of the screen and to direct egg material filtered by the upper portion of the screen downwardly toward the bottom of the container.

2,321,093
PRESSURE EQUALIZER
James A. Lupfer, Tulsa, Okla.
Application December 20, 1940, Serial No. 370,953
7 Claims. (Cl. 138—31)

2. In a pressure equalizer, a cylinder, a plunger in said cylinder and adapted to be acted upon by the liquid the pressure of which is to be equalized, a spring pressed piston connected to said plunger, springs acting on said piston in opposition to liquid pressure against said plunger, yieldable means connecting said plunger and piston to allow limited relative movement of the plunger and piston, means for regulating the tension of said springs to regulate the pressure opposing



pressure exerted on said plunger, said piston moving in said cylinder and arranged to provide an air space in opposition to the action of said springs, means controlling the air in said space to provide a regulatable air cushion for the piston, said plunger being provided with opposed differential areas one of which is subject to pressure lower than the liquid pressure acting upon the other area.

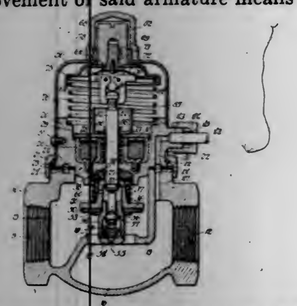
2,321,094
TETRAACETALS OF GLYOXAL WITH GLYCOL MONOETHERS AND PROCESS OF MAKING THEM
Louis G. MacDowell, Charleston, and Raymond W. McNamee, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application March 18, 1941, Serial No. 383,928
11 Claims. (Cl. 260—615)

1. Glyoxal tetra-acetals of glycol mono-ethers.

2,321,095
THERMOELECTRIC SAFETY SHUTOFF DEVICE
Harold A. Mantz, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 24, 1939, Serial No. 286,091
19 Claims. (Cl. 137—139)

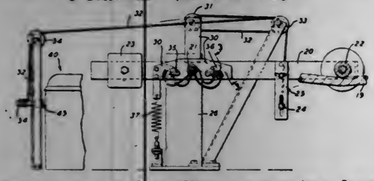
1. In a device of the class described, in combination, a controlling member, means supporting said controlling member for movement to an operative position and to a safety position, armature means mounted for movement to retracted position and to attracted position, an electromagnet which, when energized, is adapted to hold said armature means in attracted position, means for moving said armature means to retracted position upon deenergization of said electromagnet, and latch means for holding said controlling member in operative position and disposed in the

path of movement of said armature means to be



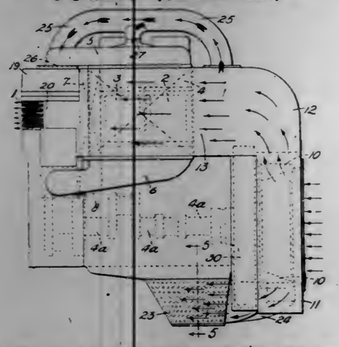
released by movement of said armature means to retracted position.

2,321,096
STRAND HANDLING APPARATUS
Harry H. Merwin, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 14, 1941, Serial No. 406,856
6 Claims. (Cl. 242—45)



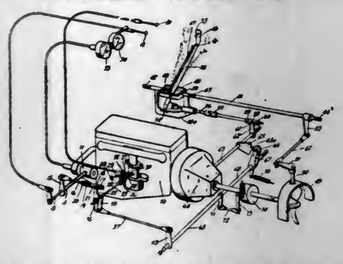
1. In a strand handling apparatus having means to advance a strand longitudinally and means adjustable to control the speed of advance of the strand, means responsive to variations of tension in the strand to adjust the speed control means, and means actuable by the control means to annul the actuation of the means to adjust the control means.

2,321,097
AIR OR GAS COMPRESSOR
Edward Cecil Mills, Camborne, England
Application December 30, 1941, Serial No. 424,910
In Great Britain December 23, 1940
8 Claims. (Cl. 123—119)



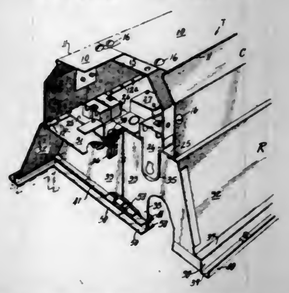
6. A gas or air compressor driven by an internal combustion engine, comprising, in combination with a crank shaft, a two stage compressor cylinder and a plurality of combustion engine cylinders, pistons in said cylinders connected to said crank shaft, an intercooler connected between the two stages of said compressor, an aftercooler connected to the second stage of said compressor cylinder, an air duct embracing said combustion engine cylinders and said intercooler for cooling same, a fan carried by said crank shaft for circulating cooling air above atmospheric pressure through said duct, louvres in said duct adjacent said compressor cylinder and said aftercooler for directing air thereover to cool same, and branch conduits leading from a region of said air duct in advance of said combustion engine cylinders and connected to the inlets of said combustion engine cylinders and said compressor cylinder for supercharging same with cool air.

2,321,098
BOAT-CONTROL SYSTEM
John F. Morse, Hudson, Ohio
Application May 15, 1942, Serial No. 443,159
20 Claims. (Cl. 115—35)



1. A boat control system comprising a motor throttle, governor-control-over-riding means, motor-disabling means, a brake, steering means, a manual-control member, and means operatively connecting said member with all of the other elements recited.

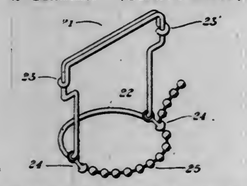
2,321,099
LIGHTING EQUIPMENT
Shirley R. Naysmith, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application October 11, 1941, Serial No. 414,586
5 Claims. (Cl. 240—78)



2. Continuous lighting equipment comprising a plurality of inverted channel shaped units each having at least two stiffening cross members secured across the bottom thereof, one cross member at each extreme end, means to couple the ends of the units together to form a continuous wiring channel, the units being of substantial width and depth to provide vertical and lateral stiffness to the wiring channel, means for supporting the wiring channel from above at random

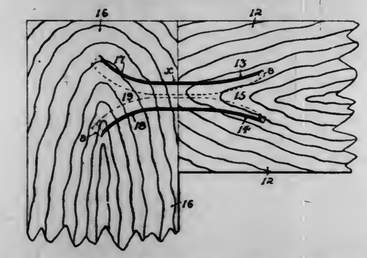
points along its length, each cross member being notched to accommodate at least one downwardly extending fluorescent lamp holder, a plurality of lamp holders, the lamp holders of alternate cross members facing in opposite directions, the length of the said units being such as to accommodate a fluorescent lamp between the lamp holders at the opposite ends of the said units and to place the backs of the lamp holders at the ends of two adjacent units in the same plane as the ends of adjacent units whereby the lamps may be carried end to end except for the space required by the lamp holders, channel bottom covers of the same length as the said channel shaped units and notched to accommodate the lamp holders, and means for securing the covers to the cross members above the lamps.

2,321,100
BOTTLE CARRIER
Fred E. Oderkirk, Midland, Mich.
Application May 9, 1942, Serial No. 442,352
2 Claims. (Cl. 215—100)



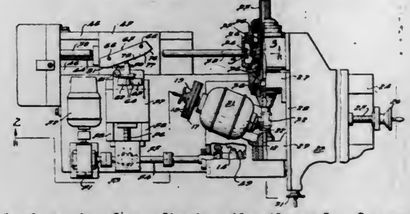
1. In a bottle carrier, the combination of a unitary wire frame consisting of a bail extending in a plane perpendicular to that of an arcuate wire support of slightly larger radius than that of the neck of a bottle, a bead-chain yoke complementing the arcuate wire member so as to grip the neck of a bottle, and ringed bead-chain sockets slidably attached to the bail on either side and detachably engaging the bead-chain at intermediate points so as to permit variation in the length of the yoke.

2,321,101
DOWEL PIN EMPLOYED IN JOINING WOODEN MEMBERS
Gerald Openshaw, Ashton-on-Mersey, England
Application July 6, 1938, Serial No. 217,749
In Great Britain January 8, 1938
4 Claims. (Cl. 85—11)



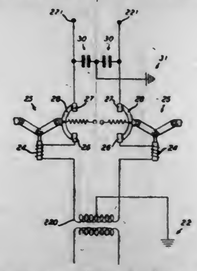
1. A dowel pin comprising an elongated metal member having a tubular end portion adapted to be driven into a wooden part to be joined to another without boring said part, said end portion being hollow throughout its driving length and having its outer extremity internally beveled to provide an entering edge which will lead the hollow end to expand upon driving the pin, one or more narrow longitudinal slits in the wall of said pin extending from said beveled entering edge toward the opposite end of the pin, the slits being widely spaced peripherally of the wall of said tubular end, whereby one or more wide arcuate portions of said wall are formed which when the pin is driven spread apart and expand transversely of the pin so as to increase their radius of curvature and enclose a substantially frusto-conical core of wood, said portions being of sufficient arcuate extent as to afford substantial resistance to expansion and spreading on being driven, so that said resistance alone applies a substantial compression to said frusto-conical core of wood and thus effects a firm embedment of the pin.

2,321,102
TOOTH RELIEVING MACHINE
Harry Pelphrey, Detroit, Mich.
Application October 24, 1940, Serial No. 362,490
6 Claims. (Cl. 90—2)



1. A device for relieving the threads of a worm which includes, means for supporting a worm blank, means for driving said blank at a constant speed, a slide driven by said driving means, a template on said slide, a cutting tool, a table supporting said tool, means for driving said table, a second slide, a stylus carried by said second slide and engageable with said template as the template is advanced, and means operated by said stylus for energizing and de-energizing the second said driving means in accordance with the relative position between the stylus and template.

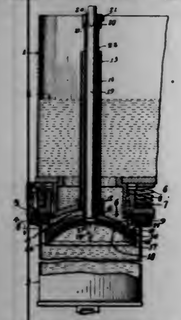
2,321,103
ELECTRICAL CIRCUIT
John A. Robinson, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 13, 1940, Serial No. 323,681
2 Claims. (Cl. 178—44)



2. An electric circuit including a load connected to a source of electrical power, a circuit breaker to protect the circuit against dangerously large surges arising from any cause and having an actuating solenoid of which the coil is connected in the circuit in series with the contacts of the circuit breaker, and a condenser connected into the circuit in shunt across the load and in series with the coil of the circuit breaker solenoid, the

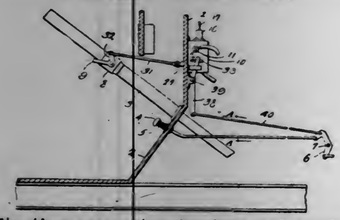
condenser being electrically proportioned to form with the coil of the solenoid a filter effective to prevent minor disturbances from the source from reaching the load.

2,321,104
SIRUPING VALVE
Clyde D. Russell, Oakland, Calif., assignor to California Packing Corporation, San Francisco, Calif., a corporation of New York
Application January 13, 1941, Serial No. 374,184
6 Claims. (Cl. 226—124)



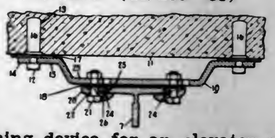
1. In a sirup valve for supplying sirup to containers partially filled with a food product, the combination of a rigid displacement head of smaller diameter than the container, so as to leave an annular space around the edge of the head, said head having an air duct formed therein to communicate with the said annular space and permit air to escape upwardly from the container when the sirup enters the same, said head further having an outer air vent tube on its upper side communicating with said air duct, a concavo-convex liner carried on the under side of said rigid head, said liner and said head having an air vent formed through the same, and an inner air vent tube communicating therewith and lying within the outer tube, said inner tube operating to permit a quantity of sirup to pass upwardly into the same when the container is being filled with sirup; and a displacement rod secured in the inner tube displacing a volume having a cross-section area slightly less than that of the tube so as to leave only an annular space around the rod, and thereby reducing the effective area of the inner tube as a passage for the sirup.

2,321,105
VACUUM AUTOMATIC CUTOUT
Frederick Saxe, Muskegon, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 8, 1931, Serial No. 579,787
16 Claims. (Cl. 123—179)



1. Starting apparatus for internal combustion engines comprising a current source, a starting motor adapted to receive current from said source, means for controlling the quantity of combustible mixture supplied to the engine, an ignition switch, means for operating said ignition switch, a starter switch adapted when closed to connect the starting motor with the current source, means operatively connected to said means for operating the ignition switch for causing the closing of said starter switch, and means operable in conjunction with the mixture controlling means for controlling the operation of said starter switch.

2,321,106
ELEVATOR GUIDE RAIL FASTENING DEVICE
Selden Bradley Sanford, Yonkers, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application January 14, 1942, Serial No. 426,763
1 Claim. (Cl. 189—35)



A fastening device for an elevator guide rail comprising, a bracket mounted in the hatchway, a pair of clips oppositely disposed, one on each side of the rail and positioned on a line perpendicular to the longitudinal axis of the rail, a bolt for each clip for securing the clip to the bracket, each clip being cut back to expose the bolt, and a wedge on each side of the rail underneath the clip between and engaging the edge of the base of the rail and the bolt, said wedges being oppositely movable vertically to shift the rail sidewise to align the sides of the rail and the bolts being tightened when the rail alignment has been effected to secure the rail to the bracket.

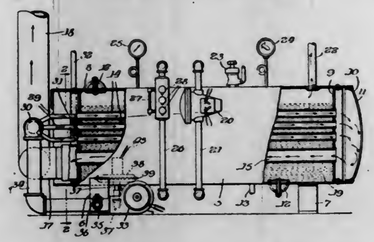
2,321,107
MOLD DIE METAL AND METHOD OF MAKING DIES THEREFROM
Nathan H. Schermer, Detroit, Mich., assignor of one-fourth to William Isler, Cleveland, Ohio
No Drawing. Application April 10, 1941, Serial No. 387,873
13 Claims. (Cl. 148—12)

1. The method which comprises plastically deforming a ferrous metal containing about 1% to about 4% carbon, about .45% to about 1.75% silicon, and less than 1% manganese into a form suitable for hobbing, graphitizing the metal and then sinking a hobb in said metal.

2,321,108
MANUFACTURE OF TEXTILE MATERIALS
George Schneider, Montclair, N. J., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application June 24, 1939, Serial No. 280,965
2 Claims. (Cl. 28—80)

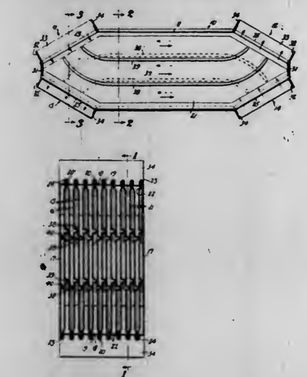
1. As a new article of manufacture, a fleece-like web comprising a mixture of 70 parts by weight of cotton fibers and 39 parts by weight of curled or crinkled thermoplastic derivative of cellulose fibers having 9 parts by weight, based on the weight of the thermoplastic derivative of cellulose, of a plasticizer incorporated therein, in which fleece-like web the fibers are held together adhesively by the thermoplastic derivative of cellulose fibers.

2,321,109
IMMERSION BOILER
Orlin N. Sellers, Chicago, Ill.
Application August 1, 1938, Serial No. 222,408
1 Claim. (Cl. 122—504)



A gas fired boiler of the immersion type having, in combination, a water and steam compartment and a plurality of small diameter firing tubes and return tubes of greater diameter than said firing tubes; within said water compartment; burners disposed adjacent the openings of said firing tubes and adapted to project flames into an intermediate portion of said firing tubes, a manifold connecting said burners and a gas supply line, a magnetic valve in said gas supply line, an air supply line including a blower adapted to supply air under pressure to said manifold, and a mercury switch adapted to cause a closing of said magnetic valve upon less than a predetermined amount of air flowing through said air supply line and equipped with a diaphragm responsive to the movement of air through said air supply line.

2,321,110
HEAT EXCHANGER
Bennet Carroll Shipman, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application August 25, 1936, Serial No. 97,746
17 Claims. (Cl. 257—245)

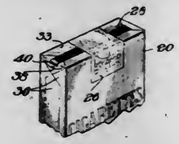


12. A heat exchanger including a plurality of heat transfer plates arranged alongside each other with each plate having substantially parallel opposed edges intermediate the ends and inwardly sloping edges at the ends, said plates having the edges thereof offset laterally in opposite directions with the extreme edge portions substantially parallel to the main body portions of said plates, said plates being arranged to form a zigzag structure having a plurality of passages between adjacent plates with said plates having one offset edge abutting an edge of an adjacent plate and the other offset edge abutting an edge of an opposite adjacent plate, structure for closing the passages at the extreme ends of said plates, a plurality of closure strips for closing the passages between the edges of adjacent plates along the intermediate portions having opposed parallel edges, the abutting sloping edges of said plates being secured together to provide a plurality of openings, two groups of the openings at opposite ends of said plates serving as an inlet and outlet for fluid flowing through alternate passages and the other two groups of openings at the opposite ends of said plates serving as an inlet and outlet for fluid flowing through the other passages.

2,321,111
PROCESS FOR FORMING FOAM RUBBER AND PRODUCTS THEREOF
Paul Stamberger, Dover, Del., assignor to International Latex Corporation, Dover, Del., a corporation of Delaware
No Drawing. Application January 16, 1941, Serial No. 374,710
14 Claims. (Cl. 260—723)

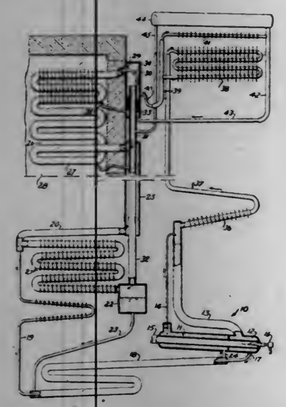
1. Method of forming foamed rubber which comprises beating to a foam a sulphur-vulcanizable rubber latex mixture containing additions of both anionic- and cationic-long chain compounds, each containing at least six carbon atoms, said compounds being of a character and in proportion so that the resultant foam is capable of withstanding drying, is sufficiently fluid to be poured, and the composition is maintained negatively charged.

2,321,112
CIGARETTE PACKAGE
Bernard J. Tamarin, Philadelphia, Pa.
Application May 26, 1939, Serial No. 275,855
1 Claim. (Cl. 206—41.2)



In combination with a cigarette package provided with an opening end portion and a stamp sealing said opening end portion, a strip having a fixed end portion and a free end portion, said free end portion of the strip passing beneath the package sealing stamp to extend beyond the edge thereof, an outer wrapper enclosing said package and strip with a single continuous portion of the wrapper passing over and completely covering the entire surface of the sealed opening end portion of said package, said portion of the wrapper adjacent the extremity of the free end portion of the strip being slit to define manipulating means movable to expose the free end portion of the strip whereby the latter may be grasped and pulled to rip the wrapper and simultaneously tear the stamp, and means associated with said slit portion of the wrapper to form a seal surrounding the slit and thus isolate the same for preventing moisture from penetrating into the wrapped package.

2,321,113
REFRIGERATION
John A. Taylor, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application September 17, 1941, Serial No. 411,094
7 Claims. (Cl. 62—179)



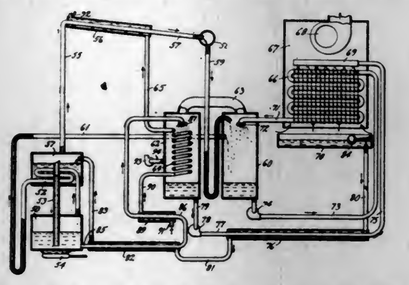
2. A refrigeration system employing evaporation of refrigerant fluid in the presence of inert gas and having a circuit for inert gas including an evaporator and an absorber, a condenser, conduits for conducting liquid from different parts of said condenser to different parts of said evaporator, said conduits coming into mutual heat exchange and one of said conduits holding liquid in the presence of gas in said circuit between said evaporator and said absorber thereby cooling by evaporation takes place both of the liquid itself and the liquid with which it is in heat exchange relation.

2,321,114
TREATMENT OF RUBBER GOODS
Ralph Francis Tefft, Rochelle Park, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application June 27, 1940, Serial No. 342,688
3 Claims. (Cl. 260—714)

1. The method of recovering textile material from a mixture of the textile material with solvent-resistant rubber, which comprises digesting the mixture at a temperature between 120° and 160° C. with sulfur, a reverting type vulcanization accelerator, and sufficient rubber-solvent to dissolve the rubber in the presence of the sulfur and vulcanization accelerator, continuing the digestion until the rubber is dissolved in said solvent, and thereupon mechanically separating the textile material from the resulting solution.

2,321,115
AIR CONDITIONING
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application February 6, 1940, Serial No. 317,478
9 Claims. (Cl. 62—129)

1. A system for conditioning temperature and moisture content of air including means for flowing air, means for flowing cooling fluid in thermal transfer relation with the air and counter-current to the direction of air flow, and means for flowing moisture absorbing fluid in contact with and counter-current to the direction of air



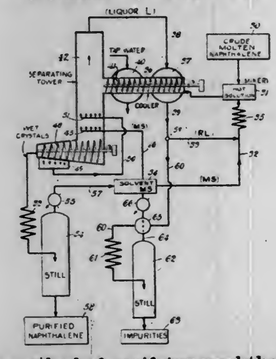
flow and through only the portion of the heat transfer path from air to the cooling fluid toward the direction from which the air flows.

2,321,116
RAINCOAT
Edward Welch, Valley Falls, R. I.
Application December 29, 1941, Serial No. 424,690
3 Claims. (Cl. 2—87)



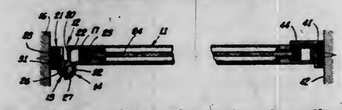
1. A raincoat having a lower edge having substantially hemi-circular spout forming portions projecting downwardly centrally of each side thereof, and vertically aligned cooperating male and female separable fastener elements having walls exterior of said raincoat adapted to abut when fastened to space apart the portions of the raincoat connected thereby, secured to the lower portion of said raincoat, certain of said elements being secured in spaced relationship adjacent the lower edge of said raincoat adjacent the center portions of the front and rear thereof and on each side of each spout forming projection, and the cooperating vertically aligned separable fastener elements adjacent each center portion being secured at a substantially greater vertical distance above their cooperating elements than are the cooperating separable fastener elements on each side of each spout so that when the lower portions of said raincoat between said center portions and spouts are outturned, upturned and fastened to said raincoat, rain catching gutters having open rain receiving top portions are provided downwardly inclined from each center portion to each spout portion and the spout portions are raised upwardly to a substantially horizontal position discharging the rain from said inclined gutters laterally of the wearer's shoes and clothes.

2,321,117
PURIFICATION OF NAPHTHALENE
Donald F. Wilcock, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
Application May 15, 1942, Serial No. 443,162
9 Claims. (Cl. 260—674)



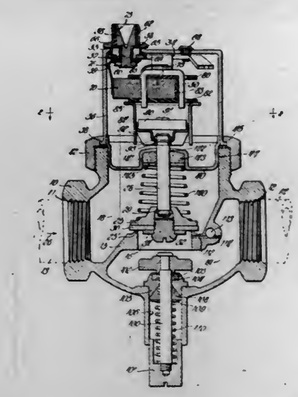
1. The method of purifying naphthalene which comprises forming a hot solution of naphthalene in a mixed solvent of water and an alcohol selected from the group consisting of ethyl, n-propyl, isopropyl, secondary-butyl and tertiary-butyl alcohols, said mixed solvent being the azeotropic mixture for the pressure hereinafter recited, cooling the solution to effect formation of crystals of naphthalene in a resulting single-phase liquor in the form of a slush of liquor and crystals, separating crystals and liquor, washing the crystals with said mixed solvent substantially lacking in impurities for naphthalene, combining the washings and said liquor, distilling residual alcohol and water from the washed naphthalene at a chosen pressure at which said mixed solvent is azeotropic to recover the content of said mixed solvent for reuse in the process, whereby the residue of such distillation is purified naphthalene, dividing the said combined liquors into two portions, distilling said one portion at said chosen pressure to recover the content of said mixed solvent for reuse in the process, and mixing the other portion of liquor with a quantity of said mixed solvent which is substantially free from impurities from naphthalene to provide a body of said mixed solvent, and forming a hot solution of naphthalene to be purified in said body in repeating the process herein recited.

2,321,118
HINGE
Eugene H. Zechiel, North Hollywood, Calif.
Application January 9, 1942, Serial No. 426,198
6 Claims. (Cl. 16—171)



1. In a hinge of the character described, a pair of cooperative hinge leaves adapted to be mounted respectively on a stationary member and on a member movable with respect thereto, a female hub on one of said leaves comprising an arcuate flange and a retaining flange extending divergently from their associated leaf, the outer portions of said flanges extending toward each other but terminating in relatively spaced relation to define an opening leading to the space embraced by said flanges, and a male hub on the other of said leaves comprising an arcuate flange curving around the outer edge of said retaining flange of said female hub and through said opening into said embraced space and a radial flange extending radially inwards from both of said arcuate flanges to said retaining flange where it is disposed substantially at the center of the arcs of said arcuate flanges, the inner face of said female arcuate flange slidably engaging the outer face of said male arcuate flange of said male hub as relative rotary motion occurs between said hubs.

2,321,119
THERMOELECTRIC SAFETY SHUTOFF DEVICE
Henry F. Alfery, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Original application November 9, 1939, Serial No. 303,601, now Patent No. 2,296,322, dated September 22, 1942. Divided and this application November 27, 1941, Serial No. 420,670
7 Claims. (Cl. 175—336)



1. In combination, an electromagnet comprising a magnet frame and a coil therefor, a supporting plate for said magnet frame, an armature guide, insulating means between said armature guide and the coil of said electromagnet, means securing said plate, electromagnet, insulating means and armature guide together into a unitary assembly, quick detachable terminal connector means carried by said plate and comprising a pair of terminal connector members one disposed within the other, and insulating means between said terminal connector members.

2,321,120
LOG CABIN CONSTRUCTION
John G. Baker, Saunderstown, R. I.
Application February 25, 1942, Serial No. 432,345
1 Claim. (Cl. 20—4)

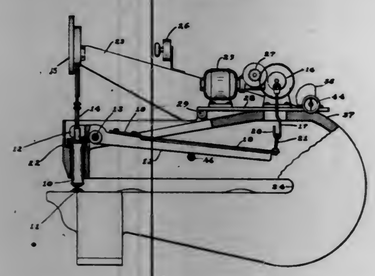
A log cabin construction comprising a foundation, plates mounted on said foundation, superimposed wall logs mounted on said plates, and a door frame mounted in the wall logs, said frame including a threshold, vertical side members rising from said threshold, a header extending between the upper portions of the side members, a cap log mounted above the header, and an apron depending from the outer portion of said cap log,

the header having a rabbet therein accommodat-



ing the apron, said cap log and the apron being spaced from the header.

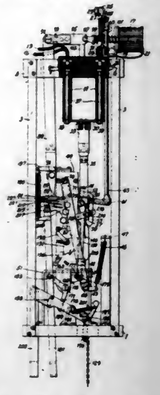
2,321,121
GAUGING APPARATUS
Olin H. Basquin, Evanston, Ill., assignor to Streeter-Amet Company, Chicago, Ill., a corporation of Illinois
Application July 18, 1939, Serial No. 285,096
2 Claims. (Cl. 33—147)



1. Gauging apparatus of the character described comprising, in combination movable and stationary jaws, mechanism for oscillating said movable jaw for periodically engaging and releasing material being gauged, an indicator responsive to the position of the movable jaw for indicating the gauge reading of the material when the jaws are closed on it, said oscillating mechanism being mounted so as to be shiftable relative to said apparatus, and a cam for changing the position of said mechanism to vary the zone of oscillation of said movable jaw relative to said stationary jaw.

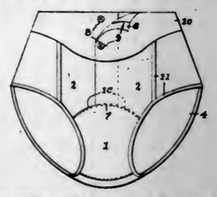
2,321,122
RECLOSING CIRCUIT BREAKER
Theodore Birkenmaier, St. Louis, and Carl E. Mosley, Overland, Mo., assignors to W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri
Application June 8, 1942, Serial No. 446,216
28 Claims. (Cl. 200—89)

1. A reclosing repeater switch comprising a mechanism movable through repeating cycles to open and close the switch during each cycle, means biasing the mechanism to cycle, a catch normally biased to prevent cycling, a solenoid responsive to overload current adapted to withdraw the catch, a latch preventing development of cycling despite removal of said catch, and means responsive to overload current but having a time lag with respect to the solenoid for releas-



ing said latch to effect cycling of the mechanism under its bias.

2,321,123
NETHER GARMENT
Abraham Bogart, Paterson, N. J.
Application July 19, 1941, Serial No. 403,095
8 Claims. (Cl. 2—224)

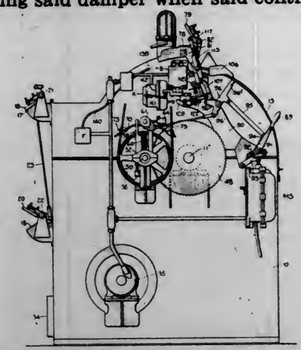


1. In nether garments of the class having leg openings, the hereindescribed front including a pair of substantially counterpart panels disposed and at their upper portions confined in laminated relation to and in substantial registry with each other and respectively having upstanding extensions narrower than the panels and having their own central vertical axes respectively on opposite sides of the central vertical axis of the two panels and one of said extensions having its relatively inner lateral marginal portion in forwardly lapping relation to the other extension.

2,321,124
APPARATUS FOR DRYING
George E. Bowdoin, New York, and William Strobridge, Syracuse, N. Y., assignors to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware
Application October 12, 1935, Serial No. 44,724, now Patent No. 2,142,042, dated December 27, 1938, which is a division of application Serial No. 133,344, March 27, 1937, now Patent No. 2,217,153, dated October 8, 1940. Divided and this application September 7, 1940, Serial No. 355,726
2 Claims. (Cl. 34—87)

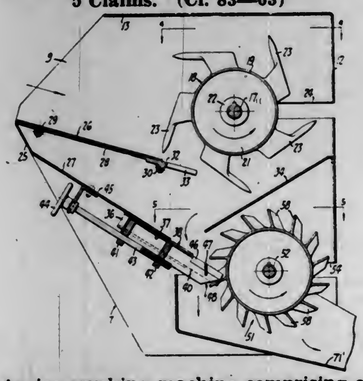
1. In apparatus of the character described, in combination, a drying chamber, a rotatably mounted cylinder in said chamber, a heater chamber, a fan for drawing heated air through said drying chamber from said heater chamber, driving means for said cylinder, driving means for said fan, control means for engaging or disen-

gaging said driving means with said cylinder, means for supplying energy to said fan driving means, a damper biased to stand in open position for admitting cold air directly to said cylinder chamber, means operated by said control means for closing said damper when said control means



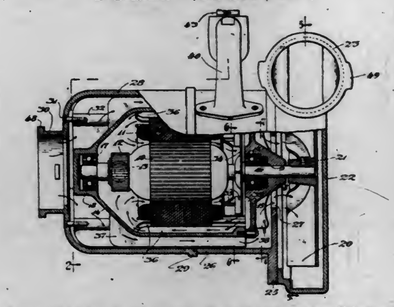
is moved to engaging position, means including an electrical circuit for driving said fan, means for releasing said damper from said closing means, and means in said electrical circuit for operating said damper releasing means upon failure of said fan energy supply.

2,321,125
ICE SIZING MACHINE
Frank W. Brady, San Francisco, Calif.
Application April 13, 1942, Serial No. 438,707
5 Claims. (Cl. 83—63)



1. An ice crushing machine comprising a first rotatable shaft, a set of teeth spaced across and about said shaft and extending in the direction of rotation of said shaft, a plate for supporting a block of ice and feeding said ice toward said teeth, a break-off plate cooperating with said shaft and having a saw tooth edge extending toward said teeth with a tooth thereon extending between each adjacent pair of teeth on said shaft, a deflector plate for directing ice chunks passing between said break-off plate and said teeth, a second rotatable shaft, a set of paddles spaced about said second shaft, a guide plate for receiving ice from said deflector and terminating at its lower end in a plurality of spaced bars extending toward said second shaft, a dividing bar extending parallel to said second shaft and forming a division member between rows of apertures extending across the lower edge thereof, said rows being spaced at different radial distances from the axis of said second rotatable shaft, the outermost row cooperating with said paddles to form ice of a predetermined size, and means for simultaneously rotating said shafts.

2,321,126
DUST-TIGHT BLOWER
Grant William Breuer, Chicago, Ill., assignor to Breuer Electric Mfg. Co., Chicago, Ill., a corporation of Illinois
Application April 3, 1941, Serial No. 386,676
1 Claim. (Cl. 230—117)



A portable device of the class described adapted for use as a blower, sprayer or suction cleaning means, comprising a high speed universal type drive motor, a dust tight metallic enclosure for said motor in spaced relation to the stator thereof, a blower fan on the shaft of said motor within said enclosure and adjacent baffle means for directionally circulating air therein, a body casing surrounding said motor enclosure in spaced relation thereto, an axial inlet port at one end of said body casing, a fan casing at the opposed end of said body casing and in communication with an axial outlet opening thereat, a motor driven fan in said fan casing, and a tangential outlet port extending from said fan casing, the said dust tight motor enclosure being in the form of a hood having an integral axial dome seating one end of the motor shaft and its bearing and an end closure plate therefor having an elongated outwardly projecting boss providing a journal for a projecting fan engaged end of the motor shaft and a seat for its bearing, the said dust tight motor enclosure being further provided with radially projecting elongated carbon brush retention bosses, longitudinally extending ribs projecting from its inner surface to the motor stator, longitudinally extending ribs projecting from its outer surface to the body casing, and endwise outwardly projecting radially extending ribs on the dome end and cover plate thereof, said body casing being engaged to said motor enclosure and longitudinally slidably separable therefrom to permit access to the carbon brushes and their retainers and to permit removal of accumulated dust from the exterior portions of the motor enclosure.

2,321,127
PROCESS FOR PREPARING COATING COMPOSITIONS
Albert T. Camp, Belvidere, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 3, 1942, Serial No. 457,191
6 Claims. (Cl. 106—227)

1. The process for preparing a soft oil-limed

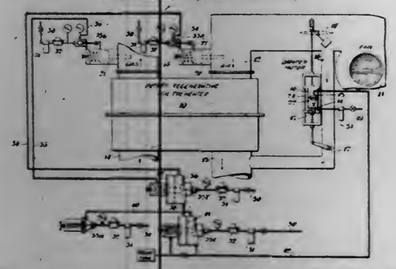
rosin varnish having an oil length within the range from about 5 to about 100 gallons of oil per 100 pounds of rosin and a combined calcium content within the range from about 1 to about 5% by weight of the total rosin in the varnish which comprises heating from about 25 to about 80% of the total soft oil contained in the finished varnish composition in contact with up to about 25% of the rosin contained in the finished varnish composition at a temperature within the range from about 565 to about 620° F. until the mixture starts to gel, adding sufficient material selected from the group consisting of rosins and limed rosins to provide the remainder of the rosin contained in the finished varnish composition, adding the remainder of the soft oil, heating the mixture at a temperature within the range from about 500 to about 620° F. until the mixture has attained the desired viscosity, and thinning with a solvent.

2,321,128
EXPLOSIVE BULLET
Robert R. Clark, Chapel Hill, N. C.
Application March 27, 1941, Serial No. 385,549
1 Claim. (Cl. 102—56)



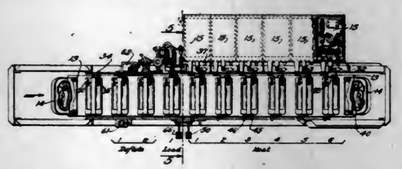
An explosive bullet of the character described comprising a nose including a relatively soft rear portion having a circumferential channel therein, a case mounted on the rear portion of the nose and closing the channel, a chamber mounted on the rear of the nose and projecting rearwardly therefrom in the case, a container in said chamber, an explosive charge in said container, an explosive charge in the case rearwardly of the chamber, a wad between the second-named charge and the chamber, and a firing pin on the rear end of the nose operable in the chamber, said pin being operable by the compressing of the relatively soft rear portion of the nose upon striking an object for firing the first-named charge.

2,321,129
AIR PREHEATER CONTROL
Roland S. Cooper, River Forest, Ill., assignor to The Air Preheater Corporation, New York, N. Y.
Application May 27, 1941, Serial No. 395,352
1 Claim. (Cl. 257—2)



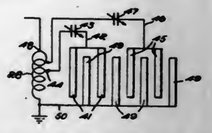
In a regenerative air preheater having inlet and outlet ducts for a heating gas, similar ducts for air to be heated, and a rotor carrying heat transfer members for absorbing heat from the gases and imparting it to the air; a conduit leading from the air inlet duct to the air outlet duct and so arranged as to form an air by-pass around the preheater; damper means operable to regulate the amount of air flowing through said by-pass conduit; means for measuring the air temperature in the inlet duct therefor and the gas temperature in the gas outlet duct; means for obtaining the total of said temperatures; and means associated with said totalizing means and responsive to fluctuation of said temperature total from a predetermined total for operating said damper.

2,321,130
APPARATUS FOR THE CEMENTING OF SHOES
Ervin L. Crandell, Wellesley, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application April 26, 1941, Serial No. 390,555
7 Claims. (Cl. 12—37)



1. In apparatus for cementing shoe parts together and including a plurality of shoe presses, and a conveyor for moving said presses successively through a cement heating zone, each of said presses including a pair of electrodes for electrically heating the cement between shoe parts supported in said presses; the combination of a plurality of oscillators alongside said conveyor in said zone for supplying high frequency, electrostatic fields between said electrodes; means for grounding one of the electrodes of each of said presses and one side of the output circuit of each of said oscillators, and means for connecting electrically the other electrode of each of said presses in succession to the other side of the output circuit of each of said oscillators as said presses move through said zone.

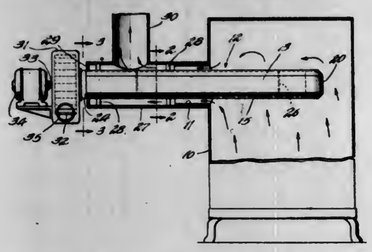
2,321,131
APPARATUS FOR THE CEMENTING OF SHOES
Ervin L. Crandell, Wellesley, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application May 17, 1941, Serial No. 393,990
2 Claims. (Cl. 12—38)



1. Shoe cementing apparatus comprising a shoe press including means for pressing an outsole against a shoe with an adhesive therebetween; an electrode pad upon said means and adapted to be pressed by said means against the outsole of a shoe; a first electrode in said pad in the fore part area of the shoe; a second electrode in said pad in the shank area of the shoe, spaced from said first electrode; a third electrode in said pad having portions in both of said areas; said portions being spaced from said first and second electrodes; means for producing high

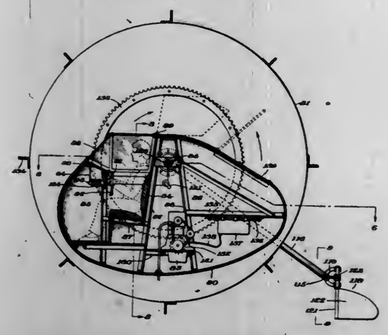
frequency electrostatic fields between said third electrode and said first electrode and between said third electrode and said second electrode, and means for adjusting independently the strength of said fields.

2,321,132
AIR CIRCULATOR FOR STOVES
Walter B. Czaja, Chicago, Ill.
Application January 31, 1942, Serial No. 428,987
9 Claims. (Cl. 126—110)



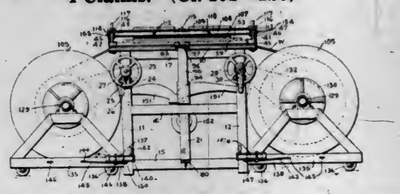
1. An air circulator comprising an elongated hollow member including a pair of spaced horizontal walls and a pair of side walls, said horizontal walls and said side walls merging at one end of said member for forming a sealed header, and a pair of spaced partition walls vertically disposed in said member, the inner ends of said partition walls terminating short of said header, said partition walls in conjunction with said side walls defining a pair of lateral air inlet ducts and a central outlet duct, the outer ends of said horizontal and partition walls extending beyond the corresponding termination of said side walls.

2,321,133
MARINE VESSEL
Richard W. Davis, Miami, Fla.
Application October 6, 1941, Serial No. 413,840
3 Claims. (Cl. 115—20)



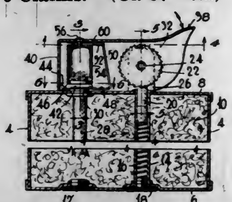
1. A marine vessel comprising a nacelle, hollow axles projecting from the opposite sides of the nacelle, a buoyant drum mounted for rotation on each of said axles, a drive means carried by the nacelle for rotating said drum, an essentially U-shaped tubular frame carried by the axles and extending rearwardly around the rear end of the nacelle, a rudder mounted on the U-shaped frame, and wires operated from within the nacelle and extending outwardly through the axles and through the tubular frame and connected to the rudder.

2,321,134
SCREEN COLOR PRINTING APPARATUS
Harry Fleisher, Watertown, Conn., and George H. Tillett, Jackson Heights, N. Y., assignors to Roto-Matic Screen Printer, Ltd., New York, N. Y., a corporation of New York
Continuation of application Serial No. 364,604, November 7, 1940. This application September 6, 1941, Serial No. 409,866
4 Claims. (Cl. 101—126)



1. In an apparatus for printing color repeats upon a web, a supporting bed for said web, a swingable stencil-screen-carrying frame pivoted to one side of said bed, a vertically slidable plate having anti-friction means located beneath the free end of said frame, a foot operated treadle, a chain connected to said plate, and passing around a pulley connection to a lever, and linkage means to connect said lever to said treadle, whereby depression of the latter will raise said frame to carry said stencil frame upwardly and permit said web to be advanced thereunder to its next printing position.

2,321,135
CIGARETTE LIGHTER
Irving Florman, New York, N. Y.
Application August 13, 1940, Serial No. 352,430
6 Claims. (Cl. 67—7.1)

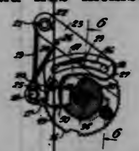


4. In a cigarette lighter, a fuel chamber, a wick tube, a wick in said wick tube communicating with said fuel chamber, a snuffer movable to cover and uncover said wick, means operated by movement of said snuffer to uncover the wick to project a spark upon said wick, said wick tube having a projection thereon, and spring members carried by said snuffer and having portions opposite said projection, the space between said portions being less than the maximum diameter of said projection, whereby said portions may wipe said wick and tube and may snap over and engage beneath said projection so as to prevent movement of said snuffer until a predetermined pressure is applied thereto.

2,321,136
COIN CONTROLLED CLUTCH
Carl L. Grau, Ottawa, Ill., assignor to A. B. T. Manufacturing Corp., Chicago, Ill., a corporation of Illinois
Application September 27, 1941, Serial No. 412,579
3 Claims. (Cl. 194—92)

1. In a device of the class described, an operating shaft, a member fixed to said shaft and hav-

ing a coin pocket and a latch notch formed therein, a latch member adapted to engage said notch when no coin is in said pocket but adapted to be engaged by a coin and pivoted to a position from engagement with said notch, a second shaft supported in axial alignment with said operating shaft and having a handle thereon, a hub member carried by said second shaft for rotation therewith and having an abutment formed thereon, a coupling finger carried by the first member and normally disposed out of engagement with said abutment and adapted to engage the abutment of said hub member, spring detent



means for providing an operating releasable connection between the hub member and said first named member when the latter is initially rotated to bring said coin pocket opposite said latch member and to permit camming action of the latter by a coin as aforesaid and adapted to release said hub member for rotative movement independent of said first named member when said latch member engages said notch to prevent further rotation of said first named member, and means operatively connecting said latch member and said coupling finger, whereby when a coin is in said pocket said latch finger will be moved into engagement with said abutment when the member having the coin pocket is rotated.

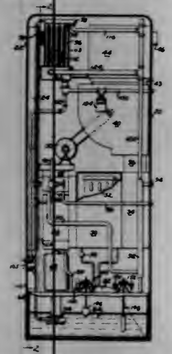
2,321,137

REFRIGERATING APPARATUS

Frank W. Gerard, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application January 24, 1941, Serial No. 375,824

1 Claim. (Cl. 62—129)



In combination, a cabinet, a first air flow passage in said cabinet, a second air flow passage in said cabinet, a first cooling coil in said first air flow passage, a second cooling coil in said first air flow passage, a sump in said cabinet adapted to contain a hygroscopic liquid, means for spraying hygroscopic liquid from said sump over said first cooling coil so as to cool said liquid and simultaneously cause said liquid to remove moisture from the air in said first air flow passage, a regenerating coil in said second named air flow passage, means for supplying a heating medium to said regenerating coil, means for circulating hygroscopic liquid from said sump over said regenerating coil so as to regenerate said hygroscopic liquid, means for circulating air to be conditioned through said first named passage, means for flowing air through said second named passage in said cabinet so as to carry away the moisture liberated from the hygroscopic medium circulating over said regenerating coil, refrigerant liquefying means in said cabinet for supplying refrigerant to said second named cooling coil, said last named means including a water coil for absorbing heat, and means for supplying cooling water to said first named coil and said water coil in series.

2,321,138

TREATMENT OF FLUID PERVIOUS FORMATIONS

John J. Grebe and Leonard C. Chamberlain, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 2, 1938, Serial No. 205,534

9 Claims. (Cl. 204—130)

1. In a method of treating an earth or rock formation the steps which comprise introducing into said formation an aqueous solution containing an ion which will unite with an ion of a solution present in said formation to form a relatively insoluble non-metallic compound, bringing the two solutions into contact with each other and thereafter causing an electric current to pass through the solutions in the formation whereby a non-metallic relatively insoluble precipitate is produced.

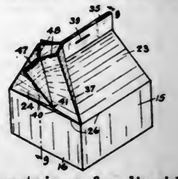
2,321,139

COLLAPSIBLE PAPER CONTAINER

Edward H. Gruger, Seattle, Wash.

Application August 19, 1940, Serial No. 353,159

7 Claims. (Cl. 229—37)



1. A paper container for liquid comprising a rectangular receptacle; two sloping top members converging to an apex; and two gable shaped end members each folded along M shaped lines and along a medial vertical line that bisects the M shaped folds providing each gable member with two inwardly and upwardly inclined triangular sections and an upright reinforcing medial member.

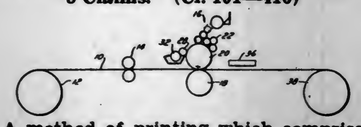
2,321,140

METHOD AND APPARATUS FOR PRINTING

William F. Grupe, Lyndhurst, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

Application December 28, 1939, Serial No. 311,349

8 Claims. (Cl. 101—416)



1. A method of printing which comprises applying a film of printing ink and a film of a film forming material which is soluble in the ink to a printing member, and then transferring the ink and film forming material to the surface of a sheet or web.

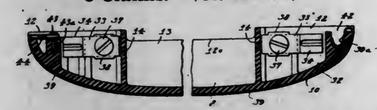
2,321,141

HANDLE CONSTRUCTION FOR RANGES

John F. Hennessy, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois

Original application July 29, 1940, Serial No. 348,126. Divided and this application May 31, 1941, Serial No. 396,023

8 Claims. (Cl. 41—35)



1. A handle of elongated form having a groove provided therein extending about an exposed portion connecting opposite end portions, a band of flexible material secured at each end portion to the handle end portions and contained within the said groove, and a leaf spring fixed to one end portion of the handle between the handle and the band and arranged to spring outwardly against the inner side of the band to maintain it in a taut relation to the handle.

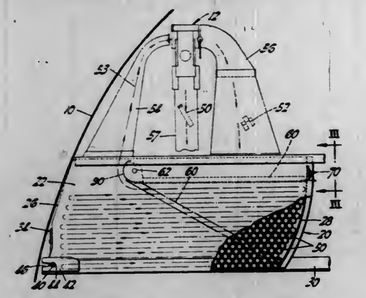
2,321,142

MAGAZINE FOR AUTOMATIC GUNS

Thomas E. Horncastle, Flushing, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.

Application August 1, 1940, Serial No. 349,343

7 Claims. (Cl. 89—33)



1. A gun servicing device for automatic guns comprising a casing adapted to contain a supply of cartridges comprising projectile and non-projectile parts, chute means leading from said casing toward the point of gun intake of said cartridges, a second chute means leading from the point of gun ejection of said non-projectile parts and disposed so as to return the latter into said casing at a position spaced from the position of withdrawal of said cartridges therefrom, a partition disposed transversely within said casing and pivotally mounted thereon to move automatically in accord with withdrawal of cartridges from said casing and return of said non-projectile parts thereinto so as to provide correspondingly increasing space for said returned parts within said casing as the space occupied by the unused cartridges decreases, and releasable latching means mounted upon said case and having a finger portion normally extending into the orbit of said partition when the latter is in a region corresponding to the condition of said case when containing a full supply of cartridges, spring means associated with said latching means for normally urging said finger portion into the orbit of said partition, said latching means being manually movable against the action of said spring means to avoid interference with movement of said partition.

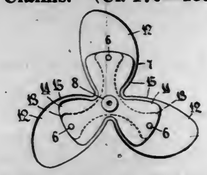
2,321,143

FAN

Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application October 21, 1937, Serial No. 170,213

3 Claims. (Cl. 170—159)



1. A safety fan having limp blades each of sheet form, supporting plate means having a pitch defining rigid backing arm for each blade extending outwardly a radial distance for at least a portion of its effective air displacing area and possessing a width sufficient to support the blade normally operative against wind pressure, and clamping means having radially extending, conforming arms superimposed upon the limp blades for securing them to their respective arms inwardly from the side margins of the latter whereby the leading and trailing edges of the limp blades are unattached, the width of each blade being in excess to that of its backing arm with the leading and trailing edges overhanging said side margins for folding thereover on encountering an object, and the width of the conforming arms being less than that of the backing arm whereby the edge portions of the limp blades may flex from the marginal portions of the backing arms inwardly from and when folding over the side margins.

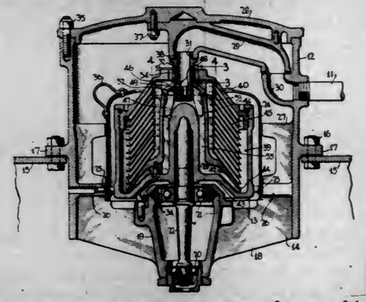
2,321,144

CENTRIFUGAL PURIFICATION OF LIQUIDS

Leo D. Jones, Philadelphia, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware

Application February 19, 1940, Serial No. 319,587

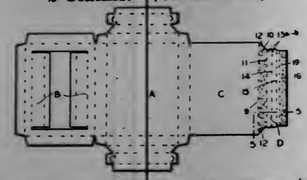
14 Claims. (Cl. 233—24)



2. In a centrifugal separator, the combination comprising a centrifugal rotor, means for feeding liquid to said rotor, and means for receiving liquid discharged from said rotor, said rotor

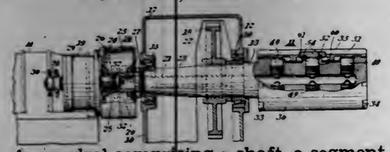
being provided with discharge passages for causing liquid discharged from said rotor to flow, immediately prior to said discharge, in a direction relative to movement of said rotor which is opposite to the direction of rotor rotation, and the outlet ends of said discharge passages being at least at close to the rotor axis as the inlet ends of said passages.

2,321,145
CARTON
Samuel Floyd Jones, London, Ontario, Canada
Application January 11, 1940, Serial No. 313,442
In Canada March 23, 1939
2 Claims. (Cl. 229—36)



1. A carton comprising an open top body formed of a flat bottom wall, hollow side, front and rear end walls, and a closure hingedly connected with said rear end wall, said cover including an integral depending part disposed inwardly spaced parallel relation with respect to the forward edge thereof and of less length than the width of said cover whereby the opposite ends of said depending part will be disposed closely adjacent the inner portions of said side walls, said inner portions of said side walls having openings confronting the ends of said depending part, and locking tongues carried by the ends of said depending part engageable in said openings to hold the cover in closed position.

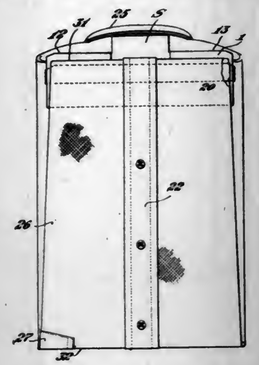
2,321,146
EXPANDING AND CONTRACTING MANDREL FOR COIL HOLDERS, REELS, OR THE LIKE
Walter O. Jones, Warren, Ohio, assignor to The Wean Engineering Company, Inc., Warren, Ohio, a corporation of Ohio
Application December 22, 1941, Serial No. 423,988
9 Claims. (Cl. 242—74)



1. A mandrel comprising a shaft, a segment extending along and movable radially of said shaft, means yieldably holding the segment toward the shaft, a slot in said segment adapted to receive the end of a strip length, a strip-engaging gripper extending into said slot and radially movable on said segment, radial bores in said shaft, pistons in said bores adapted to force said gripper and segment outwardly, and means for supplying fluid under pressure to said bores.

2,321,147
FORM RETAINER FOR SHIRTS AND METHOD OF MOUNTING SHIRTS THEREON
John W. Kennedy, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York
Application May 25, 1942, Serial No. 444,455
10 Claims. (Cl. 223—71)

1. A form retainer for laundered shirts comprising a body portion of substantially rectangular contour having an integral shoulder-retaining flap at its upper edge, said flap being normally parallel to and overlying the upper rear part of the body portion proper, the flap having aper-

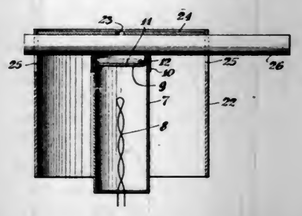


tures at its opposite ends, and a removable elongate tail-suspending strip of stiff material overlying the rear surface of said flap and having its opposite ends disposed within the openings in the flap.

2,321,148
COFFEE PROCESSING
George William Kirby, Yonkers, William Redmond Johnston, Bronx, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application November 22, 1940, Serial No. 366,548
13 Claims. (Cl. 99—65)

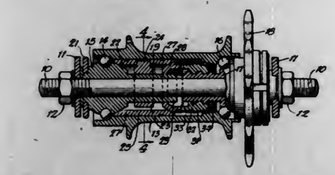
1. A method for processing coffee, which comprises pulping coffee berries, incorporating yeast with the pulped beans, and fermenting until mucilaginous coating is readily removable by washing.

2,321,149
COATING OF THERMIONIC CATHODES
Stanley J. Koch, Clifton, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application August 28, 1941, Serial No. 408,635
7 Claims. (Cl. 117—48)



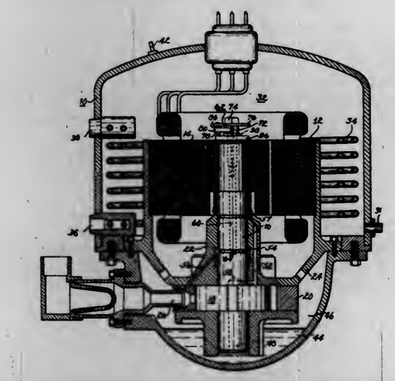
1. The method of coating the end of a cathode, which comprises locating the end of said cathode in a circular recess in the upper surface of a thick plate, said recess being coaxial with a hole of smaller diameter through said plate, and applying coating material to said cathode in a downward direction through a hole of smaller diameter in another plate.

2,321,150
COASTER BRAKE
George S. Lewis, Evanston, Ill.
Application December 26, 1941, Serial No. 424,424
5 Claims. (Cl. 192—6)



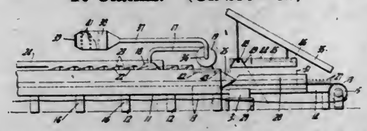
1. A coaster brake comprising an axle, a spool rotatably mounted around the axle and adapted to carry a wheel, a sprocket rotatable on the axle, an elongated threaded hub on the sprocket, a fixed cone member in the spool at one end thereof having a non-circular extension around the axle projecting into the spool, means for holding the cone member against rotation, a spider having a non-circular opening slidably fitting over said extension and a plurality of radial pins, a plurality of friction shoes having openings therein slidably receiving the pins and lying in annular array in the spool with one end adjacent the cone, and a control member threaded on the sprocket hub having a clutch member on one end and a cone on the other and movable in one direction to connect the spool and sprocket and in the other direction to engage the cone with the other end of the friction shoes to spread them into engagement with the spool.

2,321,151
REFRIGERATING APPARATUS
Alex A. McCormack, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 26, 1941, Serial No. 385,294
5 Claims. (Cl. 62—115)



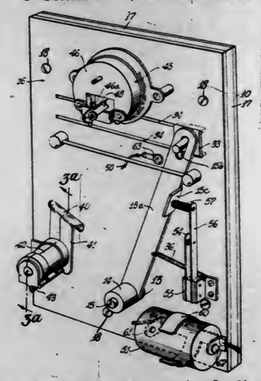
1. In a refrigerating system having a high pressure portion and a low pressure portion, a compressor comprising a shaft, means for supplying lubricant to said shaft including a lubricant passage having one portion in communication with the low pressure portion of said system, a centrifugal unloader carried by said shaft having means for equalizing the pressure between the high pressure portion of said system and the low pressure portion of said system, said unloader utilizing said one portion of said lubricant passage as an unloading passage.

2,321,152
PROCESS AND APPARATUS FOR SANITIZING GLASSWARE
Glenn A. Mengle, Brockway, Pa., assignor to Brockway Glass Company, Inc., Brockway, Pa.
Application May 7, 1941, Serial No. 392,293
10 Claims. (Cl. 250—52)



1. In the processing and capping of glass bottles, the steps of subjecting the bottles in an annealing lehr to a temperature of approximately 1000° F., of lowering the temperature of the bottles to below 180° F. in said lehr by exposing them to a cooling atmosphere, of bactericidally treating with ultra-violet light the atmosphere which contacts the bottles when their temperature is below approximately 180° F., of removing the bottles from the lehr directly into an atmosphere treated bactericidally with ultra-violet light, and of capping said bottles in said atmosphere.

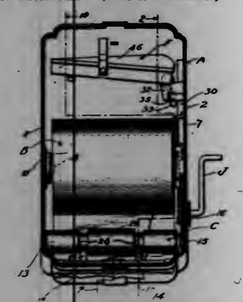
2,321,153
COIN TESTER
William Patzer and Walter A. Tratsch, Chicago, Ill.
Application July 27, 1940, Serial No. 347,933
3 Claims. (Cl. 194—100)



1. In a coin testing device including a coin passage having an entrance and a reject exit and an acceptance exit, and testing means in the form of an electromotive generator comprising a pair of spaced electrodes disposed in said coin passage between the entrance and exits, one of said electrodes forming as supporting ledge for a coin inserted into said entrance opening, the other electrode being positioned above said first mentioned electrode and being normally urged in a direction toward the latter for engaging the peripheral edge of a coin passing therealong together with a control arm for effecting movement of such a coin between the electrodes whereby a coin so moved will be caused to gravitate toward said acceptance exit, the combination of a coin deflector normally disposed in said coin passage above said acceptance exit to cause a coin gravitating toward the latter to be deflected toward said reject exit, electrically operated means having a coil and an armature, said armature carrying the coin deflector and having spring means for urging the deflector into said normal position, a primary circuit adapted to utilize the

electromotive force developed by said electrodes, a galvanoscope having the coil thereof arranged in said primary circuit with said electrodes and adapted to be energized when a coin having certain physical and electrical characteristics is passed between the electrodes as aforesaid, said galvanoscope including a normally open switch adapted to assume closed circuit condition when the coil thereof is energized as aforesaid, a secondary circuit, an auxiliary source of electrical energy for said secondary circuit, said switch and the coil of said electrically operated means arranged in said secondary circuit for withdrawing said deflector out of said coin passage to permit coins to gravitate into said acceptance exit, and another switch in said secondary circuit actuated by said control arm when the latter is restored to a normal position for interrupting said secondary circuit thereby deenergizing the coil of said galvanoscope.

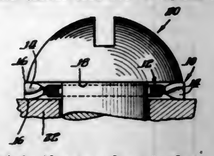
2,321,154
TOWEL DISPENSER
Jay C. Perrin, Los Angeles, and Paul L. Geer, Berkeley, Calif., assignors to Towlsaver, Inc., Los Angeles, Calif., a corporation of California
Application February 2, 1937, Serial No. 123,638
15 Claims. (Cl. 271—2.3)



1. A towel dispenser comprising a cabinet adapted to contain a supply of toweling, manually releasable stop means for automatically arresting the dispensing of toweling when a predetermined length of toweling has been dispensed from said cabinet, manually operable means movable in one direction for releasing said stop means and in another direction for issuing toweling and including a handle operable exteriorly of the cabinet for movement in said two directions, and time controlled means automatically setting said stop means for manual release when a predetermined period of time has elapsed after the dispensing of a predetermined length of toweling.

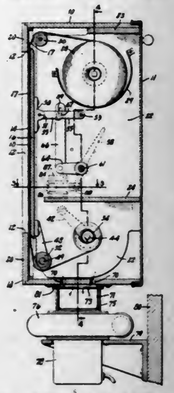
2,321,155
LOCK WASHER AND METHOD OF MAKING SAME
Ouglјesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application January 8, 1941, Serial No. 373,530
10 Claims. (Cl. 151—35)

1. A lock washer formed from spring sheet stock including an annular body portion, and a plurality of yieldable locking elements of normal stock thickness extending from a margin of said body portion providing teeth normally projecting beyond the bounding planes of said body portion and configurated to engage opposite work surfaces when the washer is clampingly engaged therebetween, said body portion comprising a section of stock folded back upon itself so as to present abutment surfaces axially spaced a distance which is greater than the normal thickness of the



stock from which the washer is formed, whereby when the abutment surfaces of the washer are clamped between said work surfaces, said teeth will maintain their normal locking engagement with said work surfaces.

2,321,156
X-RAY CASSETTE
Frank T. Powers, Glen Cove, N. Y.
Application January 31, 1942, Serial No. 428,994
14 Claims. (Cl. 250—66)

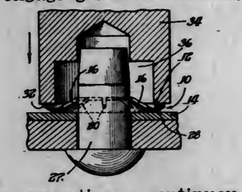


11. An X-ray cassette including in combination a box-like container having a flexible window, means for supporting a supply of sensitive material within the container, means for drawing sensitive material past the window, a backing member movable relatively to the window and towards which the material may be pressed by the window, and means for reducing the air pressure within the container whereby the window forcefully presses the material towards the backing member, said supporting means comprising a pivoted frame on which the backing member is pivotally mounted, whereby the frame and backing member may be swung for replenishment of the supply.

2,321,157
FASTENER DEVICE
Clarence A. Rees, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application March 13, 1942, Serial No. 434,454
6 Claims. (Cl. 85—36)

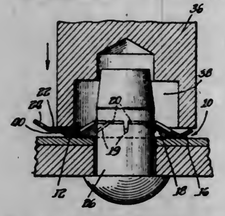
1. A fastener device for securing stud members and the like against axial displacement with respect to a work piece including a spring washer member having an intermediate body portion presenting a work engaging surface, internal marginal teeth integral with said intermediate body portion for lockingly engaging the periphery of a stud member, said teeth being normally spaced

axially from the plane of said work engaging surface, and an outer relatively narrow marginal body portion formed integral with said intermediate body portion and diverging from the plane of the work engaging surface thereof, said outer



body portion presenting a continuous periphery normally spaced from said plane which may be shifted when the intermediate body portion is in engagement with the work surface to effect the release of the locking teeth from a stud member.

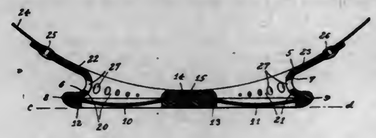
2,321,158
CONNECTOR
Clarence A. Rees, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application April 8, 1942, Serial No. 438,201
5 Claims. (Cl. 85—36)



1. A sheet metal connector device having an inner marginal section adapted to lockingly impinge the peripheral surface of an elongated member, as, for example, the shank of a stud member, an intermediate body portion having a work engaging surface, an outer body portion formed integral with said intermediate portion and diverging from the plane of the work engaging surface thereof, said outer body portion presenting a margin normally spaced from said plane so that it may be engaged by the advancing side of a pressure applying surface, the cross-sectional size and shape of said outer body portion being so proportioned to the corresponding cross-sectional size and shape of stock positioned inwardly thereof, that movement of said outer body margin in a given direction will effect a proportional movement of said inner margin and thereby effect the release of said inner marginal section from the periphery of an associated elongated member such as a stud member, and means carried by one of said body portions to facilitate coupling the connector device with another part.

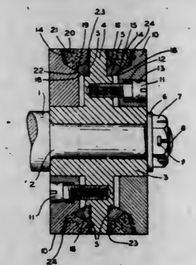
2,321,159
FOOTBALL GOGGLES
Donald T. Ryan, Beloit, Wis.
Application January 8, 1940, Serial No. 312,877
8 Claims. (Cl. 88—41)

1. Goggles for use by players in sports such as football, comprising a relatively thick, one-piece molded rubber lens-holding frame providing relatively thinner walled lens pockets of slightly elastic rubber joined integrally by a relatively thicker distortion resisting bridge portion, the thinner walls of said lens pockets defining lens-retaining rim portions of enlarged outside dimensions with internal annular grooves provided therein to receive the lenses, the bridge portion being of inverted generally triangular form filling the space between the upper halves of the lens-retaining rim portions and being of increased thickness so that the front and back surfaces of the bridge portion are substantially



flush with the front and back surfaces of the rim portions, the bridge portion serving to resist displacement of the lens pockets from substantially coplanar relation, the rim portions being stretchable away from the bridge portion substantially without distortion in shape or size of said bridge portion, and shatter-resistant lenses frictionally gripped in said grooves under the contractive pressure of the stretched rim portions.

2,321,160
PISTON CONSTRUCTION
George H. Schnitzer, Cleveland, Ohio
Application May 22, 1942, Serial No. 444,145
9 Claims. (Cl. 309—4)



4. In a device of the character described, a piston rod, and a piston body mounted on said rod, said body comprising a hub portion and a radially extending flange, annular followers slidably mounted on said hub portion, and movable relatively to said flange, means securing said followers to said flange and limiting movement of the followers away from said flange, said followers having annular surfaces inclined relatively to the axis of said piston rod, annular split wedge rings mounted on said flange and having radially-inward inclined surfaces bearing on the inclined surfaces of said followers, and having also radially-outward surfaces inclined to the axis of said rod, and packing rings disposed between said flange and followers, said packing rings having inclined surfaces bearing on said radially-outward surfaces.

2,321,161
ELECTRICAL ASSEMBLY
Royal F. Sickles, Springfield, Mass., assignor to The F. W. Sickles Company, Chicopee, Mass., a corporation of Massachusetts
Application March 12, 1941, Serial No. 382,949
2 Claims. (Cl. 220—55)

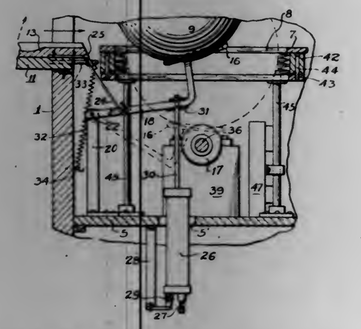
1. The combination of a shield having opposite side and bottom walls with a unit mounted centrally thereof with means for holding said unit

against shifting in the shield comprising, one wall of said shield provided with an entrance opening for slidably receiving the tongue of a retainer and the wall opposite thereto provided with an aperture having a wide lower portion for slidably receiving the locking end of a retainer and a relatively narrower upper locking portion, the opening and aperture lying approximately in the plane of the upper end of the unit, and a retainer of yieldable metal having a tongue at one end and provided at its other locking end at opposite longitudinal sides thereof with opposed notches open at said longitudinal sides, all adapted whereby



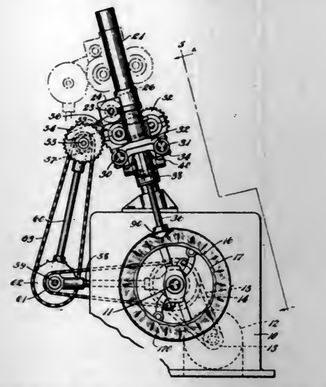
the tongue of the retainer may be inserted in the entrance aperture of said one wall to position said retainer over said unit and permit its locking end being moved downwardly past the said opposite wall into alignment with the lower portion of the aperture therein the intermediate portion of the retainer contacting said unit and then moved longitudinally to enter said locking end in the lower portion of the aperture with the notches thereof in alignment with the sides of the locking aperture and then released so that the notches and sides of the locking portion are in locking engagement to prevent longitudinal shifting of the retainer relative to the walls of the shield.

2,321,162
BALL FINISHING DEVICE
Alfred L. Sohm, Van Nuys, Calif.
Application July 29, 1942, Serial No. 452,700
6 Claims. (Cl. 15—21)



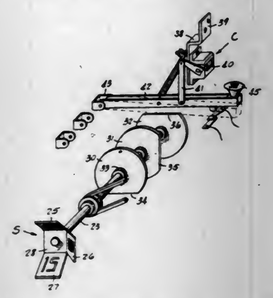
1. In a ball finishing device having a structure forming a ball chamber, a ball surfacing means in the chamber, power means in the chamber for rotating the ball, carrier means for transferring a ball from the top of the chamber to the bottom thereof, and vice versa, a cabinet with a doorway for housing the device, a door for said doorway hinged to the cabinet, said carrier means including a ring connected with the door and operated by the opening and closing of the door.

2,321,163
APPARATUS FOR BUILDING TIRES
Frank S. Sternad, Cuyahoga Falls, and John P. Sapp, Kent, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application December 9, 1941, Serial No. 422,243
14 Claims. (Cl. 154—10)



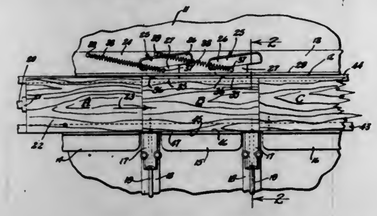
1. Apparatus for stitching sheet material to a driven building form having a side forming face, said apparatus comprising a rotatable stitching member mounted for free rotation in one direction, and means for driving said member in such direction while permitting free rotation of said member faster than the driving speed.

2,321,164
FARE REGISTERING AND INDICATING DEVICE
Samuel E. Stewart, Upper Darby, Pa.
Application October 3, 1941, Serial No. 413,400
3 Claims. (Cl. 235—33)



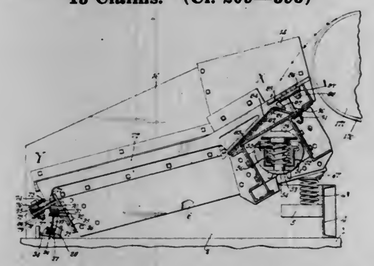
1. A fare registering and indicating device comprising a housing, a fare indicia image projection screen carried by a wall of said housing for inspection from the exterior of said housing, an optical system including a light source within said housing and spaced from said projection screen, a fare indicia member interposable between said light source and said screen within said housing, counter mechanism and fare indicia member operating mechanism arranged within said housing laterally of the optical path between said light source and said screen, and control means for said light source, fare indicia member, and said counter mechanism extending from the interior of said housing to the exterior for manipulation by an operator.

2,321,165
NAILING MACHINE
Glenn E. Stilwell, Riverside, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Original application July 6, 1937, Serial No. 152,076. Divided and this application May 26, 1941, Serial No. 395,249
5 Claims. (Cl. 1—1)



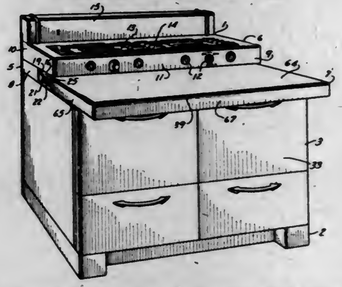
1. In a nailing machine, the combination of: nail chuck means; anvil means spaced therefrom for rigidly supporting work disposed therebetween and absorbing the shock imparted to said work by the driving of nails thereinto from said chuck means; means for feeding a series of individual pieces of work varying in transverse dimension through the space between said nail chuck means and said anvil means and in a direction parallel with said chuck means and anvil means; means responsive to the individual pieces of work as they are so fed for adjusting said space to snugly fit the transverse dimension of the particular piece of work disposed in said space; and means for driving a nail from said chuck means into said particular piece of work while the latter is disposed in said space.

2,321,166
BAR GRIZZLY
Loren G. Symons, Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 2, 1939, Serial No. 276,985
13 Claims. (Cl. 209—393)



12. As a new article of manufacture, an individual grizzly bar separately insertable in and removable from a grizzly, said bar including a body of solid cast metal which is of greater height than thickness substantially from end to end of the material engaging portion of the bar, an attaching portion extending downwardly from the discharge end of the bar and including a laterally extending web and an attaching portion extending downwardly from the feed end of the bar and including an attaching web, said webs being at all points separated from the upper material engaging surface of the bar by a substantial thickness of solid metal, each of said webs having lower faces substantially inclined in relation to the upper face of the adjacent portion of the bar, one of said webs including two portions downwardly inclined in opposite directions longitudinally of the bar.

2,321,167
COOKING RANGE
Harold W. Taft, Wichita, Kans., assignor to Coleman Bottled Gas, Inc., Wichita, Kans., a corporation of Kansas
Application September 11, 1940, Serial No. 356,368
8 Claims. (Cl. 126—37)



2. A range including, a cabinet section having an oven at one side thereof, a working top slidably supported on the cabinet section and projectable forwardly of the oven, a shield between the working top and the oven and having a portion projecting forwardly of the oven to deflect heated gases escaping from the oven when a door of the oven is open and the working top is projected forwardly of said oven, and a depending flange on the projecting portion of the shield.

2,321,168
VEHICLE LOADING AND UNLOADING DEVICE
Aldo Tognetti, Monterey County, Calif.
Application March 12, 1941, Serial No. 382,870
5 Claims. (Cl. 214—83)

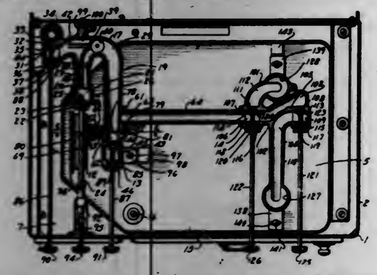


1. In the load-supporting bed of a transfer vehicle; an endless chain conveyor having a load-engaging portion extending over the bed from an edge thereof and reversedly operative to distribute over the bed material deposited upon it adjacent said edge or to discharge the distributed material from said bed edge; sprocket-carrying shafts having their sprockets operatively engaging the extremities of the load-engaging conveyor portion for use in actuating the conveyor; and means to actuate said conveyor comprising a drive shaft, driven shafts, chain-and-sprocket connections between the driven shafts and said conveyor shafts, and a differential gearing connecting the drive shaft with the driven shafts.

2,321,169
BURNER ASSEMBLY FOR RANGES
Boyd W. Tullis, Wichita, Kans., assignor to The Coleman Lamp and Stove Company, Wichita, Kans., a corporation of Kansas
Application January 29, 1940, Serial No. 316,106
6 Claims. (Cl. 126—44)

1. A burner unit including an integral casting having parallel arms in the same horizontal

plane when in operative condition and interconnected by a substantially U-shaped bend, one of said arms forming a mixing chamber therefor, the other arm forming a flow duct, a generator burner supported by the last named arm, a vaporizer heated by said burner, a valve controlling



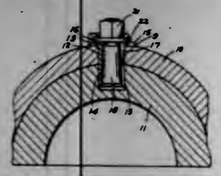
flow of liquid fuel to the vaporizer and having an operating stem, a master burner carried by the last named arm, and a valve connected with said last named arm and having an operating stem located in parallel alignment with the first named valve.

2,321,170

MULTIPLE-PART ASSEMBLY BOLT

John F. Wallace, University Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio

Application May 4, 1942, Serial No. 441,627
3 Claims. (Cl. 85—2.4)



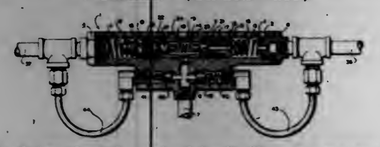
1. In a device of the character described, a longitudinally split sleeve with a tapered inner surface, said sleeve having an enlargement at one end with a groove therein running around the sleeve a bolt with a tapered outer surface extended into said sleeve, and a nut for said bolt having a flange extended into said groove, whereby relative longitudinal movement of the nut and sleeve is prevented.

2,321,171

TWO-HAND CONTROL

Basil J. Yanchenko, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York

Application January 19, 1942, Serial No. 427,356
5 Claims. (Cl. 192—131)



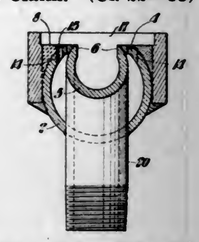
1. A two hand control including a master valve having a movable valve member, opposing inlets for motive fluid, and an outlet, the valve member having heads for closing the inlets respectively and being normally arranged so that the inlets and the outlet are open, and being shiftable to close the outlet and either inlet when fluid is supplied to the other inlet only, a supply line having branches to the inlets respectively, and individually operable manual valves in said branches, the manual valves being of the combined intake and exhaust type and normally arranged so that their intakes are closed and the exhaust open, and conduits connecting the branches between the manual valves and the master valve, and the outlet of the master valve, the conduits having check valves therein operable to exhaust the fluid from the outlet when either of the manual valves is in its normal position.

2,321,172

APPARATUS FOR COATING MOLDS AND THE LIKE

Austin L. Ayers and Walter Hensel, Cleveland, Ohio

Application November 19, 1941, Serial No. 419,780
1 Claim. (Cl. 22—88)



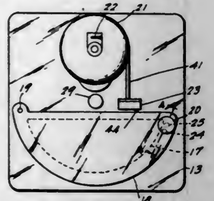
Apparatus for coating molds with a liquid composition comprising a tray supported beneath said molds and coextensive therewith, an outboard flat plate extending from each of the upper edges of said tray, each of said outboard flat plates being provided with at least one orifice, means for continuously applying the coating composition to the tray and the outboard flat plates, walls surrounding said flat plates to prevent flow of the coating composition therefrom, and means for supplying a gaseous medium under pressure through said orifices.

2,321,173

APPARATUS FOR MAKING SEMIFROZEN CONFECTIONS

Kenneth E. Bemis, Oakland, Calif.

Application November 10, 1941, Serial No. 418,522
4 Claims. (Cl. 62—114)



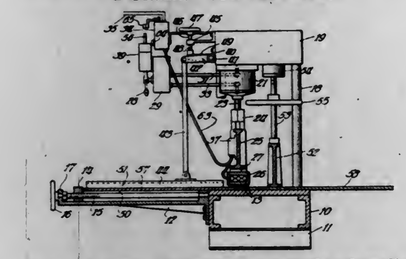
1. Apparatus for making semi-frozen confections comprising; a container rotatably supported on a vertical axis; a main cover for said container and isolated therefrom for free rotative movement of the container relative to said cover; a plurality of beaters projecting downwardly into said container, and means supported by said main cover for driving and suspendedly supporting said beaters; said beaters functioning to cause rotation of said container through cooperation with the material within the container during the beating operation; manually operable means for controlling operation of said beaters; fluid circulating means and driving means therefor mounted below said container, and manual control means for said driving means; said apparatus being mountable in a refrigerated space; said fluid circulating means operating to force cold fluid from the lower zone of the refrigerated space into heat transfer relation to said container, to increase the degree of freezing of the material within the container at will.

2,321,174

MEANS OF FABRICATING WALL SECTIONS AND THE LIKE

Oscar Bergstrom, Evanston, Ill., assignor to Handy Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application April 24, 1941, Serial No. 390,156
1 Claim. (Cl. 144—279)



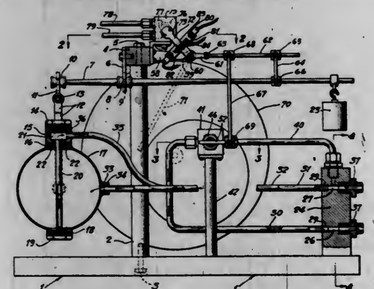
Apparatus for joining two panels of wall board together comprising means to hold said panels in edge abutting relationship, and means to urge a gusset against said abutting edges, said means comprising a hot plate adapted to overlie said gusset, pneumatically operated press means to urge said hot plate against said gusset, and means for controlling the operation of said press means, said control means including a valve adapted for manual operation in one direction together with automatic means for operating said valve in the other direction, and timing means for the control of said automatic valve operating means whereby said hot plate will be removed from contact with said gusset after a predetermined period of time.

2,321,175

LIQUID GRAVITOMETER

George S. Binckley, Los Angeles, Calif., assignor, by decree of court and mesne assignments, to Sydney William Binckley, as trustee

Application August 4, 1940, Serial No. 351,358
8 Claims. (Cl. 265—44)



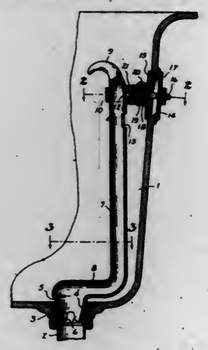
1. In a liquid gravitometer, a pair of resilient tubes, a relatively fixed support for one end of each of said tubes, and a bulb secured to and partially supported by the opposite ends of said tubes; one of said tubes serving to conduct a flowing liquid into the bulb and the other of said tubes providing for the egress of liquid from the bulb; a counter-balance beam cooperating with said tubes for supporting the bulb in every position when filled with liquid of a selected specific gravity, means for balancing said beam, bulb and its contents and stressing said tubes at said selected specific gravity whereby change in specific gravity and liquid flowing through said bulb, produces deflection of said tubes, and means to indicate said deflection.

2,321,176

WASTE AND OVERFLOW FITTING

Leon Bloch, Cleveland, Ohio

Application December 16, 1941, Serial No. 423,150
5 Claims. (Cl. 4—206)



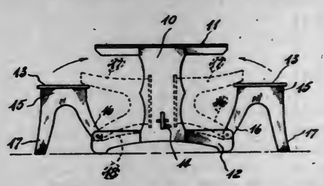
1. The combination with a receptacle having a drain outlet in the bottom thereof adjacent a side wall, of a fitting having a valve portion adapted to close said drain outlet, a strainer portion below the valve portion and a stem portion laterally offset with respect to the valve portion and extending upwardly therefrom, said fitting having an overflow passage therein which discharges through the valve portion into the drain outlet, the upper end of the overflow passage being in said stem portion above the valve portion and below the top of the receptacle, a stationary guide member through which said stem extends, a stop on the stem engageable with said guide member to limit the upward movement of the fitting and prevent disengagement of the strainer portion from the drain outlet.

2,321,177

COMBINATION TABLE AND BENCH

Claire E. Blossom, Vassar, Mich.

Application August 28, 1941, Serial No. 408,648
3 Claims. (Cl. 155—124)



3. A combination table and bench structure comprising a table having legs terminating in elongated laterally projecting feet having depressed seats on their upper edges, each bench

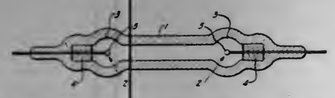
being provided with front and rear legs with the front legs shorter than the rear legs and resting in said seats to dispose the tops of the benches horizontally when extended, links pivotally connected to said front legs and to the table feet at a point spaced inwardly from the outer ends of said feet, whereby the benches may be swung upwardly to position the bench legs on the table feet, with the rear legs disposed in said seats and supporting the benches in upright position entirely on the table feet when the benches are in folded position.

2,321,178

HIGH PRESSURE MERCURY VAPOR DISCHARGE DEVICE

Harry Kebbell Bourne, Rugby, and Leslie John Capp, Daventry, England, assignors to General Electric Company, a corporation of New York

Application May 2, 1941, Serial No. 391,580
In Great Britain October 14, 1940
3 Claims. (Cl. 176—122)



1. A high pressure mercury vapor discharge device of the type adapted to operate at pressures materially in excess of several atmospheres comprising a sealed elongated tubular quartz envelope have a diameter of the order of several millimeters, enlarged bulbous chambers adjacent the ends of said envelope, lead-in conductors sealed in and extending through the ends of said envelope into said chambers and terminating in electrodes positioned substantially centrally in said chambers, reduced end condensation chambers located between said bulbous chambers and the seal between the lead-in conductors and the envelope, and mercury pools retained in the said end condensation chambers around said lead-in conductors and in close proximity to said electrodes.

2,321,179

SHEET-CLEANING APPARATUS

William R. Boyer, Oakmont, Pa., assignor to Blaw-Knox Company, a corporation of New Jersey

Application February 25, 1941, Serial No. 380,419
4 Claims. (Cl. 15—77)



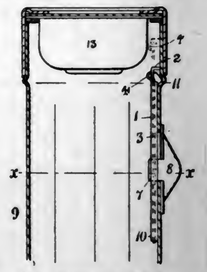
1. In apparatus for scrubbing sheet material a scrubbing element consisting of paired back-up roll and brush, each comprising part of a unit severally applicable to and removable from housings, each unit including first, a rotatable member, second, a pair of chocks in which the rotatable member is borne, third, a shield open throughout an interval but incompletely shrouding the rotatable member and uniting the chocks, and fourth, a panel part borne by the shield, the shields of the two said units arranged in the assembly with their openings in opposed positions facing one another and the panel parts borne by the shields meeting with overlapped edges and forming part of a brush-surrounding tunnel.

2,321,180

SWITCH FOR ELECTRIC TORCHES OR THE LIKE

Thomas Bradbury, Birmingham, England, assignor to Phillips Telescopic Taps Limited, Birmingham, England

Application December 2, 1941, Serial No. 421,349
In Great Britain December 6, 1940
4 Claims. (Cl. 200—60)



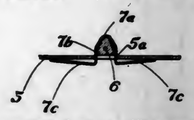
1. A switch for electric flashlights comprising a flashlight casing, a switch bar slidably mounted on the casing and formed of sheet metal, a strip spring on the inner side of the bar, inturned longitudinal edges on the switch bar folded over the rear portion of the spring, a contact nose on the front end of the spring, an opening in the bar through which the contact nose passes to the limit allowed by the strip spring bearing against the inner face of the bar, a flange on the front end of the switch bar, a portion of the flashlight casing of larger size than that on which the switch bar is slidably connected on which the said flange bears for distancing the end of the bar from the flashlight casing and a recess formed between the switch bar and said portion of the casing of larger size into which the contact nose is depressed when making contact.

2,321,181

THERMOMETER

H. Brainard Brown, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application July 17, 1941, Serial No. 402,775
3 Claims. (Cl. 73—376)



2. In a thermometer, a thermometer tube, a support for said tube, said support having spaced slots therein, and clasps retaining said tube on said support, each clasp comprising a loop extending through a slot to embrace said tube at the front surface of the support and also comprising spring-like means engaging the rear surface of said support to bias said loop toward said support.

2,321,182

ELECTRODEPOSITION OF NICKEL FROM AN ACID BATH

Henry Brown, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware

No Drawing. Application July 28, 1939, Serial No. 287,057
13 Claims. (Cl. 204—49)

1. A method for electrodepositing nickel to obtain a fine-grained deposit comprising the step of electrodepositing nickel from an aqueous acid nickel solution comprising essentially a material selected from the group consisting of nickel sulphate, nickel chloride, and a mixture of nickel chloride and nickel sulphate in the presence of an aliphatic polyhalogenated aldehyde soluble in the solution and having at least one halogen atom in alpha position to the aldehyde group, the halogen substituents of the polyhalogenated aldehyde being selected from the group consisting of chlorine and bromine.

2,321,183

PROCESS OF HOT ROLLING DEEP DRAWING STEEL SHEETS

Robert R. Brown, Chicago, Ill.

No Drawing. Application November 15, 1941, Serial No. 419,349
1 Claim. (Cl. 148—12)

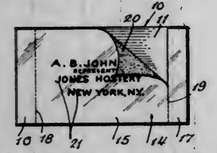
In the production of cold reduced, box annealed, rimmed steel sheets for deep drawing fabrication, the improvement which comprises hot-rolling slabs of rimmed steel into strip adapted to be cold reduced into deep drawing sheet, while controlling roughing temperatures of all of the said slabs during rolling to maintain a roughing temperature range of from approximately 2000° F. to approximately 2050° F., to produce a predetermined range of sizes of the ferrite grains in the sheets after cold reduction and box annealing.

2,321,184

COMBINED BUSINESS CARD AND LABEL

Frances Miller Butterworth, Hasbrouck Heights, N. J.

Application May 2, 1942, Serial No. 441,448
1 Claim. (Cl. 283—21)



In an article of the type described, a base, and a sheet having a central portion and two side portions situated on two sides of said central portion, said central portion having printed matter thereon and being removable from said side portions; and a layer of adhesive carried by the rear surfaces of said central portion and said side portions, the adhesive upon said side portions connecting said sheet with said base, whereby said sheet is mounted upon a surface of said base, while the adhesive upon said central portion is devoid of operative engagement with the underlying surface of said base, said sheet being substantially coextensive with said base, whereby said sheet and said base form a combined business or service card and label.

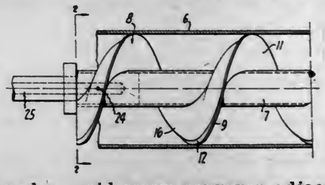
2,321,185

HEAT EXCHANGE SCREW CONVEYER

Joseph D. Christian, San Francisco, Calif.

Application November 20, 1940, Serial No. 366,323
3 Claims. (Cl. 257—101)

1. In combination, a duct, a helical screw conveyer including a shaft and a screw member thereon having a leading and a following face thereon and rotatable in said duct with the outer edge of said screw substantially wiping said duct and with the inner edge thereof abutting said shaft, said leading face extending outwardly away from said shaft substantially at 90° thereto, and presenting a substantially flat surface for maximum conveyer efficiency, and a member



positioned on said screw conveyer adjacent said following face to enclose a fluid passage, a portion of said member being joined to said screw member adjacent to said wiping edge but spaced along said following face from said wiping edge.

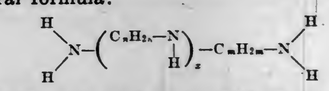
2,321,186

FROTH FLOTATION OF ACIDIC MINERALS

Ludwig Jacob Christmann, Yonkers, N. Y., and David Walker Jayne, Jr., Old Greenwich, and Stephen E. Erickson, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 4, 1940, Serial No. 355,366
7 Claims. (Cl. 209—166)

1. In the froth flotation process of separating phosphate ore values from acidic siliceous gangue the step which comprises subjecting the ore to froth flotation in the presence of a reagent comprising the diacidyl reaction products of a polyalkylene polyamine represented by the following general formula:



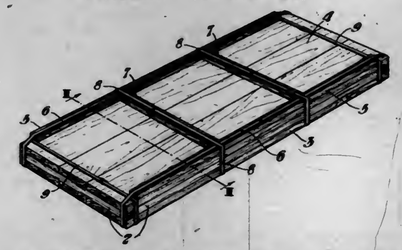
in which n, m, and x are small whole numbers with cottonseed oil.

2,321,187

MEANS FOR PACKAGING SHEET MATERIAL AND THE LIKE

Dominic A. Di Cicco, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

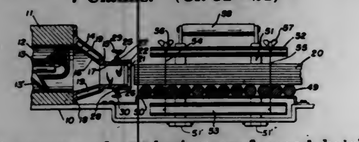
Application January 7, 1942, Serial No. 425,930
9 Claims. (Cl. 206—60)



1. A package for shipping sheet material and the like comprising a rectangular shaped body member for housing the material, at least a pair of longitudinally extending strengthening members arranged on one side of said body member with one arranged along each of the longitudinally extending edges thereof, said strengthening members terminating a short distance from the extreme end of said body member, strengthen-

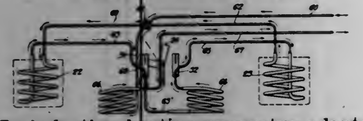
ing means arranged on said body member and extending between said strengthening members, and binding means arranged around the body member and said strengthening members and means both longitudinally and laterally thereof so as to securely bind said members and means together.

2,321,188
METHOD OF EXTRUDING PLASTIC SUBSTANCES
Charles Doering and Henry H. Doering, Chicago, Ill.
Application April 21, 1939, Serial No. 269,297
7 Claims. (Cl. 31—24)



1. A process of producing preformed bricks of edible plastic dairy substances which consists in extruding plastic material through a constriction to form large self-defined sheets of adhering superposed thin slabs, each of a thickness required for segment servings, and then transversely severing the extruded superposed plastic thin slabs at uniform lengths that are not self-sustaining nor form-retaining unless supported on their entire flat bottom surfaces.

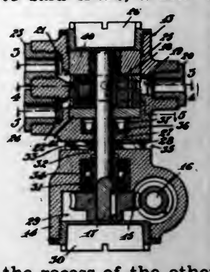
2,321,189
INDUCTION HEATING APPARATUS
Paul E. Dravneek, New York, N. Y., assignor to Induction Heating Corp., New York, N. Y., a corporation of New York
Application December 26, 1942, Serial No. 470,233
8 Claims. (Cl. 219—13)



4. In induction heating apparatus adapted to be operated with current from a high frequency power oscillator, the combination of two tank circuit output transformer primary coils, electrical connections and switch means for alternatively connecting said coils to complete a tank circuit of the oscillator, said connections and coils all including communicating cooling fluid conduits of metal, and insulation conduits communicating therewith and for bridging said switch means, to maintain cooling streams through both coils regardless of the opening of the circuit by the switch means to either coil.

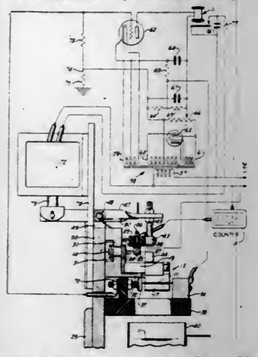
2,321,190
ROTARY PUMP
Herman Ray Ellinwood, Burbank, Calif., assignor to Adel Precision Products Corporation, Burbank, Calif., a corporation of California
Application March 30, 1940, Serial No. 326,995
3 Claims. (Cl. 103—136)

2. In a rotary pump, a pair of axially spaced housings formed with bores opening at the outer ends of the housings and having end walls opposed to each other and formed with internal recesses and mutually aligned openings, a shaft extending through said openings and projecting into said bores, a bearing for said shaft in the recess in one of said end walls, a drive gear on said shaft in one of said bores, a rotary pump assembly in the other of said bores including a rotor affixed to said shaft, a seal encompassing



said shaft in the recess of the other of said end walls, and end caps screwed on said housings acting as end thrust bearings for said shaft.

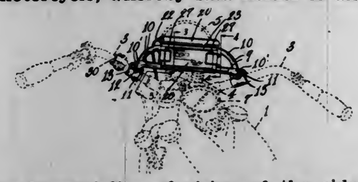
2,321,191
FILAMENT SORTING APPARATUS
Duryea E. Elmendorf, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application September 26, 1940, Serial No. 358,565
3 Claims. (Cl. 209—82)



1. A device for sorting flexible filaments according to length comprising a carrier for supporting a filament and advancing it to each of a plurality of stations in turn, means located at each succeeding station providing a pair of spaced fixed contacts for making electrical connections to the ends of the filament, said pairs of contacts forming a gradually narrowing path of a width corresponding to the normal range in length of the filaments, and means for releasing the filament from the carrier upon engagement of its ends with both contacts of one pair to complete an electrical circuit therebetween comprising a condenser connected across an electronic control tube, means for charging said condenser, said tube having a grid connected to each pair of contacts for activating the tube when a filament bridges a pair of contacts, such activation causing a discharge of the condenser through the tube, and means actuated by the discharge of the condenser for releasing the filament from the carrier.

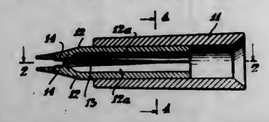
2,321,192
MOTORCYCLE PAD HOLDER
Joseph Fischer, Grand Rapids, Mich.
Application May 31, 1941, Serial No. 396,107
2 Claims. (Cl. 224—36)

2. In combination with a motorcycle or like vehicle provided with steering handlebars, a holder for various articles, and a support for said holder to which the latter is secured, comprising a bridge-like, elongated member having clamps on the ends thereof rigidly engageable with the handlebars on opposite sides of the center of the motorcycle, whereby said holder is disposed



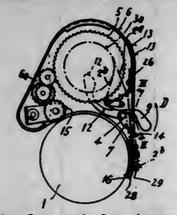
in the forward line of vision of the rider and rearwardly of the headlamp and other equipment of the motorcycle, in which position swinging movement thereof when the motorcycle is turned is reduced to a minimum, said elongated member having an upwardly bowed central portion to which said holder is secured.

2,321,193
GAME CALL
George H. Garrison, Delphi, Ind.
Application September 30, 1941, Serial No. 412,929
7 Claims. (Cl. 46—180)



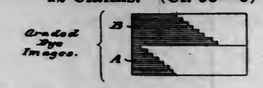
1. A game call comprising a vibratory reed, means for clamping one end of said reed, vibration limiting surfaces adjacent the free end of said reed and at least one spacing member of substantially less width than said reed, located between said vibration limiting surface and said reed.

2,321,194
RIBBON SPREADING DEVICE FOR CARBON COPY MAKING ATTACHMENTS FOR TYPEWRITERS
Josefine Rosa Geser, Zurich, Switzerland
Application September 13, 1941, Serial No. 410,784
In Switzerland November 12, 1940
5 Claims. (Cl. 197—153)



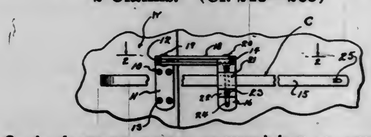
1. In an attachment for typewriters, a frame adapted for mounting on a typewriter carriage and having a ribbon spool adjacent each end thereof; a housing for each of said spools; a pair of ribbons wound in superposed relation on said spools and connecting them; means for pivotally mounting said frame to bring it into writing position with said ribbons adjacent the writing field of the typewriter platen or to retract it and swing said ribbons away from said platen; a pair of superposed ribbon guide members on each of said housings; and means comprising an eccentric pivoted on each of said housings and an actuating handle therefor for spreading said ribbon guide members and the ribbons carried thereby apart when the frame is swung away from writing position.

2,321,195
COLOR PHOTOGRAPHIC MATERIAL AND METHOD OF USING THE SAME
Paul Goldfinger, Brussels-Uccle, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated, a corporation of Nevada
Application December 4, 1939, Serial No. 307,507
In Great Britain December 22, 1938
12 Claims. (Cl. 95—6)



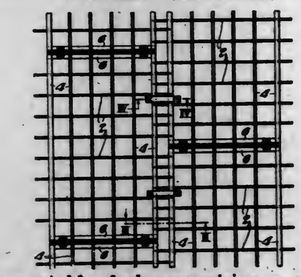
1. A light-sensitive photographic material for the production of colored images which comprises two superposed silver halide emulsion layers, each of said layers having evenly distributed therein a coloring substance adapted to produce colored images of approximately the same color in both layers, both layers being sensitized to and transmittant for light of the same spectral composition, the one of said layers having a comparatively low speed with respect to the other layer.

2,321,196
DRAPERY CRANE
John N. Graber, Madison, Wis.
Application October 6, 1941, Serial No. 413,809
2 Claims. (Cl. 248—265)



2. A drapery crane comprising, a supporting fixture adapted to be secured to a window frame, including an outwardly extending leg, a drapery bar, a drapery bar bracket including a depending vertically extending leg and in inwardly directed right angularly extending leg, a link pivotally connected to the leg of the fixture and to the inwardly extending leg of the bracket, and a clamp slidably mounted on the depending leg of the bracket in a vertical plane, said clamp slidably receiving the bar for movement transversely of the depending leg.

2,321,197
AIRPLANE RUNWAY
Gerald G. Greulich, Mount Lebanon, Pa.
Application July 25, 1941, Serial No. 404,085
2 Claims. (Cl. 94—13)



1. A portable deck comprising a plurality of

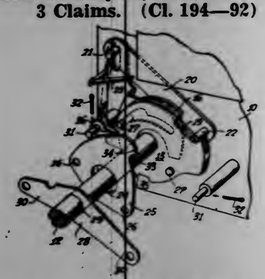
connected mats adapted for rapid attachment and detachment, each of said mats comprising a plurality of spaced parallel elements, the ends of said spaced parallel elements being connected by an outwardly facing channel member through which they extend and project, the spaced parallel elements of one mat being adapted to extend into the channel of the next adjacent mat.

2,321,198
TRANSPORT
Edwin H. Graves, Piedmont, Calif., assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application June 18, 1941, Serial No. 398,545
5 Claims. (Cl. 214—65.3)



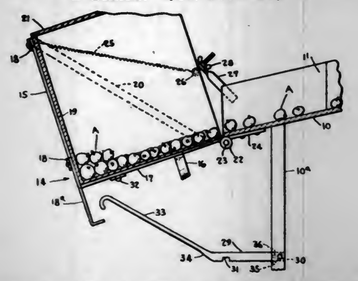
1. A transport comprising a draft vehicle, a frame articulated on said draft vehicle and having a pair of spaced apart side members, a body disposed between said side members and having an open rear end, side walls on said body diverging toward the rear thereof, arches intermediate the ends of said body and upstanding from said side walls, means on said arches for handling a load in said body, and means for mounting said body to swing on said frame between said side members.

2,321,199
COIN RELEASE
Bernhard C. Grunig, Chicago, Ill., assignor to A. B. T. Manufacturing Corp., Chicago, Ill., a corporation of Illinois
Application January 23, 1941, Serial No. 375,598
3 Claims. (Cl. 194—92)



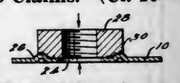
1. A latch plate adapted to be operatively associated with a coin carrier and arranged for latching engagement with a latch member to normally restrain the coin carrier against effective movement, said latch member disposed to block normal gravitational movement of coins through said carrier and being moved into non-latching position by a coin disposed in said carrier, means keying said latch plate to said coin carrier for rotative movement therewith, latch engaging means on said plate adapted to be engaged by the latch member aforesaid when no coin is disposed in the coin carrier, and cam means on said latch plate adjacent said latch-engaging means arranged to hold said latch member out of engagement with a coin disposed in said carrier the moment the latch member is moved into non-latching position as aforesaid to free said coin for gravitational movement from said carrier.

2,321,200
APPARATUS FOR LOADING CONTAINERS
Herbert L. Hahn, Doylestown, Ohio
Application October 9, 1939, Serial No. 298,582
1 Claim. (Cl. 226—16)



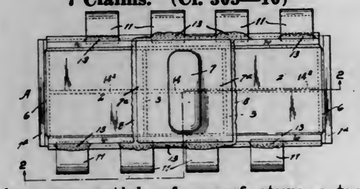
Apparatus for loading containers comprising the combination with the discharge end of a chute or conveyor of a frame or support of substantially L shape pivoted adjacent the discharge end of the conveyor, one arm of the L shaped support being arranged to support the side and the other arm of the L shaped support the bottom of a container for receiving articles from the conveyor, yielding means normally holding the L shaped support with the first named arm thereof substantially aligned with the discharge end of the conveyor but sloping to a sufficient extent whereby articles discharged from the conveyor will roll into the container, said yielding means permitting the L shaped support to swing downwardly under the increasing load of articles rolling into the container until the L shaped support moves into a substantially vertical position in which the container will be filled with articles which have rolled therein from the conveyor, and a releasable latch and a pin mounted in the apparatus, one on the L shaped frame and the other in the apparatus in the path of each other as the frame lowers to its substantially vertical position with one arranged to ride on the other and both arranged finally yieldingly to engage each other so as to lock the frame in said substantially vertical position as it moves into said substantially vertical position, whereby a filled container may be removed from the frame and replaced by an empty container, said latch being releasable to permit the yielding means to return the frame to its initial position with the side supporting arm thereof substantially aligned with the conveyor.

2,321,201
WELDED NUT AND PLATE ASSEMBLY AND PROCESS OF MAKING THE SAME
Ross V. Heilman, Detroit, Mich., assignor to Wall Wire Products Company, Plymouth, Mich., a corporation of Michigan
Application June 15, 1942, Serial No. 447,182
8 Claims. (Cl. 10—86)



1. The method of forming a welded nut and plate assembly to which a bolt is adapted to be secured and in which the thickness of the plate is relatively small as compared with the thickness of the nut, which consists of utilizing dies to form a bolt hole in a plate and a ridge at least partially around and spaced from said bolt hole, seating the corners of a flat face of a nut upon said ridge with the threaded hole in said nut substantially aligned with said bolt hole in said plate, applying heat and pressure to said nut and plate so as to cause said corners of said nut to melt and fuse with said ridge and so as to bring the said face of said nut and the surface of said plate inside said ridge substantially into contact with each other.

2,321,202
TRACTION CRAWLER SHOE
Ferdinand H. Heine, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation
Application March 5, 1941, Serial No. 381,905
7 Claims. (Cl. 305—10)

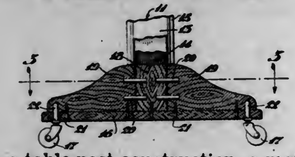


1. As a new article of manufacture, a traction shoe comprising a bottom plate, L-shaped plates disposed upon the bottom plate at the ends thereof with the leg of the L-shaped plate disposed toward the center of the bottom plate and depending from the body of the L-shaped plate, a traction driving lug member comprising a lug and base portion extending laterally therefrom and mounted upon the central portion of the shoe so as to be supported at its lateral base portions upon the L-shaped plates, pivot lugs projecting forwardly and rearwardly from the body of the shoe, and welded connections between the L-shaped plates and bottom plate and the L-shaped plates and the driving lug member.

2,321,203
STABILIZER FOR METAL DISPERSIONS IN LUBRICANTS
Robert W. Henry, Bartlesville, Okla., and Sylvester C. Britton, Joliet, Ill., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application March 3, 1941, Serial No. 381,598
3 Claims. (Cl. 252—26)

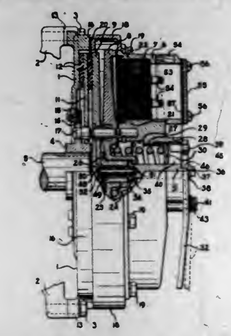
1. An improved lubricant of the class consisting of oils and greases having incorporated therein a colloidal soft metal in amount varying from 0.002% to 0.186% and phenyl ethanol amine in an amount varying from 0.03% to 5% as a stabilizing agent, to improve the wear resisting properties of the so treated lubricant.

2,321,204
TABLE POST CONSTRUCTION
William A. Hillenbrand, Batesville, Ind., assignor to Hill-Rom Company, Inc., Batesville, Ind., a corporation of Indiana
Application November 5, 1941, Serial No. 417,930
4 Claims. (Cl. 311—110)



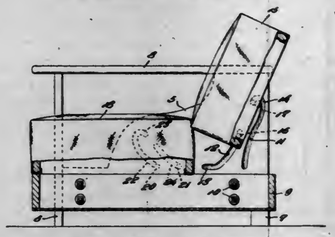
1. In a table post construction, a metal tubular post element, a horizontally disposed strip of wood having said tubular post engaging it centrally of its length, a block of wood within the post at the lower end thereof, gusset members secured in the respective corners between the post and the strip of wood, and attaching pegs extending into the block of wood and the gusset members respectively through the walls of the tubular post.

2,321,205
ELECTROMAGNETIC BRAKE
Howard E. Hodgson, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 28, 1941, Serial No. 420,801
7 Claims. (Cl. 188—171)



1. A multi disk friction brake including a stationary braking element and a circular assembly detachably mounted upon said stationary braking element, said assembly being removable as a unit from said stationary braking element without substantial axial displacement thereof, and comprising a circular releasing magnet, a brake setting spring of coil form mounted within a center opening in said magnet, a nut threaded within the center opening in said magnet and rotatable to adjust said spring, and an element mounted upon the exterior of said magnet and operable to effect release of said brake, said element being also operable to adjust said nut for variation of the brake setting pressure of said spring.

2,321,206
COMBINATION SOFA AND BED
Sherwood Earl Holcomb, Rome, Ga., assignor to Fox Manufacturing Company, Rome, Ga., a corporation
Application April 18, 1942, Serial No. 439,606
4 Claims. (Cl. 5—47)



3. In an article of furniture, a frame having end walls, a seat section, a movable back section, each of said end walls at its rear portion being

provided with a pair of substantially vertically disposed and inclined horizontally spaced guideways, the rearmost guideway being of steeper inclination than the other and having a forwardly disposed gooseneck extension at its upper end, the other guideway having a substantially horizontal extension at its lower end, each end of the back section being provided with a pair of spaced pintles for disposition in the corresponding guideways, the upper portion of each forward guideway being substantially aligned on an inclined line with the forward end portion of the gooseneck extension of the complementary rearward guideway, the forward ends of the gooseneck extension serving to receive the innermost pins of the back section while the upper portions of the forward guideways serve to hold the remaining pins in maintaining the back section in an elevated position.

2,321,207
SCREEN FOR CENTRIFUGAL MACHINES
Andrew F. Howe, University City, Mo., assignor to B. H. & M. Company, St. Louis, Mo., a corporation of Missouri
Application August 25, 1941, Serial No. 408,145
12 Claims. (Cl. 210—76)

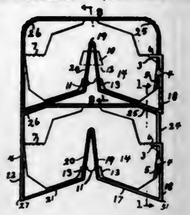


1. In a device of the character described including a metallic truncated cone having numerous relatively large openings therethrough for the outward flow of liquid and suspended particles; a metallic frusto-conical screen within said cone comprising a series of rings of graduated diameter and circumference complementary to the inside diameter and inside circumference of said cone and certain of which rings cross said openings, spacers between and holding said rings in vertically spaced relationship and providing numerous outwardly opening passages between said rings communicating directly with said openings for the flow of liquid and suspended particles from within said screen, and ribs integral with the peripheries of said rings and with the inner surface of said cone holding said screen in rigid spaced relationship with respect to said cone.

2,321,208
ORGANIC SOLUTION OF FORMALDEHYDE-UREA REACTION PRODUCT
Arthur M. Howald, Toledo, Ohio, assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company, a corporation of Ohio
No Drawing. Application April 24, 1941, Serial No. 390,101
11 Claims. (Cl. 260—29)

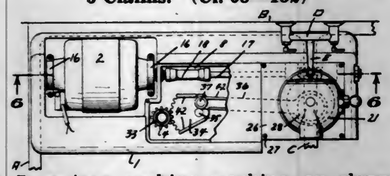
1. A substantially anhydrous organic solution prepared from an acid, an organic solvent comprising an alcohol, and a water-soluble formaldehyde-urea reaction product that has been condensed to a point beyond the addition stage in an aqueous solution substantially free of organic solvents for said reaction product.

2,321,209
CELLULAR CARTON HAVING SELF-ROTATING CROSS PARTITIONS
Earl E. Holwick, Laguna Beach, Calif.
Application November 12, 1941, Serial No. 418,684
22 Claims. (Cl. 229—29)



1. A blank for a carton comprising a sheet cut, scored, folded and secured to produce a shell having continuous bottom and longitudinal partition sections, a rear wall, a front wall, cross partitions hinged to said walls, and links extending between and connecting the lower ends of said cross partitions and walls and below the hinged portions.

2,321,210
WASHING MACHINE
Merlin M. Jackson, San Jose, Calif.
Application July 29, 1942, Serial No. 452,735
3 Claims. (Cl. 68—132)

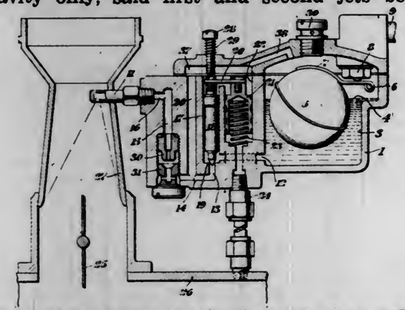


1. In a tray washing machine, an elongated casing adapted to rest on a wash tray and having a flat bottom and front and rear walls, an underslung section at one end of the casing and being adapted to lie against one wall of the tray, a motor disposed in the underslung section and having a shaft extending along the rear wall of the casing in close proximity thereto and having a worm at the far end thereof, a clutch mechanism mounted forwardly of the worm and having a horizontally disposed worm gear meshing with the latter, an eccentric on top of the worm gear and immediately adjacent thereto, a pinion for driving an agitator shaft at the near end of the casing, a quadrant pivoted to the flat bottom of the casing in driving relation to the pinion and forwardly of the motor shaft and in substantially the same plane, and a connecting rod between the eccentric and the quadrant for driving the latter, the connecting rod and the shaft being spaced horizontally throughout the lengths thereof and disposed in close proximity to the bottom of the casing.

2,321,211
AUXILIARY FUEL FEEDING DEVICE FOR INTERNAL COMBUSTION ENGINES
Albin V. Johnson, Cedar Grove, N. J., assignor to Automotive Economy Corporation, Jersey City, N. J., a corporation of Delaware
Application July 27, 1940, Serial No. 347,998
1 Claim. (Cl. 261—69)

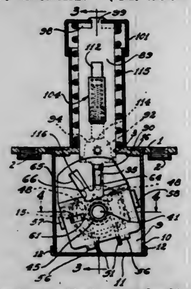
In a device of the character described, the combination of a body portion and a cover therefor, a fluid chamber in said body, a horizontally disposed discharge nozzle extending externally of said body adjacent the top of said body and

adapted to be inserted within the zone of suction of an internal combustion engine carburetor, a fluid passage within said body and interconnecting said chamber and nozzle, said passage comprising horizontally and vertically disposed portions, a first metering jet in said vertically disposed fluid passage portion intermediate said discharge nozzle and said horizontally disposed passage portion constructed and arranged so as to vary the flow capacity in accordance with suction imposed through said nozzle, a second jet between said first jet and said chamber constructed and arranged so that the flow of fluid therethrough is under the pressure influence of gravity only, said first and second jets being
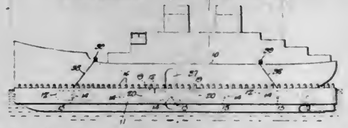


substantially below the liquid level of said fluid chamber and being so constructed and arranged that the entire fluid flowing through said nozzle passes in series through said jets, an air vent passage formed jointly in said cover and said body and in communication with said fluid passage intermediate said jets, a vertically movable valve member positioned in a bore in said body for varying said jet opening, a pneumatically operable piston substantially parallel to said valve member positioned in a cylinder formed in said body and connected to said valve member for movement thereof, means for urging said piston upwardly against pneumatic operation and adjustable stop means carried by said cover for limiting the upward movement of said valve member and piston.

2,321,212
ELECTRIC SWITCH MEANS
Elmer E. Johnson, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application July 23, 1940, Serial No. 347,033
17 Claims. (Cl. 200—6)



1. An electric switch, including a housing, a driven member and a member actuated by said driven member both pivotally mounted in said housing, lugs provided on said members, a coiled spring the extremities of which are operatively related to the lugs of said driven and said actuated members, bridge means carried by said actuated member, insulating means supporting contact means carried by said housing, and driving means directly connected to said actuated member and arranged for oscillating said driven member to compress said spring by pressing at least one of its extremities toward the outer extremity to cause the spring to oscillate said actuated member whereby said bridge means may engage said contact means.

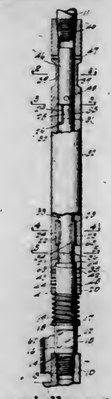
2,321,213
SHIP TORPEDO PROTECTOR
Louis Kolman, Brookline, Pa.
Application December 15, 1941, Serial No. 423,100
6 Claims. (Cl. 114—240)



1. A ship torpedo protector in combination with a ship hull, of a protective wall of armor plate, pontoons supporting the protective wall, a vertically movable member arranged in the hull of the ship, a shaft rotatably mounted in the vertically movable member, a frame carried by the pivot of said vertically movable member, levers pivotally connected at their inner ends to said plate, levers pivotally connected at their inner ends to the outer ends of the first-mentioned levers and pivotally connected at their outer ends to the protective armor plate, and a helical spring connected at its end to the pivots of the levers and tending constantly to extend the armor plate.

2,321,214
WITHDRAWN

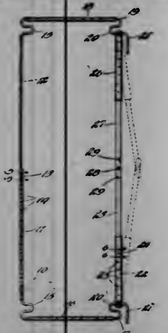
2,321,215
SAFETY COUPLING FOR SUCKER RODS
Hartley Burton Lee, Berkeley, Calif.
Application October 5, 1940, Serial No. 359,892
4 Claims. (Cl. 255—28)



1. Means for axially coupling two rods in a position accessible solely to one of the rods, comprising: a shaft and means for coupling said shaft to one rod; a sleeve telescopic over said shaft and means for coupling said sleeve to the other rod; cooperative interlocking means for

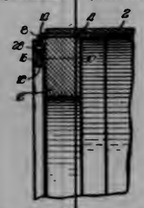
locking said shaft and sleeve against relative axial movement, and formed on said shaft and in said sleeve and operable through rotation of said sleeve on said shaft in one direction; guiding means on the upper end of said shaft and within said sleeve for axially aligning said shaft at its upper end in the upper end of the bore of said sleeve; cooperative stop means included in said guiding means for limiting the rotative movement of said sleeve on said shaft; and clutch means associated with said shaft for cooperation with said sleeve for maintaining the relative positions of said shaft and sleeve when interlocked; said means being releasable under predetermined torque differential with rotation in an opposite direction to move said interlocking means to non-locking position to permit removal of said sleeve from said shaft.

2,321,216
CURTAIN
Henrietta Lesko, Chicago, Ill.
Application December 6, 1940, Serial No. 368,795
7 Claims. (Cl. 160—369)



4. In combination, a generally rectangular planar frame composed of one side and two end members each of which is extensible, and an extensible bow pivoted to and extending between said end members and parallel to said side member to close the frame, a hinge member formed as a part of each one of said end members and extending beyond the point of attachment of said bow thereto, and a curtain on said frame, means on said curtain engaging and enclosing said frame members for holding said curtain taut as a planar member.

2,321,217
HIGH TEMPERATURE APPARATUS
Earl A. Lerner, Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application July 17, 1941, Serial No. 402,765
6 Claims. (Cl. 263—10)

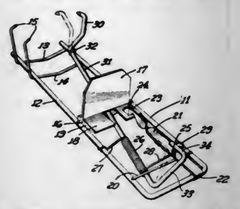


1. A retort or the like, comprising a body portion including a nose ring, a lining for said retort, said nose ring having an inwardly-presented liner-confining flange disposed adjacent the outer facing of said liner and in spaced relation outwardly from the inner marginal face of said liner, and a metallic protective shield for said flange having a nose extending axially of said retort and overlying the inner marginal edge of said flange.

2,321,218
PRODUCTION OF SODIUM SULPHATE
Charles L. Levermore, Rockville Centre, N. Y., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application June 14, 1940, Serial No. 340,475
6 Claims. (Cl. 23—121)

1. A process of converting impure acidic sodium sulphate into substantially pure normal sodium sulphate comprising forming a solution of the impure acidic sodium sulphate substantially saturated with respect to sodium sulphate and containing about 20% sulphuric acid by weight, and causing precipitation of normal sodium sulphate by substantially neutralizing said solution by treatment with a sodium compound.

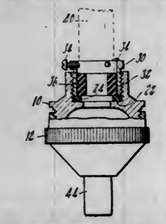
2,321,219
RODENT TRAP
David E. Lewis, San Fernando, Calif.
Application November 9, 1942, Serial No. 464,960
1 Claim. (Cl. 43—81)



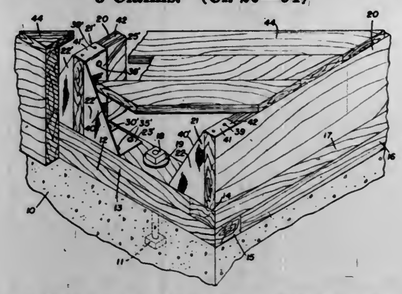
A rodent trap comprising a U-shaped wire frame, one or more stationary jaws secured to one of the sides of the frame adjacent the forward end thereof, a movable jaw pivotally mounted upon the opposite side of the frame adjacent the forward end thereof having a rotatable rod or wire extending rearwardly diagonally of the frame, said rod or wire having a crank arm at its rearward end, a coil spring surrounding the rotatable rod adjacent the crank arm having one end anchored to the first-mentioned side of the wire frame and the other end adapted to be sprung into set position and when released to engage the crank arm to urge the movable jaw to close, a cross wire connecting the sides of the wire frame, a trip pivotally mounted thereon, a latch pivotally mounted at the back of the frame having a portion engageable with the trip, said latch having a detent engageable with said other end of the spring whereby when the trip is engaged the latch will be released and will release said other end of the spring to allow it to engage the crank arm to cause the movable jaw to close.

2,321,220
WATER FILTER
Samuel Lieberman, Boston, Mass.
Application November 18, 1941, Serial No. 419,589
1 Claim. (Cl. 210—77)

In a water filter having a casing, a tubular neck projecting up from said casing and internally screw-threaded, said casing having an internal shoulder at the lower end of said neck, a nipple in threaded engagement within said neck, said nipple having an interior diameter of a size to receive the end portion of a faucet with a loose fit, a plurality of set-screws threaded through the upper end portion of said nipple and projecting radially therefrom, a tubular rubber gasket fitted within the nipple and adapted to be compressed between the lower end of a faucet secured in said nipple and said shoulder at the base of said neck, and a filtering element within said casing.



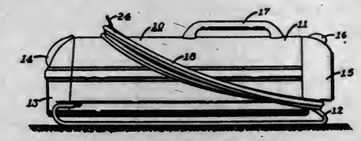
2,321,221
JOIST ANCHORING BRACKET
Irvin D. Linehan, Chicago, Ill.
Application November 18, 1940, Serial No. 366,089
3 Claims. (Cl. 20—94)



1. A joist or stud anchoring bracket comprising a vertical plate, an integral base flange offset horizontally relative to said vertical plate, there being apertures in said vertical plate and base flange to receive attachment fasteners engageable with adjacent surfaces of building structures, and an angular web plate formed integral with and between said vertical plate and base flange, said vertical plate having a horizontally offset integral flange above said angular web to engage the top surface of a joist, there being apertures in said last named top flange to receive fasteners therethrough, and a flange formed integral with said vertical plate to overlap said base flange for attachment thereto.

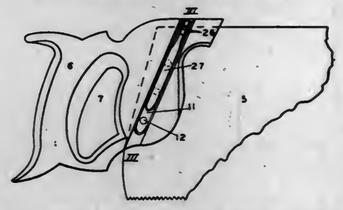
2,321,222
VACUUM CLEANER
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application November 8, 1940, Serial No. 364,803
1 Claim. (Cl. 15—1)

In combination with a portable vacuum cleaner having a casing enclosing an electric motor and provided with supporting runners and an electric cord, said runners being formed to provide a cord-receiving recess between themselves and the casing, cord-retaining structure mounted on said casing adjacent to the end thereof remote from said recess, said structure including a pivoted arm, resilient means for biasing said arm from



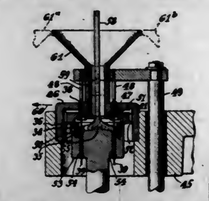
any pivotal position thereof away from said recess to a retracted position close to said casing, and stop means for limiting pivotal movement of said arm to an extended cord-retaining position.

2,321,223
SAW HANDLE
Alphonse Loughlin, San Francisco, Calif.
Application May 2, 1942, Serial No. 441,504
1 Claim. (Cl. 145—108)



The combination of a saw blade and a handle therefor, said handle having a slot formed therein, a pair of spaced pins carried by said handle and extending across said slot, said saw blade having an inclined slot formed therein and a notch formed in its upper margin, said slot and said notch engaging said spaced pins in such a manner that upward pressure on the teeth of said saw causes a clamping of said saw blade to said pins in a direction longitudinal to the length of the saw, clamping plates carried by said handle, each of said plates having spaced pins in axial alignment with each other and means for drawing said plates toward each other whereby when said last mentioned pins are moved toward each other their abutting ends will extend into said saw blade.

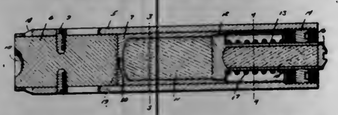
2,321,224
MANUFACTURE OF ELECTRIC TUBES
Harry D. Madden, South Orange, and James W. Greenbowe, Newark, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 12, 1938, Serial No. 234,594
23 Claims. (Cl. 250—27.5)



1. The method of making a base for an electrical device, comprising supporting a plurality of terminal posts with associated leads in one of upper and lower mold elements, bringing the other of said mold elements into cooperative

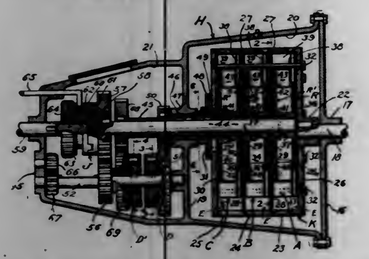
relationship with said first mold element with inner lead portions from said terminal posts extending into apertures in said other mold element, introducing a measured quantity of molten glass into the lower of said mold elements so that intermediate portions of said leads and inner ends of said terminal posts are embedded therein, forcing a plunger into said glass until it engages the adjacent surface of said lower mold element, and separating the mold elements in order to withdraw the formed base.

2,321,225
RIVETING TOOL
Rogers W. McIntire, Honolulu, Territory of Hawaii, assignor of one-half to Darrel C. Hart, Porterville, Calif.
Application June 18, 1941, Serial No. 398,668
3 Claims. (Cl. 78—53.5)



1. A riveting tool comprising a barrel, a plurality of anvils slidably mounted in the barrel, one of said anvils being adapted for engaging the tail of a rivet during the riveting operation the other of said anvils having a plurality of separated compartments therein adapted to contain a filler and spring means urging the other anvil in engagement with said one anvil.

2,321,226
AUTOMATIC VARIABLE SPEED TRANSMISSION MECHANISM
William R. McKay, Southgate, Calif., assignor of one-half to Harry F. Langlois and Herbert N. Langlois
Application July 19, 1941, Serial No. 403,167
2 Claims. (Cl. 74—189.5)

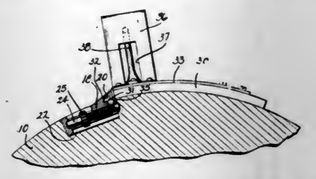


1. In a variable speed transmission mechanism, a driving shaft; a casing of annular sections fixed one to the other; partitions between the sections and secured therefor dividing the casing interiorly into compartments, said casing being fixed to said driving shaft for rotation thereby and each compartment adapted to contain a body of fluid; a plurality of fluid clutches one in each of said compartments and each having a driving rotor fixed to said casing and a driven rotor through the fluid in the compartment; sealing means in said compartments for preventing the escape of fluid from therefrom; a plurality of intermediate shafts one for each of said driven rotors and fixed thereto; a driven shaft; and means for operatively connecting said driven shaft to any one of said intermediate shafts.

2,321,227
ALLOY
William C. McLott, Grand Rapids, Mich.
No Drawing. Application August 6, 1941, Serial No. 405,627
4 Claims. (Cl. 75—125)

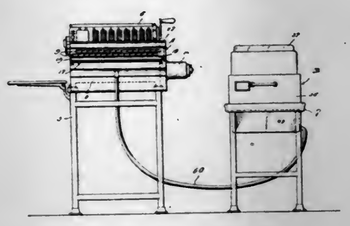
1. A strong, tough and abrasive resistant alloy adapted to be meltably deposited upon a ferrous base consisting of chromium between 25 and 33%, molybdenum between 1.5 and 5%, copper between 1 and 3%, manganese between 0.5 and 2%, titanium between 0.3 and 1.5% with carbon between 3 to 3.25% and silicon between 0.7 to 1.3%, the balance being of iron with negligible quantities of the usual impurities.

2,321,228
GAUGE AND METHOD FOR SETTING THE PLATE MOUNTING MECHANISMS OF PRINTING PRESS CYLINDERS
Joseph E. McMullen, Milwaukee, Wis., assignor to The Journal Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 4, 1942, Serial No. 433,345
17 Claims. (Cl. 33—184.5)



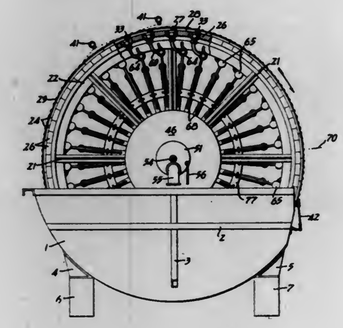
1. A method of determining datum positions for the plate clamping abutments of press cylinders, which method consists in correspondingly positioning on the respective cylinders the corresponding clamping abutments of a plurality of press cylinders under pressure in each instance in the absence of the respective plates, and thereafter forcing the respective plates under pressure against the abutments in substantially the same direction as the direction in which pressure was exerted in positioning the abutments.

2,321,229
AUTOMATIC LEDGER SHEET SELECTOR
Jay W. Miller, La Junta, Colo.
Application September 10, 1942, Serial No. 457,895
4 Claims. (Cl. 129—16.1)



1. In a sheet selecting device, a support, a rack on said support and having sheets therein, pivotal fingers carried by the rack and engaging the sheets for the turning of the latter, a series of electro-magnets mounted for pivotal movement on the support, spring influenced slidable pins carried by the magnets and normally held retracted by the magnets when energized to be out of the path of said fingers and adapted to move into extended position on the deenergization of the magnets, an electric circuit having said magnets electrically connected therein for the energization of the magnets, manually operated means connected in said circuit for selectively deenergizing the magnets to selectively free the pins for movement into extended position to selectively engage the fingers, a manually controlled electrically operated means connected in the circuit for imparting pivotal movement to said magnets and pins whereby the pin in extended position will engage and pivot a finger for selecting a sheet from the sheets within the rack.

2,321,230
ROTARY VACUUM FILTER
Arnold Mills and Herbert A. Rodgers, Lonely Mine, Southern Rhodesia
Application July 8, 1940, Serial No. 344,400
In the Union of South Africa July 7, 1939
5 Claims. (Cl. 210—202)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



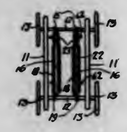
1. In a continuous rotary drum filter wherein the filter drum is provided with a filtrate compartment arranged to rotate through a body of material to be filtered and with an automatic valve for subjecting said filtrate compartment to a differential filtering pressure and to a reverse blow back pressure, means for establishing communication between said compartment and said valve comprising: a conduit communicating with the leading edge of said compartment and extending inwardly over a portion of its length toward the axis of said drum and then forwardly over a further portion of its length to a point in angular advance of the leading edge of said compartment.

2,321,231
CLEANING TOOL
Alice Missmer, Bethlehem, Pa., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application May 15, 1941, Serial No. 393,529
3 Claims. (Cl. 15—158)

1. A vacuum cleaner dusting tool including a hollow rigid member adapted to be connected to a suction conduit, a semi-rigid airtight tubular member capable of being bent to a certain shape and of a structure to retain such shape having one end permanently secured to said rigid member, a second hollow rigid member permanently secured to the opposite end of said semi-rigid member, and a suction nozzle carried by said second member.



2,321,232
HANDY PARCEL CARRIER FOR BABY CARRIAGES AND THE LIKE
Emanuel R. Morando, New York, N. Y.
Application February 24, 1942, Serial No. 432,109
3 Claims. (Cl. 224—29)

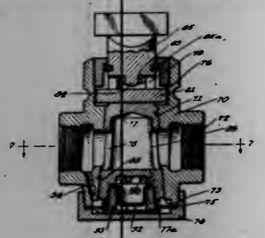


1. In a parcel carrier of the character described, including a pair of telescopic frame members of channel-like construction, one slidable within the other, the inner channel members having hook portions on their outer free ends, and the other channel members having also hook portions at their free ends, the free edges of the sides of said channel extending upwardly, a box receptacle having telescopic portions with side walls, end walls and bottom portions, track members of I shape construction suitably spaced apart and secured to the bottom and adjacent the side walls of the outer telescopic portion of said box receptacle, said hook portions of said channel members adapted to be suspended from the front and rear axles of a baby carriage, said track members insertable and slidable into said channel members, and means to lock said box portions to said suspended channel members.

2,321,233
VALVE STRUCTURE
Frank H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Original application July 29, 1940, Serial No. 348,249, now Patent No. 2,289,721, dated July 14, 1942. Divided and this application March 15, 1941, Serial No. 383,626
6 Claims. (Cl. 251—93)

1. A valve structure including a casing element provided with a flow passageway adapted to communicate with a flow line and having a transversely arranged tapered seat, a tapered plug rotatable in the seat and provided with a flow port,

a recess in the larger end of the plug to form a lubricant chamber, lubricating passages in the seating surface of the valve structure adapted to communicate with the lubricant chamber, an impulse member in the recess to define the outer wall of the lubricant chamber, a second chamber in the casing element enclosing said larger end of the plug, said impulse member facing into



said second chamber, and a passage in the casing element to place said second chamber in communication with the flow passageway so that flow passageway pressure may act upon the larger end of the valve to force it to seated position and will act upon the impulse member to thereby exert pressure on the lubricant in the lubricant chamber.

2,321,234

ORGANIC SOLUTION OF FORMALDEHYDE-UREA REACTION PRODUCTS

John A. Murray and Andrew W. Kassay, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, a corporation of Ohio

No Drawing. Continuation of application Serial No. 207,546, May 12, 1938. This application May 14, 1942, Serial No. 443,012. In Canada May 12, 1939

3 Claims. (Cl. 260—29)

1. A process of making a substantially anhydrous organic solution of a formaldehyde-urea reaction product that includes preparing a solution by heating together ingredients comprising one part of dimethylol urea, an acidifying agent and not less than about three parts of n-butanol, and evaporating n-butanol from the resulting solution until less than about one part remains, an amount of water not less than the amount of any free water that was present in the ingredients from which the solution was prepared having been removed from the solution before the stage of evaporation is reached in which the amount of the n-butanol used that has not been evaporated is less than about three parts, and the temperature and acidity during the process being such that the reaction is carried to the desired stage.

2,321,235

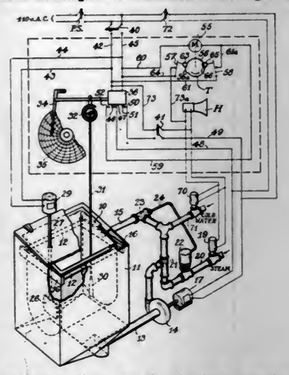
PASTEURIZING SYSTEM

Raymond E. Olson, Pittsford, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application March 7, 1941, Serial No. 382,137

4 Claims. (Cl. 236—18)

1. In a pasteurizing arrangement, a vat for holding a liquid to be pasteurized, means including a pump for recirculating a heating medium in heat exchange relation to said liquid for heating the same, an electric motor for operating said recirculating pump, a thermosensitive switching device responsive to a predetermined temperature of said liquid, a circuit for said motor completed through said switching device only when said liquid is below said predetermined temperature, a timing device including a second motor for measuring a predetermined time interval, an initial circuit for said timing motor completed by said switching device when said liquid reaches said predetermined temperature, a



substitute circuit for said timing motor completed by said timing device when said initial circuit is completed, signalling means indicating the completion of said time interval, and a circuit for said signalling means completed by said timing device at the conclusion of the time interval.

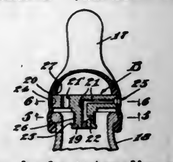
2,321,236

NURSING BOTTLE VALVE

Victor Parkin, Los Angeles, Calif.

Application November 19, 1940, Serial No. 366,202

1 Claim. (Cl. 251—119)



In a valve, a body laterally enlarged at one end to form a head having a passage extending inwardly from the periphery thereof then through the smaller portion of the body, said passage opening on one side of the smaller body portion and a flat rubber band valve surrounding the said smaller body portion and normally closing the end of the passage which opens on the side of said smaller body portion and adapted to yield to differential pressures on opposite sides thereof to permit air to flow past either edge thereof, said head having an opening therethrough at one side of the smaller body portion and being provided with a circumferential groove in the periphery thereof into which groove said passage opens.

2,321,237

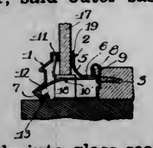
SASH CONSTRUCTION FOR STORE FRONTS

Victor Eleaph Peterson, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan

Application March 7, 1941, Serial No. 382,218

2 Claims. (Cl. 20—56.4)

1. A self-locking sash construction for supporting a pane of glass in a store front, window and the like which eliminates the use of screws, clamps, levers or other mechanism for locking the sash members in assembled relation, comprising an inner sash member secured to the window frame and against which the interior of the glass seats, an outer sash member loose with respect to the window frame, lugs anchored to and spaced along the extent of the outer sash member and provided with a rearwardly extending resilient projection having an upstanding rib, and a gutter provided in the inner sash member having its undersurface curved and merging into a shoulder, said outer sash member when



pressed inwardly into glass seating engagement, forces the upstanding rib over the curved undersurface of the inner sash member and snaps over and into interlocking engagement with the shoulder in which the outer sash member is locked against removal from the exterior of the glass, and means in the inner sash member affording access to said resilient projection for depressing the latter and disengaging the upstanding rib from the shoulder to thereby release said lugs and outer sash member and permit their removal.

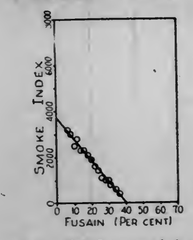
2,321,238

SMOKELESS BRIQUETTE

Robert James Piersol, Champaign, Ill.

Application August 30, 1941, Serial No. 408,957

3 Claims. (Cl. 44—10)



1. A briquette which consists of from 60 to 85 per cent high volatile bituminous coal and of from 15 to 40 per cent fusain, and with a range of smoke content between 2300 and zero smoke index units.

2,321,239

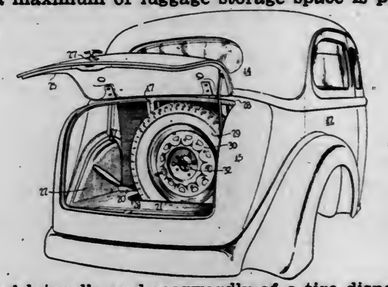
SPARE TIRE AND LUGGAGE COMPARTMENT FOR VEHICLE BODIES

Clarke P. Pond, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Continuation of application Serial No. 310,732, December 23, 1939, which was a continuation of application Serial No. 57,496, January 4, 1936. This application August 1, 1941, Serial No. 405,108

4 Claims. (Cl. 296—37)

1. A closed pleasure car body of conventional lines having a built-in storage compartment in rear of the rear seat back, said storage compartment being closed at the front by the rear seat back, at the bottom by the floor panel relatively flat in its main portion and raised a substantial distance above the lower margins of the side walls of the body, at the sides by portions of the body side walls and at the rear by a portion of the body rear wall, said floor panel being provided at the front of said compartment with a transversely extending well the bottom of which is depressed below the level of the main portion of the floor panel and arranged to receive a spare tire in said compartment disposed in upright position flanking the rear seat back, whereby a maximum of luggage storage space is pro-



vided laterally and rearwardly of a tire disposed in said well, said storage space being achieved without reducing the normal passenger space within the body and without extending the body walls rearwardly beyond conventional lines.

2,321,240

METHOD OF DISPERSING THERMOPLASTIC HYDROCARBONS

Rotheus B. Porter, Jr., Malden, Mass., assignor to Bennett Incorporated, Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application January 8, 1940, Serial No. 312,821

5 Claims. (Cl. 252—311.5)

1. An aqueous dispersion of paraffin wax in a continuous aqueous medium containing candelilla wax soap as the dispersion-stabilizer, the solids content of said dispersion ranging from about 40% to 50% and the weight of the candelilla wax component of said soap amounting to no more than 25% of the weight of both the paraffin wax and the candelilla wax, said dispersion being of free-flowing quality of room temperature.

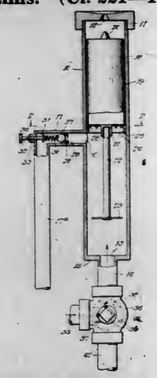
2,321,241

LIQUID APPORTIONING DEVICE

Claude E. Quick, Glendale, Calif., assignor to Interstate Bakeries Corporation, Kansas City, Mo., a corporation of Delaware

Application May 20, 1940, Serial No. 336,065

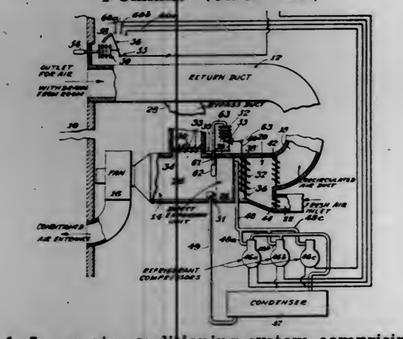
3 Claims. (Cl. 221—116)



1. In a liquid apportioning device of the class described, the combination of a casing having common inlet and outlet means, an air vent at the upper part of said casing, a float in the casing

adapted to close said vent under the influence of the liquid flow in the casing, a by-pass for air around said float, an outlet duct opening from said casing, a pressure responsive valve in said duct whereby the duct provides an overflow for liquid from the casing at a predetermined pressure of fluid within the casing, and operator controllable means for selectively placing the inlet and outlet means alternately in position either for entrance of liquid under pressure to the casing or for discharge of liquid by gravity therefrom.

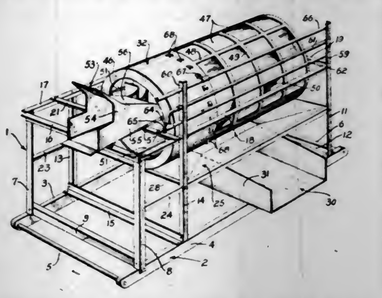
2,321,242
METHOD AND APPARATUS FOR CONDITIONING AIR
Melvin Atkinson Ramsey, Buenos Aires, Argentina
Application November 14, 1939, Serial No. 304,317
In Argentina July 6, 1939
4 Claims. (Cl. 62—129)



1. In an air conditioning system comprising a room to be conditioned, a return duct for recirculated air having a spent air inlet end and a spent air discharge end, a mixing zone, a refrigerating and dehumidifying zone communicating with said mixing zone, a fan communicating on its suction side with said mixing zone and on its exhaust side with said room, said return duct communicating with its spent air inlet end with said room and with its discharge end with said refrigerating and dehumidifying zone on the sde thereof remote from said mixing zone to direct recirculated air through said refrigerating and dehumidifying zone, direct expansion refrigeration means in said refrigeration and dehumidifying zone adapted to treat recirculated air and comprising compressors and motors to drive said duct with and defining said mixing zone and adapted to by-pass untreated recirculated air, a by-pass baffle on said by-pass a main baffle between said spent air discharge end and said refrigerating means, means including means responsive to a function of the surface temperature of said refrigerating means operatively associ- compressors, a by-pass connecting said return ated with said by-pass baffle and said main baffle to vary the relative positions thereof in response to variations in said function and means including means responsive to room conditions operatively associated with said motors to vary the capacity of said refrigerating means in response to room conditions.

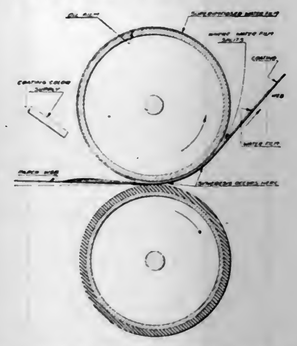
2,321,243
SHALE SHAKER
John M. Range, Beeville, Tex.
Application February 19, 1940, Serial No. 319,773
1 Claim. (Cl. 209—284)

A shale shaker including a frame having a base, standards rising from the base, side bars connected with the standards, front, intermediate and rear bars connected with the standards at their corresponding upper ends, supporting bars carried by the frame between the side bars and the base, a mud pan carried by the supporting bars and extending laterally throughout the area of the central portion of the frame, said mud pan having a flared portion terminating in



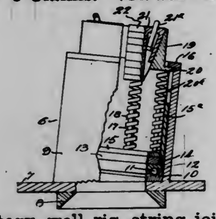
a reduced U-shaped laterally extending discharge chute, said discharge chute projecting from one side of the frame, and a cylindrical screen rotatably mounted on the frame for screening desired material from shale, said desired material passing into the mud pan and discharging from the chute, said cylindrical screen being rotatably mounted between the intermediate and rear bars and being entirely surrounded by the frame.

2,321,244
COATING OF PAPER
Francis G. Rawling, Piedmont, W. Va., assignor to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware
Application March 13, 1940, Serial No. 323,680
2 Claims. (Cl. 117—65)



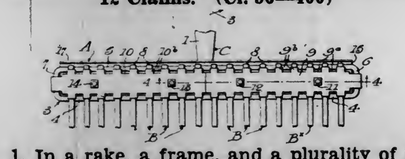
1. In the art of coating paper and the like with a coating composition comprising an aqueous suspension of mineral pigments and an adhesive by the use of an applicator roll to which said aqueous suspension is continuously fed and by which said composition is spread out into a film upon the paper undergoing coating by the aid of a cooperating roll between which and said applicator roll the paper is squeezed, the method of preventing splitting of the applied coating film and adherence thereof to the applicator roll after said coating has been applied to the paper, which consists in incorporating into said coating composition an oleaginous emulsion having an oil and water phase and containing a hydrocarbon oil, a fatty acid, a soap, and starch, which emulsion is breakable by the physical rubbing incident to the coating operation above described, whereby in said operation a portion of the oil phase adheres to said applicator roll as an oil film thereby causing an adherence to said applicator roll of a water film derived from the surface of the coating material applied to the paper, whereby the coating material is caused to adhere to the paper and not to the applicator roll.

2,321,245
RAT-HOLE SWIVEL WRENCH
John E. Reed, Bakersfield, Calif.
Application April 14, 1941, Serial No. 388,554
5 Claims. (Cl. 255—35)



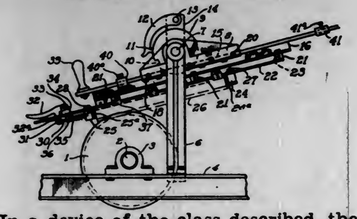
1. A unitary, well-rig, string joint making and breaking apparatus including a prime motored frame or mount, a swivelled slip basket yieldably supported on said mount, and a drive connection between the motor and the basket for rotating the basket.

2,321,246
RAKE
Elsas L. Rocquin, New Orleans, La.
Application August 28, 1942, Serial No. 456,544
12 Claims. (Cl. 56—400)



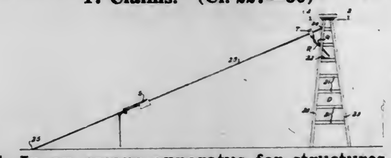
1. In a rake, a frame, and a plurality of tines mounted on the frame for individual removal therefrom, said frame including a base member, a clamping member, a hinge connection between said clamping member and said base member the axis of said hinge connection being parallel to the plane of said base member whereby said clamping member can be moved to one position for clamping said tines to said base member and to another position for releasing said tines, and means for releasably holding said clamping member in said one position.

2,321,247
LENS GRINDING MACHINE
Alexander H. Roehr, near Dayton, Ohio, assignor to David E. Jordan, Dayton, Ohio
Application March 8, 1940, Serial No. 323,023
14 Claims. (Cl. 51—92)



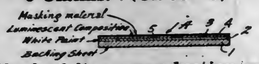
2. In a device of the class described, the combination with a grinding wheel of a lens carrier freely swingable about a fixed axis above said wheel and comprising a part reciprocable relative to said axis and transversely of said wheel, whereby to enable movement of said carrier toward and away from, as well as transversely of, said grinding wheel, and clamping means for holding a lens on said reciprocable part.

2,321,248
SAFETY APPARATUS
Walter E. Rose and Clarence W. Rose, Denver, Colo.
Application February 13, 1941, Serial No. 378,710
17 Claims. (Cl. 227—36)



1. In an escape apparatus for structures, the combination comprising a cable inclined downwardly from the structure, a trolley on and adapted normally to move down the cable, a rope depending from the trolley and adapted for attachment to a person on the structure and to suspend such person from the trolley when not supported by the structure, rope-guiding means on the structure and means responsive to a downward pull on the rope to release the rope from the guiding means.

2,321,249
METHOD OF LINE REPRODUCTION
Benjamin Rudnick, Huntington, N. Y., assignor to Republic Aviation Corporation, Farmingdale, N. Y., a corporation of Delaware
Application May 21, 1941, Serial No. 394,403
6 Claims. (Cl. 95—5)

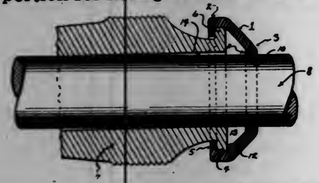


5. A method of line reproduction which comprises providing a supporting sheet with a coating of luminescent material having an overlay of opaque masking material, removing said masking material to uncover the luminescent material throughout predetermined areas in the form of the design to be reproduced, arranging said supporting sheet in superposed relation with respect to a body having a surface film of a light-sensitive material to expose said film to the rays emitted by the uncovered luminescent material, and photographically developing the body to remove the unexposed portions of the film.

2,321,250
SEALING DEVICE
Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation
Application January 4, 1941, Serial No. 373,063
2 Claims. (Cl. 286—5)

1. In combination, an apertured casing having an external radial flange at one end thereof about said aperture, a shaft passing through said aperture, a shaft seal including a body of soft elastic grease resistant material, having an annular portion engaging the outer periphery of said flange, said annular portion having an inner relaxed diameter smaller than the outer diameter of said flange, said shaft seal having a portion adapted to surround said shaft and having a nominally cylindrical bore sufficiently smaller than said shaft so that it will be held in contact with said shaft by its elastic qualities, a frusto-conical section connecting said flange engaging portion and said

shaft surrounding portion, said frusto-conical section being of substantially uniform thickness between said annular portion and said shaft engaging portion whereby stretching of said flange engaging portion for fitting on said flange will cause



distortion of said shaft surrounding portion, such as to cause said nominally cylindrical bore to engage said shaft with increasing pressure toward the outer margin of said bore, and an inwardly extending annular flange formed on said annular portion and engaging the back face of said casing flange.

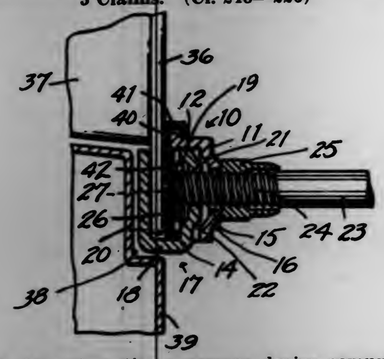
2,321,251

AUTOMOTIVE ACCESSORY

Henry J. Sauer, Fairfield, Conn., assignor to The Kilborn-Sauer Company, Fairfield, Conn., a corporation of Connecticut

Application October 14, 1939, Serial No. 299,397

5 Claims. (Cl. 248—226)



1. An automotive accessory device comprising a housing forming a stationary jaw adapted to seat against the outer surface of an automobile door, a clamping yoke having an operating portion mounted within the housing, said yoke being adapted to straddle the door flange, and including a movable jaw engaging the inner surface of the door flange, an opening extending through the housing coaxial with another opening provided through the operating portion of the yoke, an arm supporting a fixture and having its inner end disposed through the two coaxial openings, means on the inner end of the arm to secure it within the housing; and screw means carried by the device, in cooperative relation with the housing and with the operating portion of the yoke, for drawing the movable jaw toward said housing to anchor the device on the door.

2,321,252

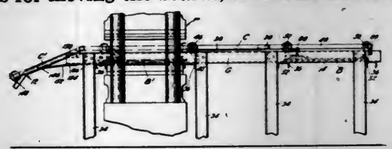
MECHANISM FOR LOADING AND EMPTYING MOLDING PRESSES

Gordon B. Sayre, Brooklyn, N. Y., assignor to Boonton Molding Company, Boonton, N. J., a corporation of New Jersey

Application November 12, 1938, Serial No. 239,934

20 Claims. (Cl. 18—30)

13. The combination with a molding press having a multiple cavity mold for molding articles from plastic material delivered to the press as preformed pills, the upper part of said mold being provided with appropriate stripper means, of mechanism to facilitate loading and emptying of the mold, said mechanism including rails extending through the press, a catchboard and a pillboard arranged for movement along the rails, said catchboard being adapted when moved into the press to receive the molded articles stripped from the upper part of the mold, said pillboard having releasable means to hold an array of pills in proper relation for registration with the cavities of the mold, sprocket chains extending along the rails for moving the boards, said rails and chains



being long enough to permit complete withdrawal of both the catchboard and the pillboard from the press, guide sprocket wheels for supporting the chains, driving sprocket wheels for moving the chains, means for rotating the driving sprocket wheels in such a manner as to move the catchboard and pillboard from a first position wholly at one side of the press, to a second position with the catchboard in the press, and then to a third position with the catchboard beyond the press and the pillboard in the press, stops for arresting the movement at the said second and third positions, and means for causing automatic dumping of the molded pieces from the catchboard and for causing release of the pills from the pillboard in the third position.

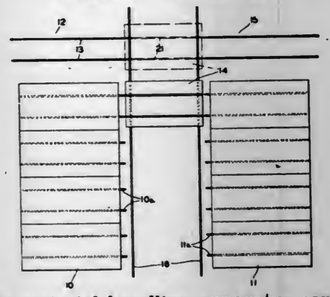
2,321,253

TRANSFER CAR

Eugene W. Schellentrager, Shaker Heights, Ohio, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio, a corporation of Ohio

Application January 16, 1941, Serial No. 374,641

5 Claims. (Cl. 104—50)



1. In material handling apparatus comprising two parallel lines of ovens with a transfer track between and parallel to said lines together with a transfer car movable on said track, there being rails on said car and in said ovens adapted for movement of an oven car between the transfer car and an oven alined therewith, the combination of a hollow structural beam having inwardly and outwardly extending flanges, roller members on said transfer car engaging one of said flanges and supporting said beam for reciprocation at right angles to said lines of ovens, a dolly carriage having wheels travelling on the other of said flanges, a rotatable member mounted near each end of said beam, two flexible connecting members, said connecting members being fastened to opposite ends of said dolly carriage and each extending thence over one of said rotatable members and having its other end fixed to said transfer car, a rack extending longitudinally of said beam, a pinion located centrally of said transfer car and engaging said rack, and means for driving said pinion.

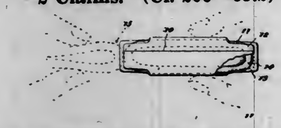
2,321,254

OPEN MOUTH WRAPPER FOR ROLLED TUBULAR SANITARY RUBBER GOODS

Carl J. Schmid, New York, N. Y., assignor to Julius Schmid, Inc., New York, N. Y., a corporation of New York

Application April 20, 1939, Serial No. 269,026

2 Claims. (Cl. 206—63.2)



1. As an article of manufacture, a wrapper for rolled sanitary tubular-like articles comprising a substantially tubular-like wrapper of flexible material having an open end and being sealed longitudinally to provide substantially parallel sides, the sides adjacent the open end being cut slightly inwardly to provide spaced aligned end-lips with openings upon either side of the lips, the edges of the openings conforming substantially to the transverse contour of the article to be placed therein whereby the fingers of the operator gripping the article being inserted may feed the article longitudinally of the wrapper, one of said lips having a projecting flexible outer end extending beyond the other lip to permit said flexible outer end to flex and enlarge the entrance at the open end of the wrapper while initially placing the article between the lips prior to inserting the article into the wrapper.

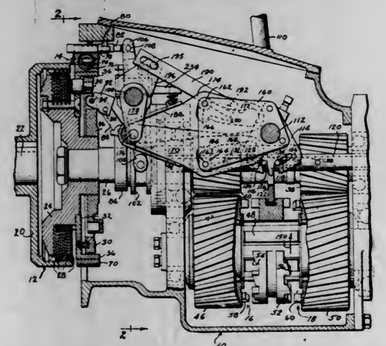
2,321,255

MARINE TRANSMISSION

Arthur B. Schultz, Berkeley, and Theodore R. Bush, Royal Oak, Mich., assignors to Kermath Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application December 19, 1941, Serial No. 423,660

5 Claims. (Cl. 192—3.5)



1. In a marine power transmission system, driving means and driving and driven shafts, a main clutch engageable and disengageable for controlling the drive between said means and said driving shaft, gearing including a toothed clutch and operable for establishing a driving connection between said driving and driven shafts, said clutches comprising shiftable clutch members having released and engaged positions and mechanism for controlling said clutches comprising a shift lever, connections between said shift lever and said clutch members for shifting the latter upon movement of the former and so as to move said clutch member of said toothed clutch to engage the teeth thereof before said clutch member of said main clutch is moved sufficiently to engage the same, said connection between said shift lever and said toothed clutch including a lost motion connection which will permit continued movement of said shift lever and the engagement of said main clutch if the teeth of said toothed clutch are misaligned upon shifting of said shift lever to set up a drive between said driving means and said driven shaft, said lost motion connection comprising a shift rail having a stop thereon, a pin carried by said rail, a spring operatively arranged between said pin and said stop, a lever adapted to be actuated by said shift lever and having a slot therein into which said pin extends, one wall of said slot functioning, upon movement of said shift lever to set up a drive, to move said pin for the purpose of shifting said rail in one direction through force transmitted through said spring, and another wall of said slot functioning, upon movement of said shift lever to break the drive, to positively move said pin and shift rail in the opposite direction, and a fork carried by said rail and connected with said clutch member of said toothed clutch for shifting the same into and out of engaged position.

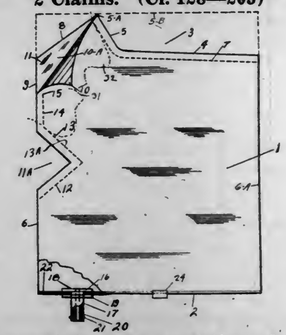
2,321,256

REBREATHING BAG

Florence L. Shelton, Portland, Oreg.

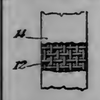
Application May 25, 1942, Serial No. 444,322

2 Claims. (Cl. 128—205)



2. A rebreathing bag consisting of a substantially rectangular paper bag, having two opposite sides creased to permit same to collapse outwardly and having gas inlet openings and breathing openings at opposite ends of the bag adjacent to one of said creased sides, the creased side nearest said openings having a notch formed therein, the edges of which are closed by means of seams, the seam nearest the breathing opening contacting the under side of the user's chin, the breathing end of said bag having a closing seam across the major portion of its width, one end of which curves outwardly to the line of user's nose, substantially in parallelism with the chin engaging seam, the corner of the bag between the nose and chain engaging seams consisting of two open flaps which engage the wearer's cheeks.

2,321,257
GASKET
Harold W. Spicer, Dunellen, N. J., assignor of one-half to A. A. Whitford, Dunellen, N. J.
Application April 8, 1940, Serial No. 328,443
4 Claims. (Cl. 106—253)



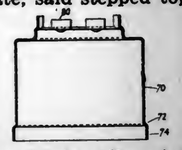
1. A gasket material comprising substantially equal parts of finely ground asbestos and ground soapstone, said soapstone being a shrinkage balancing material which counteracts the normal shrinkage of asbestos from wet to dry condition whereby said material will have a substantially constant mass wet or dry, and a binder to render said mixture plastic.

2,321,258
PROCESS FOR MAKING AN IMPROVED PLYWOOD
Alfred J. Stamm and Raymond M. Seborg, Madison, Wis., assignors to Henry A. Wallace as Secretary of Agriculture of the United States of America
No Drawing. Application August 26, 1940, Serial No. 354,250
5 Claims. (Cl. 144—309)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. A method for making a plywood with highly compressed resin-treated surface plies, in which the resin becomes homogeneously distributed and chemically bonded with the wood substance throughout the cell-wall structure, and a virtually uncompressed core in a single assembly and compression operation; which comprises immersing undried veneer direct from the cutter knives in an aqueous resin-forming solution of a phenol-formaldehyde-catalyst mix, that is substantially unpolymerized and completely soluble in water in all proportions, until 30 to 40 percent of the weight of the dry wood of resin-forming constituents have been taken up within the wood structure; thence slowly drying the veneer at a temperature not exceeding 120° F. and a relative humidity of at least 75 percent, followed by drying at a reduced relative humidity to substantially 6 percent moisture content; thence simultaneously assembling the treated face veneer with a dry untreated core and compressing the treated face veneer in a single operation in a hot press, without the use of additional bonding material between the face plies and the core at normal resin-bonding plywood assembly temperatures of from 300° F. to 350° F. and a pressure of from 300 to 400 pounds per square inch for 10 to 20 minutes; followed by cooling the press below the boiling point of water prior to releasing the pressure.

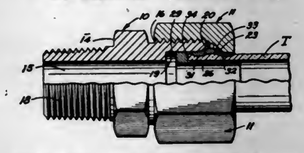
2,321,259
ONE-PIECE SHIELD FOR ELECTRON EMISSION TUBES
Edward F. Staver, Jackson Heights, N. Y., assignor to Goat Metal Stampings, Inc., a corporation of New York
Application August 4, 1939, Serial No. 288,335
2 Claims. (Cl. 250—27.5)

1. A shield for the electrodes of an electron emission tube, said shield comprising a single piece of sheet metal forming a top wall and a cylindrical side wall, said top wall being upwardly annularly stepped and provided with conventional slots and bent tabs of metal for support wires and spacers, said side wall being smooth, continuous and imperforate, said stepped top wall and side



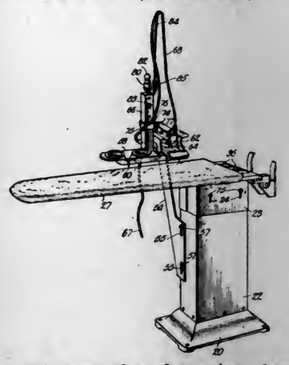
wall being formed integrally out of a single piece of sheet metal and being joined by a smooth seamless joint, the step in said top wall also being formed with smooth seamless joints.

2,321,260
TUBE COUPLING
Henry D. Stecher, Lakewood, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application May 23, 1942, Serial No. 444,167
10 Claims. (Cl. 285—86)



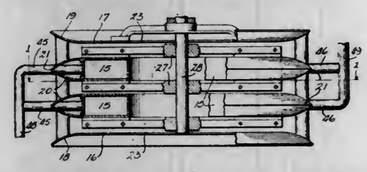
1. A coupling for plastic tubing comprising a sleeve having a thickened portion providing an exterior annular projection, a nipple having a substantially cylindrical exterior surface disposed within said sleeve and joined thereto adjacent one end thereof, said sleeve and nipple together forming an annular chamber adapted to receive the end of a tube, a body having a recess adapted to receive the assembly of tube end, sleeve, and nipple, and means for securing said assembly within said recess, said body and said securing means having opposed annular cam surfaces adapted to engage the annular projection on said sleeve and deform the same inwardly thereby to clamp the material of the tube between said sleeve and nipple.

2,321,261
ACCESSORIES FOR IRONING APPARATUS
James W. Steele, North Kansas City, Mo.
Application December 22, 1941, Serial No. 423,923
1 Claim. (Cl. 38—107)



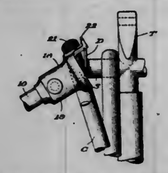
In apparatus of the character described, an ironing board, an iron support located separate from the ironing board, an electric iron having a cord for conducting an electric heating current to the iron, electric swich operating means associated with said support and tending normally to close said heating current through the iron, said switch operating means comprising an arm mounted on a vertical axis for horizontal swinging movement above the support and across the path of movement of the iron horizontally onto said support and actuated by the iron in its horizontal movement for shutting said heating current off from the iron as long as the latter is carried on said support, said iron support having sloping supporting means carrying said iron in tilted position for pushing against said arm while the iron is in supported position to maintain constancy of the current controlling action.

2,321,262
SPACE HEAT TRANSFER APPARATUS
William H. Taylor, Waukesha, Wis.
Application November 1, 1939, Serial No. 302,315
20 Claims. (Cl. 62—140)



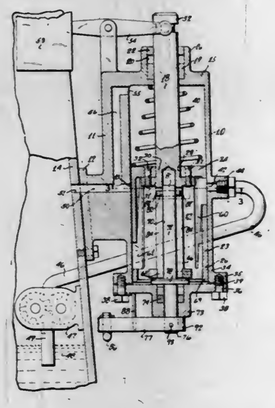
1. Heat transfer apparatus, comprising the combination of a driving shaft, a set of chambers extending about the shaft and provided with inlet and outlet ducts, annular walls at the ends of said set of chambers and spaced therefrom axially of the shaft, said walls and at least one of said chambers having open central ports of substantial area and defining radially outwardly opening passages adapted to permit radial flow of fluid outwardly from the vicinity of the driving shaft, fanning and wall wiping means in each passage connected with the driving shaft and extending nearly the full axial distance between said chambers and walls and adapted, when the shaft is rotated, to drive fluid radially through said passages, said passage walls being flat, smooth surfaced and in sufficient proximity to allow the fanning and wiping means to maintain outwardly moving thin sheets of fluid at predetermined velocities and with minimum turbulence, and means for actuating said shaft to impel said fanning and wall wiping means at a rate sufficient to maintain centrifugal delivery of fluid with substantial velocity through said passages.

2,321,263
SHOCK CORD HANDLING TOOL
Frank A. Treadwell, Siloam Springs, Ark.
Application December 11, 1941, Serial No. 422,586
3 Claims. (Cl. 29—84)



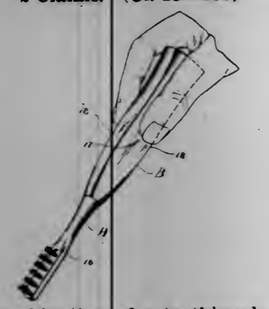
1. A tool of the character described comprising a body bar, a tubular head member fitted on one end of the said bar, a socket forming boss on the outer end of the said tubular head, the said boss having an eccentric groove in an arcuate portion thereof, a lever forming projection extending longitudinally from the said boss, and an outwardly projecting transverse lip formed on the outer end of the said projection.

2,321,264
FLUID-PRESSURE OPERATED MECHANISM
Harold H. Turner, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application October 11, 1940, Serial No. 360,761
3 Claims. (Cl. 121—42)



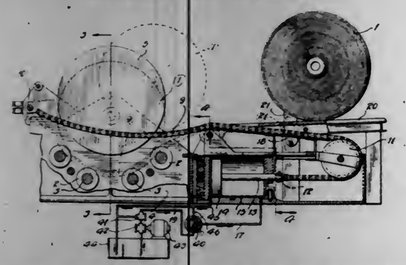
1. A fluid pressure operated device of the character described, comprising a cylinder having single inlet and discharge ports for fluid under pressure, located in diametrically opposed relation intermediate the cylinder ends, a force-transmitting piston in said cylinder and displaceable in one direction by fluid pressure, resilient means acting on said piston in opposition to the fluid pressure on the piston, said piston being rotatable in the cylinder and formed to provide a hollow piston skirt having single inlet and discharge ports in opposite wall portions and extending longitudinally of the skirt, said piston skirt ports being of generally triangular form and relatively inverted to provide cylinder port controlling edges oppositely inclined relative to the longitudinal axis of the piston skirt, said skirt ports cooperating with the cylinder ports such that only one thereof may be registered with the corresponding cylinder port upon rotation of the piston and skirt in one direction, and further, such that upon displacement of the piston and skirt, both skirt ports will be positioned out of communication with the cylinder ports, whereby the admission and discharge of fluid under pressure relative to the cylinder and hollow piston skirt, may be controlled so as to determine the displacement position of the piston in the cylinder, a shaft extending axially of the cylinder and through one end thereof, said shaft being secured to said piston and constituting the force-transmitting agency of the piston to the exterior of the cylinder, the inner end portion of said shaft being axially recessed, a rotatable element extending into said cylinder and received in said shaft recess, and a connection between said shaft and rotatable element for effecting piston rotation in response to rotation of said element.

2,321,265
TOOTHBRUSH
George Ulvick, Minneapolis, Minn., assignor of forty-nine per cent to Howard L. Fischer, St. Paul, Minn.
Application October 7, 1940, Serial No. 360,154
2 Claims. (Cl. 15—136)



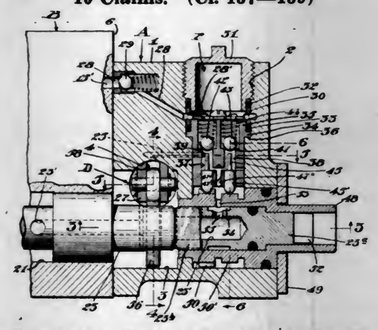
1. The combination of a toothbrush comprising a bristle portion having a series of bristles projecting therefrom, a hollow shank formed on said bristle portion and providing an outlet duct into said bristles, a shoulder adjacent the inner end of said shank, a plastic vial-like handle portion for holding dentifrice and having a reinforced inner end for engaging said shank against said shoulder, wide longitudinally extending substantially flat thin side walls formed in said handle, narrow rigid longitudinally extending edge walls connecting with said side walls forming the body of said handle, and a transversely extending rear end wall integrally connected with said side and edge walls and adapted to form a bottom end for said handle to rest on to permit the dentifrice in said hollow shank to drain back into said handle.

2,321,266
MATERIAL HANDLING DEVICE
Ladd J. Valusek, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application August 3, 1940, Serial No. 350,710. Divided and this application March 21, 1942, Serial No. 435,734
3 Claims. (Cl. 214—130)



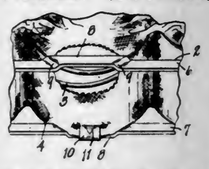
1. The combination with a cradle for supporting a roll of strip metal, of an elevator in the form of two pairs of levers arranged to raise and lower in said cradle and to receive said roll while raised, the said pairs of levers being positioned side by side in spaced relation, the levers of each pair being aligned and having their adjacent ends pivotally connected together for raising and lowering movement, a fixed pivotal support for the outer ends of each of the levers, and power means connected to the said levers for raising and lowering simultaneously the two pairs of levers in the cradle, the said levers when raised being arranged to receive the said roll preparatory to lowering the same into the cradle.

2,321,267
HYDRAULIC ACTUATOR FOR HYDRAULIC CONTROL VALVES
Jacob B. Van Der Werff, Pasadena, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application July 6, 1942, Serial No. 449,898
10 Claims. (Cl. 137—139)



1. In a hydraulic actuator for a hydraulic control valve having fluid intake and return passages, valves for controlling the flow of operating fluid to and from a fluid responsive motor, and valve operating means including a rotary shaft; the improvement which includes a body member having a fluid intake port and a fluid return port and adapted for attachment to said control valve to establish communication between said ports in said body member and said passages in said control valve, a cylinder associated with said body member, a reciprocable piston in said cylinder, a drive means operated by said piston for turning the shaft of said control valve, and manually operable valve means in said body member for controlling the flow of operating fluid to and from said cylinder for operating said drive means.

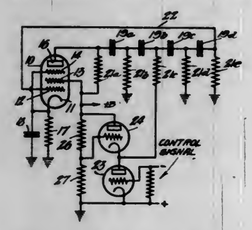
2,321,268
SPRING STRUCTURE
Leonard A. Young, Detroit, Mich.
Application March 14, 1941, Serial No. 383,316
4 Claims. (Cl. 5—260)



1. In a spring assembly of the type described, an annular border frame and plurality of coil springs associated therewith and supported thereby, said border frame being of generally flat section disposed with the wider surfaces thereof in the plane of the frame and being offset vertically outwardly of the assembly at spaced areas to provide elongated seats of substantial depth the ends of which flare or diverge inwardly of the frame periphery for lateral sustaining engagement with the exterior side of the end coil of a border spring, the material of said frame

having a substantial area of overlap relative to said coil at said seat, and a clip secured around said frame offset and coil to lockingly secure the parts in displacement resistant relation.

2,321,269
FREQUENCY MODULATION
Maurice Artzt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 21, 1941, Serial No. 419,893
6 Claims. (Cl. 179—171.5)



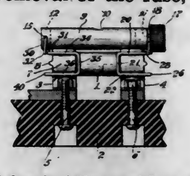
1. An oscillator of the resistor-capacitor type which oscillates at a frequency dependent upon the resistance of an element in a resistor-capacitor circuit, said element comprising a variable resistance circuit which includes a pair of vacuum tubes having their plate-cathode impedances connected in series with each other, each of said tubes having a control grid, said series combination of tubes being connected across a voltage source with the control grid of one of said tubes connected to an intermediate point on said voltage source, means for connecting the plate-cathode impedance of the other of said tubes into said resistor-capacitor circuit to function as at least a portion of said resistance element, and means for varying the plate-cathode impedance of said other tube in accordance with a control signal.

2,321,270
AQUEOUS THICKENING SOLUTIONS
Kenneth D. Bacon and George K. Greminger, Jr., Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 23, 1941, Serial No. 394,797
8 Claims. (Cl. 106—194)

1. An aqueous solution comprising a water soluble cellulose ether selected from the class consisting of the water soluble alkyl celluloses and water soluble hydroxy alkyl celluloses, and, as a thickening agent therefor, a water soluble metal salt of an alkylated phenyl-phenol polysulfonate wherein the alkyl group contains less than 10 carbon atoms.

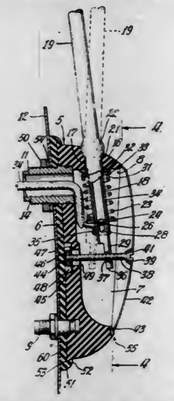
2,321,271
FUSE HOLDER
Alfred F. Bahlke, New Providence, Max Moeller, Millburn, and Ronald W. Sheppard, Montclair, N. J., assignors to Utility Electric Corp., East Newark, N. J., a corporation of New Jersey
Application May 13, 1942, Serial No. 442,794
11 Claims. (Cl. 200—134)

1. In a fuse indicator, a pair of circuit terminals, a fuse frictionally held in connection with the terminals but removable therefrom, an electric lamp, a casing enclosing said lamp and blocking the removal of the fuse from the terminals, a pivotal mounting for said casing on one of said terminals around which the casing may be swung to allow free removal of the fuse, a lock on the



other terminal for holding said casing in the fuse blocking position, and an electrical connection for said lamp to said terminals including said lock and pivotal mounting.

2,321,272
RADIO ANTENNA
Rudolph A. Becwar, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application July 2, 1941, Serial No. 400,718
12 Claims. (Cl. 250—33)

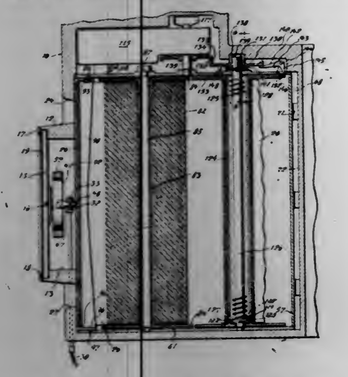


1. An antenna unit for an automobile having a member for mounting on the side of the body of said automobile, said mounting member having a cavity therein with an opening extending through a wall of said cavity, an antenna member having one end inserted into said cavity through said opening, said antenna having an annular projecting portion thereon for seating on said mounting member at said opening, means in said cavity retaining said antenna seated on said mounting member but permitting pivotal movement thereof, and adjustable means in said cavity operatively connected with said one antenna end, with adjustment of said adjustable means pivotally moving said antenna member to a position in conformity with the slope of said body side.

2,321,273
SPEED RECORDING DEVICE
William E. Belcher, Mathias, W. Va.
Application August 12, 1939, Serial No. 289,837
1 Claim. (Cl. 242—55)

In a speed-recording device having a movable tape which is fed from a supply roll to a rewind reel by means of a spring motor, the combination of means for imparting rotation to the rewind reel for removing slack in the tape, said means comprising a shaft upon which the rewind reel

is journalled, a coil spring carried concentrically of the shaft and being connected at one end thereof to said reel and at the other end to the shaft, a longitudinally movable gear keyed to the shaft, the gear being normally unconnected with



said spring motor, means comprising a spring for urging the gear into operative connection with the spring motor to wind the coil spring, and means for preventing rotation of the reel while the spring connected therewith is being wound.

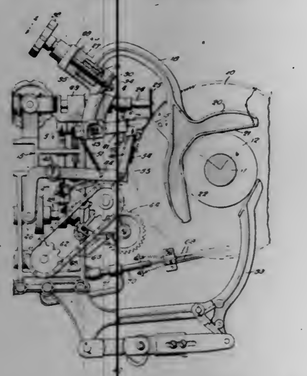
2,321,274

GIN SAW SHARPENING MACHINE

Ernest W. Bernhardt, Atlanta, Ga., assignor to The A. A. Wood & Sons Company, Atlanta, Ga., a corporation of Georgia

Application January 22, 1941, Serial No. 375,498

3 Claims. (Cl. 76—32)



1. In a gin saw gumming machine of that type having a file for shaping the interdental spaces, and a frame adapted to be supported by space blocks between the saws, means for positioning and adjusting the gumming machine with reference to the saws comprising, a yoke having diverging bearing arms to engage said space blocks, said yoke having a threaded opening therethrough, a screwthreaded rod threaded through said opening and rotatably mounted in the frame at such an angle that a projection of its longitudinal axis will bisect the angle between the diverging arms of the yoke and intersect the point of contact between the file and the saw, whereby rotation of the screwthreaded rod will cause the frame to move radially to the saws and the file to move toward or away from the axis of the saws along the projected axis of the screwthreaded rod.

2,321,275

TUBING CLEANER

Claude Earl Blackburn, Borger, Tex., assignor to The J. M. Huber Corporation, Borger, Tex., a corporation of Delaware

Application October 7, 1941, Serial No. 413,947

2 Claims. (Cl. 166—18)



1. In combination with a sucker rod simultaneously reciprocating and rotating in an oil-well tubing, an oil-well tubing cleaner comprising a thin substantially flat blade having a vertically extending scraping edge, and separable fastening means for detachably fastening the blade firmly to a sucker rod intermediate the ends of the rod.

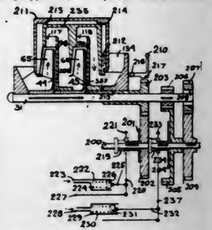
2,321,276

TURBOCOMPRESSOR

Vaughn S. De Bolt, Washington Court House, Ohio

Application September 20, 1939, Serial No. 295,772

5 Claims. (Cl. 230—114)



1. A fluid compressor comprising an outlet for the fluid, an impeller producing potential and kinetic energy in the fluid and forcing the fluid thru the outlet out of the compressor, a rotary diffusor absorbing the kinetic energy from the fluid, an operative connection between the impeller and the diffusor to transmit the absorbed energy from the diffusor to the impeller, means to disengage said connection, and means to stop the rotary diffusor from rotation so as to increase the fluid pressure at the outlet.

2,321,277

METHOD OF MAKING CONCRETE PIPE

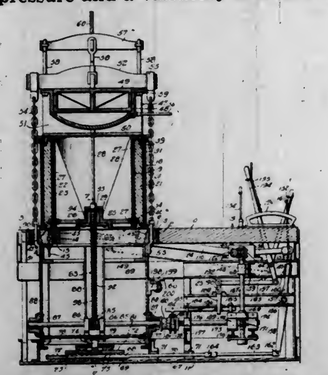
Edward D. Boyle, Valdosta, Ga.

Original application March 30, 1939, Serial No. 265,035. Divided and this application September 14, 1942, Serial No. 458,279

9 Claims. (Cl. 25—154)

1. The method of making concrete pipes and the like in a mold having its axis vertically arranged, which comprises filling the mold from the top thereof, oscillating the mold on its axis to compact the mix and discharge air therefrom, closing the top of the mold and then subjecting

the mix in the mold simultaneously to a sustained pressure and a vibratory motion both applied axially of the mold to provide a resultant product of uniformly high density.



2,321,278

PREPARATION OF CHLOROACETAMIDE

Edgar C. Britton and William R. Shawver, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application November 6, 1941, Serial No. 418,047

8 Claims. (Cl. 260—561)

1. The method which comprises reacting a lower alkyl ester of mono-chloroacetic acid with anhydrous ammonia to produce mono-chloroacetamide.

2,321,279

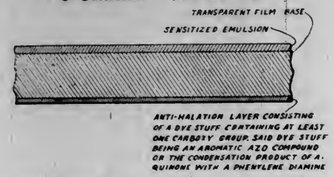
PROCESS FOR THE MANUFACTURE OF ANTI-HALATION LAYERS

Richard Brodersen, Dessau, and Gustav Wilmanns, Wolfen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application July 13, 1940, Serial No. 345,368

In Germany August 23, 1939

3 Claims. (Cl. 95—8)



1. A photographic material comprising a support, at least one light-sensitive emulsion layer and an antihalation layer consisting only of a thin film of at least one dyestuff containing in its molecule at least one carboxyl group and selected from the group of dyestuffs consisting of aromatic azo compounds and condensation products of a quinone with a phenylene diamine.

2,321,280

SAFETY FUEL

Cecil L. Brown, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 7, 1938, Serial No. 244,357

10 Claims. (Cl. 44—80)

1. A safety fuel boiling substantially completely between about 300° and 400° F., having a flash point of at least 100° F. by the closed cup method, composed predominantly of the paraffinic compounds formed by the reaction between isobutane and a C_4 olefin and containing sufficient antiknock agent to bring its octane number to about 100.

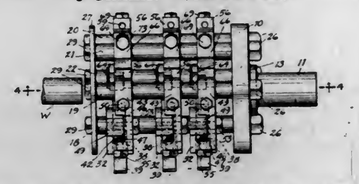
2,321,281

TURNING TOOL

Charles H. Collins, Lebanon, Ohio, assignor to Remington Arms Company, Inc., a corporation of Delaware

Application July 24, 1940, Serial No. 347,101

9 Claims. (Cl. 82—35)



1. In a box turning tool, a frame comprising a mounting back portion, a face portion longitudinally spaced therefrom having an opening for receiving work, and a plurality of spaced parallel supporting portions extending between said back and face portions, a tool holder mounted upon one of said supporting portions for longitudinal and angular adjustment movement thereon, a thrust supporting member for said tool holder mounted upon another of said supporting portions for longitudinal and angular adjustment movement thereon, means for interlockingly connecting said thrust supporting member to said tool holder, and work rest means mounted upon still another of said supporting portions for longitudinal and angular adjustment movement thereon.

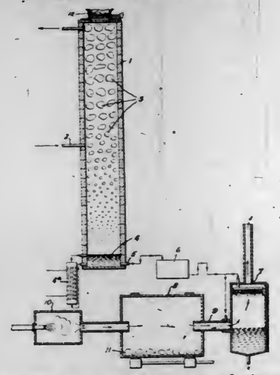
2,321,282

DRY HYDROGEN CHLORIDE

Rock L. Comstock, Weeks, La., assignor to Bay Chemical Company, Inc., New Orleans, La., a corporation of Louisiana

Application December 10, 1940, Serial No. 369,488

4 Claims. (Cl. 23—154)



1. A process for producing substantially anhydrous hydrogen chloride comprising contacting a moving column of solid lumps of calcium chloride with liquid aqueous hydrogen chloride solution wherein said solution is introduced into the column intermediate the ends thereof, pro-

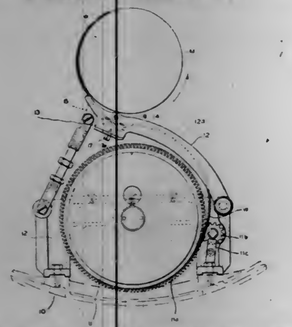
gressively dissolving the solid calcium chloride in the said hydrogen chloride solution and progressively evolving hydrogen chloride as the materials move toward one end of the column, simultaneously progressively increasing the temperature of the materials as they move toward said end, removing the calcium chloride from said end as a spent heated aqueous solution, progressively dehydrating hydrogen chloride gas evolved from the aqueous solution by contacting the evolved hydrogen chloride gas with the solid calcium chloride intermediate the point of introduction of the aqueous hydrogen chloride solution and the opposite end of the column, and withdrawing substantially anhydrous hydrogen chloride gas from said opposite end of said column.

2,321,283

SPREADER FOR LOOMS

Anselm De Ghetto, Clifton, N. J., assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio

Application September 7, 1940, Serial No. 355,761
5 Claims. (Cl. 139—13)



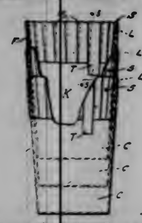
1. In a loom of the character described a spreader element mounted relatively to revolve around a mandrel or spindle, means on said element for guiding a stretch of wire from a source of supply thereof onto the mandrel or spindle, and a wire-bending device mounted on said element adjacent the applying end thereof and comprising spaced members between which the wire passes to bend the same substantially to the curvature of the mandrel or spindle prior to its application thereto.

2,321,284

SANITARY SEAL FOR DRINKING CUPS

Franklyn M. De...art, New York, N. Y.

Application September 30, 1939, Serial No. 297,264
21 Claims. (Cl. 206—65)



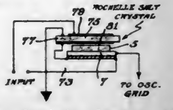
1. A sanitary nest-set of paper drinking cups, comprising, in combination a plurality of slightly tapered drinking cups each nested within and projecting above the cup next below; and an annular sanitary seal of thin paper or other suitable material removably received on, covering and protecting the lip and projecting part of each cup, each seal comprising an inner skirt having vertical pleats or over folds engaging and extending a short distance down the inner face of the lip; an outer skirt having vertical pleats engaging the outer face of the cup at the lip and extending down to or into the cup next below, thereby to cover the lip and all portions of the cups which project above the other cups; and a fold over the lip edge integrally connecting said skirts; said outer skirt being provided with downwardly projected tab projecting into the cups next below and adapted when exposed on separation of a cup from the next to be grasped for pulling off the seal from the lip; thereby to expose the previously sanitarily covered and protected lip and present it in clean sanitary condition for use.

2,321,285

MODULATION SYSTEM

Robert J. Ehret, Haddonfield, N. J., and John L. Barnes, Winchester, Mass., assignors to Radio Corporation of America, a corporation of Delaware

Original application May 22, 1940, Serial No. 336,550, now Patent No. 2,289,183, dated July 7, 1942. Divided and this application December 10, 1941, Serial No. 422,378
4 Claims. (Cl. 179—171.5)



1. In a piezo-electric device, the combination including a piezo-electric element, an oscillator whose frequency is controlled by said element, a Rochelle salt crystal supported in a position adjacent the surface of said element, a common electrode attached to the surface of said Rochelle salt crystal and spaced from the adjacent surface of said piezo-electric element, and means for vibrating said crystal in response to a signal voltage to thereby vary the air gap between the piezo-electric element and said common electrode and thus to vary the frequency of said oscillator in accordance with said signal voltage.

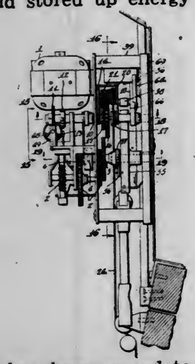
2,321,286

DOOR OPERATING DEVICE

Knut G. Etsel and John Christensen, Chicago, Ill.

Continuation of application Serial No. 737,000, July 26, 1934. This application October 2, 1939, Serial No. 297,610
3 Claims. (Cl. 268—3)

1. A door operating apparatus comprising a movable bolt mounted upon the door, a part adjacent to the door with which said bolt interlocks, a bolt moving mechanism for moving said bolt, a door moving mechanism for moving the door, a power device far actuating said bolt moving mechanism and door moving mechanism, means forming a part of the connection between the power device and said connections, for first actuating the bolt moving mechanism before the pressure of the door moving mechanism has been applied to said bolt and after the bolt has been moved to unlocking position for then actuating the door moving mechanism to open the door, means brought into action for said power device for storing up energy during the unlocking movement of the bolt, an apparatus for transferring said stored up energy to the door to apply opening pressure on it and means for delaying the transfer of said stored up energy to said door



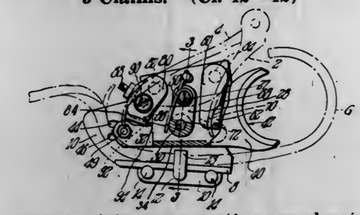
until the bolt has been moved to its unlocking position.

2,321,287

TRIGGER OPERATING MECHANISM

Walter M. Fay, Ludlow, Mass.

Application April 21, 1941, Serial No. 389,545
5 Claims. (Cl. 42—42)



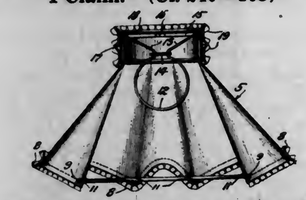
1. Unitary trigger operating mechanism for attachment to the trigger guard of a firearm having plural triggers comprising, a support and means for securing the same to a trigger guard, a trigger movable relative to said support between non-firing and trigger operating position, separate trigger actuating means for operatively engaging each of said plural triggers movable on said support and said trigger, means associated with said support for selectively guiding the trigger in different paths as it is moved to operating position, and means associated with said trigger and each actuating means selectively engageable according to the selected path of movement of the trigger in movement thereof to trigger operating position.

2,321,288

LAMP SHADE

Harry Finkel, New York, N. Y.

Application September 24, 1942, Serial No. 459,593
1 Claim. (Cl. 240—108)



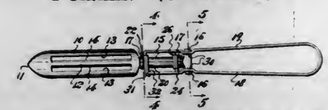
A lamp shade, comprising a collar fully open at one end and having an inwardly projecting flange at the opposite end, a shade support having a ring portion seated in said collar against said flange, a shade body having projecting fingers entered in the open end of said collar, and an inner collar of smaller diameter than said first collar, said second collar being entered in said open end of the first collar over said projecting fingers of the shade body and into engagement with said ring portion and thereby confining said ring portion against said inwardly projecting flange of said first mentioned collar.

2,321,289

PARING IMPLEMENT

Homer Gamache, Newark, N. J., assignor of one-half to James V. Finaldi, Newark, N. J.

Application December 1, 1942, Serial No. 467,514
4 Claims. (Cl. 30—279)



1. A paring implement comprising a blade body having a shank axially extending from its rear end, said shank terminating in a cross bar providing oppositely extending stop projections, a handle member including laterally spaced arms having means to journal said shank for supporting said blade body subject to pivotal oscillation about its longitudinal axis, and said handle member arms having openings therethrough to receive the end portions of said stop projections, whereby engagement of the side margins of said openings by said stop projections functions to limit pivotal oscillation of the blade body.

2,321,290

TREATING WHITE OILS

Albert P. Giraitis, Maplewood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 19, 1941, Serial No. 411,494
10 Claims. (Cl. 196—40)

1. The process of refining viscous mineral white oils, which comprises exhaustively treating a petroleum oil of lubricating oil consistency with concentrated sulfuric acid, separating the sludge, then neutralizing the oil with an aqueous alkali solution, separating the aqueous solution, washing the oil with a water-isopropyl alcohol mixture, treating the oil with steam and then with air to remove traces of alcohol and water, treating the oil with an amount of clay sufficient to insure the production of an oil of color of at least 25 Saybolt but insufficient to produce an oil of color of 30 Saybolt, and then with a dry alkaline earth basic reacting compound.

2,321,291

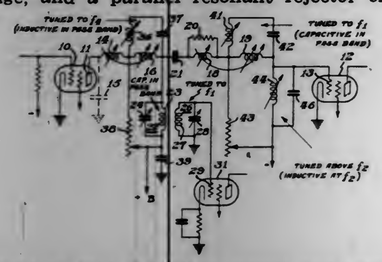
BAND PASS AMPLIFIER

Gustave L. Grundmann, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 31, 1941, Serial No. 417,227
6 Claims. (Cl. 179—171)

1. A band pass amplifier comprising a first amplifier tube having an anode, a succeeding amplifier tube having a control grid and a cathode, a network for so coupling said tubes that said amplifier has a certain band pass range, said network comprising a tuned primary circuit connected to said anode, a tuned secondary circuit connected to said control grid, and an impedance element common to said tuned circuits for so

coupling them as to give a broad-topped frequency response characteristic, a parallel resonant rejector circuit located in said primary circuit and tuned to resonance at a frequency outside of but close to one end of said band pass range, and a parallel resonant rejector circuit



located in said secondary circuit and tuned to resonance at a frequency outside of but close to the other end of said band pass range, said secondary circuit including a parallel resonant circuit connected between the control grid and cathode of said succeeding tube.

2,321,292

VINYLIDENE CHLORIDE-GRAPHITE COMPOSITION

Alden W. Hanson, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 14, 1941, Serial No. 393,419

6 Claims. (Cl. 260—41)

1. A composition of matter comprising a preponderance of a thermoplastic vinylidene chloride polymer and a minor proportion of graphite.

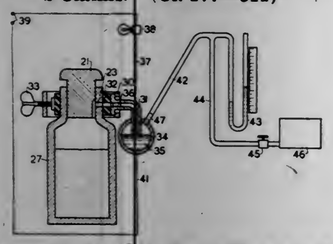
2,321,293

APPARATUS FOR MEASURING PRESSURES IN CONTAINERS

Gerald L. Hassler, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application May 2, 1939, Serial No. 271,287

2 Claims. (Cl. 177—311)



1. For use in combination with a plurality of sealed gas containers each having a valved outlet, single means for consecutively measuring the pressure in said containers, said means comprising a tube of small volumetric capacity, fluid-tight clamping means for fixing one end of said tube in register with the valved outlet of one of said containers, a closed vessel partially filled with liquid sealed about the other end of said tube, said other end extending into said vessel below the surface of said liquid, a source of gaseous pressure, a conduit in communication between said source and the space above the liquid surface in said vessel, valve means in said conduit for applying a controlled gaseous pressure from said source to said vessel, whereby said liquid is caused to enter the tube immersed therein to a predetermined level, and manometer means connected to said conduit in parallel with said vessel for indicating the gaseous pressure applied thereto when the liquid reaches said level.

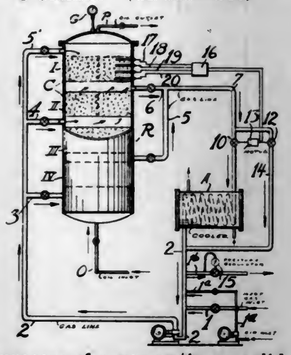
2,321,294

METHOD OF CONTROL OF TEMPERATURES IN REGENERATION OF CATALYSTS

Charles E. Hemminger, Westfield, and Charles W. Tyson, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 27, 1938, Serial No. 231,870

3 Claims. (Cl. 252—242)



2. The process of regenerating a solid catalyst contaminated with combustible material which comprises forcing a heated oxygen-containing gas into said catalyst at an inlet temperature at least sufficiently elevated to cause immediate combustion of the said contaminants upon contact with the said gas and thereafter supplying under superatmospheric pressure a further quantity of oxygen-containing gas to the said catalyst, through a regenerated portion thereof to support further combustion of said contaminants in unregenerated portions, the inlet temperature of the last-named gas being substantially elevated above atmospheric temperature, but below that necessary to cause immediate combustion of the contaminants at the pressure employed, whereby the regenerated portion of the catalyst is cooled and the last-named portion of gas is heated to ignition temperatures, and then raising the inlet temperature of the regeneration gas to about its original inlet temperature during the final phase of the regeneration.

2,321,295

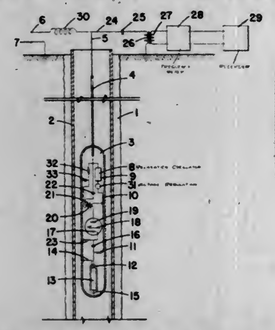
APPARATUS FOR LOGGING BOREHOLES

Lynn G. Howell, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 23, 1941, Serial No. 399,329

5 Claims. (Cl. 250—83.6)

1. An apparatus for logging boreholes comprising a Geiger-Muller counter adapted to be lowered into a borehole, a source of D. C. power at the surface for operating said Geiger-Muller counter, a single conductor cable for conducting said D. C. power from the surface to said counter, means arranged in the circuit between said source of power and said counter and adapted to move with the counter for stepping up the voltage supplied by said D. C. source to the value required for operation of said counter, means connecting the output of said counter to said single-conductor cable, means at the surface for separating the output



pulses of the counter from the applied D. C. and means at the surface for recording the output pulses of said counter.

2,321,296

MANUFACTURE OF MERCAPTO-THIAZOLINES

Louis H. Howland, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 26, 1940, Serial No. 358,425

5 Claims. (Cl. 260—302)

1. A method which comprises reacting a 2-amino alkyl sulfuric acid, with a preformed alkali trithiocarbonate in a solvent selected from the class consisting of water, alcohol, and alcohol-water.

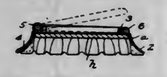
2,321,297

BOTTLE CAP

George H. Hutaff, Jr., Wilmington, N. C.

Application January 21, 1941, Serial No. 375,349

4 Claims. (Cl. 215—46)



1. A bottle cap including top and flange portions, a circumferentially extending rim projecting upwardly from the top portion and positioned within the marginal edge thereof, said rim being broken away to provide a passage therethrough, a ring adapted to normally frictionally engage the rim within the margin of the top portion, and means including an eye for connecting the ring to the cap, a portion of said eye extending into the passage formed through the rim for positioning the ring to engage the rim.

2,321,298

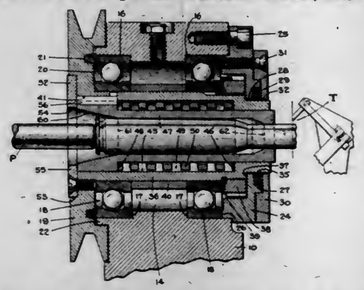
AMMUNITION MANUFACTURE

Charles R. Johnson, Glen Mills, and William P. G. Hall, Berwyn, Pa., assignors to Remington Arms Company, Inc., a corporation of Delaware

Application January 30, 1942, Serial No. 428,822

18 Claims. (Cl. 164—36)

18. A chuck mechanism for holding drawn metallic cases to be trimmed to a predetermined length, comprising a housing; a hollow spindle mounted to rotate in said housing; a pulley secured to one end of said spindle for rotating said spindle in said housing, said spindle being countersunk axially for a major portion of its length; a one-piece sleeve-like chuck having a shoulder portion at one end cooperating with the countersunk portion of said spindle to form a longitudinal pocket circumscribing said chuck; a coil spring in said pocket, one end of said spring abutting the shoulder portion of said chuck, the oppo-



site end of said spring abutting the seat of the countersink whereby said chuck is restrained from longitudinal displacement relative to said hollow spindle, said chuck having a bore of varying diameter adapted to grip a drawn metallic case at substantially its opposite ends only.

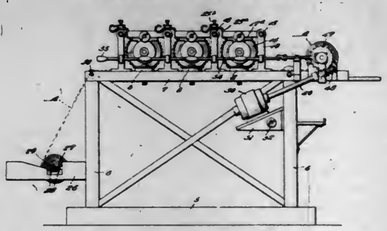
2,321,299

SHEET MATERIAL CUTTING MACHINE

Clarence J. Johnson, New Brunswick, N. J.

Application February 11, 1942, Serial No. 430,451

2 Claims. (Cl. 164—65)



2. A sheet stripping machine comprising a slotted bed, a cutter mounted above the bed, a U-shaped frame vertically adjustable in a selected slot of the bed and provided with a pair of closely spaced rollers mounted therein and between which the cutter operates in slitting a sheet.

2,321,300

MECHANICAL HANDLING DEVICE

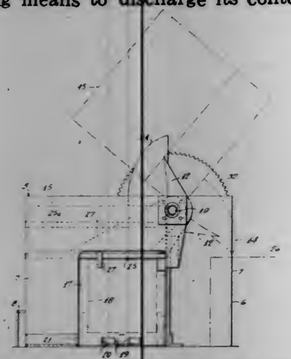
David R. Keagy, Massillon, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Substituted for abandoned application Serial No. 398,932, June 20, 1941. This application August 3, 1942, Serial No. 453,323

5 Claims. (Cl. 214—1.1)

1. A mechanical handling mechanism for emptying a receptacle charged with a plurality of bulk articles, said mechanism comprising a framework, powered means within said framework adapted for reception of the loaded receptacle, said powered means constituting a receptacle receiving means having a pair of spaced opposite side walls for reception of a round container, spaced rod means fixed transversely through said pair of opposite walls of said receptacle receiving means and mounting gravity actuated means automatically operable upon operation of the mechanism to retain said container in fixed po-

sition, and means for rotating said receptacle receiving means to discharge its contents while

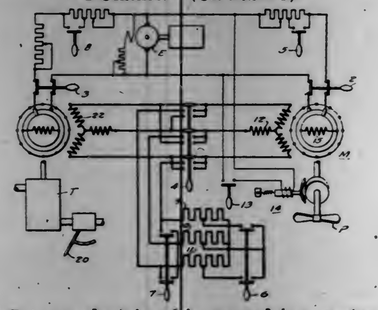


retaining the empty receptacle therein to be returned to its initial position.

2,321,301
COMPOSITION OF MATTER
Roy G. Lichty, Stow, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application May 31, 1940, Serial No. 338,231
4 Claims. (Cl. 260—429)

1. The addition products of a cyclohexylamine compound selected from the class consisting of cyclohexylamine, N-ethyl cyclohexylamine and N-methyl cyclohexylamine and a zinc salt of a dialkyl dithiocarbamate.

2,321,302
ELECTRIC SHIP PROPULSION
Michael Liwschitz, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 22, 1941, Serial No. 407,941
4 Claims. (Cl. 172—8)

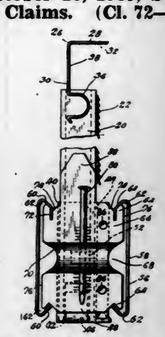


4. In an electric ship-propulsion system in which a synchronous motor, designed to also operate as an induction motor, is used to operate the propeller, in combination, a synchronous motor having an armature winding, a damper winding, and a field winding, an alternator, a prime mover for driving the alternator, means for varying the speed of the prime mover, means operable during a reversing process, to cause a dynamic braking of the motor, means for overexciting the motor during the dynamic braking to increase the braking effect, whereby the propeller speed is decreased to a predetermined speed less than standstill, means for mechanically braking the propeller to standstill, means for producing a rotor torque in the motor, means for over-exciting the alternator during the production of the motor torque, said means for mechanically braking the propeller being made inactive as soon as the rotor torque is established, whereupon the propeller, being released by the mechanical braking means, is caused to operate in reverse direction.

2,321,303
COATING COMPOSITION
Edward H. McArdle, Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 7, 1939, Serial No. 298,401
5 Claims. (Cl. 106—311)

3. A coating composition comprising a drying oil, and 30 to 50% of a mixture of branched chain paraffinic hydrocarbons boiling between 300° and 400° F., having an A. P. I. gravity of 53 to 70° and an aniline point between 160° and 195° F.

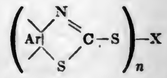
2,321,304
WALL CONSTRUCTION
William M. McNeil, Wheaton, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application October 16, 1939, Serial No. 299,640
30 Claims. (Cl. 72—46)



1. An adjustable clip assembly for securing a base plate adjacent the lower end of a wall stud which comprises a stud engaging clip having a base portion with an upwardly extending flange portion and a tongue portion for embracing the lower end of said stud, and a base plate clip secured to said flange of said stud engaging clip in face-to-face relationship by vertically adjustable means.

2,321,305
ACCELERATOR OF VULCANIZATION
William E. Messer, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 24, 1939, Serial No. 280,929
5 Claims. (Cl. 260—788)

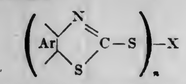
1. A method which comprises vulcanizing rubber in the presence of a compound of the general formula



where Ar is an arylene group; n is 3, and X is nitrogen.

2,321,306
ACCELERATOR OF VULCANIZATION
William E. Messer, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application June 24, 1939, Serial No. 280,929. Divided and this application May 10, 1940, Serial No. 334,343
1 Claim. (Cl. 260—306.6)

A reaction product of from two to three molecular proportions of an arylene-thiazyl sulfur chloride with one molecular proportion of ammonia and consisting essentially of a compound having the formula

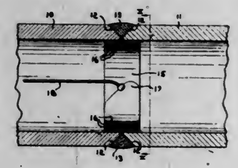


where Ar is an arylene group; n is 2 and 3, respectively, when X is NH, and N, respectively.

2,321,307
LUBRICATING OIL, INSULATING AND SIMILAR OIL
Louis A. Mikeska, Westfield, and Eugene Lieber, Linden, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 17, 1937, Serial No. 159,504
18 Claims. (Cl. 252—37)

1. An improved lubricant for use in internal combustion engines comprising a refined hydrocarbon oil containing an effective concentration below about 1% of an oxidation inhibitor effective in preventing decomposition of said oil at the elevated temperatures encountered in lubricating internal combustion engines, said oxidation inhibitor being a compound of the class of organic phosphites containing an element selected from the class consisting of sulfur, selenium and tellurium, said element being attached directly to the phosphorus and the organic group, the organic radicals of the said organic phosphites having 3 to 20 carbon atoms in each radical and being selected from the group consisting of alkyl radicals and halogen substituted alkyl radicals.

2,321,308
WELD BACKING CONSTRUCTION
Ernest F. Miller, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 15, 1942, Serial No. 438,987
8 Claims. (Cl. 113—111)

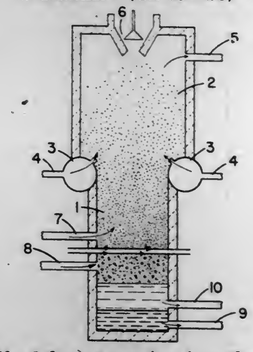


1. A backing construction for use internally of abutting ends of members having aligned circular passages while said members are being welded together and adapted to be removed after the welding operation, said construction comprising a relatively thin strip of material wound upon itself to provide a laminated ring removable by unwinding.

2,321,309
WELDING FLUX
Mike A. Miller, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application December 31, 1941, Serial No. 425,117
6 Claims. (Cl. 148—26)

1. A fluorine-free alkaline metal chloride base flux for welding aluminum containing from about 0.5 to 5 per cent of an alkali boryl sulfate but substantially free from any unreacted alkali sulfate and boric acid, said flux being characterized by the ability to remove the oxide from aluminum surfaces thoroughly and rapidly during the welding operation.

2,321,310
SMELTING IRON ORE
Thomas V. Moore, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 14, 1941, Serial No. 378,870
2 Claims. (Cl. 75—26)

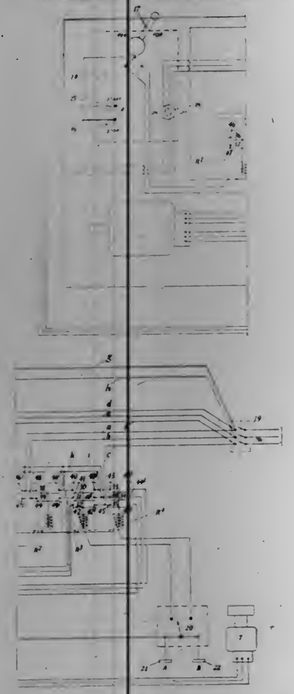


1. A method for recovering iron from iron ore which comprises dropping iron ore, in a finely divided state, together with slag forming material in discrete form heavier than the ore particles through a rising stream of gas which is of a different composition at different levels, being of an oxidizing nature at the uppermost level and a reducing nature at a lower level, and adjusting the velocity of the gas so as to cause the ore to drop at a retarded rate so regulated as to maintain the particles in each zone for the desired period.

2,321,311
MOTOR FUEL
August Y. Mottlau, Clark Township, Union County, and Pharis Miller, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 21, 1939, Serial No. 300,554
10 Claims. (Cl. 44—63)

1. A motor fuel composition comprising a mixture of gasoline hydrocarbons adapted as a base fuel for spark-ignition engines improved in antiknock value by an addition of a substantial amount at least 1% by volume of a heterocyclic compound containing a furane nucleus and selected from the group consisting of furane, alkyl furanes, furfuryl alcohols, furfuryl amines, and the saturated derivatives thereof, said heterocyclic compound boiling in the range of said base fuel.

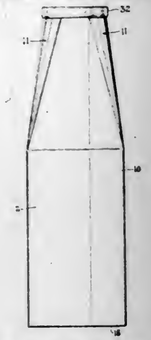
2,321,312
CONTROL SYSTEM FOR CAPSTAN LATHES AND LIKE MACHINE TOOLS
Wadia Halim Murad, Watford, England
Application July 1, 1941, Serial No. 400,593
In Great Britain February 21, 1940
2 Claims. (Cl. 29—64)



1. In a capstan or the like lathe, including a spindle, a multi-phase electric motor geared to the spindle for selectively driving the same in respectively opposite directions at fast and slow speeds, the motor having fast and slow speed windings and being reversable by reversing the phase in either of the windings, an input circuit including two phases, first and second relays normally open and having the inputs thereof connected to said phases, a forward and reverse switch movable selectively to actuate either of said relays, the second relay being arranged to reverse said phases, third and fourth relays each having the inputs thereof connected to the outputs of said first and second relays with the outputs thereof respectively connected to said fast and slow speed windings, and a fast and slow speed switch movable selectively to actuate either of said third and fourth relays.

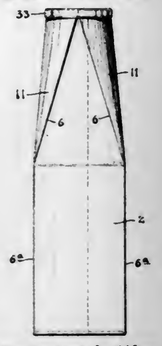
2,321,313
PAPER BOTTLE AND CONTAINER
Harold H. Pelzer, Astoria, Long Island, N. Y.
Application April 11, 1940, Serial No. 329,051
15 Claims. (Cl. 229—4.5)

1. A blank for a paper bottle or container which includes a body portion consisting of four identical rectangular panels, a straight scoring between adjacent panels, a bottom portion below each panel, a continuous strip connecting said bottom portions to the corresponding panels, the portion of the strip below an outside panel being the widest and each of the succeeding portions below the remaining panels being narrower than the preceding one by the thickness of the blank, the width of an outside bottom portion being equal to the width of the corresponding panel, the width of the two intermediate bottom portions being less than the width of said outside bottom portion by the thickness of the blank, the width of said remaining bottom portion being



less than the width of said outside bottom portion by twice the thickness of the blank, the length of said outside bottom portion being equal to the width of the corresponding panel, the length of the next bottom portion being less than the width of said outside bottom portion by the thickness of the blank, and the length of said other two bottom portions being less than the length of said outside bottom portions by twice the thickness of the blank.

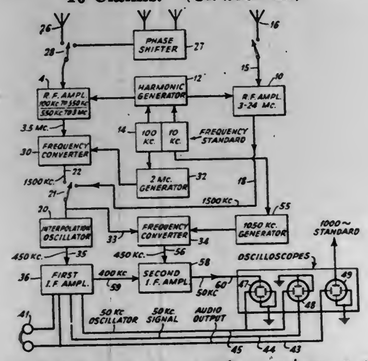
2,321,314
PAPER BOTTLE AND CONTAINER
Harold H. Pelzer, Astoria, Long Island, N. Y.
Application June 13, 1940, Serial No. 340,296
3 Claims. (Cl. 229—4.5)



1. A blank for paper bottles formed from an integral sheet and designed to provide three series of four panels each defined by scorings, one series of panels comprising four laterally adjacent longitudinally extending panels designed to form a bottle body the lower part of which is rectangular in cross-section, the lower part of each of said panels being rectangular in shape and the upper part of trapezium shape with the longitudinal sides slanting equally toward each other, a second series of panels comprising four V-shaped sections adjacent the trapezium shaped sections, said adjacent sections being designed to form a tapering upper body part, a third series of panels comprising four panels adjacent to and

in vertical alignment with the body panels and designed to form the bottle bottom, one of said panels adjacent an end body panel being rectangular in shape and equal in area to the cross-sectional area of the bottle body, and each of the other three of said bottom panels being rectangular in shape and one-half the cross-sectional area of the bottle body, and a relatively narrow longitudinal sealing section adjacent the other end body panel.

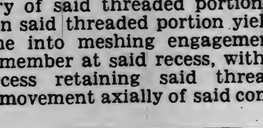
2,321,315
FREQUENCY MEASURING SYSTEM
Harold O. Peterson and John B. Atwood, Riverhead, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application May 9, 1941, Serial No. 392,624
10 Claims. (Cl. 250—39)



1. In a frequency measuring system, a superheterodyne receiver having a tunable oscillator therein, a standard frequency source, means for receiving a signal wave to be measured, means for tuning said receiver to the 10 kilocycle harmonic of said standard frequency source which is nearest said signal wave, means for heterodyning said signal wave with the wave generated by said tunable oscillator to obtain a difference frequency, means for heterodyning the resultant difference frequency with the beat frequency generated by the mixing of the output waves of a pair of independently controllable oscillators to obtain a first intermediate frequency wave, means for generating a fixed frequency wave of the same order of magnitude as said beat frequency, means for mixing said fixed frequency wave with said difference frequency to obtain a second intermediate frequency, means for converting both of said intermediate frequencies to a lower frequency band including the audible frequency range, means for comparing said converted intermediate frequencies whereby said independently controllable oscillators may be so adjusted that said converted intermediate frequencies are equal to one another and means for measuring the difference between said beat frequency and said fixed frequency.

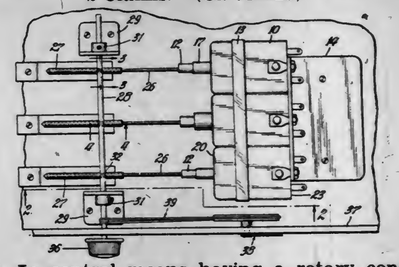
2,321,316
PRINTING INK COMPRISING CELLULOSE DERIVATIVES
Norman R. Peterson and Joseph L. Sherk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 17, 1941, Serial No. 393,940
6 Claims. (Cl. 106—26)

1. A solvent type of printing ink comprising a pigment and a vehicle, said vehicle being a lacquer comprising, as a solute, an organo-soluble cellulose ether, and, as a solvent, a mixture of from 85 to 30 per cent of an alkyl substituted naphthalene containing from 1 to 2 alkyl groups having a total of not to exceed 6 carbon atoms, and, correspondingly from 15 to 70 per cent of an ether alcohol having the general formula



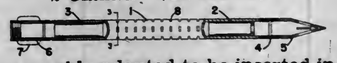
wherein X and Y are each independently selected from the class consisting of alkyl radicals and hydrogen, X and Y together containing not to exceed 6 carbon atoms, m has one of the values 0, 1, and 2, and n is an integer from 2 to 5, inclusive.

2,321,317
TRANSMISSION MECHANISM
Alexander W. Plensler, Chicago, Ill., assignor to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application May 17, 1941, Serial No. 393,901
2 Claims. (Cl. 74—10)



1. In control means having a rotary control member for driving a linearly movable adjustable element, the means for operatively connecting said element with said rotary control member including a threaded portion on said adjustable element extending longitudinally thereof and transversely of said control member, said control member being of straight form over substantially its complete length and having an annular recess therein within its peripheral confines, with the walls of said recess having threads thereon corresponding to said threaded portion, and said recess having a contour corresponding to the periphery of said threaded portion, and means acting on said threaded portion yieldably urging the same into meshing engagement with said control member at said recess, with the walls of said recess retaining said threaded portion against movement axially of said control member.

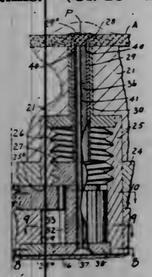
2,321,318
WASHDOWN DEVICE FOR INSERTING PIPE INTO GRANULAR MATERIAL
Carl E. Reistle, Jr., Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 27, 1939, Serial No. 296,769
2 Claims. (Cl. 166—5)



1. An assembly adapted to be inserted in a bed of granular material comprising, in combination, a tubular member having a perforated median

portion and imperforate end portions with one of said end portions arranged to be secured to a string of tubing, an annular seat arranged within each end portion of said member and secured thereto in a fluid tight manner, a perforated tip secured to the other end portion, a second member arranged for insertion in said first member and for withdrawal therefrom by longitudinal movement, said second member defining an imperforate conduit of a length at least equal to the distance between said seats of the first member and comprising a rigid tubular body and a deformable packer mounted on said tubular body, said second member being arranged so that it may be inserted in said first member with the packer contacting both seats to make a fluid tight friction seal therewith, and when so inserted seals off the perforated portion of said first member whereby fluid entering the assembly from the string of tubing is conducted to the perforated end.

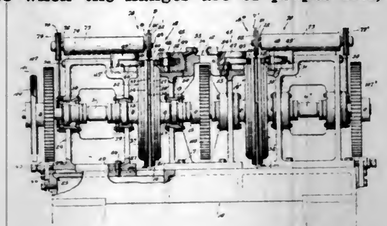
2,321,319
METHOD AND APPARATUS FOR MAKING HOLLOW RUBBER ARTICLES
Dietrich G. Rempel, Barberton, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application April 17, 1940, Serial No. 330,101
11 Claims. (Cl. 18—19)



6. The method of making blown rubber articles which comprises providing a preformed hollow article of raw rubber in a plural-part cavity mold, vulcanizing said article under the influence of heat and internal fluid pressure, and applying a cutting tool to the wall of the article while the same is expanded against the surface of the mold cavity by said internal pressure whereby a portion of said wall is removed to provide an aperture through which the article is evacuated without opening the mold.

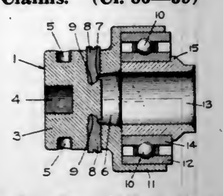
2,321,320
GAUGING MACHINE
Warren S. Reynolds, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application May 23, 1940, Serial No. 336,712
14 Claims. (Cl. 209—104)

8. In an apparatus for gauging articles having body and flange portions, the combination of a frame; at least one pair of gauging members; means for supporting said gauging members; and means for rotating at least one of said gauging members, said supporting means being constructed and arranged to support said gauging members at an angle axially relative to each other in a position whereby the gauging members are disposed more closely to each other during a portion of the rotary path of one of the gauging members so as to form a gauging slot between the gauging members to accommodate the bodies and flanges of the articles respectively between and upon the pair of gauging members when the flanges are of proper size, said



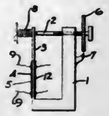
gauging members being spaced apart during another portion of the rotary path of the rotating gauging member so as to discharge articles failing to pass through the gauging slot.

2,321,321
CARTRIDGE SHELL CRIMPER
Charles Stanley Rosson, Norwich, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application September 13, 1941, Serial No. 410,736
In Great Britain November 27, 1940
3 Claims. (Cl. 86—39)



1. Apparatus for the closing of a shot shell comprising means for non-rotatably supporting said shot shell, a rotating closure forming die, and means supported by and rotatable relative to said closure forming die and to a shot shell held in said first mentioned supporting means for laterally supporting a portion of the body of said shot shell during the operation of said closure forming die.

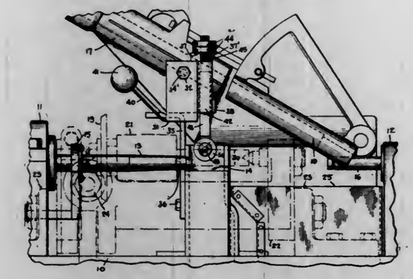
2,321,322
RHEOSTAT
Arthur C. Ruge, Cambridge, Mass.
Original application September 16, 1939, Serial No. 295,207. Divided and this application February 19, 1942, Serial No. 431,559
4 Claims. (Cl. 201—48)



1. A rheostat comprising a member whose strain is adapted to be varied, means for varying the strain of said member, a continuous filament of solid material whose electrical resistance varies in accordance with changes in its strain and is adapted to be connected with a circuit in which it is desired to produce a variable rheostat resistance, and means for bonding said filament throughout its effective length to said member in the direction of strain thereof whereby variations in strain of said member effects an uninterrupted change of rheostat resistance of said

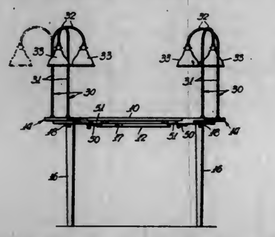
filament along a continuous smooth line which is stable during either static or variable adjustments.

2,321,323
AMMUNITION TRIMMING APPARATUS
Marion L. Sappenfield, Kansas City, Mo., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application March 18, 1942, Serial No. 435,199
9 Claims. (Cl. 164—69)



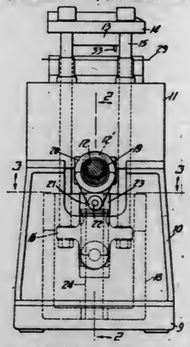
9. In a tube trimming machine, the combination with a mandrel, means for moving a tube from a supply into alignment with said mandrel, means for moving said tube onto said mandrel, means for trimming one end of said tube and means for removing said tube and trimming from said mandrel; of a discharge chute for the trimmings and means for positively deflecting the trimmings into the chute, said means comprising a fixed bracket, a carrier pivoted to said bracket and having a channel portion, a post slidable in said channel, means for adjusting said post in said channel and a wheel rotatively carried on the lower end of said post having a beveled surface adapted to engage the cut made in the tube by said trimming means.

2,321,324
TABLE
Francis C. Schwab, Mexico City, Mexico
Application December 6, 1940, Serial No. 368,772
17 Claims. (Cl. 311—41)



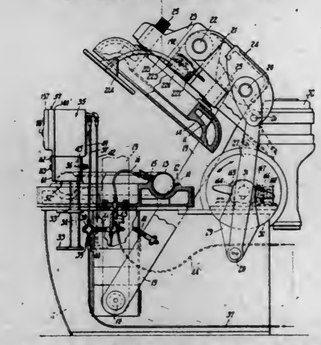
2. A table including a horizontal platform plate of substantially rectangular outline, a series of wings pivotally connected to said plate at respective corner sections thereof to permit substantially horizontal angular movement of said wings, said wings being adapted to extend within the margin of said plate in one angular position, and to extend beyond said margin in another angular position, and legs connected to and depending from said wings respectively, said plate being provided with slots at the edges of said plate to receive said legs respectively when said wings are in position within the margin of said plate.

2,321,325
DIEING MACHINE
Cortis F. Sherman, West Hartford, and Alfred E. Caserta, Hartford, Conn., assignors to The Henry & Wright Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application August 3, 1940, Serial No. 350,210
7 Claims. (Cl. 113—38)



1. A dieing machine comprising a frame including a base at the lower part and a table or support for a die at the top thereof, an actuating shaft journaled in the frame below the die support, and a set of reciprocating members including a cross head mounted on guides in the base below the shaft and arranged to be reciprocated by the latter through a suitable connection, a plurality of rods fastened in said cross head and extending upwardly through bearings in the top of the frame, a plate fastened to the rods above the die support and adapted to receive a cooperative die, means formed separately from any operative parts of the machine and acting solely as a counterweight to counterbalance the said reciprocating members and connection, said counterbalancing means being located within the confines of said frame below the die support, and a suspending connection between said counterweight and operative parts above it.

2,321,326
VULCANIZING PRESS AND TIMING MECHANISM THEREFOR
Leslie E. Soderquist, Akron, Ohio, assignor to The McNeil Machine & Engineering Company, Akron, Ohio, a corporation of Ohio
Application September 26, 1940, Serial No. 358,441
6 Claims. (Cl. 18—17)



3. In a press of the character described, the combination with a chamber and mechanism including an electric circuit for closing and open-

ing the chamber, of time controlling mechanism including a motor operative to determine the period during which the chamber remains closed, means for initiating the movement of said mechanism for closing the chamber and for starting said time controlling mechanism comprising a rotatable shaft movable longitudinally to close said electric circuit and into driven engagement with said motor whereby said motor will rotate said shaft in one direction, a member operable to rotate said shaft in the opposite direction, means for arresting said closing movement before it is complete, and means including said first named means to make said member operable to rotate said shaft in the opposite direction to return said time controlling mechanism to its initial position and thereafter to again start said time controlling mechanism and continue the closing movement of the press.

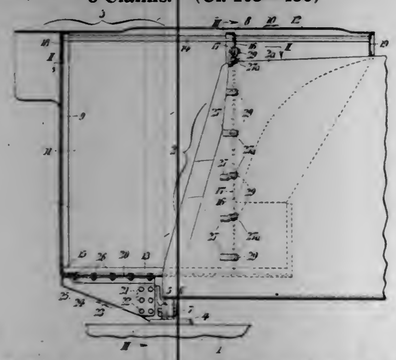
5. In a press of the character described, the combination with a curing chamber and mechanism for closing and opening the chamber, of time controlling mechanism operative to determine the period during which the chamber remains closed, means for initiating the operation of said mechanisms to close the chamber and for starting said time controlling mechanism, said means being operable to arrest the action of said time controlling mechanism before the completion of the cure, means for returning said time controlling mechanism to its starting position after its action has been arrested, and means cooperating with said first named means to thereafter restore the action of said time controlling mechanism.

2,321,327

LOCOMOTIVE CAB SUPPORTING MEANS

George D. Sprankle, Lower Merion Township, Montgomery County, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 14, 1942, Serial No. 430,867
8 Claims. (Cl. 105—456)



1. In a locomotive, a boiler and a cab; and means for supporting the boiler with capacity to shift on the frame as it expands and contracts, and means for supporting part of the weight of the cab from the frame independently of said boiler.

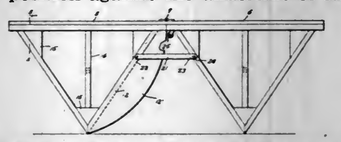
2,321,328

FOLDING TABLE

George T. Stack, Portland, Oreg.

Application June 6, 1942, Serial No. 446,101
3 Claims. (Cl. 311—89)

1. A folding table comprising a pair of table top sections, means hingedly connecting one edge of the sections together for folding upon each other, triangular-shaped legs at each side of each section, and means pivotally connecting one edge of the legs to said sections for movement into a folded position against the underside of its connected section, the legs of one section having longitudinally rounded edges adjacent the hinged connection of the table sections to provide rockers for said section during folding and unfolding movement thereof.

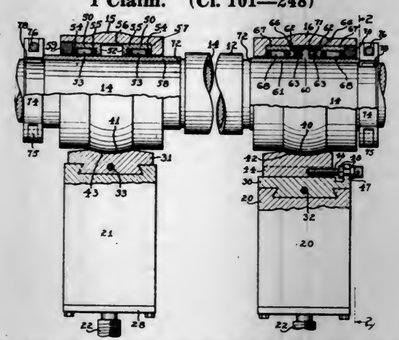


2,321,329

MOVABLE BEARING SUPPORTS FOR PRINTING ROLLS

Stephen B. Stafford, Oxford, and Herman A. Smith, Holden, Mass., assignors to Rice Barton Corporation, a corporation of Massachusetts

Application October 11, 1940, Serial No. 360,786
1 Claim. (Cl. 101—248)



A textile printing machine comprising a frame, a rotatable backing cylinder and a printing roll associated for a printing operation, a rotatable mandrel removably carrying the roll, a pair of spaced slide blocks which are separately adjustable toward and from the cylinder, a bearing housing carried by each slide block, means providing a universal bearing for supporting each housing on an associated slide block, a radial bearing in one housing carrying one end of the mandrel and permitting axial movement thereof, radial and end thrust bearings in the second housing for carrying the other end of the mandrel and preventing relative axial movement thereof, and means carried by one of said slide blocks for moving said second housing and its bearings axially and adjusting the mandrel endwise through the bearings of the first housing, said universal bearings serving to align the housings and their bearings with the mandrel for all normal adjustments of said devices.

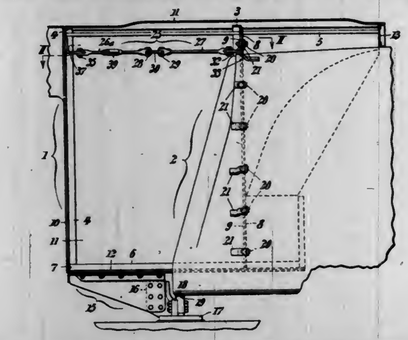
2,321,330

LOCOMOTIVE CAB BRACING MEANS

Carleton K. Steins, Merion, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 14, 1942, Serial No. 430,892
5 Claims. (Cl. 105—456)

1. In a locomotive, a boiler; a cab extending beyond one end of the boiler; and a flexible system of inter-connected elements for bracing the cab, said elements being disposed in a horizontal plane and including lengthwise adjustable diagonally arranged rods whereof corresponding opposite ends are pivotally attached respectively at laterally spaced points both to the boiler end and to the rear portion of the cab.

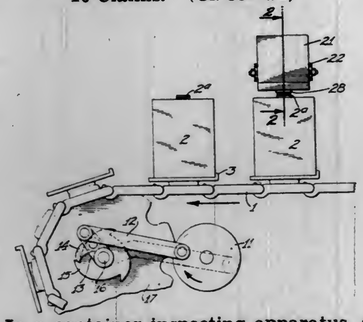


2,321,331

CONTAINER INSPECTING APPARATUS

Robert J. Sweezey, Los Angeles, Calif., assignor to Robert S. Burns

Application July 10, 1940, Serial No. 344,724
10 Claims. (Cl. 88—24)



1. In a container inspecting apparatus, a belt conveyor having means for conveying containers having openings at the top, and a visual inspection means supported above the conveyor a distance sufficient to allow clear passage of the containers on the conveyor, said means comprising an enclosure, an objective lens at the under side of the enclosure adapted to be aligned with the opening of one of the containers, illuminating means surrounding said objective lens, and means at the top of the enclosure upon which is projected the image passing through the objective lens.

2,321,332

N-(P-AMINO AND ACYL-P-AMINOARYLSULPHONYLAMIDO)-PYRIDINE-CARBOXYLIC ACIDS AND THERMAL DECOMPOSITION PRODUCT THEREOF

Lester J. Szabo, Cleveland, Ohio, assignor to S. M. A. Corporation, Chicago, Ill., a corporation of New Jersey

No Drawing. Application July 15, 1940, Serial No. 345,624
5 Claims. (Cl. 260—296)

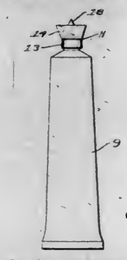
1. The process of preparing sulphapyridine which comprises decarboxylating a 2-sulphapyridine in which the pyridine nucleus is substituted by a carboxyl group of the group sulphapyridine 3' carboxylic acid, sulphapyridine 4' carboxylic acid and sulphapyridine 6' carboxylic acid by heat in the presence of a high boiling nonreactive neutral liquid.

2,321,333

CLOSURE DEVICE

William C. Terry, Cambridge, Mass., assignor to Harriet E. Cole, Taunton, Mass.

Application January 27, 1941, Serial No. 376,066
7 Claims. (Cl. 15—135)



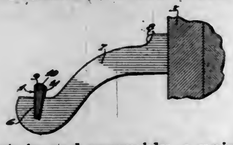
1. A closure device comprising an applicator member having an opening extending therethrough embodying a slot and having an elongated top surface, and a stopper member embodying an oblong-shaped closure portion adapted to extend into said slot, said stopper member also embodying a cap portion that overlaps said slot and the outside end of said applicator at its narrower portion while a portion of said applicator member elongated top surface overlaps said cap portion.

2,321,334

CURTAIN ROD ASSEMBLY

Arthur L. Thexton, Fort Thomas, Ky., assignor to Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland

Application October 19, 1942, Serial No. 462,460
2 Claims. (Cl. 211—105.1)



2. In a curtain rod assembly, a pair of supporting brackets and a curtain rod adapted to be suspended between said brackets, each of said brackets having a tapered slot therein for the reception of an end of the rod, said rod being tapered toward a side edge and comprising a core and a covering of fibrous sheet material wound around said core to provide a compressible outer surface for tight engagement with the slots in the bracket.

2,321,335

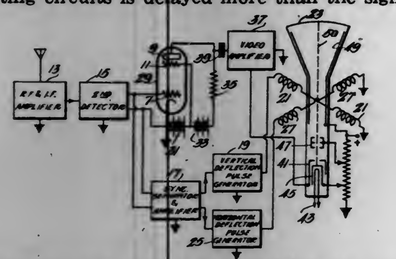
ELECTRICAL APPARATUS

William A. Tolson, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 30, 1940, Serial No. 359,170
2 Claims. (Cl. 178—7.5)

1. In a picture reproducing system including an electron beam tube having a control electrode and beam deflecting circuits, a picture signal

channel having a signal amplifier connected to said control electrode, a synchronizing signal channel connected to said beam deflecting circuits and wherein the signal passing through said synchronizing signal channel and said beam deflecting circuits is delayed more than the signal



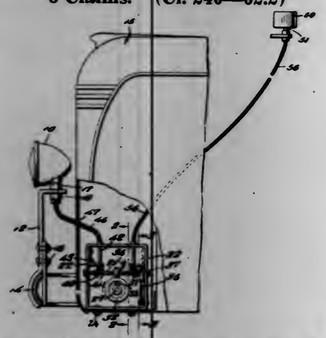
passing through said signal amplifier, the combination in said signal channel of an electronic time delay device comprising an electron discharge device having an electron transit time substantially equal to the difference in time delay in said synchronizing signal channel and said picture signal amplifier.

2,321,336
VALVE
Albert W. Tondreau, Hollywood, Calif.
Application August 10, 1942, Serial No. 454,243
7 Claims. (Cl. 251—18)



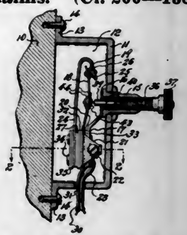
1. A valve comprising a casing having a fluid passage, an iris valve having adjustable leaves controlling said passage, an adjustable impositive lock for said leaves, and common tensioning means operable to compress said leaves and hold said lock in adjusted position.

2,321,337
APPARATUS FOR TURNING HEAD LAMPS
Walter C. Tostevin, Mandan, N. Dak.
Application May 14, 1942, Serial No. 442,977
8 Claims. (Cl. 240—62.2)



1. In combination with a vehicle, a shaft extending longitudinally of the vehicle, an arm secured to and suspended from said shaft, a flywheel mounted on said arm below said shaft and in a fixed relation thereto rotating in a substantially vertical plane and substantially parallel to the normal movement of the vehicle whereby said flywheel tends to remain in said plane to rotate said shaft during turning of the vehicle, swingable means on the vehicle adapted to be rotated during turning thereof, and means providing a driving connection between said shaft and said swingable means.

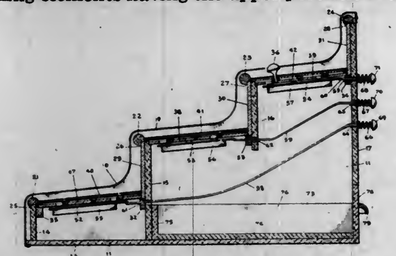
2,321,338
ADJUSTABLE THERMOSTAT
Herman Ulanet, Newark, N. J.
Application January 3, 1942, Serial No. 425,505
2 Claims. (Cl. 200—138)



1. A thermostat comprising a support, an internally screw-threaded bushing extending through said support, a bracket affixed to the inner end of said bushing, a bi-metallic thermostatic element having at its free end portion a contact means, a resilient element having at its free end portion a contact means in opposition to said thermostatic element contact means for make and break relation thereto, a conductor attachment means in electrical contact with the lower end portion of said thermostatic element, a conductor attachment means in electrical contact with the lower end portion of said resilient element, means to affix said elements and their conductor attachment means to said bracket in insulated relation thereto and to each other, said resilient element being disposed in spaced away aligned opposition to the inner end of said bushing, an adjusting screw means to provide a stop for limiting flexional movement of said resilient element, said adjusting screw means comprising an external screw member threaded into said bushing through its outer end, said external screw member having an internally screw-threaded bore, an internal screw member externally screw-threaded to engage said internally threaded bore of said external screw member, the free end of said internal screw member projecting from the inner end of said bushing and through said bracket for opposition to said resilient element, and said bracket and internal screw member having cooperative means to prevent rotation of the latter.

2,321,339
LOCKING RING DISPLAY DEVICE
George F. Wadsworth, Marion, Ohio, assignor to National Ring Corporation, Detroit, Mich., a corporation
Application April 22, 1941, Serial No. 389,781
5 Claims. (Cl. 206—76)

1. A locking ring display device comprising: a pair of spaced side walls; a display panel having a plurality of slots for receiving rings; a ring support member disposed below said display panel and having a plurality of orifices, said ring support member being disposed between said side walls; a locking element support plate disposed below the ring support member; a plurality of locking elements having the upper portions there-



of disposed above the ring support member, said locking elements penetrating the said orifices in the ring support member and having the lower portions thereof secured to said locking element support plate.

2,321,340
RUBBER ARTICLE AND METHOD OF MAKING SAME
Carl C. Waterbury, Chicago, Ill.
Application April 9, 1941, Serial No. 387,615
14 Claims. (Cl. 18—42)

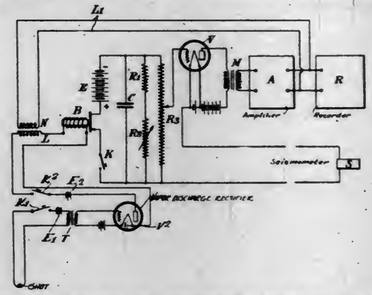


1. A mold for rubber articles comprising a member having a dome-shaped central portion, with a plurality of spaced annular grooves of progressively varying depth surrounding said central portion, said grooves being of generally rectangular cross section, and a coacting mold member having an open portion bridging said grooves.

10. The method of making a rubber product which consists of the steps of disposing coiled annular springs in a mold in radially spaced relation in a groove having a narrow channel extending therealong to form a rib on the molded article, filling the mold with rubber, removing the molded product, inverting it, and applying liquid rubber by fountain feed means, to the side of said product formed in said groove, to a thickness represented by the elevation of said rib.

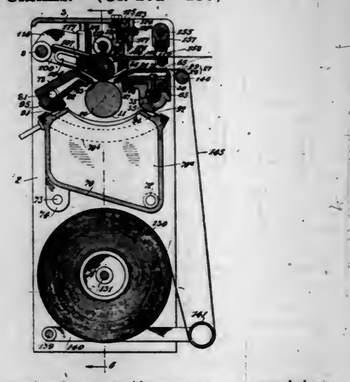
2,321,341
SEISMIC SURVEYING
Benjamin B. Weatherby, Tulsa, Okla., and William T. Born, Bloomfield, N. J., assignors to Geophysical Research Corporation, New York, N. Y., a corporation of New Jersey
Application May 26, 1933, Serial No. 672,996
16 Claims. (Cl. 177—352)

5. In seismic prospecting apparatus for receiving seismic waves, the amplitudes of which decrease as a function of time, means for converting said waves into electrical pulsations of corresponding magnitude and conducting said pulsations to a recorder responsive to the amplitudes of the pulsations, means associated with said recorder for initially reducing its responsiveness to said pulsations below its normal response and then increasing its response to said pulsations at a rate which is in substantially inverse proportion to the rate of decrease of the ampli-



tudes of said waves, whereby the amplitude of the recorded waves is maintained substantially constant.

2,321,342
PRINTING MACHINERY
Adolph Weiss, Brooklyn, N. Y., assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Original application June 2, 1938, Serial No. 211,325. Divided and this application October 25, 1939, Serial No. 301,114
11 Claims. (Cl. 101—157)

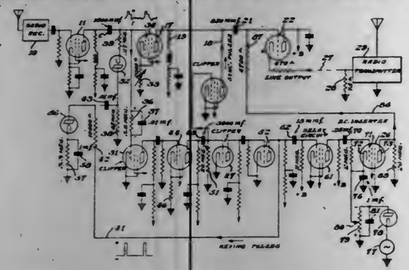


1. A rotary intaglio printing press comprising: a printing cylinder, means to rotate the cylinder, means to guide a web adjacent to the cylinder for contact therewith to print the same, means to control the contact of the web with the cylinder to effect printing only from preselected peripheral zones of the cylinder, and means to shift the selection to different zones of the cylinder.

2,321,343
TELEVISION SYSTEM
Karl R. Wendt, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 23, 1940, Serial No. 362,312
10 Claims. (Cl. 178—7.1)

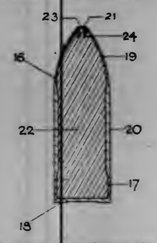
1. Picture transmission apparatus for the transmission of a composite signal comprising picture signals and periodically recurring synchronizing pulses, said apparatus comprising an input circuit for receiving said composite signal, means for applying direct current and low frequency correction to said received signal, means for adding to the synchronizing pulses of said corrected composite signal additional pulses to

increase the amplitude of the synchronizing pulses in the resulting composite signal to a value greater than is desired in the final signal, and



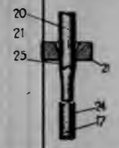
means for clipping off the tops of the synchronizing pulses in said resulting signal at a fixed level with respect to "black" in the picture.

2,321,344
PROJECTILE
Ernest G. Whipple, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application March 4, 1939, Serial No. 259,842
4 Claims. (Cl. 102—91)



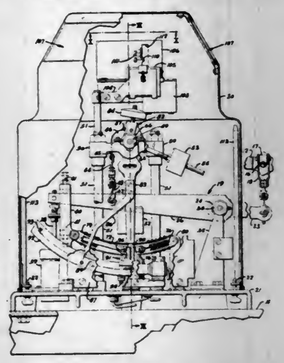
1. In a bullet, the combination of a relatively hard jacket with an interior portion of increased diameter near the base thereof, and a relatively soft metal core in locking engagement with the jacket, said jacket having an aperture at the nose of the bullet, the core terminating in a metal teat substantially flush with and spaced centrally of said aperture.

2,321,345
PROJECTILE
Ernest G. Whipple, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application December 16, 1939, Serial No. 309,567
2 Claims. (Cl. 29—1.23)



2. In the manufacture of serrated edge bullet jackets having an interiorly enlarged wall portion adjacent the base, a major wall portion of substantially uniform thickness and an interiorly tapered wall portion adjacent the serrated edge, the method of forming said jacket by passing a cup through a die comprising the successive steps of reforming said cup by exteriorly forming to size while stretching and thinning the wall adjacent the base to form an interior enlargement adjacent said base, forming an interiorly tapered wall portion adjacent the mouth of said cup while keeping the exterior diameter substantially unchanged, and forming serrations at the mouth thereof, all in a single pass through said die.

2,321,346
WEIGHING SCALE
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application December 9, 1941, Serial No. 422,293
7 Claims. (Cl. 265—27)



1. In a device of the class described, in combination, load counterbalancing mechanism including a pivotally mounted load responsive member, an arm pivotally mounted on said member, a transparent indicia-bearing chart adjustably mounted on said arm, means for projecting an image of said chart onto a screen, an elongated deformable member extending parallelly to the plane of movement of said load responsive member and said arm, means for deforming selected sections of said deformable member and means supported on said load responsive member operatively attached to said arm and engaging said deformable member for imparting movement to said arm relative to said load responsive member.

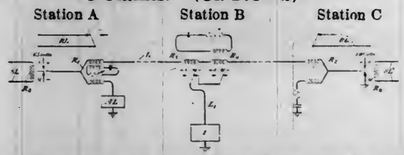
2,321,347
PHOTOGRAPHIC FIXING BATH
James R. Alburger, Merion, Pa., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application November 30, 1939, Serial No. 306,971
4 Claims. (Cl. 95—88)

1. A photographic fixing bath containing a solvent of silver salts, an alum, and sufficient alkali to dissolve the aluminum compound tending to be precipitated by the alkali.

2,321,348
PHOTOGRAPHIC DEVELOPER
James Reid Alburger, Merion, Pa., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application January 2, 1940, Serial No. 312,094
5 Claims. (Cl. 95—88)

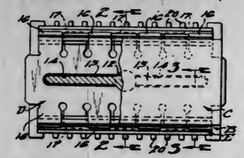
1. A photographic developer containing a developing agent, more than 100 grams of caustic alkali per liter of solution and alum to saturation.

2,321,349
TELEGRAPH SYSTEM
Russell Jacob Anspach, Westfield, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application December 24, 1940, Serial No. 371,564
3 Claims. (Cl. 178—2)



1. A telegraph system comprising two stations each of which includes a transmitting relay and a receiving relay, a polarential line circuit interconnecting said stations, an intermediate station connected to said line circuit, two relays at said intermediate station having windings in said line circuit so arranged that one of said relays will respond only to polar signals sent from the polar sending end of said line circuit and the other of said relays will respond only to signals sent from the battery and ground end of said line circuit, and signal responsive means controlled jointly by said relays.

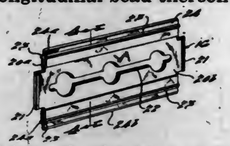
2,321,350
CUTTING IMPLEMENT
Frank J. Ardner, Highland Park, Mich., assignor to Leonard A. Young, Detroit, Mich.
Application April 11, 1940, Serial No. 329,045
2 Claims. (Cl. 30—70)



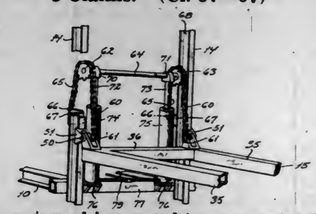
1. In a safety razor of the double edge type comprising a handle, a guard and a cap, the combination of a removable flexible razor blade holder adapted to be clamped between the guard and the cap, said razor blade holder having blade gripping means disposed at its opposite side edges, said gripping means at each of the side edges of the holder comprising a plurality of alternately offset spring fingers, each having off-set portions forming longitudinal guides adjacent the ends of said fingers, and a double edged cutting blade removably secured in each of said blade gripping means, said blades each having an enlarged central longitudinally extending rib integral therewith and equally spaced in parallel relation to each of the double edges of the cutting blade, said rib being adapted for engagement in the off-set portion in said spring fingers and held thereby in predetermined alignment relative to said guard and cap thereby preventing the dulling of the cutting edge not intended for use and permitting a ready removal of the cutting bit from the holder to change said cutting bit.

2,321,351
SAFETY RAZOR
Frank J. Ardner, Highland Park, Mich., assignor to Leonard A. Young, Detroit, Mich.
Application April 11, 1940, Serial No. 329,046
4 Claims. (Cl. 30—70)

3. A safety razor blade comprising spaced relatively resilient, longitudinally stiffened, clamping ways extending along each longitudinal edge of the body portion of said blade, and a relatively rigid, interchangeable cutting bit having an intermediate longitudinal bead thereon and removably secured in each of said ways by a resilient gripping contact between said ways and said intermediate longitudinal bead.

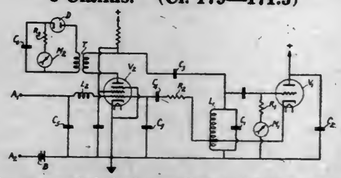


2,321,352
TRENCHING MACHINE
Albert R. Askue, Mentor, Ohio, assignor to The Cleveland Trencher Company, Cleveland, Ohio, a corporation of Ohio
Application August 9, 1941, Serial No. 406,158
5 Claims. (Cl. 37—97)



1. In a trenching machine, a main frame, a mobile support for said frame, upwardly extending guideway members carried by said frame, a supplemental frame slidably mounted for up and down movement on said guideway members, a digging unit carried by said supplemental frame, means to raise and lower the said supplemental frame, said means comprising a pair of upwardly extending hydraulic cylinders spaced transversely of the main frame, pistons carried by the respective cylinders, a pair of transversely spaced sprocket wheels, means drivingly connecting said sprocket wheels whereby they must rotate as a unit and means interconnecting the sprocket wheels with said cylinders to raise and lower said wheels, flexible drive chains extending from respective sides of the supplemental frame adjacent the inner end thereof upwardly over respective sprocket wheels and thence downward to points of securement fixed relative to the main frame.

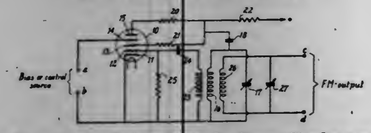
2,321,353
ELECTRICAL APPARATUS
David Arthur Bell, London, England, assignor to Radio Patents Corporation, a corporation of New York
Application March 18, 1942, Serial No. 435,162
In Great Britain March 31, 1941
8 Claims. (Cl. 179—171.5)



1. In a modulated oscillator of the type comprising a resonant oscillating circuit and at least one reactance control discharge tube operatively associated with said circuit for modulating the frequency of the oscillations produced, a modu-

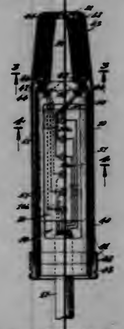
ation indicator comprising means for determining the peak value during the modulation cycle of the radio frequency output of said reactance tube.

2,321,354
ELECTRICAL APPARATUS
David Arthur Bell and Owen Hosmer Davie, London, England, assignors to Radio Patents Corporation, a corporation of New York
Application March 20, 1942, Serial No. 435,541
In Great Britain March 25, 1941
10 Claims. (Cl. 250—36)



1. In an oscillator, an electron discharge tube comprising a cathode, a first control grid, a screen grid forming a first output electrode, a second control grid and a second output electrode all arranged substantially in the order named, an oscillatory circuit operatively connected to said first grid and to both said output electrodes substantially in parallel relation for the oscillating output currents to generate sustained electrical oscillations, the non-common circuit portions from said output electrodes to said oscillatory circuit having substantially the same phase angle characteristics, and a source of variable control potential connected to said second control grid and cathode for varying the frequency of the oscillations produced.

2,321,355
SURGICAL PROBE FOR LOCATING FOREIGN METAL PARTICLES IN BODY TISSUE
Samuel Berman, Richmond Hill, N. Y., assignor to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application January 15, 1942, Serial No. 426,851
9 Claims. (Cl. 177—311)



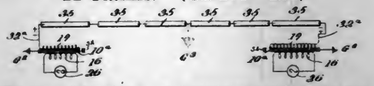
1. A surgical instrument which comprises a shell having an elongated portion of the size and shape of a surgical probe, said portion having a closed end and a smooth outer surface, a core extending longitudinally within said portion of the shell, a primary and secondary winding in inductive relation on the core, said windings having their axes extending longitudinally of said portion of the shell, means supporting the core and windings within said portion of the shell, and a cable entering the shell and containing conductors connected to the terminals of the windings.

2,321,356
LOCATOR
Samuel Berman, Richmond Hill, N. Y., assignor to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application June 2, 1942, Serial No. 445,451
15 Claims. (Cl. 177—311)
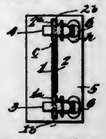


14. In a surgical instrument, a pair of windings consisting of a primary and a secondary winding in inductive relation, a second pair of windings consisting of a primary and a secondary in inductive relation and in axial alignment with and in proximity to the windings of the first pair, the primaries being connected in series and the secondaries being connected in series and in opposed relation, an enclosure for said pairs of windings having a portion serving as a handle and another portion of a size and shape to serve as a probe shell, and connections by which current can be supplied to the primaries and current flowing through the secondaries may be led away.

2,321,357
TRANSFORMER
Charles Philippe Boucher, Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application September 25, 1939, Serial No. 296,522
11 Claims. (Cl. 176—124)



9. In combination, a luminescent gaseous discharge tube load and transformers corresponding to respective ends of said tube load, each said transformer comprising, a core including a shunt core portion, a primary winding and a single secondary coil section mounted on the core in electrically independent relationship and having the shunt portions of the core located magnetically therebetween; each said secondary coil section having one end connected with a point of common potential and having second ends connected with the respective ends of said tube load.

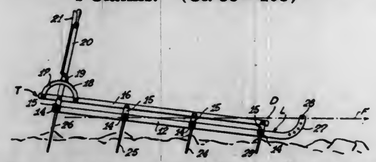
2,321,358
ART OF MOUNTING PIEZOELECTRIC CRYSTALS
Samuel A. Bokovoy, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1941, Serial No. 400,451
6 Claims. (Cl. 171—327)



1. In combination, a piezoelectric crystal having major and minor faces, a metal coating on each major face of said crystal and comprising a pair of electrodes therefor, said metal coatings extending over the edges of said crystal and partially covering the minor faces thereof, and means for applying a clamping force to said crystal contiguous only said extended portions of said metal coating, said clamping means comprising a

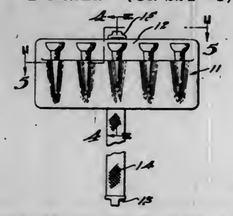
spring metal member which surrounds said crystal and is bowed outwardly out of contact with its said metal covered electrode and faces.

2,321,359
HARROW
Charles O. Challand, De Kalb, Ill.
Application August 4, 1941, Serial No. 405,303
4 Claims. (Cl. 55—103)



1. In a harrow comprising a frame having spaced side rails supporting a series of parallelly arranged crossbeams, the provision of harrow teeth for said crossbeams with the teeth on each of said successive crossbeams being substantially longer than the teeth on the preceding crossbeam whereby to dispose the line of pull on said frame at an angle with respect to said side rails, and means on the leading end of said side rails providing a tug line hitch at a point substantially horizontal to a plane struck through the center of gravity of said frame and parallel to said line of pull.

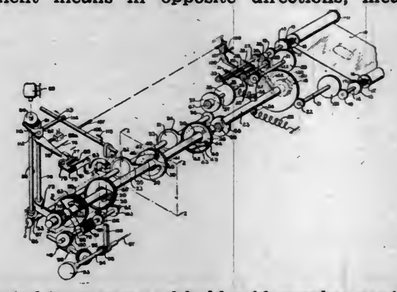
2,321,360
TEE CARRIER
Warren F. Chambers, Berkley, Mich.
Application July 5, 1941, Serial No. 401,095
1 Claim. (Cl. 224—5)



A golf tee holder including a base portion, resilient pockets on the outer face of the base portion for receiving tees with their axes at right angles to the top edge of the base, a hook secured to and projecting from the top edge of the base portion and adapted to engage the top edge of one side of a shoe, a resilient strap extending from the bottom of the base portion in alignment with said hook, and a hook on the end of the resilient strap, said strap being of a length to extend beneath the arch of a shoe with said strap hook engaging the top edge of the other side of said shoe.

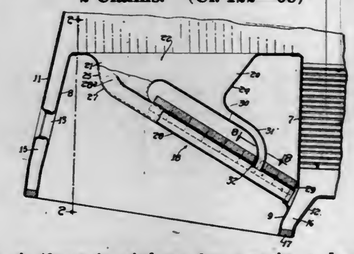
2,321,361
SHUTTER MECHANISM
Ralph R. Chappell, Richmond, Va., and Rutger B. Colt, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 7, 1940, Serial No. 322,718
20 Claims. (Cl. 95—57)

1. In apparatus of the class described, a shutter mechanism, means operatively connected to said mechanism and adapted to actuate the latter, said means comprising resilient means, a member connected to said resilient means, a pair of mechanisms associated with said member, means drivably connected to said mechanisms to rotate the latter in opposite directions, said mechanisms being adapted to alternately engage said member to successively tension said resilient means in opposite directions, means



adapted to engage and hold said member against movement after said resilient means are tensioned, and means operable to release said holding means to permit said resilient means to actuate said shutter mechanism.

2,321,362
THERMIC SIPHON
Gust J. Christenson, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a corporation of Delaware
Application May 20, 1940, Serial No. 336,162
2 Claims. (Cl. 122—68)

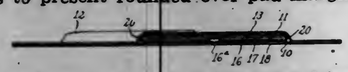


2. A thermic siphon for use in a locomotive boiler firebox embodying therein a flat elongated hollow body comprising spaced apart sides and ends formed to provide relatively deep front and rear compartments in communication with each other, the two compartments having a common discharge at the upper ends into the boiler, a downwardly and forwardly extending tubular inlet neck of substantial length and of a diameter greater than the space between the side walls of the body, the front and lower end of said neck being anchored in the inner front throat sheet and an inlet tube for the front compartment of substantially the same diameter as the space between the side walls of the body and extending in a generally curved downward and forward direction from the bottom of the front compartment and opening into the neck between the ends thereof.

2,321,363
ADHESIVE BANDAGE
Cornelius J. Crowley, New Haven, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application March 1, 1941, Serial No. 381,263
2 Claims. (Cl. 128—156)

1. An adhesive bandage comprising an adhesive-coated textile strip and a soft textile pad

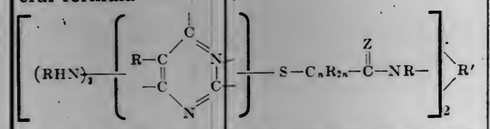
carried by the strip on the adhesive-coated side intermediate of the ends of the strip and attached to the strip by the adhesive material of the strip coating, the pad being formed of a plurality of superimposed layers folded under at their end edges to present rounded-over pad margins, the



strip and pad being of plain woven fabric and having their component thread elements directed at angles to the longitudinal axis of the strip so that both the strip and pad are stretchable to a substantial degree lengthwise of the bandage.

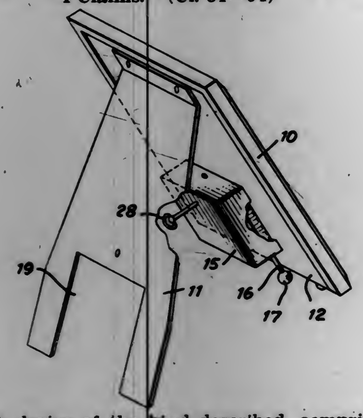
2,321,364
REACTION PRODUCTS OF ALDEHYDES AND DIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application November 14, 1941, Serial No. 419,178
20 Claims. (Cl. 260—72)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



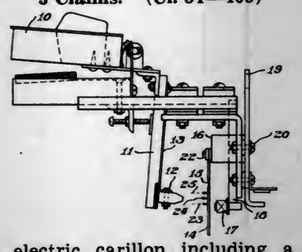
where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, and R′ represents a member of the class consisting of divalent hydrocarbon and halo-hydrocarbon radicals.

2,321,365
PICTURE FRAME
Maurice Darche, Brooklyn, N. Y.
Application December 24, 1941, Serial No. 424,260
4 Claims. (Cl. 84—94)



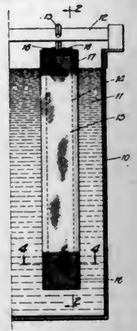
1. A device of the kind described, comprising in combination, a front frame, a hinged easel leg support for holding the frame in an inclined position on a table, a back slidably mounted in the frame and firmly secured in its guides against removal except by a force which is much greater than that of normal use, a music box mounted on said back, and a playing control member projecting from the music box immediately behind the front frame substantially parallel thereto for engaging the table when the frame and leg support are placed thereon, said support being open at the lower end to provide a two-point support and to embrace the music box to permit the leg to be folded flat against the back of the frame.

2,321,366
ELECTRIC CARILLON
Galan W. Demuth, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 20, 1940, Serial No. 370,936
3 Claims. (Cl. 84—405)



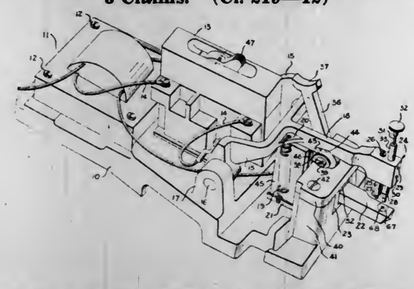
1. An electric carillon including a striking member, an assembly including a massive supporting member, a vibratable reed provided with a notch defining the pitch of its overtones and carried on said supporting member and a magnetic pickup carried in fixed relation to said supporting member, and means for bodily adjusting said assembly in relation to said striking member for changing the apparent pitch of the reed by changing the intensity ratios of the overtones.

2,321,367
ANODE BAG
Myron B. Diggin, Matawan, N. J., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey
Application December 27, 1939, Serial No. 311,075
3 Claims. (Cl. 204—279)



1. An anode bag comprising a tubular envelope of woven fabric permeable to liquid, said bag being closed at the bottom and open at the top, and the fabric of said bag being impregnated and coated with an impermeable inert and electrically non-conductive plastic throughout a band or zone extending entirely around and for a short distance down from the top of the envelope.

2,321,368
HEATING DEVICE FOR OPHTHALMIC MOUNTINGS
Donald Dodkin and Charles L. MacGregor, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application March 13, 1941, Serial No. 383,202
3 Claims. (Cl. 219—12)



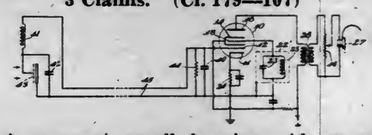
1. In a device of the class described having a supporting structure, a stationary arm comprising an electrode secured to said supporting structure, a metallic inset having an aperture therein disposed adjacent the free end of the stationary arm, a movable arm pivotally connected to said supporting structure, an electrode adjacent the free end of said movable arm being axially aligned with the aperture in the stationary arm inset, a lug carried by said supporting structure, a lever connected to said lug and having a stop pin thereon, and a camming surface on said movable arm for engaging the stop pin on said lever, said camming surface having a back stop portion and a camming shoulder, whereby movement of the lever to its operative position will align the movable arm electrode with the aperture in the stationary arm inset.

2,321,369
DROPPER
William Dubilier, New Rochelle, N. Y.
Application January 29, 1941, Serial No. 376,469
3 Claims. (Cl. 221—148)



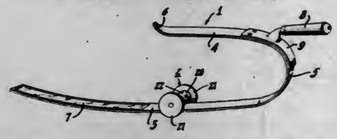
1. A dropper comprising a rigid tube, a collapsible bulb secured to one end of said tube, the opposite end of said tube being of restricted diameter and terminating in a spherical head, the restricted portion adjacent to said head being provided with at least one opening adapted upon compression of said bulb to cause a fluid in said tube to pass over the surface of and accumulate in successively discharged drops at the bottom of said head.

2,321,370
HEARING AID SYSTEM
William Dubilier, New Rochelle, N. Y., assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y., a corporation of New York
Application April 29, 1941, Serial No. 390,858
3 Claims. (Cl. 179—107)



3. A compact small hearing aid apparatus adapted to be worn inconspicuously; said apparatus comprising a condenser microphone having a pair of spaced electrodes movable relatively to each other in accordance with sound impulses impinged thereon to change the capacitance thereof; the electrodes of said microphone each having an effective surface area of the order of one square centimeter; a receiver member; a translation system connecting said microphone with said receiver; said translation system comprising an electron discharge tube having a directly heated cathode, a space charge grid adjacent to said cathode, an output electrode, a control grid and means for initially varying the electron space current to said output electrode at a predetermined high operating frequency, means for producing a concentrated electron space charge adjacent to said control grid, resonant impedance means including said microphone as an effective tuning element connected to said control grid and cathode to develop control potential at operating frequency upon said grid by capacitative coupling with said space charge, an output current connected to said output electrode, and means associated with said output circuit for utilizing energy varying in amplitude in proportion to said frequency relation, said last-mentioned means being connected to said receiver.

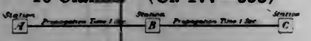
2,321,371
AMUSEMENT DEVICE
Richard C. du Pont, Wilmington, Del.
Application August 9, 1940, Serial No. 351,931
2 Claims. (Cl. 273—96)



1. In an amusement device, a tossing and catching stick comprising a U-shaped member having a comparatively long and substantially straight throwing arm and a comparatively short and substantially straight catching arm connected by a curved bight, the throwing arm being slightly concave inwardly and having friction material on its inner surface at its outer end, said throwing arm having some flexibility to obtain whipping action, said catching arm having an out-turned tip, a handle connected to said bight and comprising a stem substantially in line with said catching arm, a gripping portion freely rotatable on said stem; and a flanged

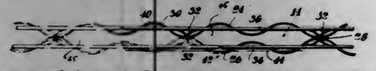
rotor comprising a drum portion adapted to roll on said member and a flange portion to engage an edge of said member whereby, when said handle is grasped, and the stick whipped through the air, the throwing arm trails the handle and the rotor is thrown from the throwing arm, said catching arm being adapted to catch said missile as it approaches the stick.

2,321,372
TELEGRAPHIC AUCTION SYSTEM
James Archibald Duncan, Ridgewood, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application June 4, 1942, Serial No. 445,763
16 Claims. (Cl. 177—353)



1. In an auction communication system, a plurality of stations each having a teletypewriter including a transmitter thereat, a circuit interconnecting said stations over which teletype communications may be carried on by means of said teletypewriters, a timing arrangement at each station, means associated with each teletypewriter responsive to a special code to set the timing arrangement in operation, a "bid" lamp arranged to glow while said timing arrangement is operating, a "sold" lamp at each station, means effective after said timing arrangement has operated for a predetermined period of time to extinguish said bid lamp and cause said sold lamp to glow, and means effective to disable said teletypewriter transmitter a predetermined interval before said timing arrangement has operated for its predetermined period of time.

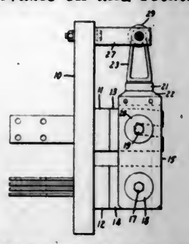
2,321,373
PLASTER BASE AND WALL CONSTRUCTION
Harry H. Eades, Pittsburgh, Pa., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application July 27, 1940, Serial No. 347,844
3 Claims. (Cl. 72—46)



1. A prefabricated curtain partition wall construction comprising two opposed relatively thin wavy sheets, each sheet carrying a plurality of spaced metallic wire members substantially parallel and penetrating waves of the sheet in such manner that the waves extend at opposite areas of the spaced metallic wire members, a plurality of spaced generally V-shaped metallic ribs secured to the wire members of each sheet, the ribs of each sheet facing the same way and certain of the waves of the sheet lying in abutment with the apexes of the ribs, the two sheets being so associated that the apexes of the ribs of one sheet are in register with the apexes of the ribs of the second sheet with wave areas of the sheets between said ribs, the wire members and areas of the sheets thus being held spaced to provide air chambers, and means securing the two sheets to each other.

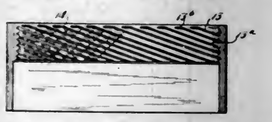
2,321,374
ELECTRIC SWITCH
Phillip M. Engel, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application February 5, 1942, Serial No. 429,623
7 Claims. (Cl. 200—169)

1. An electric switch comprising relatively movable cooperating contacts, two spaced supports extending from one of said contacts and means for locking said one of said contacts in a predetermined circuit controlling position comprising a shaft, means rotatably supporting said shaft on said supports comprising two locking members respectively rotatably mounted on said supports and axially movable on and rotatable with said
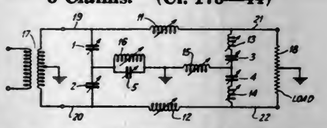


shaft, each locking member and the support on which it is mounted having cooperating means for effecting axial movement of the member relatively to the shaft upon rotation thereof and two stationary locking members positioned for locking engagement by said movable locking members upon rotation of said shaft while said one of said contacts is in the predetermined circuit controlling position.

2,321,375
THREAD-ROLLING DIE
Harvey C. Erdman, Shaker Heights, Ohio, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 18, 1942, Serial No. 451,450
5 Claims. (Cl. 80—9)



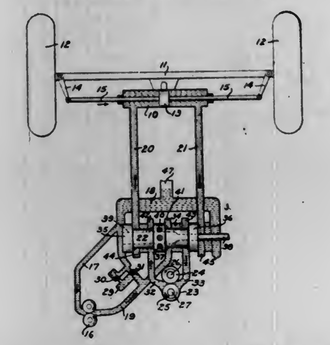
1. A thread-rolling die having a plurality of thread-forming grooves which extend diagonally across the die in parallel relation, said grooves at a predetermined distance from the edge of the die being turned laterally with respect to the main portions of the grooves.

2,321,376
FILTER FOR SUPPRESSION OF HARMONICS
James L. Finch, East Rockaway, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1941, Serial No. 396,097
8 Claims. (Cl. 178—44)



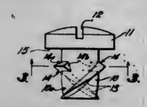
8. A low pass filter suitable for push-pull transmission of a given fundamental frequency, and having high attenuation properties with respect to certain harmonics of said frequency, said filter having an inductance in each of its two series conductors, reactances symmetrically arranged in each of two shunt circuits, the first of which is connected across the input terminals and the second across the output terminals, and a parallel resonant circuit connected to ground from a mid-tap on said first shunt circuit whereby the fourth harmonic component is dissipated to ground.

2,321,377
HYDRAULIC STEERING GEAR
Henry C. French, Elm Grove, Wis. assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application August 1, 1940, Serial No. 349,039
26 Claims. (Cl. 180—79.2)



1. In a vehicle steering system, a manually operated steering member, a source of liquid under pressure, a rotary pump operable by said manually operated steering member, a hydraulic steering motor, a valve operable to connect said manually operable pump to said source so as to cause the liquid under pressure to assist in actuating said pump and to subsequently actuate said steering motor and mechanical connections between the manually operated steering member and valve for operating said valve.

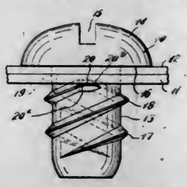
2,321,378
COMBINATION SCREW AND RIVET
Emmet M. Green, Los Angeles, Calif.
Application February 3, 1942, Serial No. 429,379
6 Claims. (Cl. 85—46)



1. A fastener of the character described adapted to be permanently secured within an opening in the work, comprising a stem carrying a V-thread permitting self-tapping rotational advancement of the stem through said opening from an outer surface of the work, and an arcuate shoulder on the stem engageable with an inner surface of the work to prevent reverse rotation of the stem out of said opening, said shoulder being formed on the stem as a continuation of said V-thread with substantially the same cross-sectional size and shape and extending at substantially zero pitch.

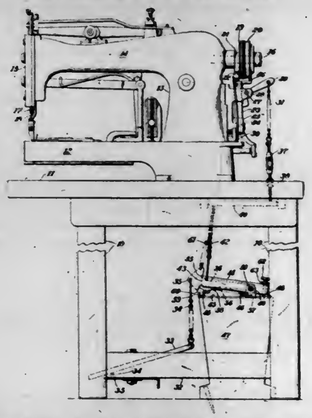
2,321,379
COMBINED SCREW AND RIVET
Emmet M. Green, Los Angeles, Calif.
Application November 3, 1942, Serial No. 464,347
7 Claims. (Cl. 85—46)

1. A fastener of the character described, comprising a stem, a head on the stem, and a thread on the stem having an end portion forming an



arcuate shoulder spaced from the head and inclined away from the head.

2,321,380
SAFETY DEVICE
Hans Hacklander, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 17, 1942, Serial No. 427,099
10 Claims. (Cl. 192—129)

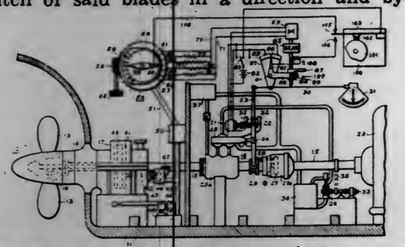


1. A safety device adapted to be used with a machine of the class described having operative mechanism and manipulative means for initiating the action of said operative mechanism, said safety device comprising, a stationary base member, first arm pivotally mounted upon said base member, one end of said first arm adapted to be connected to said operative mechanism, a second arm pivotally mounted upon said base member, one end of said second arm adapted to be connected to and moved by said manipulative means, spring actuated latching means for locking said first arm and said second arm together in starting position, and means to open said latching means at a predetermined period during the movement of said second arm.

2,321,381
PROPELLER CONTROL SYSTEM
John Hays Hammond, Jr., Gloucester, Mass.
Application September 23, 1941, Serial No. 411,943
6 Claims. (Cl. 170—135.6)

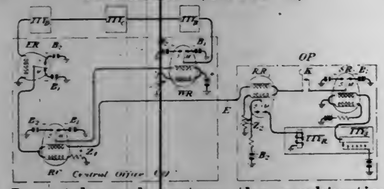
1. In a system for driving a vessel, a propeller having blades, means controlling the pitch of said blades, condition responsive means responsive to the amount of change of a condition of propulsion of said vessel, means integrating the change of said condition responsive means over a predetermined period of time, and timed means actuated after each of said predetermined periods of time and controlled by said integrating means

to cause said pitch control means to change the pitch of said blades in a direction and by an



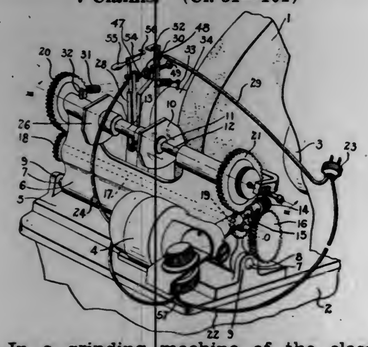
amount to compenaste for the integrated change of condition.

2,321,382
TELETYPEWRITER SWITCHING SYSTEM
Frank Harold Hanley, Butler, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application October 29, 1941, Serial No. 416,927
11 Claims. (Cl. 178—2)



1. In a telegraph system, the combination of a plurality of stations arranged in a round robin circuit, an outlying station connected by a single conductor to the round robin circuit, and means for sending signals from said outlying station over said single conductor and then over said round robbin circuit and back over said single conductor to said outlying station.

2,321,383
CONTOUR FORMING APPARATUS
Worthy C. Harper, Caldwell, Ohio, assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application September 28, 1940, Serial No. 358,887
7 Claims. (Cl. 51—101)

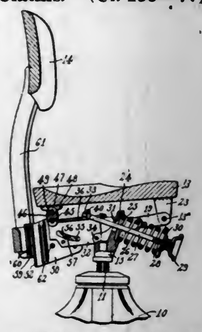


1. In a grinding machine of the class described having a rotatable grinding wheel, a pivotal frame member operable to and fro in relation to the periphery of the grinding wheel, a rotatable member carried by the pivotal frame having thereon a clamping device and a former, said clamping device and former being capable of simultaneous rotation by a gear train, a gear train for rotating said clamping device and former, a contact set positioning mechanism located adjacent said former and having a pair of contacts adjustable to different positional relation with each other with one of said contact members operable by said former, a motor having a control rheostat therefor serially connected with said contact set and a source of energy, and drive means permanently connecting said motor to said gear train.

2,321,384
COMPOUND FOR SEALING AND LUBRICATING RELATIVELY MOVING PARTS
Herman W. Hemker, Cleveland, and Robert C. Fuhrman, Mentor, Ohio, assignors to Arthur L. Parker, Cleveland, Ohio
No Drawing. Application March 31, 1941, Serial No. 386,178
4 Claims. (Cl. 252—36)

2. A lubricating and sealing composition for metal parts which must move in contact with gasoline, oil, water and like liquids, comprising 258 parts by weight of oxidized and polymerized blown castor oil, substantially 10 parts of neutral calcium soap of blown castor oil, substantially 35 parts of a neutral saponified mixture of carnauba wax and beeswax, and substantially 50 parts of fused lead stearate.

2,321,385
TILTING CHAIR
Walter F. Herold, Easton, Conn., assignor to The Sikes Company, Buffalo, N. Y., a corporation of Delaware
Application June 16, 1941, Serial No. 398,178
4 Claims. (Cl. 155—77)

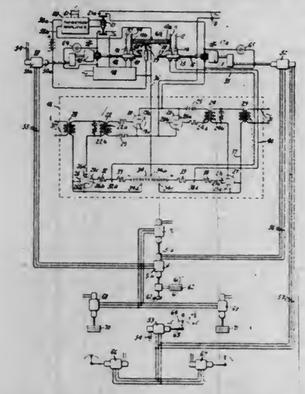


3. In a tilting chair, a frame adapted to be supported on a chair base and having a forwardly projecting part, a chair seat having a depending member adjacent the front edge by which it is pivotally supported on said forwardly projecting part, a short link depending from the seat adjacent the rear edge thereof, a lateral link pivotally connected at its rear portion to said first link and having a forward portion pivoted on said frame, a chair back operably supported from said second link so as to be carried thereby, and means for resiliently supporting and tensioning the articulated structure.

2,321,386
POSITION INDICATING DEVICE
Lowell L. Holmes, Jr., and Orrin W. Livingston, Scotia, N. Y., assignors to General Electric Company, a corporation of New York
Application October 5, 1942, Serial No. 460,888
16 Claims. (Cl. 33—125)

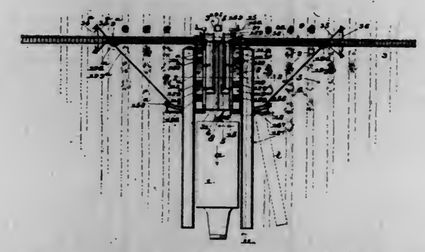
1. In a system for indicating the position of the

edge of an object of electrical conducting material subject to movement in the direction of its width, the combination comprising means for projecting a jet of electrical conducting fluid past the edge of said object in predetermined initial positional relationship with respect thereto, means



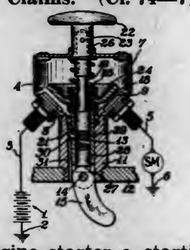
responsive to a change in the electrical conductivity between said jet and said object in response to a change in the position of said object for moving said jet to restore said initial positional relationship, and means for indicating the amount of said restoring movement.

2,321,387
PINEAPPLE HARVESTER
Kermit J. Jackson, Honolulu, Territory of Hawaii
Application January 3, 1940, Serial No. 312,276
5 Claims. (Cl. 214—83)



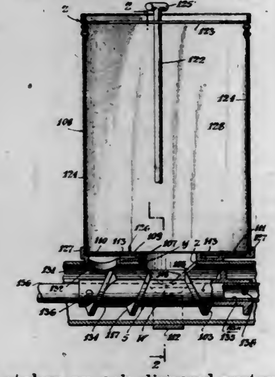
1. Harvesting apparatus comprising a mobile base, a gathering conveyor extending out from the base over a field of fruit for the delivery of the fruit to the base as picked, an independently powered truck having a coupling to the base for transporting the latter and its carried parts, said truck being adapted to carry containers both empty and loaded, a packing conveyor movably mounted on the base and adapted to be stationed lengthwise of and beside the base and truck assemblage, said conveyor including a belt, the respective runs of which are adapted to carry empty containers from the truck to the base and loaded containers from the base to the truck, at least one workman's station on the base supplemented with a roller table for facilitating the handling of the containers both while empty and loaded, means for transporting the fruit from the gathering conveyor to the packing conveyor, and means for adjustably swinging the packing conveyor on its movable mount so as to variously station it in reference to the truck.

2,321,388
ENGINE STARTER
Burr W. Jones, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 27, 1942, Serial No. 428,350
7 Claims. (Cl. 74—7)



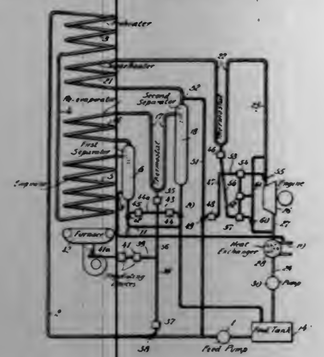
1. In an engine starter a starting circuit including a motor and a starting switch, a screw shaft driven by the starting motor, a pinion having a threaded connection with the screw shaft, a detent for the pinion, and means for closing the starting switch and concurrently moving the detent into engagement with the pinion, said means including means whereby movement thereof beyond the switch-closing position causes retraction of the detent from the pinion.

2,321,389
ASH DISPOSAL APPARATUS FOR STOKERS
Fred G. Julyan and William M. Schweickart, Euclid, Ohio, assignors to Pocahontas Fuel Company Incorporated, New York, N. Y., a corporation of Virginia
Original application August 3, 1940, Serial No. 350,500. Divided and this application March 21, 1941, Serial No. 384,468
12 Claims. (Cl. 110—165)



1. In a stoker an ash disposal system comprising a substantially horizontal ash duct receiving ashes at one end and discharging them at the other end through a discharge outlet in the top of the duct, a support for an ash can adjacent said discharge outlet, an ash can removably and replaceably mounted on said support and having a lower end with an opening therethrough, a passageway leading upward from said ash duct discharge outlet and discharging upward into said opening of said ash can, and a conveyor moving within the ash duct and forcing the ashes upward through said outlet passageway and opening and into the ash can to fill the latter by the introduction of ashes from below the top level of the ashes already therein.

2,321,390
FLOW-THROUGH TUBULAR STEAM GENERATOR
Viktor Juzi, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application December 12, 1939, Serial No. 308,770
In Switzerland December 13, 1938
7 Claims. (Cl. 122—1)



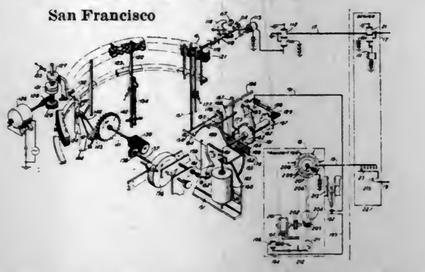
1. In a flow-through tubular steam generator which comprises a tube system including an evaporator and a superheater, a first separator connected in the evaporator, a conduit provided with a throttling device for carrying off injurious components of the feed water, a second conduit connected to the first separator for discharging liquid, a second separator for drying the steam connected at the beginning of the superheater, a conduit for the discharge of condensate from the second separator, a regulating valve in the second conduit and another regulating valve in the discharge conduit connected to the second separator, a device responsive to the temperature of fluid entering the second separator, and means operatively connecting the device responsive to temperature to each regulating valve.

2,321,391
CLAMP
Clifford J. Kamin, Chicago, Ill., assignor to Reflector Hardware Corporation, Chicago, Ill., a corporation of Illinois
Application March 19, 1942, Serial No. 435,289
4 Claims. (Cl. 24—81)



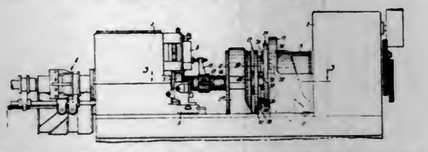
1. A clamp for clamping together angularly disposed panels, comprising a clamp plate having a side member formed with two flat flanges which extend rearwardly therefrom at right angles to each other, a clamp block having two flat sides extending at right angles to each other and paralleling said flanges, said two sides of the clamp block and said two flanges of the clamp plate forming two panel receiving grooves that extend at right angles to each other, a diagonally extending obliquely disposed flange on the clamp plate on which the clamp block rides and is moved toward the two flanges of the clamp plate, and a screw connection between said clamp plate and clamp block adapted to move said clamp block towards the flanges of the clamp plate, whereby to clamp angularly disposed panels between said flanges and the clamp block.

2,321,392
TELEGRAPH STATION BREAK-IN SYSTEM
Arthur William Kaufman, San Francisco, Calif., assignor to American Telephone and Telegraph Company, a corporation of New York
Application September 20, 1941, Serial No. 411,682
24 Claims. (Cl. 178—4)



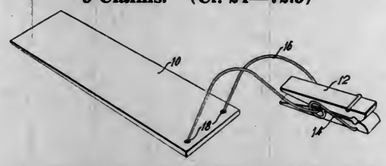
1. In a telegraph system, a station having a telegraph receiver and a telegraph transmitter, another station having a telegraph receiver and a telegraph transmitter, a communication channel connecting the transmitter of each station to the receiver of the other station for simultaneous two-way transmission, a third station associated with said channel intermediate the first-mentioned stations having a telegraph transmitter for transmitting telegraph signals to the receiver at one of the stations and having a telegraph receiver for receiving telegraph signals from the transmitter at said one station, means at the intermediate station for interrupting transmission to the receiver at the station to which said intermediate station is arranged to transmit, means operated by said receiver in response to the interruption of transmission for conditioning its associated transmitter to transmit a predetermined signal repetitiously, and means controlled by the receiver at the other end of the channel responsive to the predetermined signal for disabling the transmitter associated therewith.

2,321,393
MACHINE TOOL
Elmer E. Kelley, Hartford, Conn.
Application September 22, 1939, Serial No. 296,105
21 Claims. (Cl. 29—43)



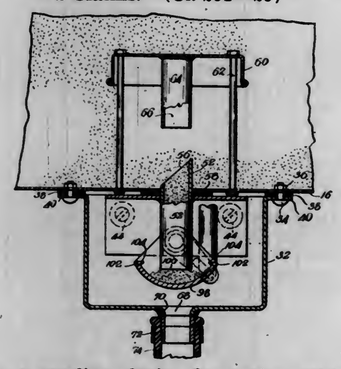
6. In a machine tool, turret indexing mechanism including a longitudinally reciprocable and rotatably mounted turret, a cam disc fixed to said turret, a rocking member pivoted on a stationary part of the machine, an indexing cam positively rocking said member in both directions, and cooperating longitudinally separable elements between said disc and rocking member for positively indexing said cam disc and turret as said rocking member swings about its pivot, said cam including a box portion, an oppositely disposed lobe, and a plurality of spaced cam teeth, and said rocking member carrying different rollers cooperating with said box portion and lobe and with said cam teeth.

2,321,394
BEDCLOTHES CONTROL
Alice C. King, East Orange, N. J., assignor to Hobar Sales Co., New York, N. Y., a copartnership consisting of Lawrence Hochheimer and Samuel J. Baril
Application January 31, 1940, Serial No. 316,494
3 Claims. (Cl. 24—72.5)



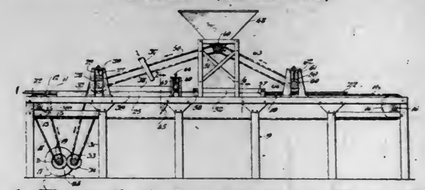
1. A device for maintaining bed clothes in position comprising, in combination, means adapted to be frictionally retained by bed elements when inserted therebetween, said means comprising a relatively rigid flat structure of such shape as to be readily insertable between bed elements, means for gripping only bed clothes, and highly flexible and flaccid linking means connecting the first and second mentioned means, said flat structure presenting sufficient flat substantially unobstructed surface portions to provide friction to overcome the normal pull exerted by the gripped bed clothes whereby elements for attaching said flat structure to said bed elements may be dispensed with, said flat substantially unobstructed surface portions being small compared to the surface of the bed clothes to be gripped whereby such friction may be overcome by a greater than normal pull exerted by a user upon said bed clothes.

2,321,395
SANDING DEVICE
Royden C. Kirk, Medford, Mass., assignor to Sandolator Corporation, Boston, Mass., a corporation of Massachusetts
Application March 10, 1941, Serial No. 382,482
2 Claims. (Cl. 291—29)



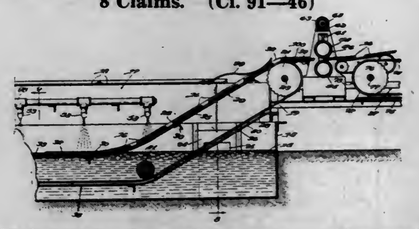
2. In a sanding device for motor vehicles, a sand receptacle, a tubular outlet leading vertically downward from said receptacle, a rockable shaft mounted for movement about a horizontal axis which passes through the lower end of said tubular outlet, a cup-shaped valve member carried by said shaft and arranged to swing beneath the lower end of said outlet to cut off the flow of sand from said receptacle, the side edges of said valve being above the bottom of said tubular outlet when the valve is in closed position, means fixed to said valve member adapted to seat against one side of the lower end of the tubular outlet when said valve is in closed position, and means fixed to the opposite side of said tubular outlet against which said valve member is adapted to seat when in closed position, said means cooperating to provide a closed chamber about the bottom of the tubular outlet when the valve is in closed position to prevent the shaking out of the sand from the cup-shaped valve member, said valve being free to swing when said shaft is rocked to clear the bottom of the outlet tube and permit the unobstructed discharge of sand therefrom.

2,321,396
METHOD OF AND APPARATUS FOR MANUFACTURING BUILDING COVERING SHEET MATERIAL
Henry C. Koch, Chicago, Ill., assignor to Abbott Coburn, Chicago, Ill.
Application August 5, 1939, Serial No. 288,678
3 Claims. (Cl. 117—65)



1. The method of producing embossed adhesive coated sheet material which comprises embossing the sheet material by pressure exerted over the desired area of the sheet material only in a direction normal to the sheets to produce the desired design, and thereafter subjecting the sheet material to pressure for pressing down such portions of the coatings on the sheet material as may have been displaced outwardly beyond the level of the coated face of the sheet material in the embossing operation.

2,321,397
WATERPROOFING APPARATUS
Henry C. Koch, Chicago, Ill., assignor to Abbott Coburn, Chicago, Ill.
Original application December 18, 1939, Serial No. 309,896. Divided and this application April 9, 1941, Serial No. 387,724
8 Claims. (Cl. 91—46)

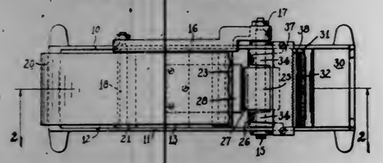


7. Apparatus for applying waterproofing material to boards, blocks, or the like, of fibrous material, comprising, in combination: a tank for a bath of hot waterproofing material; endless conveyor means comprising a plurality of sprocket chains; sprocket wheels at the respective ends of the tank above the level of the bath therein about which sprockets said chains travel; means guid-

ing the intermediate portion of the upper run of said chains to travel below and adjacent the upper surface of the bath for a substantial distance in a substantially horizontal path, and down to and up from said intermediate position at the ends of its run; pusher means to act on articles lying freely on said chains during such ends of its run, to propel the articles along and freely floating on the bath during at least the initial portion of their contact therewith; whereby to lower said articles into contact with the bath and to elevate said articles out of such contact at the respective ends of the tank.

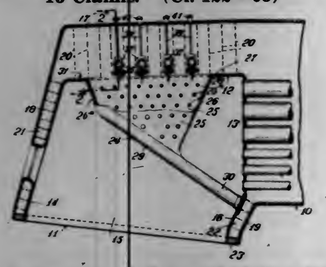
8. The structure of claim 7 with means to totally submerge the articles during the latter portion of their contact with the bath.

2,321,398
TAPE SERVING MECHANISM
Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Original application August 4, 1939, Serial No. 288,286. Divided and this application July 21, 1942, Serial No. 451,777
5 Claims. (Cl. 91—14.5)



1. A tape-moistening device comprising a frame, means thereon for supporting a roll of tape, a water receptacle carried by the frame, a moistening element projecting from the receptacle, means to guide a strip of tape from the roll to the moistening element comprising a roller positioned adjacent said receptacle, a guide lip formed integrally with the receptacle, said roller having reduced end portions, and said guide lip extending over said end portions to span the space between the receptacle and the upper portion of the roller.

2,321,399
LOCOMOTIVE BOILER
Bert E. Larson, Park Ridge, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a corporation of Delaware
Application April 7, 1941, Serial No. 387,254
13 Claims. (Cl. 122—68)

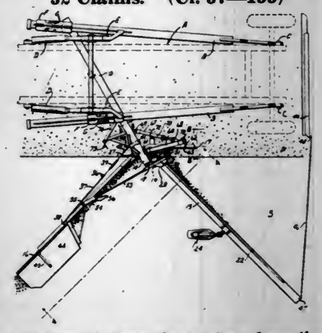


1. A locomotive boiler embodying therein a wrapper sheet, a firebox in said boiler and including a crown sheet spaced below the wrapper sheet, a water steaming and circulating element in the firebox having a discharge end opening through the crown sheet, a member operatively connected at one end to the wrapper sheet and extending toward the crown sheet, a device having a lower portion disposed in and fixed to opposite sides of said element and having an upper portion disposed above the crown sheet, and means connecting said upper portion of said device to the other end of said member and including a pivotal connection, the axis of said pivotal connection being disposed in a plane other than parallel with the axis of said member.

2,321,400
VITAMIN CONTAINING COMPOSITION AND METHOD OF MAKING THE SAME
George Henry Lubarsky, New York, N. Y., assignor, by mesne assignments, to Vitamol Company, New York, N. Y., a partnership composed of J. Ginzberg, A. G. Golodetz, and L. Eliash
No Drawing. Application October 12, 1938, Serial No. 234,623
13 Claims. (Cl. 167—81)

9. A vitamin composition comprising an oily material containing vitamins A and D, emulsified in molasses.

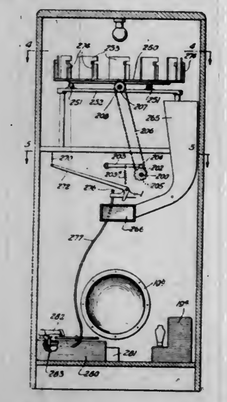
2,321,401
HIGHWAY SHOULDER GRADER
Le Grand H. Lull, Minneapolis, Minn.
Application April 17, 1941, Serial No. 388,940
32 Claims. (Cl. 37—155)



1. A grader of the character described, comprising the combination with a wheeled frame, of front and rear moldboards supported on the frame and disposable in forwardly and rearwardly angled working positions respectively, the said moldboards being foldable forwardly and rearwardly about inner end pivot connections, means for adjusting the angle of one moldboard, and means connecting the moldboards to cause corresponding folding movements of both in response to adjustment of said one moldboard.

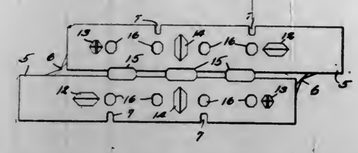
2,321,402
AUTOMATIC VENDING MACHINE
Morris J. Margulis, Philadelphia, Pa., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application October 23, 1937, Serial No. 170,521
2 Claims. (Cl. 274—15)

2. In a device having coin-controlled mechanism, and phonograph mechanism including a normally inoperative tone arm, electrically actuated timing means for periodically effecting engagement of said tone arm with a record to play the same, and means operable upon completion of the playing of said record for moving said tone arm out of engagement therewith and returning the same to normal position; means operable in response to the initiation of operation of said coin-controlled mechanism and throughout the operation thereof for rendering said timing means ineffective, and means operable in response to the operation of said last means, even though the



playing of said record has thus been interrupted, to effect operation of said means for returning the tone arm to normal position, prior to completion of the playing of said record.

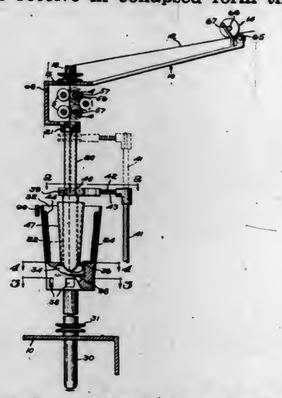
2,321,403
BRICK UNIT
Laurence B. McCabe, Waverley Hills, Ky.
Application March 19, 1941, Serial No. 384,191
1 Claim. (Cl. 72—38)



As a new article of manufacture a brick unit comprising an elongated body having angle ends, bevelled enlargements formed on its upper surface, said enlargements having bevelled sides and end surfaces, said enlargements having right angularly disposed grooves, said body being provided with enlargements formed on its lower surface and having bevelled sides and end surfaces adapted to fit into the grooves of the first-mentioned enlargements when the units are laid one upon another in the construction of a wall, and said body provided in said angle ends between its top and bottom surfaces with socketed enlargements for receiving in spaced relation abutting units.

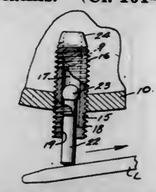
2,321,404
STRAND SPINNING AND TWISTING MECHANISM
John J. McCann, Lowell, Mass., assignor of forty-nine per cent to Lawrie L. Witter, Boston, Mass.
Application June 26, 1941, Serial No. 399,836
21 Claims. (Cl. 57—51)

1. Twisting mechanism comprising a fixed strand receiving and guiding tube, a spinning pot below the tube in position to receive a strand therefrom, a second tube arranged for longitudinal reciprocation over the strand exit end of the first tube, and means for removably supporting on the second tube and within the pot a tube adapted to receive in collapsed form thereon a



cheese formed centrifugally from a strand passing through the tubes and into the pot.

2,321,405
LETTER STOP
Leroy F. McFarlane, Arlington, Va., and William A. Keyes, Memphis, Tenn., assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn., a corporation of Delaware
Application March 11, 1941, Serial No. 382,686
3 Claims. (Cl. 101—242)

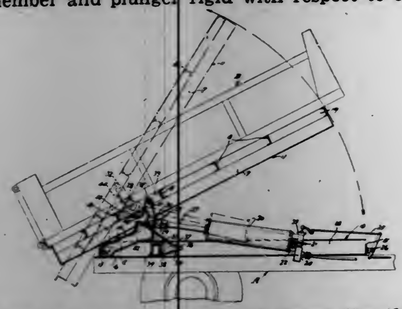


3. In a device of the character described, the combination with a rotary printing drum; of a pendant, a supporting sleeve mounted within the drum and having the lower end thereof projecting from the lower surface of the drum, said pendant comprising a shank having a ball shaped head supported within said sleeve with the shank end projecting, said sleeve having a diametrically disposed slot in the lower end thereof, whereby said projecting shank may move angularly, and means including one wall of said slot, whereby angular motion of the shank is obstructed in one direction.

2,321,406
DUMP TRUCK HOIST MECHANISM
Donald R. Merchant, Minneapolis, Minn., assignor to St. Paul Hydraulic Hoist Company, Minneapolis, Minn., a corporation of Michigan
Application February 5, 1942, Serial No. 429,620
7 Claims. (Cl. 298—22)

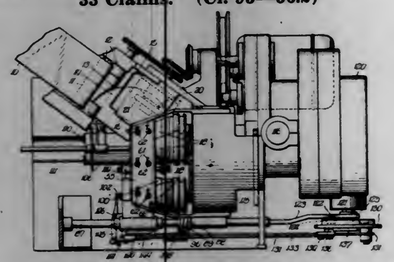
1. In a dump truck hoist for swinging a truck body upwardly about its pivot connection with the truck frame, comprising a hoist mechanism having a plunger connected to the body and adapted to exert thrust forces in a direction extending toward the pivot connection of the body, a link member connected at its ends between the plunger and body, cam means on the frame having a cam surface operative for guiding said plunger upwardly as it initially moves toward said pivot connection and transmitting said

thrust forces through the link member upwardly to the body, and means for rendering the link member and plunger rigid with respect to each



other to transmit said thrust forces directly to the body when the plunger clears the said cam means.

2,321,407
CUP-MAKING MACHINE
George M. Merta, Los Angeles, Calif.
Application August 30, 1940, Serial No. 354,781
33 Claims. (Cl. 93—36.2)

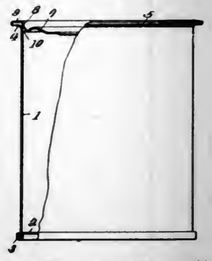


1. In a cup-making machine, a cup-forming mandrel having gripping means associated therewith, feeding means arranged for feeding a blank to said gripping means to be formed into a cup on said mandrel, said feeding means including a hinged blank supporting guide member for directing said blank to said gripping means, and means for swinging said guide members into and away from blank supporting position.

9. In a cup-forming machine having a translatory path for cup-forming mandrels, including a rotatable wheel member, a flexible endless carrier member operatively mounted for advancing movement around said wheel member, a plurality of spaced cup-forming mandrels mounted on said carrier member, for successive translatory movement around said wheel member and a plurality of spaced forming members mounted on said wheel member for successive contact with successive mandrels as they pass therearound.

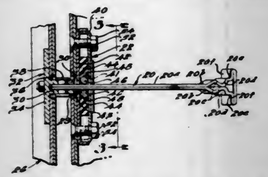
2,321,408
SHEET-METAL CONTAINER
John Mills and Charles W. Lang, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application October 30, 1941, Serial No. 417,196
2 Claims. (Cl. 220—67)

1. A sheet metal container comprising a body portion and cover and adapted to be seamed thereto for closing and sealing the container, said cover end having a central depressed portion surrounded by a vertical wall adapted to fit within the body portion of the container, said vertical wall of the cover end having at spaced



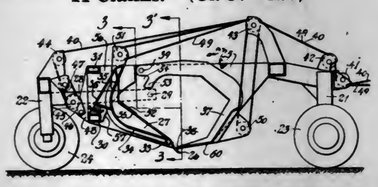
intervals inwardly curved portions providing channels through which gases may pass into and out of the container.

2,321,409
DOOR CHECK
Raymond G. Moore, Grosse Pointe Farms, Mich., assignor to National Stamping Company, Detroit, Mich., a corporation of Michigan
Application May 17, 1937, Serial No. 143,097
3 Claims. (Cl. 16—85)



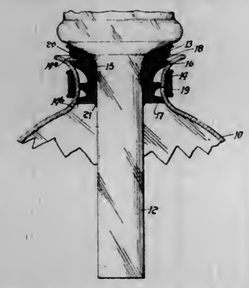
1. A door check comprising a rigid bracket and a member movable relative thereto through an opening therein, a pair of rollers rotatably mounted in said bracket, resilient means urging respective rollers into contact with opposite sides of said movable member, said movable member having a rigid head on its extremity larger than the opening in said bracket, and said movable member having opposed diverging surfaces terminating at said head, the space between said surfaces at said head being substantially greater than the normal space between said rollers.

2,321,410
SCRAPER
George W. Mork, South Milwaukee, and Leo P. Baranowski, Cudahy, Wis., assignors to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Application December 1, 1941, Serial No. 421,210
11 Claims. (Cl. 37—126)



8. In a carry type earth-moving scraper, having: ground supports; a main frame, including side plates; a transverse digging blade carried by the main frame, said main frame being capable of being raised and lowered; means for raising and lowering the main frame; a dirt-retaining bucket, pivoted to the main frame adjacent the blade, and capable of tilting forwardly and upwardly to dump; a dirt-retaining apron, pivoted to the main frame at a high rear point thereon; and capable of tilting upwardly to dump; and means to thus tilt the bucket and the apron; the upper portion of the bucket being inwardly offset from the side plates of the main frame, whereby, the bucket can clear the apron and its pivots and move forward beyond the pivots.

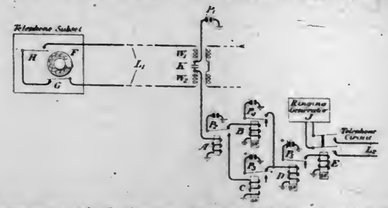
2,321,411
COFFEE BREWER
Normand W. Morse, Chicago, Ill., assignor to Hill-Shaw Company, Chicago, Ill., a corporation of Illinois
Application September 3, 1940, Serial No. 355,161
2 Claims. (Cl. 53—3)



1. A bushing for use on a funnel of a coffee brewer comprising an upper bowl having a funnel and a lower bowl provided with a neck having upper and lower flaring sections adjacent an intermediate portion of minimum diameter, said bushing being provided with upper and lower flexible sealing flanges, the lower flange being of a diameter greater than the minimum diameter of said neck and being deflectable from normal position in passing through said intermediate portion into the lower flaring section of the neck, said upper flange being of greater diameter than the minimum diameter of the neck and being deflectable from normal position by manually imparted downward movement of the bushing after said upper flange is in contact with the upper flaring section of the neck whereby the lower flange is released from contact with the lower flaring section sufficiently to enable the same to return to normal position by the force of its resiliency, said upper deflected flange exerting an upward thrust against the upper flaring section of the neck with which it contacts when the downward manually exerted force on the upper bowl has been terminated which elevates the upper bowl and the bushing a distance sufficient to cause the periphery of the lower flange to engage the lower flaring portion of the neck and deflect the lower flange in a direction opposite the direction of deflection of the upper flange.

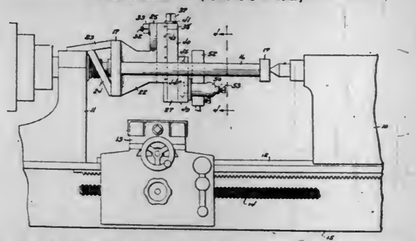
2,321,412
DIAL CONTROLLED SIGNALING SYSTEM
James T. Neiswinter, South Orange, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application December 23, 1941, Serial No. 424,106
6 Claims. (Cl. 179—84)

1. The combination of a dial operated telephone subset, a main relay, means responsive to the operation of the dial of said subset to operate said main relay, said means including two auxiliary relays having their respective windings supplied alternately with current during the operation of said dial to maintain said auxiliary



relays operated for a period of time which is determined by the number dialed.

2,321,413
PLANER AND SHAPER ATTACHMENT FOR LATHES
Raymond C. Palmer, Chicago, Ill.
Application July 28, 1941, Serial No. 404,409
4 Claims. (Cl. 90—24)



1. In a lathe having a traveling work vice, a head stock and a tail stock, a planer and shaper attachment comprising a stationary frame having parallel side bars and parallel end bars, said frame extending between the head stock and the tail stock, a spindle having an anti-friction bearing connected with one of the end bars adapted to engage the head stock, an arm projecting from the first mentioned bar adapted to engage the head stock and prevent rotation of the frame on its axis, there being a recess in the other end bar adapted to receive the tail stock, and tool carrying means connected to the first named end bar adapted to dispose a tool at various rectilinear and angular adjusted positions relatively to the work vice.

2,321,414
ART OF SEALING AND LOCKING THREADS
Arthur L. Parker, Cleveland, Ohio
No Drawing. Application March 31, 1941, Serial No. 386,209
4 Claims. (Cl. 85—1)

1. A coating upon a mechanical metal part for locking the same to another metal part when forcibly engaged therewith, comprising a coherent film of vinyl polymer resin and a layer of beeswax upon said film, said film and layer having the characteristic of assuring repeated assemblies and disassemblies while maintaining a high locking effect.

2,321,415
CONDUIT SYSTEM
Howard Frank Peltz, Millburn, and Gustav Herman Zieschang, Morristown, N. J., assignors to American Telephone and Telegraph Company, a corporation of New York
Application August 16, 1940, Serial No. 352,914
7 Claims. (Cl. 174—65)

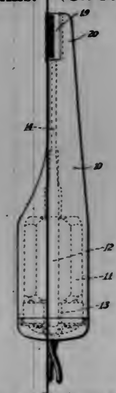
1. A conduit system including an outlet box,

a pair of conduits entering opposite sides of the outlet box, and an adjustable tubular member having two portions in telescopic relation to each other adapted to be extended between the oppo-



site sides of the outlet box in alinement with the conduits, said adjustable member having a flared portion at one end to engage the adjacent conduit and thereby to compensate for differences in diameters of the conduits.

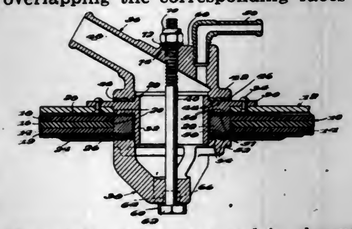
2,321,416
ROTARY HAIR CLIPPER
Robert L. Penney, Brooklyn, N. Y.
Application May 22, 1939, Serial No. 274,916
7 Claims. (Cl. 30—43.5)



6. In a shaving device a pair of relatively rotatable coaxial helical members having cutting edges, one being rotatable and fitting snugly within the other, the respective helices being substantially of the same pitch.

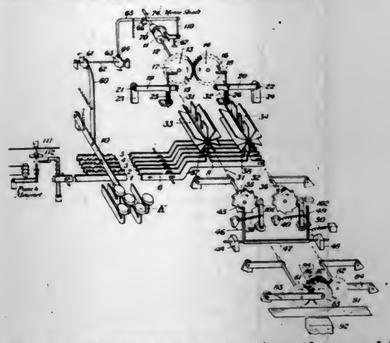
2,321,417
FITTING CONSTRUCTION FOR TANKS
Francis J. Pepersack, Towson, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application December 19, 1941, Serial No. 423,646
7 Claims. (Cl. 285—96.9)

1. In combination with a liquid fuel or lubricant tank cell comprising one or more layers of rubber-like material subject to cold flow and having an opening through the wall thereof, a ring of rigid material having approximately the unstressed thickness of the cell material subject to cold flow and closely fitted within the opening therethrough; flexible reinforcement layers secured to the inner and outer sides of the cell and overlapping the corresponding faces of the



ring; and rigid means arranged in clamping relation to opposite sides of the cell wall about its opening and effective only within the face areas of the ring.

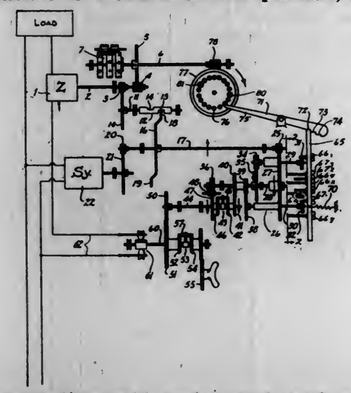
2,321,418
TELETYPEWRITER NUMBERING SYSTEM
Donald Burke Perry, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application June 5, 1941, Serial No. 396,642
8 Claims. (Cl. 164—112)



1. In a teletypewriter apparatus, the combination of means including a keyboard having a plurality of keys to be operated to perforate tape, and means responsive to the release of a predetermined key of said keyboard to perforate the tape in accordance with the Baudot code of a predetermined number, said means including a unitary device having a plurality of similar elements formed according to the codes of different numbers to be perforated in the tape, the elements of said unitary device being arranged so that the Baudot codes of said numbers are in consecutive order and means to displace said unitary device from its normal position and thereafter rotate said unitary device through a predetermined angle to expose a different element of said unitary device so as to perforate the tape in accordance with the code of the exposed element.

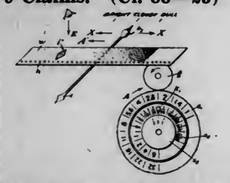
2,321,419
ELECTRICITY METER
Richard Pudelko, Zug, Switzerland, assignor to Landis & Gyr, A.-G., Zug, Switzerland, a body corporate of Switzerland
Application February 17, 1940, Serial No. 319,397
In Switzerland February 20, 1939
5 Claims. (Cl. 171—268)

3. A multi-tariff metering system for an electric power supply circuit comprising an integrating type meter for measuring the power consumed, a main switch for controlling the supply of power to said meter and having a cut-in and cut-out position, means for controlling said main switch, said controlling means having a predetermined operating range between a switch cut-out and switch cut-in positions corresponding to a predetermined base-tariff for said power, manual means for setting said controlling means to a switch cut-in position, a synchronous electric motor and gearing system connected to said controlling means tending to drive said controlling means to a switch cut-out position, means



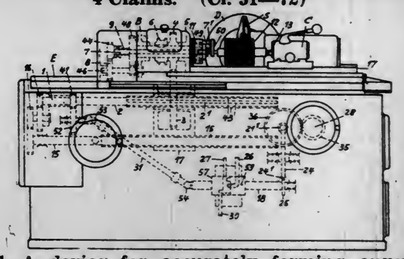
interconnecting said meter and said gearing system for controlling the flow of power through said gearing system in accordance with the metered power consumed and including a detent operated by said meter for stalling said motor at intervals corresponding to a predetermined consumption of power, said gearing system having a predetermined gear ratio corresponding to a predetermined tariff rate, and means controlled by the meter for changing said gear ratio to a different gear ratio to alter the tariff rate after a predetermined consumption of power as determined by the meter.

2,321,420
EXPOSURE DETERMINING DEVICE
Karl Rath, New York, N. Y.
Application April 21, 1942, Serial No. 439,827
9 Claims. (Cl. 88—23)



1. An extinction type visual exposure meter comprising a body, an elongated photometric wedge carried by said body and arranged to have one side thereof irradiated by light rays emanating from a photographic scene in the operative position of the meter, index means also carried by said body and arranged in the path of said light rays to produce a shadow test mark upon said wedge, when said wedge held at a distance from the observer's eye in the operative position of the meter is viewed in a direction opposite to said light rays, means for longitudinally moving said wedge relative to said body and past said index means, whereby the extent of displacement to cause said mark to become just barely visible is a measure of the scene brightness, exposure determining means carried by said body comprising adjustable means positively coupled to said wedge moving means, a stationary scale upon said body having graduations representing values of general lighting conditions, and further means in cooperative relation to said scale for adjusting the position of said index means relative to said body in the longitudinal direction of said wedge, to substantially compensate for the error in the final exposure adjustment due to the varying eye sensitivity under different general lighting conditions to which the eye is exposed, at least a portion of said wedge equal to the adjusting range of said index means being visible to the observer.

2,321,421
DEVICE FOR FORMING ANNULAR GROOVES
Alfred Rickenmann, Zurich, Switzerland; vested in the Alien Property Custodian
Application December 16, 1941, Serial No. 423,224
In Switzerland November 12, 1940
4 Claims. (Cl. 51—72)

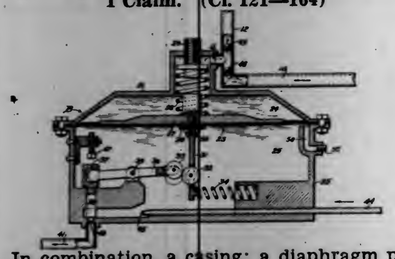


1. A device for accurately forming annular grooves and ridges on a cylindrical workpiece of the type described comprising in combination a grinding disk, means for rotating and for axially feeding the workpiece, rotatable cam means for effecting continuous axial feeding between the said grinding disk and the workpiece at the rate of one groove of the workpiece for at least one complete revolution thereof, means for holding the grinding disk and the workpiece axially relatively to one another during a complete revolution, so that during the said whole revolution the grinding disk and the workpiece remain axially stationary relatively to one another, spring means independent of said cam means for effecting an axial return movement of the workpiece relatively to the grinding disk for a distance equal to the said advance feeding means for permanently constraining said grinding disc to a cross-feed movement away from the work, and means for controlling said permanently acting means to cross-feed said disc at the end of one complete revolution of said work piece away from and towards the work piece.

2,321,422
ABRASIVE PRODUCT
Norman P. Robie, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Application August 17, 1940, Serial No. 353,065
7 Claims. (Cl. 51—298)

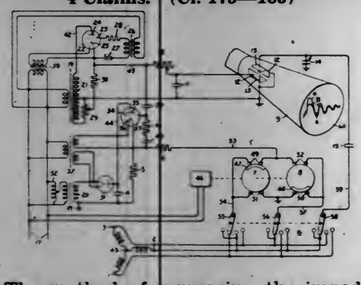
1. A coated abrasive article consisting of a backing and a surface layer of abrasive grains attached thereto by a binder comprising the water-soluble neutralization product of a water-soluble alkali and a polymer of a plurality of unsaturated monomers including an acrylic acid.

2,321,423
FLUID MOTOR
Henry T. Rogers, Athol, Mass.
Application March 11, 1940, Serial No. 323,309
1 Claim. (Cl. 121—164)



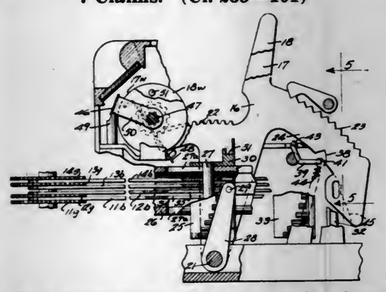
In combination, a casing; a diaphragm piston mounted within said casing so as to provide a motor chamber at one side thereof; a continuously open conduit of relatively small capacity communicating at its one end with said motor chamber and from which fluid under pressure is delivered into said chamber to move the piston in one direction; a spring for moving the piston in the opposite direction; an outlet for said motor chamber of substantially greater capacity than said continuously open conduit; a valve within said motor chamber for controlling said outlet, and means within said motor chamber through which said piston acts to open said valve abruptly when said piston reaches the limit of its movement under the influence of the fluid pressure, and through which said piston acts to close said valve abruptly when said piston reaches the limit of its movement under the influence of said spring, said last-mentioned means comprising a lever pivotally supported at its one end by said diaphragm piston and extending perpendicularly from the latter; a second lever pivotally supported intermediate its ends on said casing and disposed approximately at right angles to said first-mentioned lever, one end of said second lever being co-operatively associated with said valve and the opposite end thereof being co-operatively associated with said first-mentioned lever, and a second spring yieldingly urging said first-mentioned lever laterally against said second lever so as to rock the latter on its pivot to cause said second lever to operate said valve when said first-mentioned lever is moved endwise back and forth with said piston, and said first-mentioned lever being provided with a roll through which it acts upon said second lever.

2,321,424
TESTING OF ELECTRICAL WINDINGS
Nicholas Rohats, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 26, 1942, Serial No. 448,562
4 Claims. (Cl. 175—183)



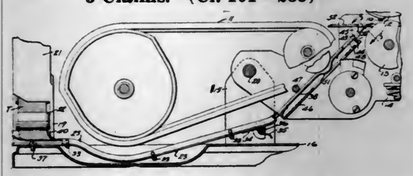
1. The method of comparing the impedances of a pair of presumably similar impedance devices which consists in impressing similar, steep wave front voltage surges across a pair of such impedances connected in series and alternately in opposite directions and comparing the surge voltages which appear at the interconnection between said impedances under the reversed conditions.

2,321,425
TOTALIZER ACTUATOR
Francis J. Rouan, Stamford, Conn., assignor to Pitney-Bowes Postage Meter Co., Stamford, Conn., a corporation of Delaware
Application January 11, 1941, Serial No. 374,075
7 Claims. (Cl. 235—101)



1. In a mechanism of the character described having totalizer wheels and totalizer mechanism embodying delayed transfer and actuator members; setting members for adjusting the totalizer actuators, one of said setting members being capable of being advanced beyond the maximum setting position of the other setting members, and means for preventing such latter setting unless the setting members for totalizer actuators of lower order are set at 0.

2,321,426
TAPE GUIDE
Francis J. Rouan and Frederick L. Ford, Stamford, Conn., assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn., a corporation of Delaware
Application February 8, 1941, Serial No. 378,018
3 Claims. (Cl. 101—235)

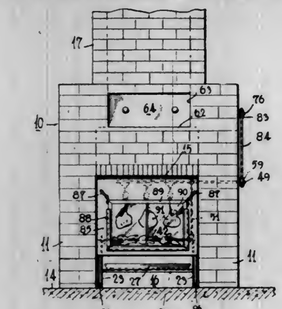


1. A tape guide, comprising an upper guide track and a lower guide track, one of said guide tracks being adapted to nest within the other guide track and being spaced apart to provide a tubular passage through which tape may freely pass, flanges projecting from the sides of each of said guide tracks and having coinciding notches spaced apart along the sides of one pair of coinciding flanges, and spring members having one end of each anchored on the opposite flanges and their opposite ends detachably engageable with the notched sides.

2,321,427
COOKING EQUIPMENT.
Robert Schelling, Easton, Pa.
Application January 21, 1942, Serial No. 427,643
2 Claims. (Cl. 126—14)

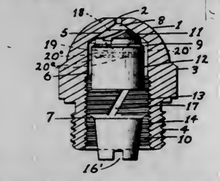
2. In combination, a masonry fireplace having

side walls, a rear wall, an open front formed by a cavity from which rises a chimney flue, and a ceiling in the cavity between the flue and the open front, means within the cavity and mounted on the rear wall for maintaining an open fire, a horizontally disposed rotatable spit arranged within the cavity forwardly of said means, supporting means depending from said ceiling, a horizontal shaft extending through the support-



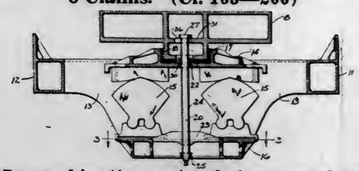
ing means, a vertically disposed foodstuff supporting member depending from the bottom of the supporting means and arranged immediately above the spit, power transmitting means for driving said member from said shaft, and means for simultaneously turning the spit and said shaft, whereby food supported by the spit and said member are rotated in front of the open fire.

2,321,428
NOZZLE
Ferdinand G. Schloz, Philadelphia, Pa.
Application April 25, 1939, Serial No. 269,849
2 Claims. (Cl. 299—120)



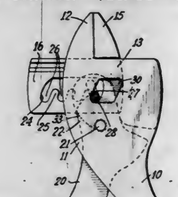
1. A sprayer comprising a hollow shell containing a spray orifice, and a body housed in said shell and having a forepart forming a conoidal face with its upper edge spaced from the longitudinal axis of the sprayer and its lower edge concentric with such axis, said body having surfaces complementary to and spaced from surfaces of said shell to form chambers including a swirling chamber discharging through said spray orifice, said face containing grooves and being positioned adjacent to a complementary surface of said shell to provide liquid supply ducts to said swirling chamber from another chamber aforesaid, the grooves in said face comprising a plurality of symmetrically disposed curved grooves and the curvature of the outer wall of each groove having a radius approximately equal to one-half the length of a straight line drawn from a point in the upper edge of said face, through said axis to a diametral point in the bottom edge of said face plus one-half the width of the groove; the center of curvature of such outer wall being at a point substantially midway the length of such straight line, and the outer curve of each groove substantially coinciding at its inner end with the wall of the swirling chamber so as to leave no open space between a jet emitted from such groove and the wall of the swirling chamber; and the inner wall of each groove having a curvature concentric with the curvature of the outer wall thereof.

2,321,429
KINGPIN ARRANGEMENT
John Edgar Smith, Springfield, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application April 2, 1941, Serial No. 386,492
8 Claims. (Cl. 105—200)



1. In combination, a truck frame and another frame supported thereon, said frames having vertically aligned openings, a king pin insertable substantially vertically through said openings for operatively connecting said frames, and said openings being adapted to allow said king pin to have radial movement into said operative position while said other frame is in its supported position on the truck.

2,321,430
PLIERS
Norman Smith, Bronx, N. Y.
Application March 9, 1940, Serial No. 323,066
3 Claims. (Cl. 81—50)



1. A tool comprising a pair of handle members pivoted together, a jaw integral with one of said handle members beyond said pivot, and having a guideway and a slot transverse to said guideway between the outer end of said jaw and said pivot, a slidable jaw sliding in said guideway, said slidable jaw being provided with a slot therein parallel to the guideway, and having teeth on the side thereof adjacent to said pivot and extending toward said jaw, a pin, and a slot in the other handle member in position to carry said pin and permit it to be moved between said teeth at the base thereof or over the ends thereof, said pin extending through all said slots to serve as a pivot between the base of said teeth and the base of said last mentioned slot.

2,321,431
QUENCHING NOZZLE
Howard E. Somes, Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application January 11, 1939, Serial No. 250,298
12 Claims. (Cl. 299—141)

7. A quenching nozzle for quenching an interior annular surface of determinate area when

such surface is spaced from the nozzle by a distance substantially in excess of that needed for removal of quenching fluid after its impingement on said surface, comprising a tubular member adapted to be inserted into the space surrounded by said surface and provided with ports so spaced circumferentially and axially as to cause quenching fluid to impinge directly from said ports simultaneously on substantially all of said surface, and means effecting a progressive decrease in the cross-sectional flow area within said mem-



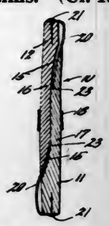
ber in the direction of fluid flow, the relative cross-sections of the ports and the quenching fluid flow area within the tubular member in the vicinity of each port being such that there is discharged through each port that quantity of quenching fluid per unit of time which equates the extraction of heat per unit of area per unit of time from that area upon which the stream from the port impinges with the extraction of heat from each other unit of area upon which streams from the other ports impinge.

2,321,432
METHOD OF QUENCHING HEATED SURFACES
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application July 7, 1942, Serial No. 450,035
2 Claims. (Cl. 148—19.9)



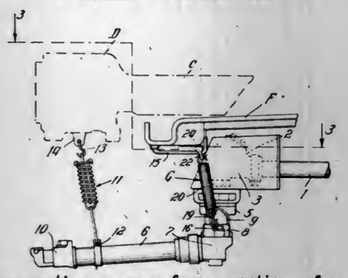
1. The method of quenching a heated surface which consists in separating a stream of quenching fluid into a plurality of separate streams, directing said streams against said surface from a distance substantially in excess of that needed for the removal of quenching fluid after its impingement on said surface, directing said streams simultaneously against the surface in such spaced relationship as to cause quenching fluid to impinge directly on substantially all parts of said surface with the center of each stream at the point of impingement substantially equally spaced from the center of each adjacent stream and controlling the quantity and velocity of said streams so that each stream delivers that quantity of quenching fluid per unit of time which equates the extraction of heat per unit of area per unit of time from that surface area upon which a stream impinges with the extraction of heat from each other unit of area upon which the other streams impinge.

2,321,433
HAIR CURLER
Henry P. R. Sommers, Wellesley, Mass.
Application November 25, 1942, Serial No. 466,890
14 Claims. (Cl. 132—33)



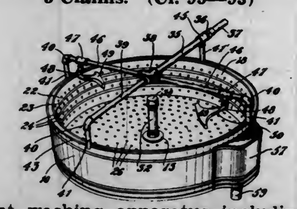
1. A hair curling implement comprising a substantially cylindrical rod having a slit cut in one of its sides and extending longitudinally of the rod, and resilient clamping means disposed within said slit and bearing outwardly of the axis of said rod against a wall of the slit, said clamping means comprising a leaf spring secured at one of its ends to an extreme end of said rod, entering said slit, and extending longitudinally therein toward the center of said rod.

2,321,434
SUPPORT FOR FLEXIBLE CONDUITS ON RAILWAY CARS
Emil Stenzel and John J. Yindrock, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application April 20, 1942, Serial No. 439,716
3 Claims. (Cl. 248—53)



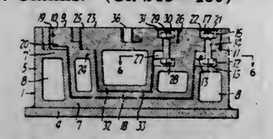
1. Supporting means for a section of a movable conduit, comprising a substantially vertically disposed link comprising an extensible spring, a plate fixed to the conduit, means for adjustably securing the lower end of the link to the plate, a trackway supported above and substantially in line with the path of movement of the conduit section, and means freely movable along the trackway and supporting the upper end of the link.

2,321,435
PHOTOGRAPHIC PRINT WASHER
Richey L. Swartz, Canton, Ohio, assignor of one-half to Kenneth B. Cope, Canton, Ohio
Application March 1, 1941, Serial No. 381,268
5 Claims. (Cl. 95—93)



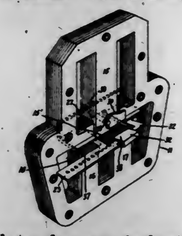
1. Print washing apparatus including a tub, a center post in the tub extending to a point near the top of the tub, a cup at the top of the center post, a ball in said cup, a tray comprising perforate bottom and side walls rotatable in said tub and having a center opening receiving said center post, a center tube fixed to the perforate tray and surrounding the center post, the upper end of the center tube being closed and supported upon said ball, a water supply pipe located radially above the tub and tray and extending to a point above the center of the tray, a spray nozzle pipe located diametrically above the tub and tray and connected at its center to the inner end of the water supply pipe, oppositely disposed, forwardly flared, downwardly inclined spray nozzles depending from said spray nozzle pipe on each side of the center thereof for delivering water tangentially into the tray for whirling the water therein and rotating the tray, a radially disposed rod connected to and alined with the water supply pipe, and depending legs upon the water supply pipe, spray nozzle pipe and rod and having forked lower ends for detachable engagement with the rim of the tub at four equally spaced points.

2,321,436
RAILROAD CROSSING AND SWITCH CONSTRUCTION
Vangel Theodos, San Francisco, Calif.
Application September 30, 1940, Serial No. 359,009
7 Claims. (Cl. 246—460)



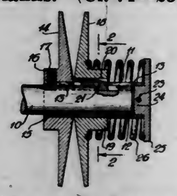
1. A track intersection structure comprising a main outer casting formed with an upwardly opening recess therein having lateral sides and a bottom; an inner casting fitted within said recess; means removably securing said inner casting in said recess; said inner casting being formed with an upwardly opening recess therein; a block removably fitted within said last mentioned recess; means removably securing said block in said last mentioned recess; the upwardly facing sides of said outer and inner castings and said block being substantially flush and respectively formed with aligned grooves providing continuing wheel tread supporting surfaces at one of the sides thereof respectively; said grooves intersecting at a point on said block whereby a frog is formed on said block; the means respectively securing said inner casting in the recess in said outer casting and securing said block in the recess in said inner casting comprising bolts respectively carried by said inner casting and said outer casting, and slots formed in said inner casting and in said outer casting supporting the bolts carried by said inner casting and said outer casting vertically for lateral movement into the said recess in said inner casting and into the said recess in said outer casting respectively.

2,321,437
LAG PLATE
Harold E. Trekell, Wakefield, Mass., assignor to General Electric Company, a corporation of New York
Application June 13, 1942, Serial No. 446,867
5 Claims. (Cl. 171—264)



1. A lag plate for an induction disk device having a potential pole and a pair of current poles, said lag plate being secured in nonadjustable fixed relation to said device and comprising a sheet of electrically conducting material with an opening therein to form a single turn closed electrical loop with an extending hairpin shaped portion provided with means for varying the resistance thereof by short circuiting the same at different points along such portion, said loop having sides sufficiently spaced for the loop approximately to span the potential pole, said sides being relatively broad and each extending along one of the current pole faces for lagging current flux and a portion of said loop carrying in inductive relation to the loop a magnetic circuit member having a negative temperature coefficient of permeability to provide temperature compensation.

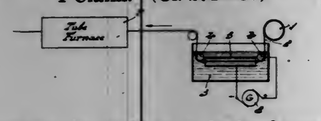
2,321,438
VARIABLE SPEED PULLEY
John Duke Tyler, Nashville, Tenn.
Application February 25, 1942, Serial No. 432,218
12 Claims. (Cl. 74—230.17)



1. In a variable speed pulley unit, a sleeve, said sleeve having an opening for alignment with the keyway of a shaft to which said sleeve is to be applied, a flange at one end of said sleeve, a screw stud threaded relatively to said flange and adapted to extend through said opening in the sleeve and into the shaft keyway whereby to fix said flange and sleeve to said keyway, a movable

flange slidably mounted on said sleeve, an abutment fixed to the end of said sleeve opposite said first flange, and a spring between said abutment and said movable flange for pressing said movable flange toward said first flange.

2,321,439
METHOD OF MAKING VITREOUS COATED BODIES
Evert Johannes Willem Verwey, Paul Christiaan van der Willigen, and Johannes Hoekstra, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 19, 1937, Serial No. 159,986
In the Netherlands September 26, 1936
1 Claim. (Cl. 204—37)

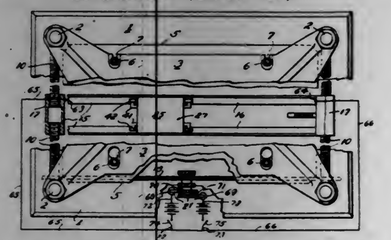


A method of making a body formed of a wound glassy-coated conductor, comprising the steps of suspending in a suitable medium finely-divided material adapted to form a glassy coating, electrophoretically depositing the suspended material in a thin layer on a flexible core, heating the coated core to form the glassy material into a flexible coherent coating, winding the flexible coated core to form the body, and heating the body to make the coating compact and place the glassy material in a vitreous state.

2,321,440
COMPOSITION OF MATTER AND PROCESS FOR MAKING THE SAME
Alger L. Ward, Drexel Hill, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application March 28, 1939, Serial No. 264,591
7 Claims. (Cl. 260—619)

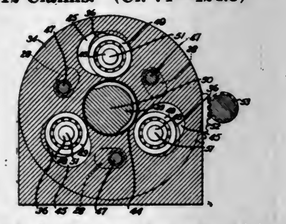
1. A process which comprises reacting a phenol with a light oil styrene fraction in the presence of a condensation catalyst, said fraction containing a plurality of unsaturated hydrocarbons and including styrene in an amount less than two thirds of said fraction, said light oil having been obtained by the pyrolysis of petroleum oil.

2,321,441
METHOD AND MACHINE FOR SURFACING METAL
George D. Webber, Cleveland, Ohio
Application June 30, 1941, Serial No. 400,453
20 Claims. (Cl. 90—38)



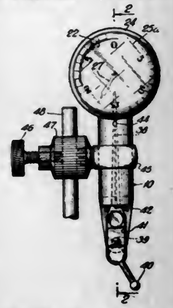
1. A metal surfacing machine having means to support work to be surfaced, means to support a cutting tool for movement over the work and means to move the supports relative to each other between cutting operations to change the operating region of the tool on the work, characterized in that the tool supporting means moves to and fro to drive the tool on its cutting stroke and supports the tool with its cutting edge at the end of a relatively long radius such that the tool operates to cut practically parallel to the work surface with successively overlapping cutting strokes.

2,321,442
COLLAPSIBLE ANTIFRICTION NUT
John C. Wilson, Springfield, Ohio, assignor to The Thompson Grinder Co., Springfield, Ohio, a corporation of Ohio
Application December 10, 1941, Serial No. 422,463
12 Claims. (Cl. 74—424.8)



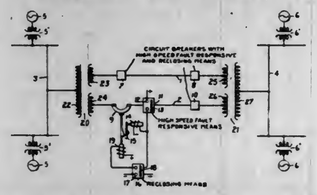
1. A clutch for a machine comprising a collapsible nut mechanism formed of a centrally positioned threaded rod portion and a surrounding nut portion formed of a plurality of grooved rollers, said rollers having parallel grooves extending at 90° with respect to the axes of the rollers and being adapted to engage and fit the threads of said rod portion, and means for simultaneously moving the rollers in and out of engagement with the threaded rod portion.

2,321,443
TEST INDICATOR
Christian J. Windfeldt, Stamford, Conn.
Application September 28, 1940, Serial No. 358,899
5 Claims. (Cl. 33—172)



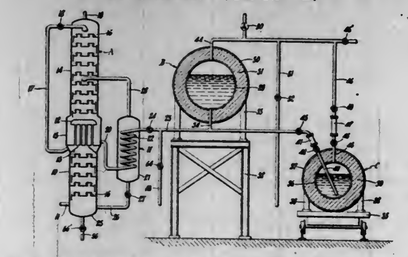
1. In an indicator of the class described, a main body substantially in the form of a tube, a measuring lever pivoted near the outer end of said tube with one end of said lever extending through said tube for movement in opposite directions from a central zero position, a spring biasing said measuring lever into said central zero position and resisting its movement in either of said opposite directions, a dial body mounted for rotation on the inner end of said tube, indicating mechanism in said dial body including an operating part lying over the axis of rotation of said dial body relatively to said tube in all rotated positions of said dial body, a pin slidable endwise in a bore formed in said dial body in the said axis of rotation of said dial body, and with the upper end of said pin in contact with said operating part while the lower end of said pin extends toward the inner end of said tube, a cam formed on the lower end of said pin and maintained engaged with said measuring lever whereby said pin has imparted thereto sliding movement by said measuring lever as said measuring lever pivots on said tube, and a second spring for pressing said cam against said measuring lever in all positions of said measuring lever.

2,321,444
ELECTRIC POWER SYSTEM
Charles A. Woodrow, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 8, 1942, Serial No. 454,129
7 Claims. (Cl. 172—237)



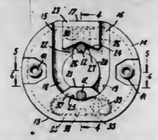
7. In combination, two synchronous alternating current systems, a tie line interconnecting said systems and comprising a pair of transmitting circuits, three-winding transformers arranged one at the respective terminals of said transmitting circuits and interconnecting said transmitting circuits and said systems, the overall leakage reactance of each of said transformers for equal division of current in said transmitting circuits being of the order of ten per cent and the overall leakage reactance of each transformer when one of said transmitting circuits is open circuited being of the order of two to six times as great, circuit interrupting means arranged one at each end of each transmitting circuit, and means arranged one for each of said circuit interrupting means and including high speed relaying means responsive to a fault within a certain portion of the transmitting circuit associated therewith for opening and quickly reclosing the associated interrupting means.

2,321,445
PROCESS OF AND APPARATUS FOR CONSERVING GAS MATERIAL
Edward F. Yendall and Henry C. Kornemann, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio
Application June 20, 1941, Serial No. 398,908
19 Claims. (Cl. 62—1)



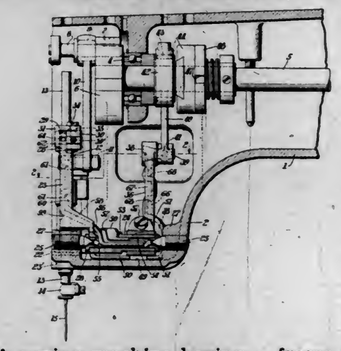
1. A process for conserving liquid oxygen produced by the rectification of air at low temperatures which comprises withdrawing a liquid having a substantial nitrogen content from the rectification; expanding such withdrawn liquid to a lower pressure; and effecting heat exchange between such withdrawn and expanded liquid and said oxygen product of the rectification to sub-cool said product to a temperature which is above the temperature of said expanded liquid and low enough to prevent vaporization of said liquid oxygen when passed into a receiving container.

2,321,446
LAMP HOLDER
William R. Young, Fairfield, Conn., assignor to General Electric Company, a corporation of New York
Application July 11, 1942, Serial No. 450,535
5 Claims. (Cl. 173—328)



3. A lamp socket for a lamp having spaced contact pins comprising, in combination, a housing of insulating material, one face of said housing having spaced parallel slots extending inwardly from one edge thereof and merging with a recess, a guiding member in said recess, spaced contact members carried by said housing on opposite sides of said guiding member, one of said contact members being located between said spaced slots and extending into said recess adjacent one side of said guiding member, the other of said contact members extending into said recess at a point with respect to said guiding member diametrically opposite said one contact member.

2,321,447
NEEDLE-VIBRATING MECHANISM FOR SEWING MACHINES
Sydney Zonis, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application July 8, 1942, Serial No. 450,104
7 Claims. (Cl. 112—213)



1. A sewing machine having a frame including a bracket-arm terminating in a head, an actuating shaft journaled in said bracket-arm and projecting into said head, a needle-bar, a needle carried thereby, means including a crank mounted on that portion of said actuating shaft

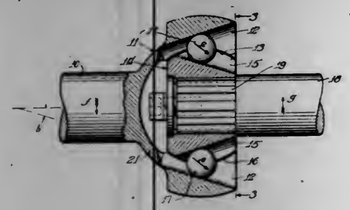
projecting into said head for endwise reciprocating said needle-bar, a needle-bar-frame disposed within said head and provided with at least one bearing in which said needle-bar is slidable, a pair of pintles fixed in said head, a fulcrum-rod supporting said needle-bar-frame and pivotally mounted on said pintles for oscillatory movement, an eccentric fast on said actuating shaft within the confines of said head, a rock-lever secured at its lower end upon said fulcrum-rod intermediate its ends, said rock-lever extending rearwardly and upwardly within said head, and a pitman connecting the upper end of said rock-lever to said eccentric.

2,321,448

CONSTANT VELOCITY UNIVERSAL JOINT

Edmund B. Anderson, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application December 19, 1941, Serial No. 423,595
6 Claims. (Cl. 64—21)



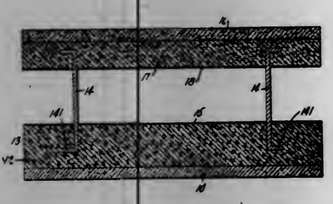
1. A constant velocity universal joint comprising male and female torque transmitting elements having a plurality of pairs of circumferentially crossed raceways arranged in a series of alternate pairs of raceways the bottoms of which diverge in one axial direction and a series of intervening pairs of raceways the bottoms of which diverge in the opposite axial direction, and a ball encaged between the crossed sides of each of said pairs of raceways.

2,321,449

BUILDING BLOCK

John I. Armao, Elsmere, N. Y.

Application November 13, 1940, Serial No. 365,437
1 Claim. (Cl. 72—44)



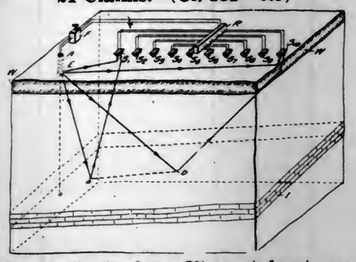
A preformed compound building block comprising a load bearing concrete section, a second section comprising sand, gravel and plaster in spaced parallel relation to the first section so as to provide an air space therebetween, and tying means of relatively small cross section retaining the sections in said spaced relation, said second section constituting a self supporting waterproofing layer adapted to have a finish coating applied thereto.

2,321,450

SEISMIC SURVEYING

Lawrence F. Athy and Elton V. McCollum, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

Application December 14, 1938, Serial No. 245,653
21 Claims. (Cl. 181—0.5)



1. The method of profiling at least one subsurface stratum which comprises producing seismic waves at a first source, receiving seismic waves from said first source after reflection from said stratum at two or more reception points spaced from said source and out of line therewith, recording the effects of said seismic waves as a plurality of traces on a common record; producing seismic waves at a second source spaced from said first source and out of line with said reception points, receiving seismic waves from said second source after reflection from said stratum at said reception points, and recording the effects of said last mentioned seismic waves as a plurality of traces on a second common record, the length of the reflected wave path between said first source and one of said reception points being substantially the same as the length of the reflected wave path between said second source and the other of said reception points, and said two reflected wave paths having substantially identical reflection points on said subsurface stratum.

2,321,451

WATER-SOLUBLE CONDENSATION PRODUCT

Rudolf Bauer, Cologne-Deutz, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 21, 1939, Serial No. 285,677. In Germany July 25, 1938
8 Claims. (Cl. 260—42)

1. The water-soluble products of the simultaneous condensation in an acid medium of an aromatic compound selected from the class consisting of phenols and thiophenols with a saturated carbonyl compound selected from the group consisting of saturated aldehydes and ketones and an unsaturated carbonyl compound selected from the class consisting of unsaturated aldehydes and ketones and sufficient sulfurous acid to insure the water-solubility of said condensation products.

2,321,452

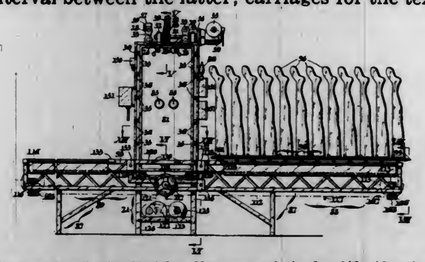
TEXTILE TREATING APPARATUS

Emil J. Berger, Hatfield, and Howard W. Matthews, Lansdale, Pa., assignors to Dexdale Hosiery Mills, Lansdale, Pa., a corporation of Pennsylvania

Application March 26, 1941, Serial No. 385,238
30 Claims. (Cl. 223—76)

1. Apparatus for treating textile products, comprising a treating chamber with a door at

the front thereof; spaced aligned horizontal stationary track sections extending lengthwise of the front of the chamber and respectively beyond opposite sides thereof; an auxiliary track section mounted on the back of the door and capable of registry with the stationary track sections in the interval between the latter; carriages for the textile products individually associated with the two stationary track sections; and reversible progressing means operative to effect transfer of one carriage from one stationary track section to the auxiliary track section on the door and transfer of the other carriage from the auxiliary track section to the other stationary track section, and vice versa.

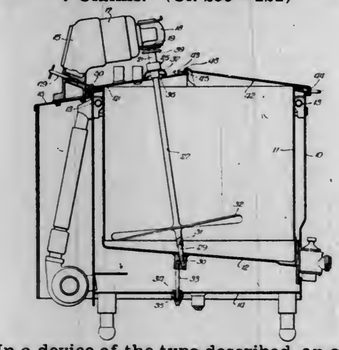


2,321,453

PASTEURIZER

Arthur H. Bolleau, Cedar Rapids, Iowa, assignor to Cherry-Burrell Corporation, Chicago, Ill., a corporation

Application October 18, 1940, Serial No. 361,749
7 Claims. (Cl. 259—121)
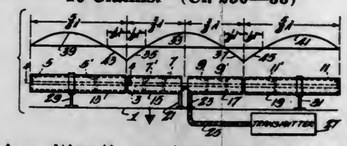


1. In a device of the type described, an open top vat, a closure for said open top, a shaft opening through said closure, a power unit having a drive shaft positioned outside of said vat for actuation of an agitator element within said vat, an agitator drive shaft extending through said shaft opening and coupled to said drive shaft and abutting thereagainst when coupled in operative position, said abutting relation supporting said shaft against vertical upward motion when in operative position, a collared butt-box coupling connecting said shafts, a pivot for the other end of said agitator shaft positioned inside of said vat, and means on the abutting ends of one of said shafts to permit said shafts to be moved axially relative to one another when said collar is removed from said butt-box coupling and when said abutting shafts have been rotated relative to one another to disengage said abutting portions, whereby said agitator shaft may be removed from said shaft pivot and axial thrust support provided when said shafts are coupled together for operation.

2,321,454

MULTIPLE SECTION ANTENNA

George H. Brown, Haddonfield, N. J., assignor to Radio Corporation of America a corporation of Delaware

Application November 22, 1941, Serial No. 420,041
10 Claims. (Cl. 250—33)



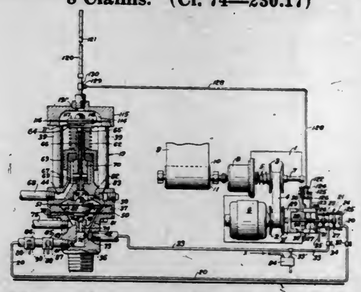
1. A multisection antenna including an inner conductor, a plurality of separated outer conductors, and conductive means attached to said inner conductor for supporting said outer conductors and spaced to form reactive sections connecting said outer conductors in series.

2,321,455

AUTOMATIC MACHINE SPEED CONTROL MECHANISM

Hugh J. Byrne, Oakland, Calif.

Application November 7, 1939, Serial No. 303,250
8 Claims. (Cl. 74—230.17)



1. Means for controlling a variable speed transmission having a shiftable element for changing its speed which comprises providing an hydraulic piston operatively connected to said element for shifting the same, means for admitting a liquid under pressure to and for operating said piston, a pilot arranged and adapted for controlling the flow of liquid to and from said piston, a liquid pressure line extending to said pilot and forming a standing liquid column above the same arranged to influence the pilot in controlling said flow, and means for varying the height of said column upon movement of said piston.

2,321,456

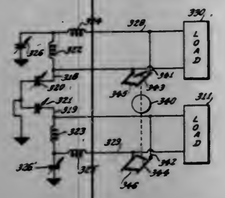
SHORT-WAVE KEYING DEVICE

Paul F. Byrne, West Caldwell, N. J., assignor to Federal Telephone and Radio Corporation, a corporation of Delaware

Original application March 22, 1939, Serial No. 263,367, now Patent No. 2,285,851, dated June 9, 1942. Divided and this application November 28, 1941, Serial No. 420,796
2 Claims. (Cl. 250—11)

1. A radio frequency transmitter for operating at a particular frequency, comprising a source of radio frequency energy, a balanced transmission line coupled to said source, a section of transmission line substantially a half wavelength or odd multiple of a half wavelength long bridged at one of its ends across said transmission line and short circuited at its remote end, and means for modulating the transmitted energy comprising a

short circuiting means arranged at a distance equal to a quarter wavelength or odd multiple thereof from the junction of said section conductor and said balanced transmission line, and



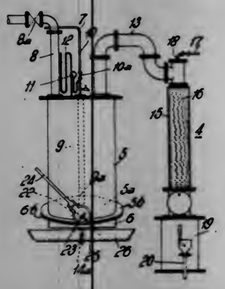
means for periodically connecting and disconnecting said short circuiting means across said section, said transmission line section including means for varying the amount of modulation produced by said modulating means.

2,321,457

APPARATUS FOR THE TREATMENT OF ACID SLUDGE

Walter Frederick Carr, Thomas Geoffrey Woolhouse, and William Green, Wath-upon-Dearne, near Rotherham, England

Application September 28, 1938, Serial No. 232,116
In Great Britain October 4, 1937
2 Claims. (Cl. 23—285)



1. An apparatus for the practice of the herein described method, embodying therein a treatment vessel, means for delivering a fixed quantity of a mixture of sludge and water thereinto, heating means adjacent the bottom of said vessel, a cracker pipe extending into, and having outlets adjacent the bottom of, said vessel, whereby low pressure steam may be delivered into the sludge mixture adjacent the bottom of said vessel, means controlling the steam supply for said cracker pipe, means comprising a small valve controlled pipe for withdrawing acid liquor from the bottom of said vessel, and means comprising a gate controlled main valve for withdrawing fluid resin from the bottom of said vessel.

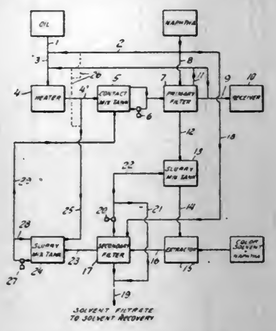
2,321,458

METHOD OF DECOLORIZING A VISCOUS MINERAL OIL

William B. Chenault, Wellsville, N. Y., and Albert E. Miller, Westfield, N. J., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application September 20, 1939, Serial No. 295,706
6 Claims. (Cl. 196—147)

1. The method of decolorizing a viscous mineral oil which comprises subjecting the oil diluted with about 25–150% of naphtha by volume of the oil to the action of a decolorizing earth at a temperature not substantially in excess of about 200° F., separating the earth from the decolorized oil, reactivating the separated earth by subjecting it in the form of a slurry to the action of a color solvent capable of extracting from the



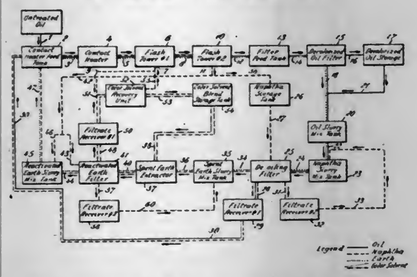
earth the coloring matter removed from the oil by said earth, washing the reactivated earth with naphtha to remove the color solvent and coloring matter contained therein, and returning the washed reactivated earth wet with naphtha to the oil-decolorizing operation.

2,321,459

METHOD OF DECOLORIZING A MINERAL OIL

William B. Chenault, Wellsville, N. Y., and Albert E. Miller, Westfield, N. J., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application January 15, 1940, Serial No. 313,878
14 Claims. (Cl. 196—147)



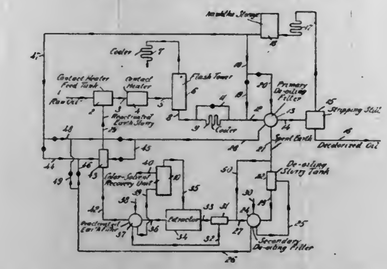
1. The method of decolorizing a mineral oil which comprises heating a mixture including the oil, not less than about 2% and not substantially exceeding 12% of a decolorizing earth by weight on the oil, and not less than about 5% nor substantially in excess of about 60% of naphtha based on the resultant blend of oil and naphtha by volume, to a temperature of from about 350° F. to about 450° F., stripping the naphtha from the heated mixture of earth and decolorized oil and subsequently separating the earth from the decolorized oil, reactivating the separated earth by successive washings first with naphtha, then with a color solvent capable of extracting from the earth the coloring matter adsorbed from the oil and then with naphtha, the earth being contacted with the color solvent in the form of a slurry during the second mentioned washing, and returning reactivated earth wet with naphtha from the last mentioned washing treatment to the heating treatment first mentioned.

2,321,460

PROCESS FOR DECOLORIZING MINERAL OIL

William B. Chenault, Wellsville, N. Y., and Albert E. Miller, Westfield, N. J., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application November 6, 1941, Serial No. 418,002
In Canada November 27, 1940
6 Claims. (Cl. 196—147)



1. In a process for decolorizing mineral oils the improvement which comprises heating the oil to be decolorized, in admixture with a reactivated decolorizing earth wet with naphtha and containing a relatively small amount of a color-solvent more volatile than the naphtha and capable of extracting from the earth coloring matter adsorbed from the oil by the earth, to a temperature upwards of about 200° F. and less than about 450° F. but high enough at least to vaporize said color-solvent substantially completely and to effect approximately the desired degree of oil decolorization in the time required to attain said temperature, discharging the heated mixture into a stripping zone and therein in the absence of moisture stripping at least the color-solvent substantially completely and a part of the naphtha from the mixture by the contained heat of the mixture, filtering the spent earth from a mixture comprising the bottoms fraction discharged from said stripping zone prior to further contact with the color-solvent, reactivating the spent earth by subjecting it firstly to washing with naphtha to remove oil retained by the spent earth, secondly to an extraction treatment in which the spent de-oiled earth in the form of a slurry is extracted with a color-solvent capable of extracting from the earth coloring matter adsorbed from the oil by the earth, and thirdly to a further washing with naphtha wherein the major portion of the retained color-solvent is displaced from the reactivated earth, and returning the reactivated earth wet with naphtha and containing a minor proportion of the color-solvent to the heating operation first mentioned.

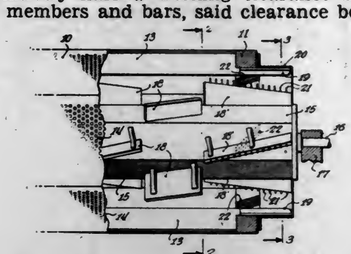
2,321,461

PEA VINER

William F. Christel, Valders, Wis.

Application April 5, 1941, Serial No. 386,973
4 Claims. (Cl. 130—30)

1. In a pea viner the combination of a rotating drum having a discharge outlet at one end thereof, means carried by said drum for lifting and dropping pea laden vines during passage thereof through said drum, a rotor disposed axially of said drum, beaters carried by said rotor for removing peas by impact from the falling vines within said drum, a circular series of bars extending lengthwise through said outlet at the inner periphery thereof, and members rotatable with said rotor and radially extended to provide a relatively narrow working clearance between said members and bars, said clearance being of



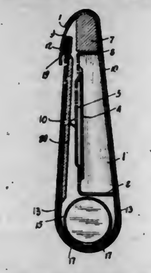
an order to effect removal of peas from said vines by a stripping action.

2,321,462

COSMETIC CONTAINER

Polly Ann Conant, New York, N. Y., assignor to Charles of The Ritz, Inc., New York, N. Y., a corporation of Delaware

Application April 8, 1941, Serial No. 387,413
5 Claims. (Cl. 206—38)



2. A cosmetic container comprising a body member, said body member comprising a hollow substantially truncated wedge-shaped casing and an extension secured to the upper wall of said casing ,a transverse U-shaped retaining member having one of its legs secured to said extension and having its other leg removed therefrom, a pliable covering member secured to the outer face of said retaining member and the rear wall of the casing, said covering member depending a substantial distance below the lower wall of said casing and continuing substantially completely around the body member, one end of said covering member being adapted to be releasably retained by the free end of the retaining member.

2,321,463

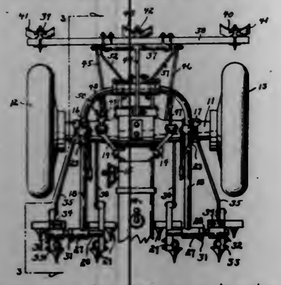
ORGANO-ALUMINUM SOLUTION AND PROCESS OF PREPARING SAME

Daniel H. Condit, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 24, 1939,
Serial No. 269,782
20 Claims. (Cl. 252—308)

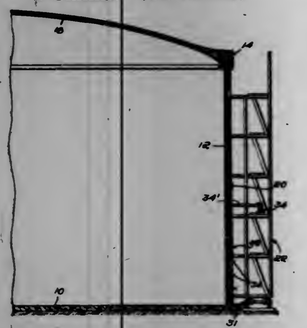
10. A mobile substantially anhydrous organic solution, uncongealed at room temperature, of an anhydrous aluminum salt of an organic carbocyclic acid, said solution containing more than approximately 5% of the anhydrous reaction product of a substantially anhydrous aluminum salt of an hydracid and said carbocyclic acid, said reaction product being formed in a non-aqueous environment, and a small amount of an oil-soluble zinc soap.

2,321,464
CULTIVATOR
Roger R. Cook, Des Moines, Iowa
Application March 29, 1941, Serial No. 385,784
4 Claims. (Cl. 97—47)



1. A cultivator for use on a tractor comprising a substantially U-shaped frame structure adapted to at least partially encircle the sides and rear of the central portion of the tractor, supports supported by the rear axle housing of the tractor for pivotally supporting said frame structure, attachments for cultivator shovels on the arm members of said U-shaped frame structure in front of the rear axle, frame structure pivotally mounted for attaching shovels behind the rear wheels of the tractor, and means for controlling the positions of both of said frame structures on their respective pivots.

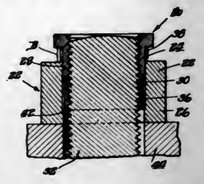
2,321,465
METHOD OF AND APPARATUS FOR BANDING TANKS
John M. Crom, Washington, D. C.
Application April 14, 1942, Serial No. 438,917
4 Claims. (Cl. 72—13)



1. A method of banding tanks circumferentially with rod reinforcement, which consists in supporting a supply of rod lengths on a vehicle adjacent the exterior face of the tank, supporting a rod length on the tank at said face, moving the vehicle around the tank adjacent to said face in a direction wrapping said rod length into contact with the tank circumferentially, and continuing to add further rod lengths and wind the resulting band into reinforcing engagement with the tank as the vehicle moves therearound.

2,321,466
LOCKING NUT STRUCTURE
Edmond C. Crowther, Philadelphia, Pa.
Application October 10, 1940, Serial No. 360,616
14 Claims. (Cl. 151—19)

1. A locking nut structure including a work clamping shell member having an external periphery adapted to be gripped for turning and having a central insert receiving aperture, a yieldable insert member adapted to be telescopically received within said aperture and to rotate as a unit with said shell, said insert member having an internal thread for accommodating a screw member, and a plurality of peripheral swaging



elements on at least one of the aforesaid members adapted to cause an interlock between the periphery of said insert and the surface defining said aperture as an incident to the unitary rotation of said shell and insert after said shell has clampingly engaged a work surface, whereby to lockingly urge the thread of the insert against the complementary thread of a screw member.

2,321,467
MANUFACTURE OF TERTIARY BASES
Noel William Cusa, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 14, 1940, Serial No. 340,535. In Great Britain July 4, 1939
6 Claims. (Cl. 260—404)

1. A process for the manufacture of a water-insoluble tertiary base of the formula

$$R{-}CO{-}NH{-}CH_2{-}A{-}N\begin{matrix}X\\Y\end{matrix}$$

where R—CO— stands for the radical of a fatty acid having at least 12 carbon atoms, A stands for a benzene nucleus, and X and Y stand for alkyl groups, which comprises passing sulphur dioxide into a solution of reactants maintained at a temperature of approximately 90°–100° C. selected from the group consisting of (*a*) a solution of an acid amide, R—CO—NH_2, and paraformaldehyde in a N-dialkylaniline, and (*b*) a solution of a methylolamide,

$$R{-}CO{-}NHCH_2OH$$

in a N-dialkylaniline, R—CO— in both instances standing for the radical of a fatty acid having at least 12 carbon atoms.

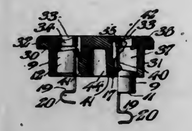
2,321,468
ALKYL THIO SUBSTITUTED AMINO BENZOIC ACID ALKAMINE ESTERS AND SALTS THEREOF
John J. Donleavy, Hamden, Conn., assignor, by mesne assignments, to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware
No Drawing. Application July 1, 1939, Serial No. 282,352
5 Claims. (Cl. 260—470)

1. An organic compound of the group consisting of esters having the formula

$$R'S(NH_2)C_6H_3COO(CH_2)_xNR''R'''$$

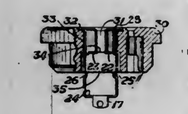
where x is an integer greater than unity and R', R'' and R''' represent alkyl radicals, and acid addition compounds thereof.

2,321,469
SOCKET RECEPTACLE
Arthur M. Draving, Philadelphia, Pa., assignor to Hugh H. Eby, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application July 12, 1938, Serial No. 218,754
3 Claims. (Cl. 173—328)



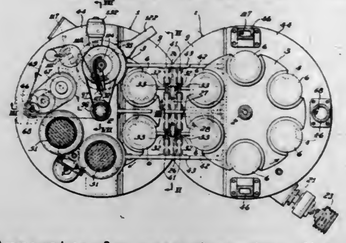
1. A molded socket having an annular recess in one surface, a plurality of socket contact openings in the opposite surface communicating respectively with the recess and with each other through the recess, said socket having a transverse shoulder in each of said openings leading into the recess arranged to be engaged by contacts in said openings, and separating means disposed in the recess between shoulders to minimize leakage between socket contacts, and a plurality of tube contact openings in the first mentioned surface each communicating with a respective socket contact opening.

2,321,470
PLUG-IN SOCKET DEVICE
Arthur M. Draving, Feasterville, Pa., assignor to Hugh H. Eby, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application August 2, 1939, Serial No. 287,924
10 Claims. (Cl. 173—328)



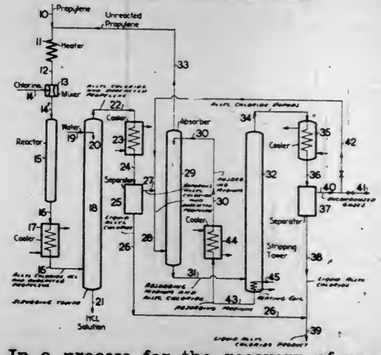
1. In an electrical socket, an insulating base having an opening for the insertion of a prong therethrough, said opening having an axis, a metallic contact-making element mounted in said opening and integrally comprising two separate and independent facingly opposed semicylindrical terminal mounting enlargements of appreciable total peripheral extent, and a pair of resilient legs integral with and laterally relatively narrower than the respective enlargements and defining an elongated prong-receiving passage having an axis common with the axis of said opening, said enlargements including integral lug portions disposed substantially laterally of the respective side edges of each leg and spaced from the free end of the respective enlargement, said legs being joined by an integral transverse substantially planar member, at least one of said legs having an inward shouldered protuberance extending toward said axis to lockingly engage and hold against undesired withdrawal an axially inserted prong having a corresponding recess in the exterior surface to receive said protuberance, said mounting enlargement disposed in the opening of the base to anchor the legs and to form a guide for an inserted prong at the mouth of said opening, the extension of an enlargement beyond its leg forming a locking ear extending laterally of the leg in spaced relation to the end of the leg to engage the base and anchor the element.

2,321,471
DINNERWARE MACHINE
Walter H. Emerson, East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va., a corporation of Delaware
Application April 9, 1940, Serial No. 328,638
18 Claims. (Cl. 25—22)



1. Apparatus for manufacturing dinnerware and the like, comprising a horizontal support provided with spaced recesses therethrough for receiving molds, means for indexing said recesses from station to station, means for forming ware on the molds at some of said stations, a plurality of mold-carrying members, and means for moving said members downwardly through successive recesses at one of said stations and upwardly through successive recesses at another of said stations, whereby molds are deposited on said support by said downwardly moving members and removed from the support by said upwardly moving members.

2,321,472
PROCESS FOR PRODUCING AND RECOVERING HALOGENATED ORGANIC COMPOUNDS
William Engs and Simon N. Wik, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 29, 1939, Serial No. 276,376
11 Claims. (Cl. 260—654)

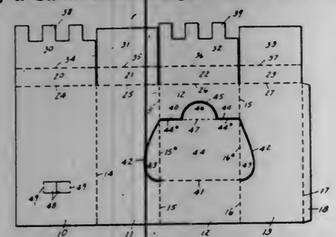


6. In a process for the recovery of an allyl halide of the group consisting of allyl chloride and allyl bromide from a mixture comprising it and propylene, the step which comprises selectively dissolving the allyl halide from the mixture by contacting the mixture with a liquid hydrocarbon of the group consisting of kerosene, iso-octane and diisobutylene.

2,321,473
CARTON STRUCTURE
Kenneth C. Ferguson, Indianapolis, Ind., assignor to Inland Container Corporation, Indianapolis, Ind., a corporation
Application December 26, 1940, Serial No. 371,609
1 Claim. (Cl. 206—44)

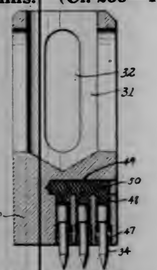
A wall stabilizing end closure of reentrant type

for a tubular container structure having four sequentially connected walls, opposite walls having substantially the same width, the closure being of tray display type when the container structure is positioned with the end closure uppermost, the closure comprising a flap hingedly connected to each wall, a connecting portion between each flap and the supporting wall, all three being integral and substantially of wall width, all portions having a common length, one pair of flaps being longer than the other, the shorter pair having a summation length not exceeding the



width of a wall therebetween, each longer flap on its free edge including a plurality of tongues arranged in spaced relation, the tongues on opposite edges of opposed longer flaps being staggered and arranged for multiple interlocking, the length, without the tongues, of each tongue supporting flap being approximately half the width of the wall intermediate the tongue supporting flaps, the adjacent oppositely directed tongues interfitting with each other and interlocking when overlapping the adjacent tongue supporting flap.

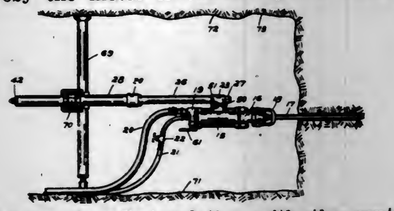
2,321,474
CORE ORIENTING DEVICE
George F. Fermier, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application January 8, 1940, Serial No. 312,820
3 Claims. (Cl. 255—1.4)



1. In a device of the class described, a casing, said casing having channels leading from the lower end thereof and communicating with a common channel within said casing, a prong in each of said channels movable vertically therein and fluent material filling all of said channels, whereby said prongs may adjust themselves to unevenness in the surface of the formation encountered.

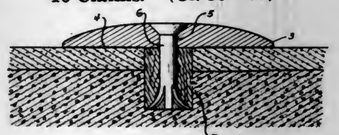
2,321,475
ROCK DRILL
Albert Feucht, Garfield Heights, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a corporation of Ohio
Application November 14, 1941, Serial No. 419,065
3 Claims. (Cl. 255—45)

1. In a rock drill mounting, a feeding mechanism including a feed cylinder, means for rigidly supporting said cylinder from the ground, a fluid actuated piston rod slidable and rotatable in said cylinder, a fluid actuated drilling motor, an integral projection for said motor extending laterally thereof, said projection having a tapered bore for clamping one end of said piston rod whereby the motor is carried by the feeding



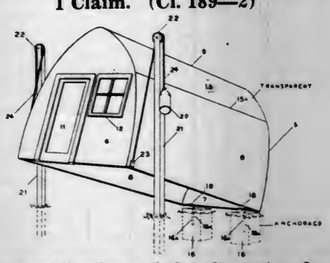
mechanism in offset relation with the center axis thereof, said piston rod having a bore extending throughout its length and a port communicating therewith, an annular recess formed in said tapered bore having communication with said port, and a feed valve carried by said projection for controlling the admission of motive fluid to said piston rod through said annular recess to operate said feeding mechanism.

2,321,476
TRAFFIC MARKER
Robert Foster and John F. Shafer, San Francisco, Calif., assignors to Saf-T-Dot Marker Corporation, San Francisco, Calif., a corporation of California
Application February 9, 1940, Serial No. 318,088
16 Claims. (Cl. 88—79)



1. A dense substantially non-porous, wear-resistant, water-repellent pavement marker capable of retaining its shape under wide temperature variations, the essential constituents of the marker being a plasticized organic derivative of cellulose, and a filler having high reflecting properties, the former being present in a predominating quantity.

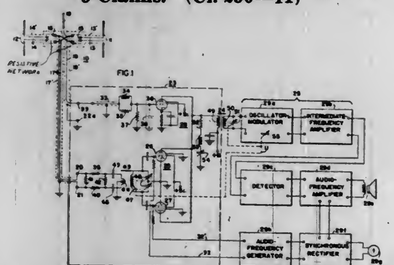
2,321,477
GARAGE OR OTHER SHELTER
James D. France and Elizabeth G. Ritter, Montclair, N. J.
Application September 17, 1941, Serial No. 411,135
1 Claim. (Cl. 189—2)



A housing structure of the character described, comprising a hollow body open at the bottom and having convex sides meeting at its ridge,

a pair of blocks adapted to be set in the ground and having apertures, hinges attached to the lower rear edge of said body and comprising pins removably positioned in the aperture of said blocks, said body being free to be raised and lowered on said hinges, a door in the front of said body, a pair of posts adapted to be set in the ground at the sides of said hollow body and toward the front thereof, a sheave mounted in the upper portion of each post, a pair of counterweights, one for each post, adapted to move vertically, and cordage attached to said counterweights and rove on said sheaves and attached to the front portion of said body near the bottom edge thereof, to assist in raising said body.

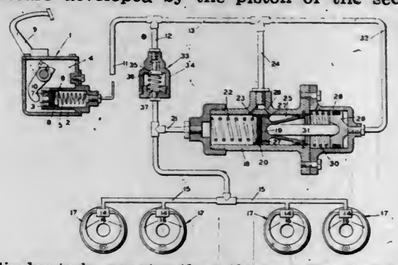
2,321,478
ULTRA-HIGH-FREQUENCY CARRIER-SIGNAL TRANSLATING SYSTEM
Robert L. Freeman, Flushing, and Benjamin F. Tyson, Bayside, N. Y., assignors to Hazeltine Corporation, a corporation of Delaware
Application October 13, 1941, Serial No. 414,738
9 Claims. (Cl. 250—11)



3. An ultra-high-frequency carrier-signal translating channel comprising, a pair of carrier-signal translating paths adapted to have applied thereto carrier signals within a wide range of carrier-signal frequencies, a first of said paths being untunable, means included in said first path for imparting thereto over said range of frequencies a substantially linear phase-frequency characteristic, means included in the other of said paths for tuning it to any desired carrier signal within said range and for imparting thereto over said range of frequencies a substantially linear phase-frequency characteristic of different absolute value but of substantially the same slope as that of said first path, whereby carrier-signal outputs of said paths corresponding to any selected carrier-signal input have a predetermined substantially constant relative phase difference, and means coupled to said signal-translating paths to utilize said carrier-signal outputs having said predetermined relative phase difference.

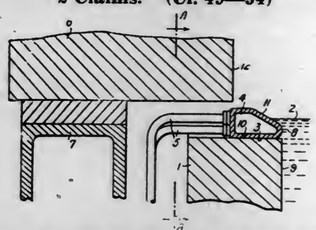
2,321,479
RATIO CHANGING BRAKE ACTUATING SYSTEM
Walter R. Freeman, Clayton, Mo. assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application May 2, 1941, Serial No. 391,452
10 Claims. (Cl. 188—152)

1. In braking apparatus, a brake, a fluid motor for actuating the brake, a manually-controlled master cylinder comprising a cylinder, a piston, a reservoir, and means permitting the reservoir to have two-way communication with the cylinder ahead of the piston only when the piston is in retracted position, a second cylinder, a piston therein, conduit means for connecting the cylinder of the master cylinder and the second cylinder to the fluid motor, means for directly moving the piston of the second cylinder solely by fluid pressure being developed by continued movement of the piston of the master cylinder, said last named means embodying means for causing the pressure developed by the piston of the second



cylinder to be greater than the pressure developed by the master cylinder, means for causing the fluid pressure developed by the piston in the second cylinder to be effective only in actuating the fluid motor, and means for placing the second cylinder and the fluid motor in two-way communication with the cylinder of the master cylinder and its reservoir only when the second piston and the piston of the master cylinder are in retracted position.

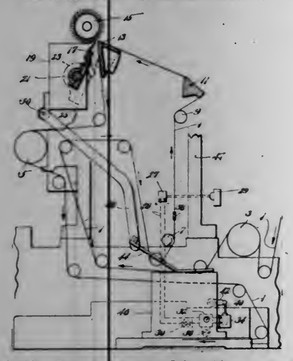
2,321,480
TANK FOR MOLTEN GLASS
Joseph Gaskell, Saint Helens, England, assignor to Pilkington Brothers Limited, London, England, a company of Great Britain
Application September 12, 1939, Serial No. 294,435
In Great Britain September 17, 1938
2 Claims. (Cl. 49—54)



1. A tank furnace for molten glass comprising walls composed of monolithic blocks made of refractory clay material with which the glass is in contact and which is subject to erosion by the glass, and a roof having springers supported independently of the walls, said refractory blocks extending upwards to a level a little below glass level and a plurality of separate erosion resisting water-cooled metal boxes on said wall extending from the upper surface of the blocks to a level a little above glass level, each box having a flat under surface by which it rests on the upper surface of the topmost refractory blocks in intimate contact therewith to provide a heat exchange surface therefor, which surface extends continuously from a line substantially at the inner edge of the said blocks outwards for a distance equal to at least half the width of the said blocks and each box having an upper surface which is inclined inwardly and downwardly at least over the inner portion of its width, whereby the water boxes cool the inner top edges and contiguous upper surfaces of the blocks on which they rest and retard the

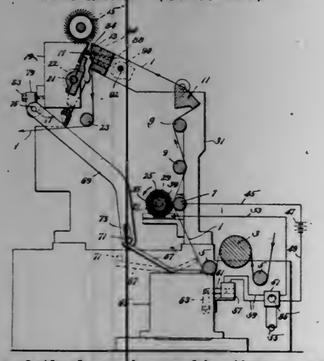
erosive action of the glass thereon, the form of the boxes being such as to prevent the formation of air pockets therein and to facilitate the escape of steam.

2,321,481
CLOTH SHEARING MACHINE
Wilfred N. Hadley, Springfield, Vt., assignor to Parks and Woolson Machine Company, Springfield, Vt., a corporation
Application April 22, 1942, Serial No. 439,967
19 Claims. (Cl. 26—17)



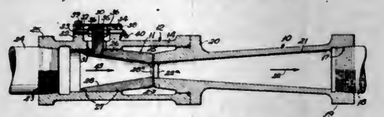
1. In a cloth shear, in combination, means propelling, guiding, and shearing a web of cloth composed of successive pieces united end to end by seams and having apertures in predetermined relation to such seams, means detecting such apertures and thereupon suspending the shearing action, and means exerting localized tension on the web in the zone of the width thereof in which the apertures are located to open up such apertures for detection.

2,321,482
CLOTH SHEARING MACHINE
Wilfred N. Hadley, Springfield, Vt., assignor to Parks and Woolson Machine Company, Springfield, Vt., a corporation
Application June 14, 1941, Serial No. 398,033
20 Claims. (Cl. 26—17)



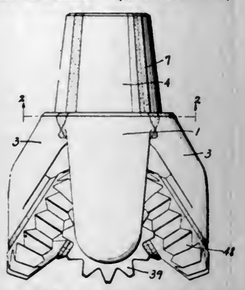
1. In a cloth shear, in combination, means propelling, guiding, and shearing the cloth, detecting means adapted to enter between the end of one piece of cloth and the beginning of the next piece attached thereto, and means suspending the shearing operation in response to such entry of the detecting means between the two pieces of cloth.

2,321,483
PROPORTIONAL MIXER
Edward J. Haedike, Chicago, Ill., assignor to National Machine Works, Chicago, Ill., a corporation of Illinois
Application January 6, 1941, Serial No. 373,217
10 Claims. (Cl. 48—180)



1. In a proportional mixer of the type set forth, the combination of first and second members having respectively entrance and exit flow-ways formed therein, said flow-ways being axially alined and tapered toward each other, a generally tubular body fixed to one of said members and telescoped over the other for guided endwise rectilinear sliding movement of the latter, means operable from the exterior of said body for adjusting the position of said member within it, whereby to position the latter with a clearance gap of preselected width between it and the other member, and said body being shaped interiorly to provide a chamber for a gaseous medium substantially encircling said gap, whereby when gas is supplied to said chamber and a second gas passed through said flow-ways the first mentioned gas will be inspirated through said gap into the gas passing through said flow-ways and with a ratio to the second gas fixed by the width of said clearance gap.

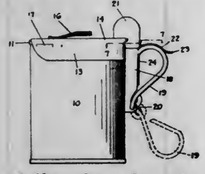
2,321,484
DRILL BIT
George G. Harrington, Thomas H. Stancliff, and Clarence H. Black, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application March 4, 1940, Serial No. 322,052
16 Claims. (Cl. 255—71)



1. In a drill bit, a bit head comprising four segmental sections integrally joined together adjacent their upper ends, each of said sections having an inwardly extending cutter bearing supporting part, two of said parts substantially meeting each other and together extending across the lower portion of said bit head, a pair of cross roller cutters on said parts respectively, a bridge extending between the other two of said parts and having openings receiving the inner ends of said first parts, a bushing extending into each of said other two parts and providing a portion of each side cutter bearing support, each of said bushings having a radial flange thereon formed with a thrust ball race, said flange being undercut to provide an inner roller race of smaller diameter than said thrust ball race and underlying said ball race, a side cutter on each of said

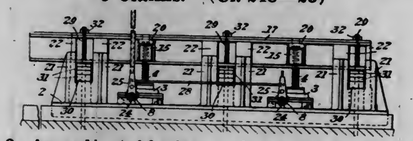
bushings having a corresponding race opposite each of said races on said bushing, and balls and rollers in said races respectively for supporting said side cutters against thrust and radial loads.

2,321,485
CONDENSED MILK CAN OPENER AND HOLDER
Norman J. Harvey, Lincoln, Nebr.
Application October 16, 1939, Serial No. 299,673
3 Claims. (Cl. 220—51)



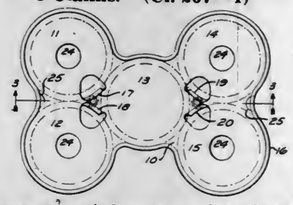
3. A device of the class described including a cap adapted to rest over the top of a can containing a fluid substance, clamping means for clamping said cap to the can, a handle secured to the side of said cap in such a manner as to extend adjacent the side of the can to which the cap is applied and form a supporting handle for the cap and can, said handle having its lower end pivotally secured to said cap so as to permit said handle to be swung outwardly, a prod for penetrating the top of the can, connections between said handle and said prod for moving said prod downwardly into the top of said can as said handle is swung away from its normal position adjacent the side of the can, and an auxiliary cap member secured to said previously named cap and extending over said prod, said auxiliary cap member being provided with an extension in the form of a clip for releasably holding said handle in said normal position.

2,321,486
ADJUSTABLE BASE
Darry G. Holt, Salem, Ohio, assignor to Tennessee Coal, Iron and Railroad Company, a corporation of Tennessee
Application January 15, 1942, Serial No. 426,917
3 Claims. (Cl. 248—23)



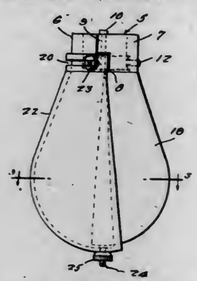
3. An adjustable base of the class described comprising a substantially rectangular-shaped base member, a plurality of vertically arranged screw jacks carried by said base member, a platform member arranged above said base member for vertical movement relative thereto, a nut-like member arranged in the upper threaded end of each of said screw jacks, said platform having openings arranged therein for housing each of said nut-like members, means for actuating all of said screw jacks simultaneously whereby the platform may be raised or lowered, upwardly extending portions arranged on said base member at both ends and sides of said platform for guiding the same in its vertical movement, means carried by said platform which cooperates with said upwardly extending portions, means carried by said base member at least adjacent the corners thereof for supporting a plurality of shims which are adapted to support rigidly the platform after the same has been moved to its adjusted position, and means for securely clamping the platform in position upon the shims so as to prevent unintentional movement of the platform.

2,321,487
SPRING PLATE
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application September 18, 1940, Serial No. 357,211
5 Claims. (Cl. 267—4)



1. A pressed metal spring plate having three spring seats thereon for the reception of coil springs, said spring seats being arranged in the form of a triangle, spring positioning means between said seats, said means consisting of a pair of integral lugs severed from the plate on all but one side and bent upwardly toward each other, one side of each lug being adapted to engage a side of an adjacent spring and an edge of each lug being adapted to engage the third spring, and additional spring positioning means on said plate cooperating with the first mentioned means for holding springs on said seats.

2,321,488
BLACK-OUT LIGHT SHADE AND PROTECTOR
Lester Wheeler Hughes, Newport, R. I.
Application January 7, 1942, Serial No. 425,924
3 Claims. (Cl. 240—108)



1. A lamp shield comprising a pair of lamp enclosing segments, one segment being transparent and the other segment being opaque, a sectional collar carried by the segments for securing the segments on the lamp, a second opaque segment, and means for slidably securing the last-named segment on one section of the collar in covering position with respect to the transparent segment.

2,321,489
RAKE
Charles Herman Kaufman, San Antonio, Tex.
Application April 18, 1942, Serial No. 439,591
1 Claim. (Cl. 56—400.17)

A rake comprising a tine holder including a pair of opposed elongated top and bottom panels of plywood extending lengthwise transversely of

the rake, a relatively narrower separator panel also of plywood interposed between said pair of panels and extending along rear edges thereof, a plurality of tines of single-ply wood and strip-like form having hooked front ends and extending from said holder in forwardly diverging relation with rear ends interposed between said



pair of panels in front of the separator panel and fitted against the front edge of the separator panel, cement securing said panels together and the rear ends of the tines to said panels and a handle bolted to the top of said holder, said separator strip being of the same thickness as said tines.

2,321,490

HYDROLYSIS OF TITANIUM SOLUTIONS

John Lewis Keats and Henry Moroni Stark, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 27, 1939, Serial No. 311,104

8 Claims. (Cl. 23—202)

1. A process for producing a nucleating agent useful for accelerating the hydrolysis of a titanium salt solution, comprising subjecting a titanium oxide precipitate obtained from the hydrolysis of a titanium salt solution to treatment with an amount of sulfuric acid sufficient to partially dissolve said precipitate but insufficient to completely solubilize the same, and maintaining the resulting opaque suspension at an elevated temperature until the same becomes substantially translucent to develop its nucleating characteristics.

2,321,491

HANGAR DOOR STRUCTURE

James R. Keys and Henry D. Oberdorfer, New Castle, Ind., assignors to New Castle Products Inc., New Castle, Ind., a corporation

Application January 15, 1942, Serial No. 426,844

6 Claims. (Cl. 160—126)



1. In a hangar structure having an opening, an accordion type collapsible and extensible curtain therefor, track means for curtain guidance, said curtain being collapsible adjacent a side wall of the opening, and a flydoor movable when the curtain is extended to bridge the space between the side wall and curtain end.

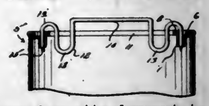
2,321,492

PAINTBRUSH WIPER

Wallace E. Kinney, Shelby, Nebr.

Application November 17, 1941, Serial No. 419,513

1 Claim. (Cl. 220—90)



A brush wiper for attachment to an internal edge flange of a paint can comprising a straight bar, a pair of U-shaped extensions at opposite ends of said bar, respectively, on one and the same side thereof forming paint draining portions, and a pair of hook-shaped sharp pointed terminals forming outstanding continuations of said extensions, respectively, on the same side of the bar as said extensions and for thrusting through said flange and straddling the same, said bar, extensions and terminals being arranged in a common plane.

2,321,493

PHENOL-FURFURYL ALCOHOL RESINOUS CONDENSATION PRODUCTS

Ernst Korten, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 13, 1940, Serial No. 352,406. In Germany August 17, 1939

3 Claims. (Cl. 260—47)

1. Resinous condensation products obtained by condensing only an aromatic compound containing at least one phenolic hydroxygroup with furfurylalcohol in the presence of a dilute solution of a condensing agent which has an acid reaction during the process of condensation.

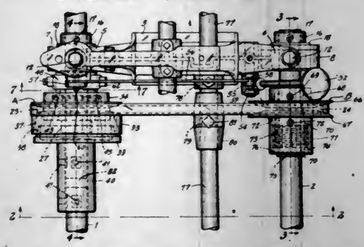
2,321,494

DRIVE MECHANISM

Harry W. Krag, Vinita Park, Mo., assignor to American Shoe Machinery and Tool Company, St. Louis, Mo., a corporation of Missouri

Application January 2, 1941, Serial No. 372,877

4 Claims. (Cl. 74—230.17)



1. A drive mechanism comprising laterally spaced shafts, V-groove pulleys on the respective shafts, an endless power transmission V-belt encircling both of said pulleys and riding in the V-grooves thereof, each of said pulleys comprising end sections axially movable relative to each other and cooperating to form the V-groove in said pulley, means for connecting one of said pulley sections to its supporting shaft for rotation therewith, means for adjusting said pulley sections axially relative to one another to vary the width of the V-groove therein and thus change the effective diameter of said groove, and means for rigidly securing said sections together in adjusted position, the adjusting means for one of said pulleys including detachable shims and the adjusting means for the other of said pulleys including a spring carried thereby and adapted upon release of the means for securing together the sections of said other pulley to urge one of said last mentioned pulley sections axially in the direction of the other.

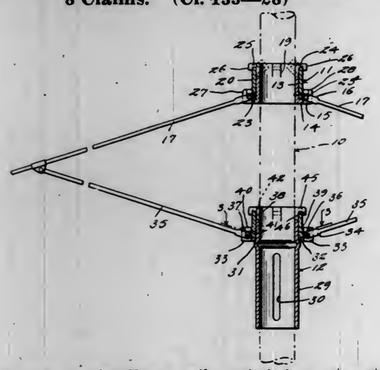
2,321,495

UMBRELLA FRAME ASSEMBLY

Joseph Levin, Lancaster, Pa., assignor to Theodore Levin, Harold Levin, and Bernard Levin, jointly, all of Baltimore, Md.

Application March 27, 1942, Serial No. 436,519

8 Claims. (Cl. 135—28)



1. In an umbrella a rib retaining structure comprising an inner cylindrical member, a slotted flange carried by said member, an outer cylindrical member telescoping over said inner member, a slotted flange carried by said outer member and disposed in confronting position relative to said first flange, said outer member being formed with at least one recess in an end thereof, and at least one bendable finger carried by said inner member engageable in said recess for holding said members in telescoping relation, and also holding said members against circumferential movement one relative to the other.

2,321,496

POLYAMINO PETROLEUM SULPHONATES AND THEIR DEHYDRATES

Leo Liberthson, New York, N. Y., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware

No Drawing. Application July 11, 1940, Serial No. 344,918

7 Claims. (Cl. 260—501)

1. A petroleum sulphonate product which essentially comprises a substantially neutral petroleum sulphonic acid salt of a polyalkylene polyamine.

2,321,497

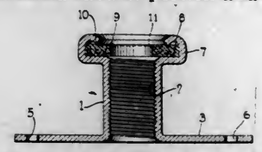
THREADED LOCKING DEVICE

Richard W. Luce, Southport, Conn.

Original application August 4, 1939, Serial No. 288,266, now Patent No. 2,265,661, dated December 9, 1941. Divided and this application May 8, 1941, Serial No. 392,429

3 Claims. (Cl. 151—7)

1. A threaded locking device of the kind having a non-metallic washer with a hole therethrough of a diameter less than the root diameter of the thread, the device being characterised by the fact that it is of sheet metal of relatively thin and substantially uniform wall section and includes a threaded tubular portion, means united at one end of the threaded tubular portion for retaining the non-metallic washer axially alined with the threaded tubular portion and restrained



against rotation with respect thereto, and a flange portion united at the opposite end of the threaded tubular portion forming a face for the threaded locking device extending substantially perpendicular to the axis of the threaded tubular portion.

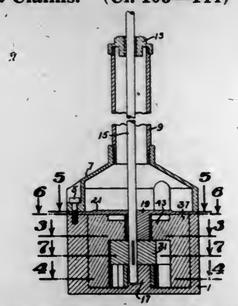
2,321,498

PUMP

Leo S. Madlem, San Francisco, Calif.

Application May 6, 1940, Serial No. 333,527

2 Claims. (Cl. 103—144)



1. A positive pressure pump for vertical operation comprising an approximately cylindrical pump chamber having a top and bottom and a longitudinal cut-off land projecting into said chamber, circular bosses mounted on said top and bottom, midway between the top of said land and the opposite side of the chamber, the top of the land and the opposite side of said chamber having surfaces substantially concentric with said bosses, a drive shaft journaled eccentrically in said bosses substantially axially of said chamber and extending through said top, a drum having a plurality of opposed longitudinal slots therein extending the length of said chamber and secured to said shaft, and an impeller vane fitting into each of said slots, a bushing on each of said bosses, said bushing having opposite parallel bearing surfaces, a scotch yoke connecting opposing pairs of said vanes, the bearing surfaces of each of said bosses engaging the internal surfaces of said scotch yoke, said chamber having a plurality of inlet openings on one side of said land along the extent of said land, said top having an outlet opening therein on the other side of said land, and a delivery pipe enclosing said top and said shaft.

2,321,499

FOLDING STAIR

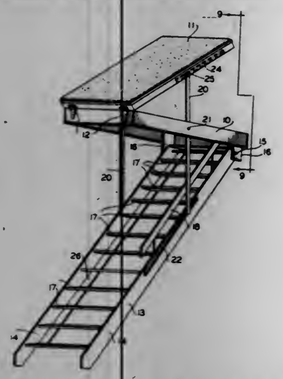
Reinhold B. Marschke, St. Paul, Minn.

Application September 11, 1941, Serial No. 410,421

3 Claims. (Cl. 228—50)

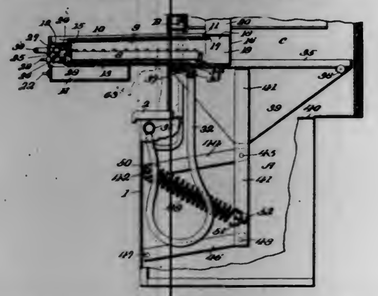
1. A utility stairway comprising a casement stair opening adapted to encase the opening through the building from one floor to the other,

a cover floor hinged to one end of the top of said casement, a stair hinged to the other end of the bottom of said casement, a pair of tracks carried by said cover, a pair of tracks carried by said



stair stringers, and a pair of straight levers pivoted to said casement between their ends and having their ends slidably connected in said track means carried by said cover and said stair stringers.

2,321,500
COOKING APPLIANCE
Benjamin E. Meacham and William H. Frick, Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Application March 18, 1940, Serial No. 324,708
7 Claims. (Cl. 126—41)

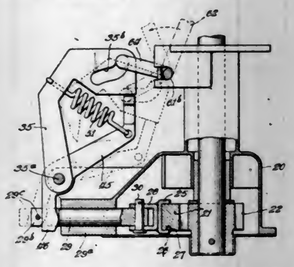


1. An improved cooking appliance comprising, a broiling chamber having a burner in the upper end thereof and an opening at its front, a lower burner and broiling grid thereabove in the lower end of said broiling chamber and supported to be movable as a unit vertically in said broiling chamber, said unit having an arm extending outwardly beyond the front of said broiling oven, a lock housing having therein a vertically elongated slot and through which said extending arm of said unit passes, a handle on said unit arm by which said unit may be raised and lowered in said broiling chamber, said handle being movable on said unit arm toward and away from said lock housing, said handle provided with a lock head cooperating with said lock housing to support said unit in any one of a plurality of its vertically adjustable positions, resilient means normally holding said lock head in locked relationship with said lock housing, and said operating handle under pressure being movable inwardly on said unit arm against said resilient tension to release said lock head from said lock housing to permit vertical adjustment of said unit.

2,321,501
PRINTING VISCOSE PROCESS RAYON WITH ACID AND DIRECT COLORS
Charles F. Miller, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 25, 1940, Serial No. 362,789
6 Claims. (Cl. 8—62)

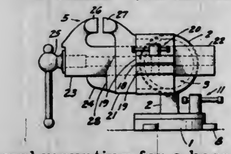
1. A printing paste which comprises a dyestuff of a group consisting of direct and acid colors, a hydrous thickening agent in sufficient amount to enable the paste to be printed on a viscose rayon fabric and an assistant of a group consisting of an alkali-metal salt of a group consisting of the benzyl and alkyl thioglycollic acids in which alkyl has 1 to 12 carbons, said dyestuff being present in the proportion of about 1.0% to about 8.0% of the paste and the ratio of dyestuff to assistant being about 3 parts of dyestuff with about 3 parts to about 20 parts of said assistant.

2,321,502
WASHING MACHINE TRANSMISSION
Charles A. Moore, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application July 11, 1942, Serial No. 450,551
7 Claims. (Cl. 74—78)



1. The combination with a rotatably mounted pinion and a crank operated reciprocable rack for driving said pinion, of manually operable means for resiliently shifting said rack into driving engagement with said pinion and resiliently maintaining such engagement during reciprocation of said rack, said means comprising a first lever, means adjacent said rack and pinion providing a fixed pivotal support for said lever, cam and follower means located adjacent the terminal portion of said lever remote from said pivotal support for arcuately adjusting said lever about said support from and to positions corresponding to engaged and disengaged positions of said rack and pinion, a second lever pivotally mounted adjacent said first lever support, lost motion connecting means between said first and second levers comprising a spring for urging said levers about said axis in the direction of each other and means connecting said second lever with said rack for moving said rack into and out of engagement with said pinion whereby the movement of said first lever toward said engaged position acts through said spring to cause movement of said rack into engagement with said pinion, said spring functioning during the driving operation of said pinion by said rack to absorb movements of said rack caused by the operation of said crank.

2,321,503
BENCH VISE
Fred C. Moran, Los Angeles, Calif., assignor to Peabody-Acker, Inc., Los Angeles, Calif.
Application March 3, 1942, Serial No. 433,199
1 Claim. (Cl. 81—41)



A universal mounting for a base supported tool comprising an adaptor having a longitudinally extending cylindrical stem adjustably supported in the base, an outstanding circular flange at the base of the cylindrical stem to limit the insertion of the cylindrical stem into the base support, a reduced neck integrally formed with the base of the cylindrical stem and axially extending therefrom in an offset relation relative thereto, and a split yoke integrally connected to the reduced neck portion and disposed with its opening at right angular relation to the cylindrical stem, said split yoke having clamping means to retain an inserted tool in desired adjusted position.

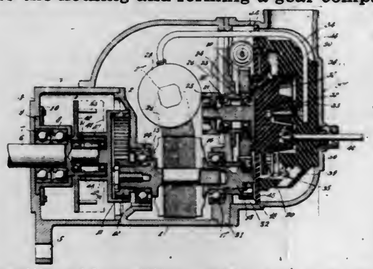
2,321,504
KEY RING
William J. Morse, Attleboro, Mass., assignor to Morse Andrews Co., a corporation of Massachusetts
Application January 29, 1942, Serial No. 428,687
1 Claim. (Cl. 70—459)



A key ring comprising a key ring head of sleeve shape having downwardly depending arcuate side sections open inwardly, and a wire frame split at one side to provide an otherwise continuous frame having an upper portion and a lower key receiving portion with a movable arm, the upper portion of the frame being locked in the head with the split positioned in one downwardly depending side section, whereby the end of the movable arm is normally seated in said one side section but may be unseated by pressing inwardly to open the frame, said head having a key chain attaching connection.

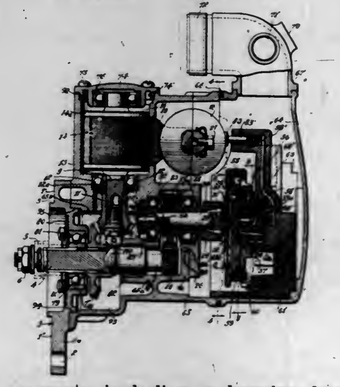
2,321,505
IGNITION GENERATOR
Edward B. Nowosielski, Bloomfield, N. J., assignor to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application June 1, 1940, Serial No. 338,331
8 Claims. (Cl. 171—209)

1. In a magneto comprising a rotor and pole pieces, an ignition coil associated with said pole pieces and a rotary element for distributing the current produced in said coil: the combination of a housing comprising two separable sections, a first removable partition between said sections, a second removable partition stationary in relation to the housing and forming a gear compart-



ment with said partition, said rotor, pole pieces and coil being disposed in one of said sections and said distributor element being disposed in the other of said sections; respective shafts for said rotor and distributor element each having portions within said gear compartment; and gearing in said compartment interconnecting said shafts.

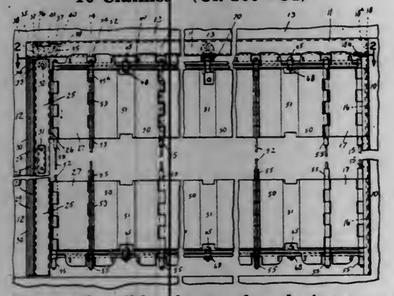
2,321,506
MAGNETO CONSTRUCTION
Edward B. Nowosielski, Bloomfield, N. J., assignor to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application January 25, 1941, Serial No. 375,996
13 Claims. (Cl. 171—209)



4. A magneto including a housing having a mounting flange at one end thereof, a drive shaft having a bearing carried by said housing at its mounting end, a rotor carrying a permanent magnet housed within a portion of said housing at said one end thereof and having a gear on its end nearest the drive shaft, a drive gear on the drive shaft closely adjacent the bearing in the mounting end of the magneto and meshing with said first mentioned gear, a second bearing for the drive shaft closely adjacent said drive gear, field pole pieces positioned for cooperation with said rotary magnet and extending in a direction away from the mounting end of the magneto, an ignition coil having a core joining said field pole pieces, a high-tension terminal on the ignition coil structure, a timer-distributor shaft disposed in parallel relation to the drive shaft and spaced only a short distance therefrom and geared thereto; circuit-breaker mechanism for the primary winding of said coil including a cam on said

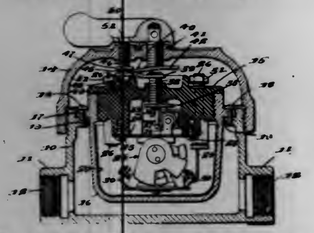
timer-distributor shaft, and a current distributor for the secondary winding of said coil including a rotary member on the outer end of said timer-distributor shaft and a block having a part carrying a conductor engaging said high-tension terminal at one end and said rotary member at the other end.

2,321,507
FOLDABLE CLOSURE
Henry D. Oberdorfer and Carroll F. Van Buskirk, New Castle, Ind., assignors to New Castle Products, Inc., New Castle, Ind., a corporation
Application November 1, 1941, Serial No. 417,488
10 Claims. (Cl. 160—84)



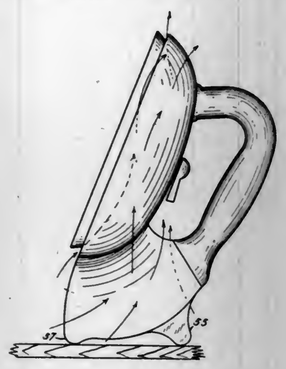
1. In a collapsible closure for closing a room, et cetera, having a side wall and a track extending therefrom in the closing direction, including, a pair of vertically spaced horizontally collapsible lazy tongs, and an end closure member pivotally connected to the adjacent ends of the tongs, the combination of means for semi-permanently connecting the member to the wall, and means rigid with the member and projecting therefrom for track association, said track and projecting means having complementary interlocking formations for prevention of member cocking and other purposes as described.

2,321,508
EXPLOSION-PROOF SWITCH HOUSING
Raymond H. Olley and Ray F. Lester, Syracuse, N. Y., assignors to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application September 11, 1940, Serial No. 356,366
9 Claims. (Cl. 200—168)



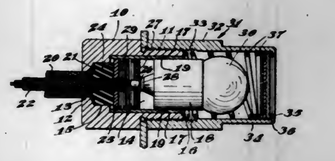
1. A flame tight switch enclosure comprising a switch supporting member, a switch mounted on said supporting member, a plurality of lead conductors extending from the terminals of said switch through said supporting member and externally thereof and being sealed in flame tight relation in said member, switch actuating mechanism carried by said supporting member and being operable externally thereof, and a cover member enclosing said switch, and means operable to detachably secure said members together in flame tight relation.

2,321,509
ELECTRIC SADIRON
Bror G. Olving, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application September 18, 1941, Serial No. 411,304
4 Claims. (Cl. 38—79)



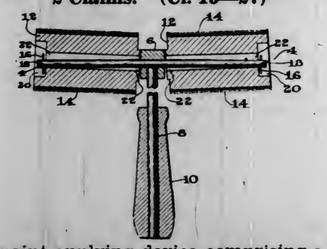
1. An electric iron comprising a heated body, a relatively thick metallic cover thereover spaced from the body and having integral therewith and extending over and beyond the rear end portion of the cover a plurality of spaced heat-dissipating fins extending substantially at right angles relatively to the outer surface of the cover, the spaces between the fins being open over the major portion of their outer periphery and at their front edges to cause a current of cooling air to flow between said fins and cool said cover.

2,321,510
LAMP
Norman O. Paquette, Ottawa, Ontario, Canada
Application November 29, 1941, Serial No. 421,051
5 Claims. (Cl. 240—7.1)



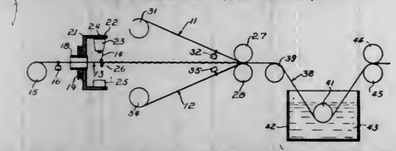
1. In a device of the character set forth, a body having an outer hexagonal surface and a forwardly extending threaded surface and an apertured end, said body further having a bore and a counter-bore, the counter-bore communicating with said aperture, bulb securing means within said bore, a spring urged contactor and spring therefor mounted within said bore, a conductor extending into said bore, and engaging said contactor, a resilient washer within said counter-bore and encircling said conductor, a loom encircling said conductor and extending therewith through said aperture, said loom having its terminal ends flared within said counter-bore and lying between said washer and the end walls of the counter-bore, said spring being compressible by insertion of a bulb in the bulb holder, and means whereby compression of said spring exerts pressure on the washer to secure the loom ends and snugly embrace the conductor.

2,321,511
PAINT APPLYING DEVICE
William Piercy, Philadelphia, Pa.
Application August 12, 1942, Serial No. 454,625
2 Claims. (Cl. 15—27)



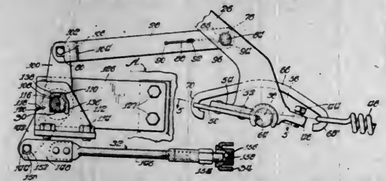
1. A paint applying device comprising a pair of rollers having internal longitudinal bores, and a shaft extending through said bores for supporting said rollers, the diameter of said shaft being much smaller than the diameter of said bores, whereby each of said rollers is adapted to assume a position parallel to, or at an angle to the axis of said shaft and the axis of the other of said rollers.

2,321,512
METHOD AND APPARATUS FOR FORMING REINFORCED TAPE
William C. Protz, Manitowoc, Wis., assignor to National Tinsel Manufacturing Company, Manitowoc, Wis., a corporation of Wisconsin
Application September 6, 1940, Serial No. 355,683
16 Claims. (Cl. 57—6)



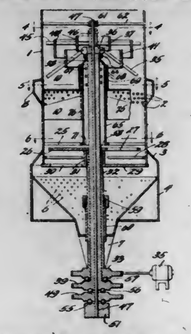
1. In a method of making a tape, the steps of providing a group of longitudinally parallel spaced threads in a substantially flat layer, incorporating with the spaced threads of said layer a cross thread lying in a sinuous path above and below said layer; providing a further group of spaced longitudinally parallel threads so relatively laterally arranged with respect to said first layer that certain of the threads of the respective groups are positioned for intercalation, and pressing said groups together into a flat tape.

2,321,513
FRICTION CLUTCH
Harold V. Reed, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 30, 1940, Serial No. 354,777
23 Claims. (Cl. 192—99)



7. Clutch operating linkage including a shaft adapted to transmit clutch operating movement toward a clutch, a crank member on said shaft, and a link member for transferring movement to said crank member from an operator element, one of said members having a rigidly mounted pin extending parallel to the axes of the pedal fulcrum and said shaft respectively and the other of said members having an opening larger than said pin and receiving the same, said opening having a side presenting a substantially flat bearing surface, substantially normal to the direction of transmission of movement between said members, against which said pin is adapted to make rolling contact during clutch operation.

2,321,514
SEPARATING PROCESS AND APPARATUS
Joseph W. Reed, Fairmont, W. Va.
Application August 3, 1940, Serial No. 350,764
20 Claims. (Cl. 209—475)



18. The process of separating material having constituents of different specific gravities, which comprises subjecting the lower portion of a body of such material to a current of fluid, causing the fluid to flow upwardly and controlling the force of said fluid flow to render the body of material viscous to a desired degree, for stratifying and diverting a portion of said fluid laterally through the stratifying body of material at a plurality of elevations, one above another thereby causing the remaining portion of said fluid to flow upwardly with progressively diminishing force through the stratifying body of material, while the fluid is operating upon the lower heavier strata with a force sufficient to retain the same viscous to a desired degree and is operating upon the upper lighter strata with diminishing force, controlling the amount of fluid removed at each of said elevations to thereby govern the upward diminishing force of the fluid flow to desired degrees to maintain said stratifying body viscous at all elevations to a degree efficient to effect continuous separation of the constituents of the material according to their densities within the range of their specific gravities, sinking the heavy constituents downward to the lower strata of said viscous portions of the body, flowing said lower strata downward and discharging the heavy constituents from said downward flow, retaining the remainder of said body and flowing onto the top thereof a stream of raw material, and flowing the light residue of said raw material from the surface of said retained body.

2,321,515
HOLE PLUGGER FOR SHIPS AND THE LIKE
Benjamin H. Rice, Los Angeles, Calif.
Application October 20, 1942, Serial No. 462,687
13 Claims. (Cl. 114—227)

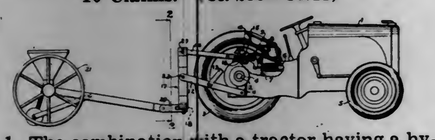
5. In a hole plugger for ships and the like, an elongated diametrically expansible tapered plug

furnished with an axial passage, a rod occupying said passage, one end portion of said rod projecting from the large end of said plug and the opposite end portion of the rod being in a secured non-slip relation to the portion of the plug there-



around, the intervening portion of the rod being in an unattached relation to said plug, a cam member secured to the projecting portion of said rod, and an abutment member against which said cam member acts simultaneously to shorten said plug and expand it diametrically.

2,321,516
TRACTOR DRAWBAR
Jack D. Robertson, Ralls, Tex., assignor of one-half to Gilbert O. Paudler, Crosbyton, Tex.
Application June 3, 1940, Serial No. 338,654
10 Claims. (Cl. 280—33.44)

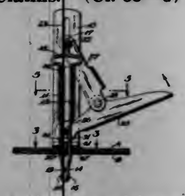


1. The combination with a tractor having a hydraulic power device therein and means for controlling the supply of fluid thereto, of a draw bar extending substantially in an upright direction rearwardly of the tractor and having means for connection with an implement adjacent the lower end portion thereof, and links pivotally connected with the draw bar intermediate the ends thereof and adjacent the upper end thereof respectively, one of said links being pivotally connected with the tractor and the other being operatively connected with the controlling means.

2,321,517
LUBRICANT COMPOSITION
Raphael Rosen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 2, 1941, Serial No. 372,839
1 Claim. (Cl. 252—34)

A lubricant containing dissolved therein 0.05% to 5% of tetra-n-butyl ammonium iodide.

2,321,518
FASTENING DEVICE
Peter F. Rossmann, Buffalo, N. Y., assignor to Irving Rossi, West Orange, N. J.
Application May 23, 1941, Serial No. 394,844
15 Claims. (Cl. 85—5)



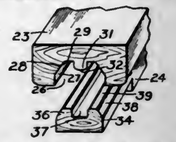
1. A fastening device comprising a support provided with an opening, a unitary wire member bent in U-fashion to provide a pair of resilient prongs having their lower ends urged toward each other and having their upper parts bent to form resilient loops, lateral outward protuberances at the lower ends of said prongs, a spreader arranged in relatively fixed relation to said support and projecting through the center of said opening, said prongs being arranged to have their intermediate portions in sliding engagement with the opposite faces of said spreader, the combined cross-sectional width of said prongs and said spreader substantially conforming to the width of said opening, and means for slidingly supporting said loop by said support.

2,321,519
DRIP CATCHING PLATE FOR INDIVIDUAL PORTIONS OF ICE CREAM
Mark Rubinoff, New York, N. Y.
Application May 5, 1941, Serial No. 392,012
3 Claims. (Cl. 229—1.5)



1. A drip catching device for use in combination with an ice cream holder of the character described, comprising a plate element having a central depression forming a pocket adapted to receive an ice cream holder in cup form, said element extending laterally of and all around said holder a distance sufficient to enable said element to catch all drippings falling from ice cream carried by said holder, the bottom of said pocket having a central disk portion defined by a weakened circular line facilitating the severing of said disk portion from said bottom.

2,321,520
DRAWER GUIDE
Albert J. Ruckman, Mayville, N. Y., assignor to Chautauqua Cabinet Company, Mayville, N. Y., a corporation of New York
Application February 12, 1941, Serial No. 378,603
4 Claims. (Cl. 45—77)

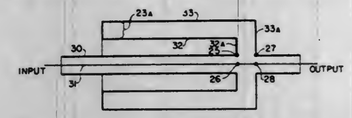


1. A guide for operably mounting a drawer in an article of furniture comprising one element attached to said drawer and a second element attached to said article, walls defining a longitudinally extending recess in said one element, a rib projecting away from the base wall of said recess and dividing said recess in part into lesser recesses, a longitudinally extending pair of ribs on the second element, the ribs of the elements interfitting and maintaining the elements in operative alignment.

2,321,521
FREQUENCY BAND FILTER
Hans Salinger, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application January 10, 1941, Serial No. 373,870
2 Claims. (Cl. 178—44)

2. A four-terminal transmission-line network

comprising a coaxial main line having an inner conductor and a shield conductor connected to the input and output ends of the network, and means connected to said main line providing a surface constituting a physical extension of the surface of one of said main line conductors and having a configuration such that it presents a

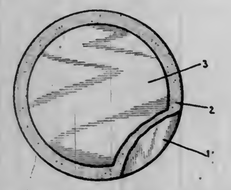


pair of spaced cylindrical elements surrounding said main line conductors throughout a substantial portion of the length thereof, whereby current waves travel a substantially longer distance along the surface of said one of said conductors than along the other between said input and output ends of said network effectively to provide a series reactance in said network.

2,321,522
MAGNESIUM CEMENT ARTICLE AND METHOD OF MAKING THE SAME
Ernest Sands, Trenton, N. J.
No Drawing. Application June 5, 1939, Serial No. 277,455
18 Claims. (Cl. 18—47.5)

5. The process for producing articles from magnesium oxychloride cements, which comprises forming a paste comprising water, a wax magnesium oxide and magnesium chloride, pouring the paste into a suitable mold, allowing the material to solidify until it can be removed in one piece from the mold, and forming the material into the desired shape by the application of sufficient pressure.

2,321,523
METHOD OF RECLAIMING SELENIUM ELEMENTS
Otto Saslaw, Kearny, N. J., assignor to Federal Telephone and Radio Corporation, a corporation of Delaware
Application June 27, 1942, Serial No. 448,863
5 Claims. (Cl. 175—366)



1. The method of reclaiming a selenium element which comprises applying hydrochloric acid, then fusing the remaining selenium and allowing it subsequently to harden, then pressing selenium powder in the uneven portions of the selenium surface at a high pressure and an elevated temperature.

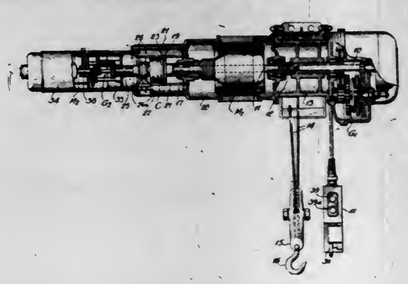
2,321,524
TEN PIN
Frank Schafer, Green Bay, Wis.
Application January 9, 1942, Serial No. 426,203
2 Claims. (Cl. 273—82)

1. A removable cap or covering member, shaped to snugly fit and completely enclose the upper end of a bowling pin, characterized by said cap or covering member being of resilient mate-



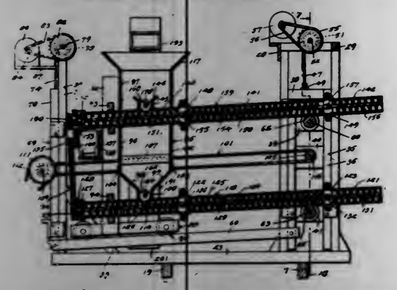
rial and having upon the outer surface thereof a representation of a living creature.

2,321,525
ELECTRIC HOIST
Charles S. Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application November 16, 1940, Serial No. 365,934
4 Claims. (Cl. 254—168)



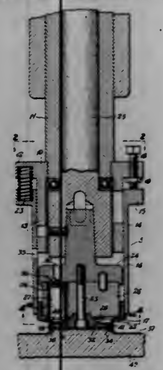
4. In a hoist of the class described, a hoisting member, a motor for driving said hoisting member, a set of gears intermediate said motor and hoisting member and through which said motor drives said hoisting member, a second motor in axial alignment with said first motor, a second set of gears driven by said second motor, a casing secured between said motors in which said gears are mounted, an electro-magnetic clutch positioned between said second set of gears and said first motor, the driven portion of said clutch being formed, in effect, as an extension of the shaft of said first motor while the driving portion of said clutch is, in effect, an extension of the final gear of said second set of gears, electric circuits for said motor and clutch, means for closing simultaneously the electric circuits through said second motor and said clutch while opening the circuit through said first motor whereby said second motor drives said hoisting member through the intermediary of said second set of gears, said clutch, said first motor and said first of gears, said means being adapted also for opening the circuit through said clutch and second motor while closing the circuit through said first motor, whereby said first motor will drive said hoisting member free of said second motor and said second set of gears.

2,321,526
RETORT CHARGING MACHINE
Jess E. Scouten, Medford, Okla., assignor to Thomas P. Morrison, Blackwell, Okla.
Application April 16, 1941, Serial No. 388,897
5 Claims. (Cl. 214—18)



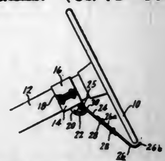
1. In a retort charging machine a hopper, a plurality of superposed charger members directly communicating with said hopper, a support frame for said members, said hopper comprising a rectangular box-like construction having a flared open top and a centrally converging downwardly inclined bottom, a longitudinally extending casing located centrally of said bottom, a second longitudinally extending casing located parallel to and above said first named casing, and double opposed feed screws mounted in said casings and being adapted to feed material centrally of said casings to said charger members.

2,321,527
METAL SPINNING APPARATUS
John W. Shera, Shaker Heights, Ohio, assignor, by mesne assignments, to American Flange & Manufacturing Co., Inc., New York, N. Y., a corporation of Illinois
Application December 9, 1939, Serial No. 308,406
4 Claims. (Cl. 113—19)



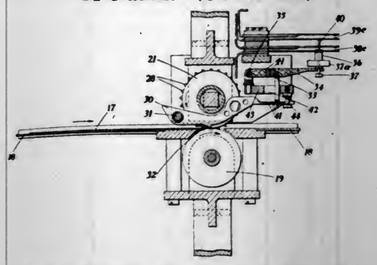
1. In pressure spinning apparatus, a work support, a sleeve holder movable toward and away from said support, an external pressure sleeve non-rotatably mounted on said holder and provided with an annular work engaging surface for engagement with the work on said support, rotatable spinning means carried by said holder and mounted within said pressure sleeve, said spinning means having spinning rolls with work engaging surfaces normally located above and spaced from said annular work engaging surface, means slidably and yieldably mounting said sleeve on said holder for simultaneous movement of said sleeve and spinning means downward toward said support permitting the work engaging surfaces of the spinning rolls to approach the plane of the annular work engaging surface of the sleeve, and means for positively downwardly moving the sleeve with the spinning means when a predetermined amount of approach has occurred.

2,321,528
AUTOMOBILE ACCESSORY
Archie A. Sherer, Dayton, Ohio
Application June 26, 1941, Serial No. 399,817
7 Claims. (Cl. 74—566)



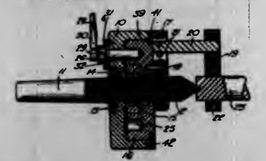
1. An accessory for a motor vehicle having a steering wheel, said accessory including a shield having a portion radially disposed beyond the rim of the steering wheel so as to shield a portion of the steering wheel, said shield being interposed between the trunk of the driver's body and the nearest portion of the steering wheel to hold the driver's clothing out of contact with the steering wheel, and adjustable means for attaching the shield to the steering column, said means including a shank portion integral with the edge of the shield.

2,321,529
STAMP COUNTING MACHINE
Walter Herbert Slinn, London, England, assignor to R. B. Pullin & Company Limited, Brentford, Middlesex, England, a British company
Application June 12, 1940, Serial No. 340,204
In Great Britain June 13, 1939
14 Claims. (Cl. 235—98)



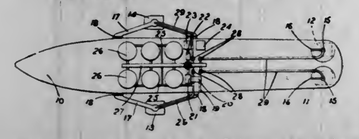
1. A mechanism for counting stamps in complete or partial sheet form, comprising, in combination, means for feeding the sheet into the machine, a plurality of electrical circuits equal in number to the maximum number of stamps in a transverse row in any of said sheets, a corresponding number of selector fingers for controlling said circuits pivoted on a horizontal axis, a roller disposed below said selector fingers, a downwardly extending pointed projection on the underside of each of said selector fingers normally just contacting the surface of said roller, said sheet-feeding means conveying the stamps between said roller and said pointed projections to cause rocking of said selector fingers for each line of stamps, electrical contacts associated with said selector fingers, a system of multiplying levers for actuating the contacts associated with each of said selector fingers, means for transmitting the rocking movement of each of said selector fingers to the corresponding system of multiplying levers, a counter, and counter operating means controlled by said contacts.

2,321,530
SCREW-CUTTING LATHE
George Frederick Stinson, Nuneaton, England
Application August 20, 1941, Serial No. 407,643
In Great Britain September 5, 1940
6 Claims. (Cl. 82—40)



1. For use with a screw-cutting lathe when a multi-start thread is to be cut, adjustable work-driving means including a driving member adapted to be driven from a lathe spindle, said member having a shank adapted to be gripped in the chuck of a screw-cutting lathe, a driven member adapted for driving the work, one of said members being of disc form and the other member being coaxially and rotatably mounted with respect thereto, one of said members having in it a plurality of holes spaced angularly from one another in a predetermined manner and the other of said members carrying a retractable pin adapted to selectively be engaged with said holes, and said disc member having a plurality of visual markings thereon spaced angularly according to the spacing of said holes, and the other of said members having a pointer marking to coact with said visual markings.

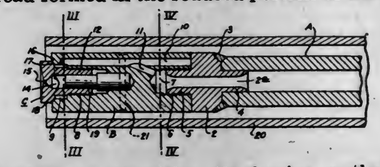
2,321,531
PROPELLING APPARATUS FOR WATERCRAFT
Norman Arthur Thompson, London, England
Application November 21, 1942, Serial No. 466,444
In Great Britain November 22, 1941
12 Claims. (Cl. 115—11)



1. Apparatus for the propulsion of watercraft comprising a body formed with a plurality of conduits which contract from the front toward the rear, means for causing sheet-jets of fluid to issue under pressure in the walls of said conduits, near to the front end thereof and rearwardly directed over said walls, said sheet-jets of fluid being under such pressure as to propel thrust streams of water through said conduits, means for supporting said body on any craft to be propelled, and means for supplying pressure fluid thereto.

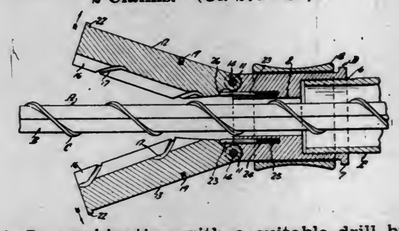
2,321,532
ATOMIZING NOZZLE
Joseph T. Voorheis, Oakland, Calif.
Application July 15, 1941, Serial No. 402,482
3 Claims. (Cl. 299—120)

1. In an atomizing nozzle of the character described, an elongated head member presenting a front and a rear end, a chamber formed in the rear end, means for connecting said chamber with a source of fluid supply under pressure, a chamber formed in the front end of the head and having an enlarged and a reduced portion, a plurality of passages formed in the head and extending longitudinally of the head, one end of said passages opening through the rear of the head and the other end opening into the enlarged portion of the front chamber, a screw-thread formed in the reduced portion of the front



chamber, an atomizing tip having a threaded connection with said screw-thread and closing the front end of the front chamber, a chamber and a discharge orifice formed in the atomizing tip, and a plurality of tangentially arranged inlet passages formed in the atomizing tip, said passages connecting at one end with the enlarged portion of the front chamber and at their opposite ends with the chamber within the atomizing tip.

2,321,533
DRILL CHUCK
Sophronius P. Wagoner, Hutchinson, Kans.
Application September 17, 1941, Serial No. 411,138
2 Claims. (Cl. 279—37)

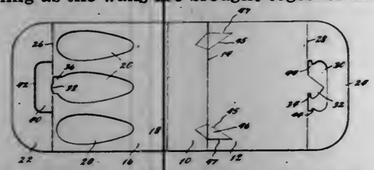


1. In combination with a suitable drill bit, a drill chuck comprising a shank having an enlarged socket in an end continued by a reduced bore to the other end thereof, a drill enclosing tube connected to said shank, pairs of opposed lugs secured to opposite sides of the shank, a pair of semi-circular drill bit gripping jaws each adapted to pivot between a pair of said lugs, spring means carried by said shank adapted to normally retain said jaws open, jaw closing means adapted to slide forward and close the jaws against the resistance of said spring means and clutch means in said jaws adapted to engage with said jaw closing means to retain said means in jaw closing position and thereby grip said suitable drill bit.

2,321,534
CARRIER CARTON
Otey Y. Warren, Roslyn Estates, N. Y.
Application August 29, 1939, Serial No. 292,393
2 Claims. (Cl. 224—45)

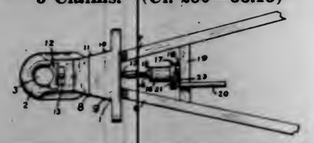
2. In a container, two oppositely positioned side walls, separable for opening the container, and latterally displaceable relatively to one another for locking and unlocking the container, one of said walls having therein a bottle opening with upwardly converging side edges and a narrower keeper slot forming a top extension of the bottle opening, and a latch member on the other

wall adapted to be projected through the bottle opening as the walls are brought together and by



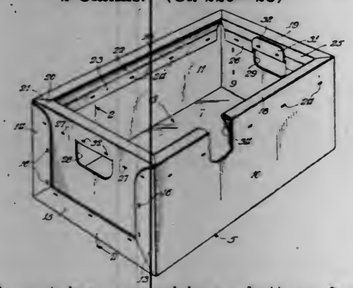
said converging edges guided into the keeper slot to lock the container.

2,321,535
COUPLING EYE
Dewey S. Weiss, Portland, Oreg.
Application October 10, 1941, Serial No. 414,462
3 Claims. (Cl. 280—33.15)



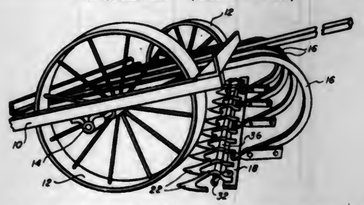
1. A coupling eye comprising, a closed loop attachable to a trailer tongue, a throat-piece slidable within said loop, a reciprocable rod of adjustable length secured to said throat-piece and extending rearwardly of said loop, a resilient element engaging the remaining end of said rod, cam means reacting against the trailer tongue to urge said resilient element, said rod and said throat-piece, in the direction of draft, and pivotal handle means attached to said cam means to operate and lock the latter.

2,321,536
CONTAINER
Earle W. Wells, Philadelphia, Pa., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application October 11, 1940, Serial No. 360,738
2 Claims. (Cl. 229—23)



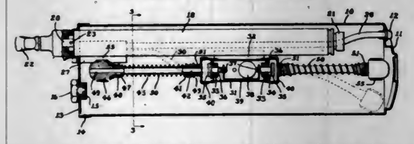
2. A container comprising a bottom, four interconnected walls, a rigid, rectangular, reinforcing frame of angle material having a vertical web extending entirely around the walls and contacting the inner surfaces thereof adjacent their upper edges and having a lateral web extending inwardly at substantially the level of the upper edges of said walls, narrow panel portions extending inwardly from the upper edges of said walls and engaging the lateral webs of the rectangular frame, extended portions on the inner edges of the narrow panel portions downwardly and outwardly inclined toward the inner surfaces of their supporting walls, and means for securing said downwardly and outwardly inclined extensions to said walls, whereby pockets are formed on the upper edge portions of said opposed walls, the width of the lateral web portions of the rectangular frame being such as to fit within the pockets with the inner edge of the lateral webs bearing on the downwardly and inwardly inclined extensions, whereby the rectangular frame is held in fixed relation to said walls.

2,321,537
WEEDER
Sylvester J. Williams, Ritzville, Wash., assignor to Claud C. Calkins, Spokane, Wash.
Application April 27, 1942, Serial No. 440,632
10 Claims. (Cl. 97—42)



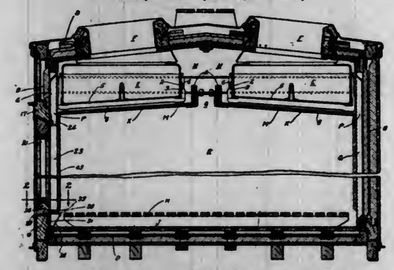
1. A weeder attachment, comprising: a flat horizontal bar, a series of plow shovels each having a shank attached to said bar, each of said plow shovels having an upper face inclined with respect to said bar, a horizontal weeding rod rotatably mounted along the edge of said bar and disposed between said bar and said plow shovels said weeding rod being free to rotate by the urgence imparted thereto solely by the passage of the rod over or through the earth.

2,321,538
FIRE EXTINGUISHER
John W. Wright, Dayton, Ohio, assignor to The Fyr-Fyter Company, Dayton, Ohio, a corporation of Ohio
Application March 8, 1940, Serial No. 322,873
1 Claim. (Cl. 299—96)



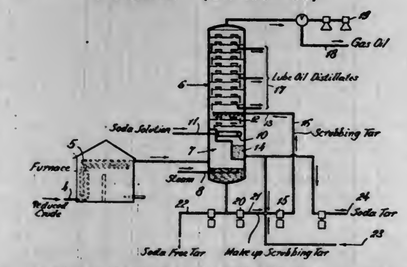
In a fire extinguisher of the character described having a casing for receiving a quantity of fire extinguishing fluid, pump means for supplying air under pressure to the fluid in said casing, and a discharge nozzle for discharging the fluid under pressure from said casing, the combination of a fluid pickup means within the casing in communication with the discharge outlet for picking up fluid from the lowermost part of said casing including a centrally located valve chamber, connectors extending from opposite ends of said valve chamber, a coiled spring supported on each said connector and extending toward the opposite ends of said casing, a relatively small weighted member carried by the outer end of each said spring and resiliently supported thereby adjacent the respective ends of the casing, the mass of said weights being correlated with the force of said spring to provide for fall of each said weight to the lowerpost part of its respective end of the casing while being resiliently opposed by the force of said spring, and a molded flexible tube extending coaxially of said spring from each connector outwardly to said weighted member and forming a conduit for the passage of fluid therethrough, said tube being incapable itself of supporting said weighted member and offering only limited resistance to movement of said weighted member, said spring causing the bending of said tube to be distributed over the length thereof.

2,321,539
REFRIGERATOR CAR CONSTRUCTION
Kurt E. Zeidler, Chicago, Ill., assignor to Standard Railway Devices Company, a corporation of Delaware
Application April 24, 1941, Serial No. 390,081
8 Claims. (Cl. 62—17)



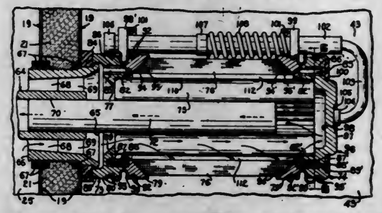
1. In combination with the roof, floor and a wall of a refrigerator car, refrigerating means near the roof, a doorway through said wall defined in part by a threshold and a door adapted to close said doorway and including a flue arranged to conduct cold air and liquid from said means to the lower part of the car, said threshold being substantially as wide as the combined thickness of said door and flue and including a part below said flue provided with apertures for passage of said air and liquid.

2,321,540
METHOD FOR THE DISTILLATION OF CRUDE OILS CONTAINING ACIDIC SUBSTANCES
Edwin Havens Atwood, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application November 4, 1941, Serial No. 417,765
7 Claims. (Cl. 196—35)



1. That method for the distillation of mineral oil containing acidic substances to produce distillates substantially free of acidic substances comprising heating the oil to a temperature sufficient to distill the desired fractions therefrom, separating vapors from residue, passing the vapors through a contact zone and therein contacting them with an alkaline reacting material, passing the alkali contacted vapors through a scrubbing zone wherein they are scrubbed by contact with a heavy oil fraction to remove alkaline material and reaction products therefrom, subsequently fractionating the vapors to desired product, and removing the scrubbing oil from the system while preventing its admixture with the main residual product of the distillation.

2,321,541
APPARATUS FOR PROCESSING THREAD
Richard F. Bergmann, Lakewood, and Clarence C. Walters, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application June 10, 1940, Serial No. 339,669
7 Claims. (Cl. 34—104)



1. Apparatus for processing a thread body of hollow, generally cylindrical form made up of a plurality of layers comprising demountable means disposed at each end of the thread body; means for maintaining said demountable means in substantially fixed relation to each other; supporting means cooperating with said demountable means for supporting said thread body; means associated with one of said demountable means for introducing a processing medium into the interior of the thread body; means associated with the other of said demountable means for directing the processing medium from the interior of the thread body to the exterior thereof, said directing means cooperating with the means for introducing the processing medium to create a flow of processing medium in a substantially axial direction within the interior of the thread body in contact with the innermost layers thereof; and flexible sealing means joining said supporting means and said demountable means for preventing escape of the processing medium from the interior of the thread body in the course of the processing operation.

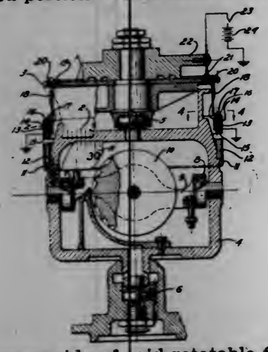
2,321,542
PREPARATION OF ALKOXY ALCOHOLS
Richard E. Brooks, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 16, 1940, Serial No. 324,378
11 Claims. (Cl. 260—615)

3. A process for the preparation of an acetal-alcohol which comprises heating a mixture of an aldehyde, a monohydric aliphatic alcohol and ethylene glycol in the presence of an acidic catalyst, and destroying the effectiveness of the catalyst before separating the acetal-alcohol produced from the resulting reaction mixture.

2,321,543
GYRO DRIFT CONTROL
Bert G. Carlson, Erieside, Ohio, assignor to Jack & Heintz, Inc., Cleveland, Ohio
Application February 21, 1942, Serial No. 431,843
1 Claim. (Cl. 33—204)

A directional gyroscope for aircraft comprising a stationary arm, a circular toothed frame

member rotatable on a vertical axis beneath said arm, a depending reference card having a graduated lower portion secured on the under side of said rotatable frame member, an annular shelf-like shoulder extending around said reference card just above the graduated portion thereof, there being a pair of arcuate slots in said shoulder on diametrically opposite sides thereof, mounting screws extending through said slots, a pair of small electromagnets secured by said screws in arcuately adjustable clamping relation with said shoulder, said electromagnets having pole faces adjacent the inside lower edge of the graduated portion of said card, a conductor ring



on the upper side of said rotatable frame member for energizing said electromagnets, a brush on said stationary arm for contacting said conductor ring, an electrical supply circuit connected with said brush, a switch in said circuit, a gyro directional element mounted for rotation on said vertical axis, a compass card surrounding said directional element adjacent and concentric of said reference card, and a pair of pieces of magnetic material secured on diametrically opposite sides of said directional element behind said compass card for coaction with said electromagnets to tend to resiliently hold said directional element in zero-zero relation with said frame member when said switch is closed.

2,321,544

PREPARATION OF METHYLOL UREA

Harry R. Dittmar and Daniel E. Strain, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 22, 1940, Serial No. 336,582
5 Claims. (Cl. 260—69)

1. A process for the preparation of a water-soluble methylol urea from normally solid 75 to 90% formaldehyde which comprises adjusting at a temperature between 75 and 95° C. a 75 to 90% formaldehyde, rendered fluid by heat, to a pH value between 6.5 and 12, thereafter adding urea, controlling the resulting reaction below 70° C. and recovering water-soluble methylol urea as a solid.

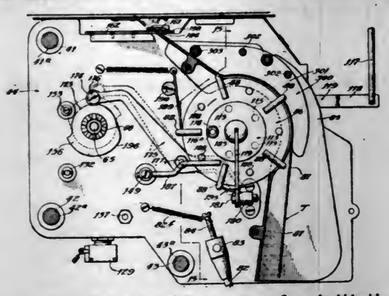
2,321,545

TICKET MACHINE

Carl Dodegge, Maywood, Ill., assignor, by mesne assignments, to Aero Metal Products Corporation, Chicago, Ill., a corporation of Illinois

Application February 24, 1942, Serial No. 432,165
57 Claims. (Cl. 164—49)

1. A ticket issuing machine comprising: a ticket delivery reel; a rotatably mounted indexing plate adapted to engage said reel in various positions; means for rotating said indexing plate from a normal position into a preselected position; means for moving said indexing plate into engagement with said reel, after said indexing plate has been rotated into a preselected posi-



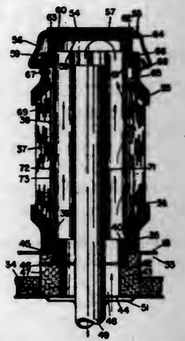
tion; manually operable means for initiating a ticket issuing cycle of operation of said machine; and means for returning said indexing plate from said preselected position to said normal position and thereby rotate said reel during a ticket issuing cycle of operation of the machine.

2,321,546

SEALING MEANS

Louis S. Fryer and Wayne J. Jokilehto, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application December 9, 1941, Serial No. 422,233
10 Claims. (Cl. 34—104)



6. Demountable means for sealing the end of a thread body while it is subjected to processing treatment comprising cover means which has the form of an inverted cup; a substantially annular member telescopically mounted with respect to said cover means, said annular member having a face adapted to contact an end of the thread body; and a substantially impervious flexible diaphragm secured to said cover means and annular member for preventing the escape of processing medium therebetween and permitting limited relative movement between said cover means and said annular member.

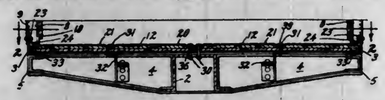
2,321,547

FLOOR PROTECTION FOR RAILWAY CARS

Garth G. Gilpin, Riverside, Ill.

Application July 3, 1941, Serial No. 400,889
7 Claims. (Cl. 105—422)

1. A metallic covering sheet for railway house car floor, said car having spaced side walls each consisting of spaced apart outer sheathing element, and inner lining elements, each sheet comprising a pair of sections, each section adapted to extend from the approximate center of the



car to said outer sheathing element and to rest upon the car floor, an upstanding flange formed on the edge of each section adjacent to and abutting said outer sheathing element, and means adapted to secure said sections to the car

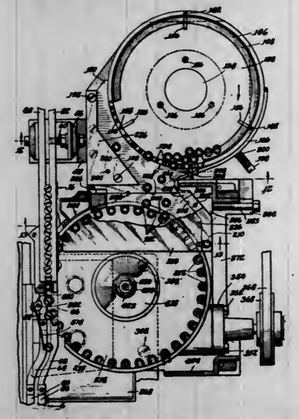
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2,321,548

WASHER FEEDING MEANS

Walter M. Hanneman, Oak Park, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Application July 8, 1940, Serial No. 344,359
16 Claims. (Cl. 10—169)



1. Countersunk washer feeding means comprising a rotating disc adapted to receive on its surface a supply of washers to be fed, said disc being inclined and having a plurality of radially extending openings in cross-section conforming to the cross-section of the countersunk washers to be fed, an arcuate washer retaining wall above said disc for retaining washers not positioned in a radial recess, said arcuate wall being located radially within a periphery of the disc whereby washers in said recesses pass beneath said wall to the periphery of the disc, means for rotating said disc to carry the washers to the point of use, and means for holding the washers on the periphery of the disc during such feeding.

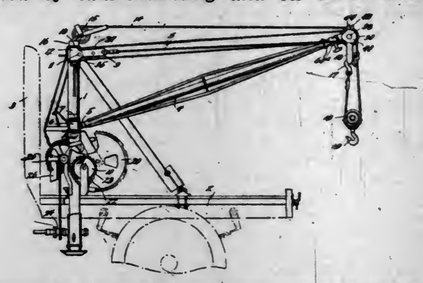
2,321,549

SHEAVE MOUNTING FOR HOISTING BOOMS

Ernest Walter Holmes, Chattanooga, Tenn., assignor to Ernest Holmes Company, Chattanooga, Tenn., a corporation of Tennessee

Application September 26, 1941, Serial No. 412,487
7 Claims. (Cl. 212—144)

1. In hoisting apparatus, the combination of a boom, a sheave mounting swivelled in the outer end of the boom for rotation about its longitudinal axis, a hoisting cable and a plurality of pairs of lines of a boom supporting cable, an inner sheave for the hoisting cable and a pair of outer sheaves for the boom supporting cable, and a shaft supported by said mounting and on which said



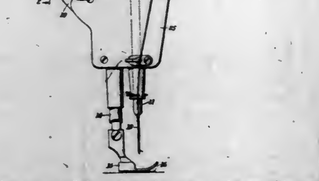
sheaves are journaled on a common axis transverse to the longitudinal axis of the boom.

2,321,550

ROTARY TAKE-UP FOR SEWING MACHINES

Henry N. Karr and Robert W. Stewart, Bridgeport, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application November 5, 1940, Serial No. 364,372
7 Claims. (Cl. 112—248)



1. In a sewing machine having a rotary-thread take-up element, and thread-severing means disposed in the plane of rotation of said take-up element, the improvement which consists in the provision of a guard-member disposed in the plane of rotation of said take-up element in position to intercept and detain the thread from thread-severing engagement by said means in the normal handling of the thread by said take-up element.

2,321,551

CATALYTIC DEHYDROGENATION AND HYDROGENATION

Donald John Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 17, 1941, Serial No. 402,848
7 Claims. (Cl. 260—621)

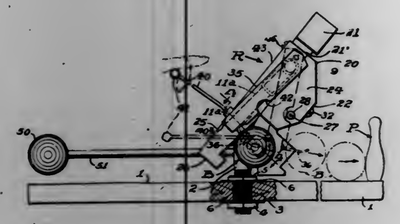
1. A process for producing phenol from benzene which comprises the steps of: (1) subjecting benzene and at least one substance from the group consisting of cyclohexanol and cyclohexanone to a catalytic hydrogen exchange reaction; (2) separating phenol and cyclohexane from the resultant product; (3) producing at least one substance of the said group by oxidation of the cyclohexane from step (2); and (4)

subjecting said substance and further quantities of benzene to a catalytic hydrogen exchange reaction as in step (1).

2,321,552
LATEX COAGULATION
Herbert A. Lubs, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 5, 1940, Serial No. 328,031
5 Claims. (Cl. 260—821)

1. A process for coagulating rubber latex which comprises adding thereto glycolic acid as a principal coagulant, and separating the resultant coagulated rubber.

2,321,553
ROBOT BOWLING DEVICE
Irving H. McFalls, Mount Vernon, N. Y., assignor to Frank Bloise, New York, N. Y.
Application December 2, 1940, Serial No. 368,154
3 Claims. (Cl. 124—7)



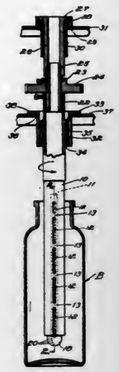
1. In a bowling game device of the character described, a robot figure having a pivotal arm, the free end of which abuts a stop-in thereon, said arm normally held under suitable spring action therewith, said free end having a finger member extending therefrom, said finger member being a flexible fine wire looped upwardly at its extreme end portion, whereby a miniature bowling ball with a hole therein, may be held onto said flexible wire by a three point suspension, means to draw back said arm under said action, and when released, said arm strikes against said stop-pin, thereby catapulting said ball from its wire support onto the bowling floor in the direction of the standing pins thereon.

2,321,554
SUPPLEMENTARY SASH AND FRAME FOR WINDOW OPENINGS
Leland T. Milnor, Indian Hill, Ohio, assignor to The Cincinnati Fly Screen Company, Cincinnati, Ohio, a corporation of Ohio
Application February 9, 1942, Serial No. 430,062
5 Claims. (Cl. 160—107)



5. A storm sash and frame unit for ready application within a conventional window frame, comprising: a frame having side and top rails each of Z form in cross-section, providing an outer flange for applying the frame to a conventional window frame and an inner flange providing an outer stop for the sash sustained within the frame, an upper sash laterally removable from the frame and adapted to be locked therein, and a screen and light sash relatively adjacently disposed within the lower section of the frame with the screen sash outermost, the side rails for the lower sash portion of the frame forming a channel for slidably mounting the lower sash, adapting the same to be elevated for removal from the frame from the upper sash portion thereof.

2,321,555
INTERNAL NOZZLE FOR TEMPERING BOTTLES AND OTHER GLASS CONTAINERS
Charles E. Mongan, Jr., Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application April 26, 1941, Serial No. 390,591
8 Claims. (Cl. 299—137)

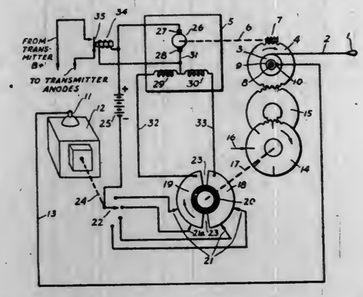


1. A nozzle of the character described comprising an elongate tubular body having a longitudinally extending slot in a portion thereof, said slot being open at the interior of said tubular body, said tubular body having an elongate aperture in the bottom of said slot of less width than said slot and open at the outer periphery of said tubular body, and a removable and replaceable elongate slide member fitting in said slot and having a series of jet holes formed therein in communication with the elongate aperture in the bottom of said slot.

2,321,556
ANTENNA REEL CONTROL
Nicholas M. Raskhodoff, Hyattsville, Md., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 16, 1941, Serial No. 410,971
5 Claims. (Cl. 250—33)

1. In combination with an antenna reel and radio apparatus having a channel selector switch, means for automatically extending a plurality of predetermined lengths of antenna wire in accordance with the setting of said channel selector switch, said means comprising, a reversible electric motor operably connected to said reel, a power source for said motor, a split disc controller for said electric motor, said split disc controller being operably connected to said reel, a plurality

of stationary contacts engaging said split disc controller, and means mechanically coupled to

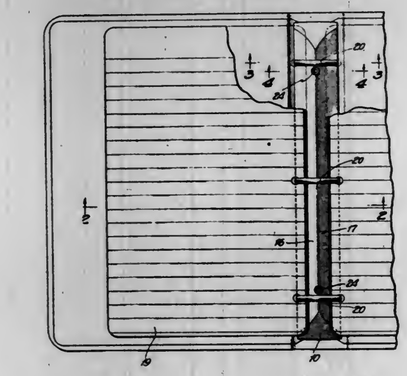


said channel selector switch for selectively energizing said contacts.

2,321,557
PREPARATION OF ACETALS
Sidney Sussman, Moorestown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 28, 1940, Serial No. 358,879
8 Claims. (Cl. 260—615)

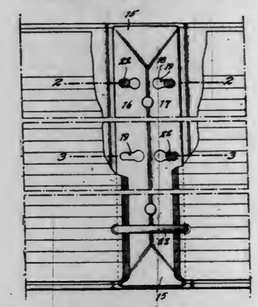
4. A process for the preparation of 1,2-di-(methoxymethoxy) ethane which comprises reacting methylal with (methoxymethoxy) ethanol in the presence of an acidic catalyst.

2,321,558
RING BINDER
Clarence D. Trussell, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York
Application July 23, 1942, Serial No. 452,111
3 Claims. (Cl. 129—1)



3. A binder of the character disclosed, comprising a non-metallic back piece of solid material such as wood, said back piece having oppositely disposed transversely extending slots undercut toward their outer ends to form opposed marginal confining ledges and enlarged at the inner ends to provide access beneath said ledges and rings consisting of short lengths of firm, flexible, smooth, hard, springy non-metallic material having end portions of a size to enter the larger ends of said slots and to pass beneath said marginal ledges, said end portions having transverse grooves in opposite sides of the same of a width approximating the wall thickness of said ledges, said grooves being of a depth reducing the cross-section of the ring material to substantially the width of the narrow portions of the slots between said ledges, whereby when engaged in said narrow portions of the slots, said grooved end portions will be engaged and held by the ledges both above and below the ledges and will be gripped between said ledges and thereby braced and made to stand up firmly on the back piece, said grooves lying in planes which form an obtuse angle between themselves to hold said upstanding end portions of the rings in outwardly divergent relation to tension said rings in an opening direction when both ends are anchored in place and whereby upon release of either end of a ring, said end will spring up from the back piece while supported by the other end which remains firmly anchored in upstanding relation on the back piece.

2,321,559
RING BINDER
Clarence D. Trussell, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York
Application November 23, 1942, Serial No. 466,692
1 Claim. (Cl. 129—1)

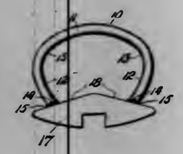


A binder comprising a back having oppositely disposed transversely extending slots undercut to provide opposed retaining ledges and enlarged at the inner ends of said ledges and rings of springy material having stem portions of a size to enter the larger ends of said slots and to pass beneath said retaining ledges, said stem portions having reduced neck portions of wedge-shaped cross-section of a size to enter between and frictionally engage opposing edges of said retaining ledges and tapered toward the outer ends of said slots.

2,321,560
RING BINDER
Clarence D. Trussell, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 467,641
4 Claims. (Cl. 129—1)

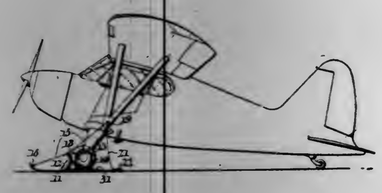
1. In combination, a binder back, comprising a strip of wood substantially triangular in cross-section having convergently inclined substantially flat upper faces with transversely extending keyhole slots therein and the smaller end portions of said keyhole slots being undercut in inclined pockets extending from the larger ends of said slots beneath said smaller ends and providing inclined ledges outlining said smaller portions of the slots and the edges about said in-

clined ledges being rounded, and binder rings of springy plastic rod preformed in flat arch shape each with an intermediate substantially straight portion and substantially straight stem portions connected with opposite ends of the substantially straight intermediate portion by rounded bends,



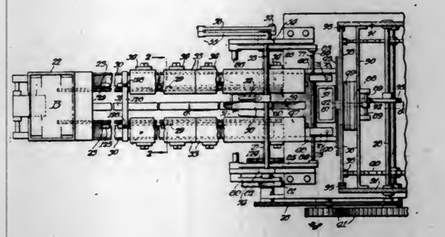
the ends of said stem portions being of a size to enter the larger ends of the keyhole slots and to pass beneath said ledges and said stem portions being grooved in opposite sides with rounded surfaces substantially to match and to firmly grip the rounded edges of said ledges.

2,321,561
SKI MECHANISM FOR AIRCRAFT
Richard Bircher, Philadelphia, Pa., assignor to Aeronautic Sales & Service, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application June 15, 1940, Serial No. 340,687
6 Claims. (Cl. 280—13)



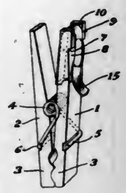
1. A ski unit for use in association with the landing wheel of an aircraft or the like, having the form of a shoe with an elongate flat-surfaced bottom component or ski which contacts tangentially with the bottom of a resilient tire on the wheel, and a rearwardly-open attached U-shaped cradle component whereof the top edge portion is rounded at the front for contact at an elevation above the ski component with the tire periphery and declines rearwardly in contact with opposite sides of the tire below the wheel center, whereof the lower edge or shock-dissipating portion is substantially wider transversely than the tire and extends forwardly beyond the front of the upper edge portion, and whereof said upper and lower edge portions are joined by downwardly and outwardly sloping buttress means capable of resisting the forward and lateral thrusts encountered in taking-off or landing of the craft; means whereby the unit is supported from the wheel so as to pivot on the axis of the latter; and restraining means whereby the ski is held in substantially horizontal position with capacity for limited pivoted movement about the wheel axis during taking-off or landing.

2,321,562
CARTON FORMING METHOD AND APPARATUS
Don W. Coy, Chicago, and Walter T. Ritter, River Forest, Ill., assignors to United Biscuit Company of America, Chicago, Ill., a corporation of Delaware
Application March 15, 1940, Serial No. 324,032
11 Claims. (Cl. 93—51)



1. The method of forming a carton which comprises the steps of providing prefabricated carton blanks having thermoplastic adhesive material on predetermined portions of the blanks, propelling the carton blanks edgewise, effecting softening of the adhesive material by directing radiated heat thereto during the travel of the blanks and then, while the adhesive remains soft and tacky, folding the blanks into receptacle form and pressing together the portions thereof to be united by said adhesive.

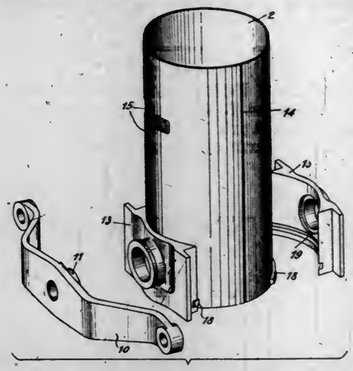
2,321,563
SPRING CLIP ATTACHMENTS FOR CLOTHESPINS
Lester H. Penley, West Paris, Maine
Application August 17, 1942, Serial No. 455,059
4 Claims. (Cl. 24—137)



3. A spring for attachment to a clothes clip of the type having two jaws, one of which has a shoulder defining a recess to receive the clothesline when the clothes clip is supported thereon, said spring being U-shaped and formed of thin flat stock to fit over the upper end of the shouldered jaw and to establish first and second portions each engageable with oppositely disposed jaw surfaces, the first spring portion including at its extremity a pair of prongs disposed to be embedded in the jaw and the second spring portion having an outwardly bent end and being shaped intermediate its ends to overlie the shoulder and to engage the jaw below the recess to establish a resilient clip yieldable to permit the clothesline to pass between it and the jaw when the clothes clip is to be supported on the clothesline or removed therefrom, said second spring portion resiliently engaging the clothesline and the marginal portions of said second spring portion being disposed towards said first spring portion to define braced edges to embed in the clothesline to anchor the clothes clip against movement along the clothesline.

2,321,564
FOUR-STROKE CYCLE INTERNAL COMBUSTION ENGINE OF THE SLEEVE VALVE TYPE
Ernest Schmid, Annecy, France; vested in the Alien Property Custodian
Application November 28, 1939, Serial No. 306,558
In Germany January 31, 1939
2 Claims. (Cl. 123—75)

1. In a sleeve-valve type internal combustion engine, a cylinder, a piston and a single sleeve-valve made of material as thin as possible, between the said cylinder and the piston, a slit extending without baffling over the entire length of the sleeve-valve, symmetrically disposed driving means for reciprocating the sleeve-valve, rigid bearings independent of the sleeve-valve, taking up every stress of the driving means not directed parallelly to the cylinder axis and connection means between the sleeve-valve and the driving

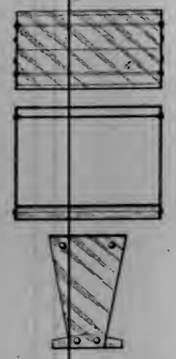


means, the said connection means being so directed that they remain disconnected for every effort non-parallel to the said cylinder axis.

DESIGNS

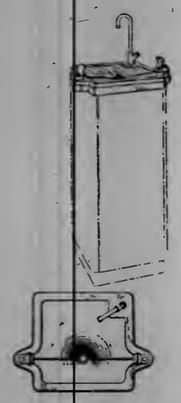
JUNE 8, 1943

135,771
DESIGN FOR A GARMENT RACK
Herbert B. Beidler, Chicago, Ill.
Application April 19, 1943, Serial No. 110,001
Term of patent 7 years



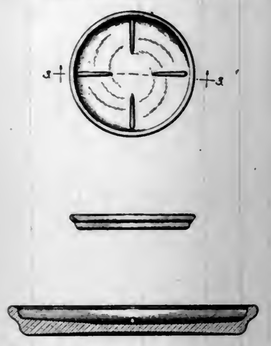
The ornamental design for a garment rack, as shown and described.

135,772
DESIGN FOR A WATER COOLER
Christopher M. Cordley, New York, N. Y., assignor to Cordley & Hayes, New York, N. Y., a corporation of New York
Application February 4, 1943, Serial No. 109,449
Term of patent 14 years



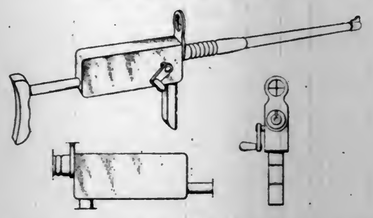
The ornamental design for a water cooler, as shown and described.

135,773
DESIGN FOR A COASTER
Francis J. Curran, Oak Park, Ill.
Application April 7, 1943, Serial No. 109,919
Term of patent 7 years



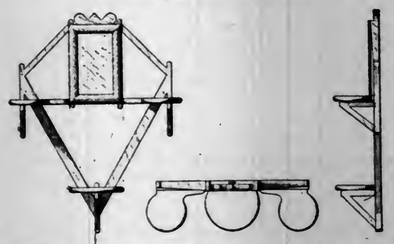
The ornamental design for a coaster, as shown.

135,774
DESIGN FOR A TOY GUN
Samuel L. Leider, New York, N. Y.
Application April 26, 1943, Serial No. 110,045
Term of patent 7 years



The ornamental design for a toy gun, substantially as shown.

135,775
DESIGN FOR A SHELVED BRACKET
John P. Nichols, Philadelphia, Pa.
Application February 26, 1943, Serial No. 109,629
Term of patent 14 years



The ornamental design for a shelved bracket, substantially as shown.

135,776
DESIGN FOR A TOY ANIMAL FIGURE
Margaret Siebel, New York, N. Y.
Application April 23, 1943, Serial No. 110,022
Term of patent 14 years



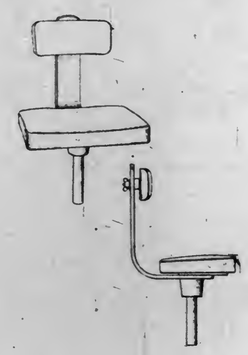
The ornamental design for a toy animal figure, as shown.

135,777
DESIGN FOR A GLIDER
William I. Smith, Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application February 6, 1943, Serial No. 109,479
Term of patent 14 years



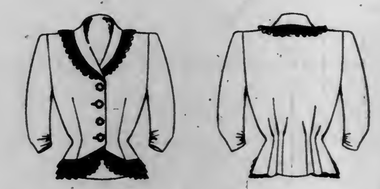
The ornamental design for a glider, as shown.

135,778
DESIGN FOR A COMBINED SEAT AND BACK REST FOR A CHAIR OR THE LIKE
Glenn D. Wood, Elkhart, Ind., assignor to Posture Research Corporation, Elkhart, Ind., a corporation of Indiana
Application July 7, 1942, Serial No. 107,443
Term of patent 14 years



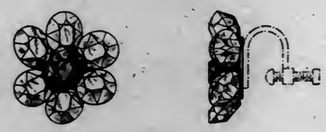
The ornamental design for a combined seat and back rest for a chair or the like, substantially as shown.

135,779
DESIGN FOR A JACKET
Samuel Zahn, New York, N. Y.
Application December 7, 1942, Serial No. 108,972
Term of patent 3½ years



The ornamental design for a jacket, substantially shown.

135,780
DESIGN FOR AN EARRING
Nat Levy, New York, N. Y.
Application May 7, 1943, Serial No. 110,144
Term of patent 3½ years



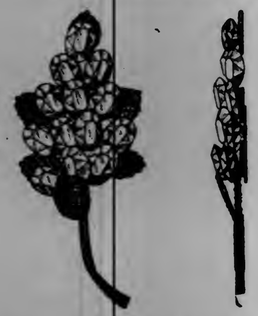
The ornamental design for an earring, substantially as shown.

135,781
DESIGN FOR A BROOCH
Nat Levy, New York, N. Y.
Application May 7, 1943, Serial No. 110,145
Term of patent 3½ years



The ornamental design for a brooch, substantially as shown.

135,782
DESIGN FOR A BROOCH
Nat Levy, New York, N. Y.
Application May 7, 1943, Serial No. 110,146
Term of patent 3½ years



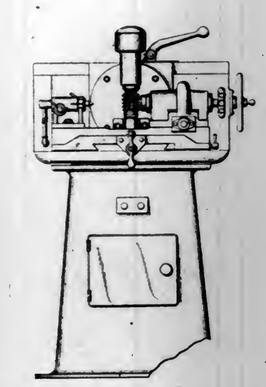
The ornamental design for a brooch, substantially as shown.

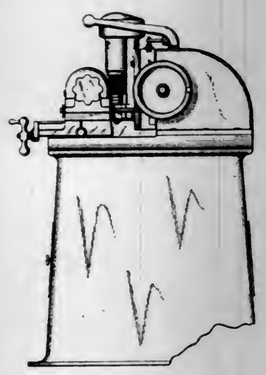
135,783
DESIGN FOR A BROOCH
Nat Levy, New York, N. Y.
Application May 7, 1943, Serial No. 110,147
Term of patent 3½ years

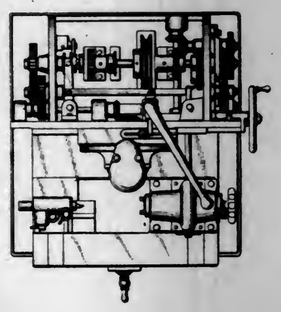


The ornamental design for a brooch, substantially as shown.

135,784
DESIGN FOR A GEARING HOBBING MACHINE
Anthony J. Vasselli, Newark, N. J.
Application January 6, 1943, Serial No. 109,211
Term of patent 14 years







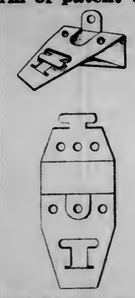
The ornamental design for a gear hobbing machine, as shown.

135,785
DESIGN FOR A SHAKER FOR SALT AND PEPPER
Rudy V. Ganz, Zanesville, Ohio, assignor to Shawnee Pottery Co., Zanesville, Ohio
Application April 27, 1943, Serial No. 110,057
Term of patent 14 years



The ornamental design for a shaker for salt and pepper, as shown.

135,786
DESIGN FOR A COMBINED HANGER AND EASEL
Adolphe Grivin, New York, N. Y.
Application March 29, 1943, Serial No. 109,847
Term of patent 7 years



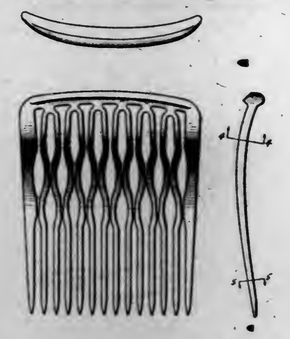
The ornamental design for a combined hanger and easel, substantially as shown.

135,787
DESIGN FOR A WATERPROOF JACKET
John E. Hard, Cranston, R. I., assignor to Goodyear Footwear Corporation, Providence, R. I., a corporation of Delaware
Application September 18, 1942, Serial No. 108,273
Term of patent 14 years



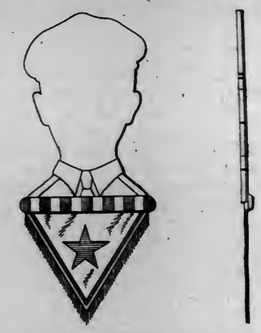
The ornamental design for a waterproof jacket, substantially as shown and described.

135,788
DESIGN FOR A COMB
Dorothy Phillips and Harold V. Hahn, Cleveland, Ohio
Application January 25, 1943, Serial No. 109,344
Term of patent 14 years



The ornamental design for a comb, substantially as shown.

135,789
DESIGN FOR A BADGE OR THE LIKE
Raymond Robert Primozich, Denver, Colo.
Application March 16, 1943, Serial No. 109,764
Term of patent 7 years



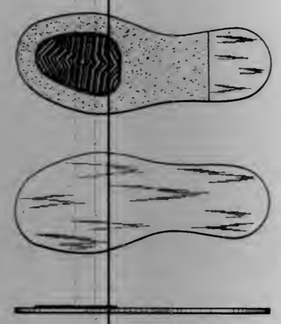
The ornamental design for a badge or the like, substantially as shown.

135,790
DESIGN FOR A JEWELRY FINDING OR THE LIKE
Jessamine Catherine Sneed, Ardmore, Okla.
Application September 17, 1942, Serial No. 108,262
Term of patent 14 years



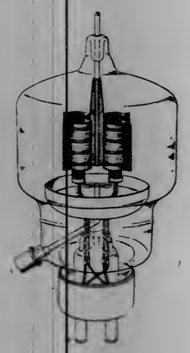
The ornamental design for a jewelry finding or the like, as shown.

135,791
DESIGN FOR A SHOE SOLE
E. Colman Beebe, Nashua, N. H., assignor to Beebe Brothers Rubber Company, Nashua, N. H., a corporation of New Hampshire
Application April 16, 1943, Serial No. 109,985
Term of patent 14 years



The ornamental design for a shoe sole, as shown.

135,792
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application October 2, 1942, Serial No. 108,406
Term of patent 14 years



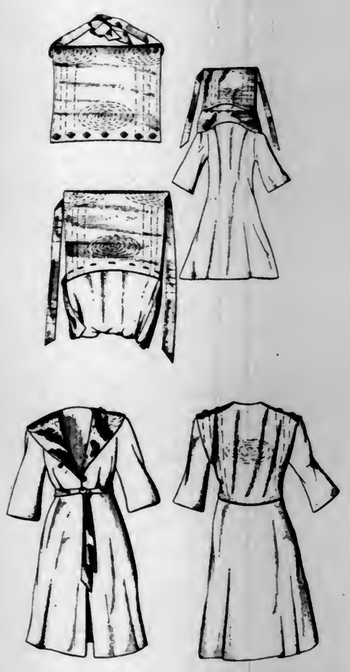
The ornamental design for a vacuum tube, substantially as shown.

135,793
DESIGN FOR A SERVICE BAR PIN
James H. Fisher, Marshalltown, Iowa
Application March 23, 1943, Serial No. 109,805
Term of patent 7 years



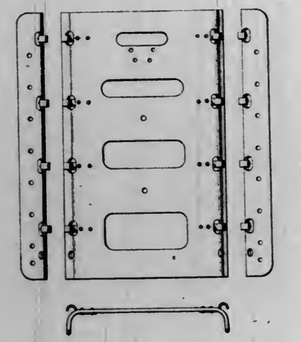
The ornamental design for a service bar pin, as shown.

135,794
DESIGN FOR A COMBINATION BAG AND GARMENT
Diana Morgan Jackson, New York, N. Y.
Application September 4, 1941, Serial No. 103,154
Term of patent 14 years



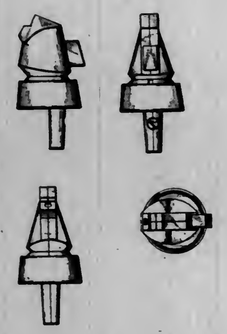
The ornamental design for a combination bag and garment substantially as shown and described.

135,795
DESIGN FOR A PACK BOARD
Hugh B. Johnson, Rochester, N. Y.
Application April 22, 1943, Serial No. 110,016
Term of patent 7 years



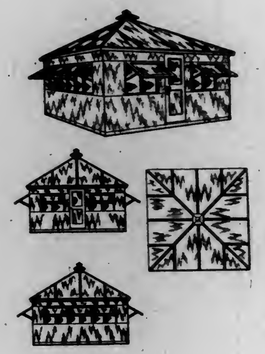
The ornamental design for a pack board, as shown.

135,796
DESIGN FOR A POURING SPOUT FOR BOTTLES
Augustine M. Mazzarelli, New York, N. Y.
Application November 14, 1941, Serial No. 104,158
Term of patent 7 years



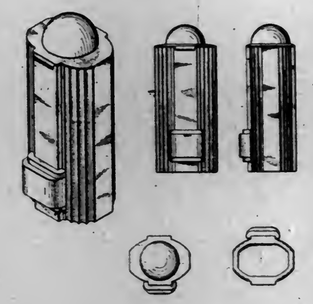
The ornamental design for a pouring spout for bottles, as shown.

135,797
DESIGN FOR A PREFABRICATED BUILDING
H. F. Pettigrew and Winfield Morten, Dallas, Tex., assignors to Texas Prefabricated House & Tent Company, Dallas, Tex., a partnership composed of Winfield Morten and H. F. Pettigrew
Application November 10, 1941, Serial No. 104,104
Term of patent 14 years



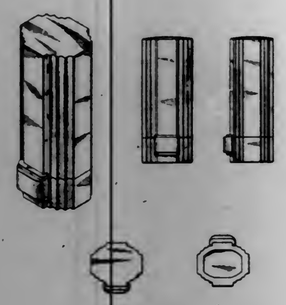
The ornamental design for a prefabricated building as shown and described.

135,798
DESIGN FOR A BOTTLE CONTAINER
George F. Richter, Bogota, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application October 3, 1942, Serial No. 108,407
Term of patent 14 years



The ornamental design for a bottle container, substantially as shown.

135,799
DESIGN FOR A LIPSTICK CONTAINER
George F. Richter, Bogota, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application October 3, 1942, Serial No. 108,408
Term of patent 14 years



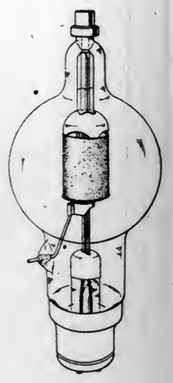
The ornamental design for a lipstick container, substantially as shown.

135,800
DESIGN FOR A JABOT OR SIMILAR ARTICLE
Sylvan M. Baar, New York, N. Y.
Application February 3, 1943, Serial No. 109,421
Term of patent 3½ years



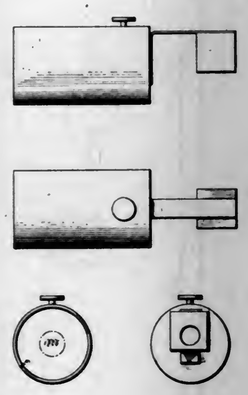
The ornamental design for a jabot or similar article, substantially as shown.

135,801
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application July 13, 1942, Serial No. 107,513
Term of patent 14 years



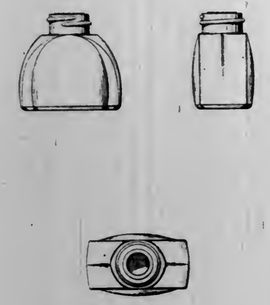
The ornamental design for a vacuum tube, substantially as shown.

135,802
DESIGN FOR A FLASH OR SIGNAL LIGHT
Raymond L. Falge, Bethesda, Md., assignor to Falge Engineering Service, Bethesda, Md.
Application March 22, 1943, Serial No. 109,797
Term of patent 14 years



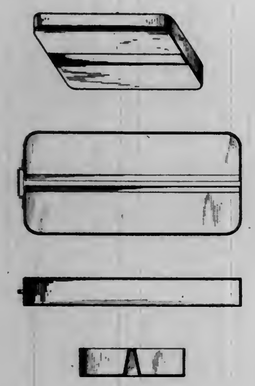
The ornamental design for a flash or signal light, as shown.

135,803
DESIGN FOR A BOTTLE
Raymond Loewy, New York, N. Y., assignor to House of Westmore Inc., New York, N. Y., a corporation of New York
Application April 6, 1943, Serial No. 109,914
Term of patent 14 years



The ornamental design for a bottle, as shown.

135,804
DESIGN FOR A RATION CONTAINER
Nicholas T. Naranick, United States Army, Casper, Wyo.
Application October 2, 1942, Serial No. 108,395
Term of patent 3½ years



The ornamental design for a ration container, as shown.

135,805
DESIGN FOR A BRIDGE LAMP
Donald A. Wallance, Washington, D. C.
Application March 27, 1943, Serial No. 109,828
Term of patent 3½ years



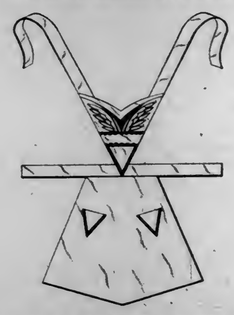
The ornamental design for a bridge lamp, as shown and described.

135,806
DESIGN FOR AN EMBROIDERED LACE
Jack Wiener, New York, N. Y.
Application May 12, 1943, Serial No. 110,193
Term of patent 3½ years



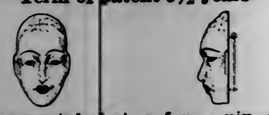
The ornamental design for an embroidered lace, substantially as shown and described.

135,807
DESIGN FOR AN APRON
Emma E. Koehler, Elmhurst Gardens, Ill.
Application November 11, 1942, Serial No. 108,749
Term of patent 3½ years



The ornamental design for an apron, as shown and described.

135,808
DESIGN FOR A PIN OR SIMILAR ARTICLE
Rae C. Swain, South Gate, Calif., assignor to S. P. Lerner, Los Angeles, Calif.
Application April 30, 1943, Serial No. 110,086
Term of patent 3½ years



The ornamental design for a pin or similar article, as shown and described.

135,809
DESIGN FOR A COMB CLEANER
Joseph Zuk, Chicago, Ill.
Application April 1, 1943, Serial No. 109,889
Term of patent 14 years



The ornamental design for a comb cleaner, as shown.

135,810
DESIGN FOR A STOCKING
Frank E. Frost, Chicago, Ill.
Application June 13, 1942, Serial No. 107,193
Term of patent 3½ years



The ornamental design for a stocking, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acme Steel Company, Chicago, Ill. Metal strapping employed in reinforcing boxes, crates, bales, etc. Serial No. 455,151; June 8. Class 13.
Applied Chemical Corporation, New York, N. Y. Impregnating substances, fungicides, solvents, etc. Serial No. 458,579; June 8. Class 6.
Allied Chemical & Dye Corporation, New York, N. Y. Naphthalene, tar distillate hydrocarbon oils. Serial No. 456,483; June 8. Class 6.
Allied Chemical & Dye Corporation, New York, N. Y. Paints. Serial No. 456,485; June 8. Class 16.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord and twine. Serial No. 459,700; June 8. Class 7.
American Viscose Corporation, Wilmington, Del. Yarns, threads and yarn and thread filaments. Serial No. 459,391; June 8. Class 43.
Baxter, Kelly & Faust, Inc., New York, N. Y. Upholstery and drapery fabric. Serial No. 452,036; June 8. Class 42.
Billie Knitwear Inc., New York, N. Y. Ladies' and misses' sweater, and sweater ensembles. Serial No. 459,068; June 8. Class 39.
Bohemian Distributing Company, Los Angeles, Calif. Fruit liqueur, brandy and gin. Serial No. 455,785; June 8. Class 49.
Bonat & Bonat, Inc., New York, N. Y. Shampoos and lotions. Serial No. 459,036; June 8. Class 6.
Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis. Power shovels. Serial No. 458,677; June 8. Class 23.
Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Ascaridole, atropine sulfate, U. S. P., bismuth salicylate cream with camphor. Serial No. 458,008; June 8. Class 6.
C & S Chemical Supply Company. (See Stuard, C. F.)
Callaway Mills, La Grange, Ga. Industrial wiping towels. Serial No. 459,460; June 8. Class 42.
Celotex Corporation, The, Chicago, Ill. Fiber wall board, flooring and wainscoating; acoustical correction tile; etc. Serial No. 450,442; June 8. Class 12.
Chapman & Smith Company, Chicago, Ill. Milk of soya. Serial No. 458,803; June 8. Class 46.
Chapman & Smith Company. Chicago, Ill. Milk of soya. Serial No. 458,908; June 8. Class 46.
Chase Bag Company, The, New York, N. Y. Cotton picker, cloth bags, and sacks. Serial No. 458,033; June 8. Class 2.
Chicago Flexible Shaft Company, Chicago, Ill. Electric furnaces. Serial No. 459,106; June 8. Class 21.
Clofine, Herbert K., Philadelphia, Pa. Dried skim milk, dried buttermilk, etc. Serial No. 424,255; June 8. Class 46.
Cornell, Charles A., doing business as The Technical Rubber Company, Johnstown, Ohio. Tire patches. Serial No. 459,300; June 8. Class 35.
Davis, Max, & Sons, New York, N. Y. Women's neckties. Serial No. 459,334; June 8. Class 39.
Dennis, W. J., & Company, Chicago, Ill. Wallboard mouldings. Serial No. 452,242; June 8. Class 12.
Donaldson, James, Company, Inc., New York, N. Y. Grinding machines and parts thereof. Serial No. 452,418; June 8. Class 23.
Eckel, Oliver C., doing business as Stic-Klip Mfg. Company, Cambridge, Mass. Metal clips. Serial No. 458,303; June 8. Class 13.
Evershed & Vignoles Limited, London, England. Electrical apparatus. Serial No. 451,531; June 8. Class 26.
Exeter Orchards Ass'n Inc., Exeter, Calif. Fresh citrus fruits. Serial No. 459,594; June 8. Class 46.
Federal Telephone and Radio Corporation, New York, N. Y. Monthly house organs. Serial No. 459,301; June 8. Class 38.
Fisher Scientific Company, Pittsburgh, Pa. Senior titrimeter, infra-rediator, etc. Serial No. 458,150; June 8. Class 26.
Flynn, John H., Cincinnati, Ohio. Pulley-blocks. Serial No. 457,607; June 8. Class 23.
Foreman Fabrics, Inc., New York, N. Y. Piece goods. Serial No. 455,970; June 8. Class 42.
Forrest Knitting Mills. (See Highland Knitting Mills.)
Friedman, J., & Co., Inc., New York, N. Y. Men's and boys' suits, coats, vests, etc. Serial No. 453,054; June 8. Class 39.
Fusion Engineering. (See Williams, H. R.)
General Aniline & Film Corporation, New York and Binghamton, N. Y. Sensitized photographic film. Serial No. 456,556; June 8. Class 26.
General Shoe Corporation, Nashville, Tenn. Shoe and boot polish. Serial No. 459,414; June 8. Class 4.
General Sportwear Co., Inc., Ellenville, N. Y. Play suits, coveralls, and overalls, for children. Serial No. 459,304; June 8. Class 39.
Globe Novelty House, New York, N. Y. Men's ornamental jewelry. Serial No. 459,337; June 8. Class 28.
Graef & Schmidt, Inc., New York, N. Y. Cutlery. Serial No. 459,367; June 8. Class 23.
Graham, John H., & Co., Inc., New York, N. Y. Braided and twisted cotton cord and twine. Serial Nos. 458,512–13; June 8. Class 7.
Gurrieri, Louis, doing business as L. Gurrieri Co., New York, N. Y. Cookie rolling pins. Serial No. 458,069; June 8. Class 23.
Hescheles, I. M., Inc., New York, N. Y. Portable file cabinet. Serial No. 458,611; June 8. Class 32.
Highland Knitting Mills, doing business as Forrest Knitting Mills, Philadelphia, Pa. Sweaters, bathing suits, and bathing trunks. Serial No. 459,516; June 8. Class 39.
Huff, Barnes & Opie, Inc., Pittsburgh, Pa. Semi-greaseproof parchment. Serial Nos. 454,891–2; June 8. Class 37.
Ipik Plywood Corporation, New Orleans, La. Plywood panels. Serial No. 459,557; June 8. Class 12.
Irwin Auger Bit Company, The, Wilmington, Ohio. Expansive bits. Serial No. 434,720; June 8. Class 23.
Ivers-Lee Company, Newark, N. J. Envelope-like sealed containers. Serial No. 459,705; June 8. Class 2.
Johnson, S. C., & Son, Inc., Racine, Wis. Electric floor polishing machines. Serial No. 458,784; June 8. Class 21.
Kane Import Corporation, New York, N. Y. Bamboo, bristles, cassia, etc. Serial No. 446,970; June 8. Class 1.
Kirkendall Boot Company, Omaha, Nebr. Jodhpur boots. Serial No. 459,244; June 8. Class 39.
Lehmann, M., Inc., New York, N. Y. Champagnes. Serial No. 453,986; June 8. Class 47.
Levine, H., & Company, Cleveland, Ohio. War ration book holders or covers. Serial No. 459,757; June 8. Class 3.
Lord Jeff Knitting Company, Incorporated, New York, N. Y. Sweaters, mufflers and wristlets. Serial No. 457,096; June 8. Class 39.
Lord Jeff Knitting Company, Incorporated. New York, N. Y. Sweaters, mufflers, wristlets, etc. Serial No. 457,098; June 8. Class 39.
Lord Jeff Knitting Company, Incorporated, New York, N. Y. Sweaters, mufflers and wristlets. Serial No. 457,100; June 8. Class 39.
Lorenzen, Roger E., doing business as Lorenzen Industries, Niles, Mich. Attitude indicating instruments for aircraft. Serial No. 458,787; June 8. Class 26.
Magnavox Company, The, Fort Wayne, Ind. Radio and radio-phonograph sets, audio frequency amplifiers, etc. Serial No. 456,656; June 8. Class 21.
Maine Potato Growers, Inc., Presque Isle, Maine. Potatoes in their natural state. Serial No. 458,735; June 8. Class 46.
Martin, L., Co. Inc., The, New York, N. Y. Carbon black. Serial No. 459,009; June 8. Class 21.
Meyers, A. C., & Company, Philadelphia, Pa. Scarves and dickeys. Serial No. 458,400; June 8. Class 39.
Mitchell-Bradford Chemical Company, Bridgeport, Conn. Compounds for use in aqueous solutions. Serial No. 459,571; June 8. Class 6.
Morris, Harry, Chicago, Ill. Compacts. Serial No. 459,629; June 8. Class 2.
Motch & Merryweather Machinery Company, The, Cleveland, Ohio. Saws for cutting metal, etc. Serial No. 459,479; June 8. Class 23.
National Package Drugs, Inc., St. Louis, Mo. Oil of citronella, sweet oil, vitamin B_1 tablets, etc. Serial No. 458,336; June 8. Class 6.
National Welding Equipment Co., San Francisco, Calif. Gas blow pipes and handles and bases therefor. Serial No. 433,104; June 8. Class 34.
Neuburger, C. A., Company, Oshkosh, Wis. Women's blouses, coveralls, slacks, etc. Serial No. 458,246; June 8. Class 39.
New Products Laboratories. (See Wilhelm, Warren F.)
Nissen, George P., Cedar Rapids, Iowa. Tumbling devices. Serial No. 459,495; June 8. Class 22.
Nitroloid Company. (See Trickey, Fred L.)
Nyal Company, Detroit, Mich. Antacid. Serial No. 455,669; June 8. Class 6.
Petrogalar Laboratories, Inc., Chicago, Ill. Rectal ointments. Serial No. 459,762; June 8. Class 6.
Pinus Medicine Company, Monticello, Ill. Internal remedies. Serial No. 459,270; June 8. Class 6.
Price Bros., Inc., Frederick, Md. Magnetic controls for producing mechanical movements. Serial No. 457,368; June 8. Class 21.
Protectite Company, The, Houston, Tex. Preparation used as a leather dressing and preservative, etc. Serial No. 459,634; June 8. Class 4.

Ray Control Company, Pasadena, Calif. Optical elements. Serial No. 458,285; June 8. Class 26.
Reade Manufacturing Company, Inc., Jersey City, N. J. Washing compounds. Serial No. 457,530; June 8. Class 4.
Reliance Electric & Engineering Company, The, Cleveland, Ohio. Dynamo-electric adjustable speed drive. Serial No. 457,857; June 8. Class 21.
Reliance Rubber Company, Emeryville, Calif. Synthetic rubber rollers for printing presses, food-packaging machinery, etc. Serial No. 458,407; June 8. Class 23.
Retail Clerks International Protective Association, La Fayette, Ind. Tie clasps, ornamental coin knives, buttons, etc. Serial No. 449,587; June 8. Class 28.
Riverbank Canning Company, Riverbank, Calif. Dried fruits, dried vegetables, canned vegetables, etc. Serial No. 454,543; June 8. Class 46.
Roderick, Anthony A., Hartford, Conn. Preparation made of roasted cereals. Serial No. 456,947; June 8. Class 46.
Rosenthal, L. L., and Company, Inc., Chicago, Ill. Men's overcoats. Serial No. 458,081; June 8. Class 39.
Schering & Glatz, Inc., New York, N. Y. Bile salts compositions. Serial No. 459,317; June 8. Class 6.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Package consisting of V-mail stationery, writing fluid, and leads. Serial No. 459,086; June 8. Class 50.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Package consisting of V-mail stationery, writing fluid, and leads. Serial Nos. 459,088–9; June 8. Class 50.
Showa Shoyu Brewing Co. (See Tadano, George Y.)
Spiegel, Inc., Chicago, Ill. Automobile replacement storage batteries. Serial No. 458,212; June 8. Class 21.
Stic-Klip Mfg. Company. (See Eckel, Oliver C.)
Stuard, C. F., doing business as C & S Chemical Supply Company, Chickasha, Okla. Solvent used in cleaning boilers, corroded pipes, engine jackets, etc. Serial No. 451,583; June 8. Class 6.
Stuart Oxygen Co., San Francisco, Calif. Medical oxygen, nitrous oxide, hipure nitrous oxide, etc. Serial Nos. 458,413–14; June 8. Class 6.
Superior Sash and Screen Company, Detroit, Mich. Storm windows. Serial No. 451,352; June 8. Class 12.
Tadano, George Y., doing business as Showa Shoyu Brewing Co., Glendale, Ariz. Soya bean sauce. Serial No. 459,319; June 8. Class 46.
Technical Rubber Company, The. (See Cornell, Charles A.)
Trickey, Fred L., doing business as Nitroloid Company, Berlin, Wis. Thinner for resinous and cellulose cements. Serial No. 457,056; June 8. Class 6.
United Aircraft Corporation, East Hartford, Conn. Aircraft propellers, parts and attachments therefor. Serial Nos. 457,817–19; June 8. Class 19.
United Aircraft Products, Inc., Dayton, Ohio. Oil temperature regulators. Serial No. 455,895; June 8. Class 34.
Usherson, Arthur, New York, N. Y. Men's and boys' underwear, ladies' leisure jackets, etc. Serial No. 452,061; June 8. Class 39.
Vita-Zyme Laboratories, Inc., Chicago, Ill. Enzymes. Serial No. 456,836; June 8. Class 48.
Vultee Aircraft, Inc., Vultee Field, Calif. Airplanes and structural parts thereof. Serial No. 459,181; June 8. Class 19.
Warner, William R., & Co., Inc., Wilmington, Del., and New York, N. Y. Cream ointment base. Serial No. 459,096; June 8. Class 6.
Washington, G., Coffee Refining Company, Morris Plains, N. J. Coffee. Serial No. 459,385; June 8. Class 46.
Wilhelm, Warren F., doing business as New Products Laboratories, Chicago, Ill. Disinfecting solution. Serial No. 459,140; June 8. Class 6.
Williams, H. R., doing business as Fusion Engineering, Cleveland, Ohio. Alloys for silver brazing and soldering. Serial No. 459,182; June 8. Class 14.
Wimelbacher & Rice, New York, N. Y. Leather and fabric gloves. Serial No. 458,928; June 8. Class 39.
Wood Treating Chemicals Co., St. Louis, Mo. Wood preservatives. Serial No. 458,311; June 8. Class 6.
Wurster, William A., Portsmouth, Ohio. Combined hoe and rake. Serial No. 459,698; June 8. Class 23.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Chemical preservative for lumber, etc. Serial No. 459,647; June 8. Class 6.
Wylie, George, Company, Inc., Clay Center, Kans. Publication. Serial No. 458,644; June 8. Class 38.
Zakonit, Inc., Boston, Mass. Knitted sweaters. Serial No. 458,956; June 8. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

A. P. W. Paper Company, Inc., Albany, N. Y. Paper for toilet purposes. 401,809; June 8; Serial No. 458,204; published Apr. 6, 1943. Class 37.
Acheson Manufacturing Company, Rankin, to Acheson Manufacturing Company, Braddock, Pa. Pipe fittings, vent fittings, casing fittings, etc. 174,550; renewed Oct. 23, 1943.
Air Reduction Sales Company, New York, N. Y. Brazing and welding flux. 401,794; June 8; Serial No. 457,926; published Mar. 16, 1943. Class 6.
Albanese, Arthur, doing business as Marvel Jewelry Mfg. Company, Providence, R. I. Jewelry. 401,791; June 8; Serial No. 457,868; published Mar. 30, 1943. Class 28.
Allen & Company. (See Mahler, Fred H.)
Allen, Edward E., Mfg. Co., Chicago, Ill. Paints and painters' materials. 174,279; renewed Oct. 9, 1943.
Allen, Edward E., Mfg. Co., Chicago, Ill. Enamel. 172,342; renewed Aug. 28, 1943.
Allen, Edward E., Mfg. Co., Chicago, Ill. House paint. 172,343; renewed Aug. 28, 1943.
Allen, Edward E., Mfg. Co., Chicago, Ill. Floor paint. 172,344; renewed Aug. 28, 1943.
Aluminum Industries, Inc. (See Kant-Skore Piston Company, assignor.)
American Grana Watch Company. (See Von Burg, Emil.)
American Hominy Company, Chicago, Ill., assignor to Knefler-Bates Company, Indianapolis, Ind. Self-rising flour. 172,435; renewed Aug. 28, 1943.
American Milk Products Corporation, New York, N. Y., by change of name to General Milk Company, Inc. Canned sweetened milk. 167,815; renewed May 8, 1943.
Andersen, Charles M., doing business as Andersen Specialty Co., Chicago, Ill. Liquid wood cleaners. 167,577; renewed May 1, 1943.
Arena, A., and Co., Ltd., Los Angeles, Calif. Fresh vegetables. 401,750; June 8; Serial No. 453,577; published Dec. 22, 1942. Class 46.
Athens Hosiery Mills, assignor to Athens Hosiery Mills, Incorporated, Athens, Tenn. Hosiery for men. 166,631; renewed Apr. 10, 1943.
Avon Products, Inc., New York, N. Y. Nail polish preserver. 401,831; June 8. Class 6.
Baldwins Limited, London, England. Tin and terne plates and sheets. 166,790; renewed Apr. 17, 1943.
Bartlett, Stephen L., Company, Boston, Mass., by change of name to Bensdorp Importers, Inc. Cocoa. 168,778; renewed May 29, 1943.
Beacon Sales Company. (See Freeman, Abraham S.)
Beaumont Co. (See Grove Laboratories, Inc., The.)
Bensdorp Importers, Inc. (See Bartlett, Stephen L.)
Bergeron, Esther, doing business under the fictitious name and style of Trader Vic, Oakland, Calif. Rum. 401,742; June 8; Serial No. 449,985; published Mar. 30, 1943. Class 49.
Bethlehem Fabricators, Inc., Bethlehem, Pa. Beams, girders, and other structural members. 174,750; renewed Oct. 23, 1943.
Biel, Conrad E., doing business as Denver Optic Company to C. A. Rheem, doing business as Denver Optic Company, Denver, Colo., successor. Artificial eyes. 171,550; renewed Aug. 7, 1943.
Big State Company. (See Hollis, Paul S.)
Bird, Mellen T., doing business as M. T. Bird & Co., assignor to M. T. Bird & Company, Incorporated, Boston, Mass. Correspondence paper and cards, envelopes, etc. 174,425; renewed Oct. 16, 1943.
Black Bros. Flour Mills, Beatrice, to Black Brothers Flour Mills, Beatrice, Wymore, and Superior, Nebr. Wheat flour. 172,445; renewed Aug. 28, 1943.
Bogdanoff, Leonard, New York, N. Y. Artists' materials. 401,772; June 8; Serial No. 457,378; published Mar. 30, 1943. Class 16.
Brown, Delane, Inc., Towson, Md. Special purpose food, auxiliary or dietary supplement food. 401,782; June 8; Serial No. 457,572; published Mar. 30, 1943. Class 46.
Bruno, C., & Son, Inc., New York, N. Y. Saxophones, cornets, trombones, etc., and parts thereof. 174,315; renewed Oct. 16, 1943.
Burkhardt, Frederic T., Holyoke, Mass. Writing and printing paper. 401,753; June 8; Serial No. 455,064; published Mar. 30, 1943. Class 37.
Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Acetylcholine bromide, aminophylline, bismuth, etc. 401,805; June 8; Serial No. 458,170; published Mar. 16, 1943. Class 6.
Butler, J. W., Paper Co., The, assignor to Butler Paper Corporation, Chicago, Ill. Print paper, book paper, bond paper, etc. 174,222; renewed Oct. 9, 1943.
Butler, J. W., Paper Co., The, assignor to Butler Paper Corporation, Chicago, Ill. Print and bond paper, bristol board, etc. 174,242; renewed Oct. 9, 1943.
Celotex Corporation, The, Chicago, Ill. Adhesives for cementing or adhering together construction materials and cements. 401,741; June 8; Serial No. 449,669; published Mar. 2, 1943. Class 12.
Cerophyl Laboratories, Inc., Kansas City, Mo. Dog food. 401,822; June 8. Class 46.
Cheney Brothers, South Manchester, assignor, by mesne assignments, to Cheney Brothers, South Manchester, Conn., and New York, N. Y. Woven, knitted, netted, etc., fabrics in the piece. 174,193; renewed Oct. 9, 1943.
Cluett, Peabody & Co., Inc., Troy, N. Y. Collars. 174,834; renewed Oct. 23, 1943.
Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. 173,387; renewed Sept. 25, 1943.
Colfax Fruit Growers Association, Colfax, Calif. Fresh deciduous fruits. 174,624; renewed Oct. 23, 1943.
Colonial Molasses Co., Inc., Brooklyn, N. Y. Molasses. 401,737; June 8; Serial No. 446,263; published Aug. 11, 1942. Class 46.
Colton Razor Blade Company, Boston, Mass. Safety razor blades. 401,738; June 8; Serial No. 447,539; published Nov. 25, 1941. Class 23.
Comet Model Airplane & Supply Company, Incorporated, Chicago, Ill. Model airplanes. 401,766; June 8; Serial No. 456,820; published Mar. 23, 1943. Class 26.
Communication Measurements Laboratory, New York N. Y. Automatic tester for use with all types of electronic equipment. 401,783; June 8; Serial No. 457,601; published Mar. 30, 1943. Class 26.
Consolidated Rendering Company, Boston, Mass. Oleo, oleo oil, and shortening. 172,462; renewed Aug. 28, 1943.
Cosmetics Research Corporation, also doing business as Don Leslie, West Haven, Conn., and New York, N. Y. Smoking tobacco. 401,790; June 8; Serial No. 457,806; published Mar. 30, 1943. Class 17.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 401,801; June 8; Serial No. 458,034; published Mar. 30, 1943. Class 6.
Country Club Soda Co., Inc., Springfield, Mass. Cream, lemon, orange, and strawberry soda, etc. 168,458; renewed May 22, 1943.
Cowles Detergent Company, The, Cleveland, Ohio. Cleaning compound. 401,754; June 8; Serial No. 455,299; published Oct. 27, 1942. Class 4.
Crosby, Harold M., New York, N. Y. Chemical materials, supplies, and preparations. 401,835; June 8. Class 6.
Curtiss, John S., El Paso, Tex. Blasting cap protectors and devices for carrying and applying the same. 401,784; June 8; Serial No. 457,603; published Mar. 30, 1943. Class 9.
Dearborn Supply Company, Chicago, Ill. Toilet preparation. 174,049; renewed Oct. 2, 1943.
Denver Chemical Manufacturing Company, The, New York, N. Y. Medicinal preparation. 401,795; June 8; Serial No. 457,931; published Mar. 23, 1943. Class 6.
Denver Optic Company. (See Biel, Conrad E.)
Dougherty, W. F., & Sons, Incorporated, Philadelphia, Pa. Coal and gas and combination ranges and broilers, etc. 174,568; renewed Oct. 23, 1943.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyestuffs. 167,613; renewed May 1, 1943.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. 401,736; June 8; Serial No. 445,389; published Mar. 23, 1943. Class 6.
Electric Storage Battery Company, The, Philadelphia, Pa. Testing and combined charging and testing for storage batteries. 401,769; June 8; Serial No. 457,062; published Mar. 23, 1943. Class 26.
English Needle & Fishing Tackle Co., Ltd., The. (See James, John, & Sons Limited, assignor.)
Etches Products Corporation, Long Island City, N. Y. Metallic hot-dish plaques. 174,830; renewed Oct. 23, 1943.
Famous Funnies, Inc., Waterbury, Conn. Comic magazines. 401,797; June 8; Serial No. 457,950; published Mar. 30, 1943. Class 38.
Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Wheat flour. 401,792; June 8; Serial No. 457,895; published Mar. 30, 1943. Class 46.
Flower Foods, Inc., Maywood, Ill. Solution for strengthening, feeding, and promoting the development of cut plants. 401,819; June 8; Serial No. 458,491; published Mar. 30, 1943. Class 6.
Fox River Paper Company, assignor to Fox River Paper Corporation, Appleton, Wis. Writing paper. 174,219; renewed Oct. 9, 1943.
Fox River Paper Company, to Fox River Paper Corporation, Appleton, Wis. Writing paper. 174,232; renewed Oct. 9, 1943.
Fraser, Malcolm, & Co. Limited, London, England. Whisky. 401,820; June 8. Class 49.
Freeman, Abraham S., doing business as Beacon Sales Company, Cleveland, Ohio. Shaving cream. 401,771; June 8; Serial No. 457,118; published Mar. 30, 1943. Class 4.
Fry, B. L., St. Louis, Mo. Dry chemical compound for storage battery plates. 401,829; June 8. Class 6.
Frye Company, The, Watertown, Mass. Medicinal preparation. 401,818; June 8; Serial No. 458,458; published Mar. 30, 1943. Class 6.
Futrell, Cicero F., Conway, N. C. Preparation for the treatment of piles. 174,066; renewed Oct. 2, 1943.
Gamble Stores Incorporated, Minneapolis, Minn. Vitamin B complex capsules, brewers' yeast tablets, etc. 401,806; June 8; Serial No. 458,174; published Mar. 30, 1943. Class 6.
Gamble Stores Incorporated, Minneapolis, Minn. Liquid fly spray. 401,828; June 8. Class 6.
General Milk Company, Inc. (See American Milk Products Corporation.)
General Paint & Varnish Co., doing business as Kwikote Products, Chicago, Ill. Fuel oil conditioner. 401,770; June 8; Serial No. 457,079; published Mar. 23, 1943. Class 6.
Gilbert Bros. & Co., Inc., assignor, by mesne assignments, to The White Caps Company, Baltimore, Md. Preparation for the treatment of headache, neuralgia, neuritis, etc. 174,341; renewed Oct. 16, 1943.
Gladding Dry Goods Co., Providence, R. I., by change of name to Gladding's Inc. Furniture. 173,607; renewed Oct. 2, 1943.
Goshen Churn & Ladder Company, The, Goshen, Ind., by change of name to Goshen Churn & Ladder, Inc. Ladders. 174,772; renewed Oct. 23, 1943.
Grossman, Julius, Inc., Brooklyn, to Julius Grossman, Inc., New York, N. Y. Women's shoes. 172,103; renewed Aug. 21, 1943.
Grove Laboratories, Inc., The, doing business as Beaumont Co., Wilmington, Del., and St. Louis, Mo. Vitamin capsules. 401,793; June 8; Serial No. 457,914; published Mar. 30, 1943. Class 6.
Grove Laboratories, Inc., The, doing business as Beaumont Company, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. 401,807; June 8; Serial No. 458,190; published Mar. 30, 1943. Class 6.
Gsell, R., & Co., Inc., New York, N. Y. Watches and watch movements, watchcases and parts thereof. 401,830; June 8. Class 27.
Haskelite Manufacturing Corporation, Chicago, Ill. Unfinished plywood. 401,760; June 8; Serial No. 455,729; published Mar. 30, 1943. Class 12.
Hey-Rube, Inc., Tulsa, Okla. Souvenir programs. 401,814; June 8; Serial No. 458,304; published Mar. 30, 1943. Class 38.
Hillsborough Packing Company, Inc., Tampa, Fla. Fresh citrus fruits. 401,755; June 8; Serial No. 455,375; published Mar. 30, 1943. Class 46.
Hollis, Paul S., doing business as Big State Company, Fort Worth, Tex. Powder for making soft drinks. 174,676; renewed Oct. 23, 1943.
Holophane Company, Inc., New York, N. Y. Glass and combination glass and metal globes and reflectors. 401,745; June 8; Serial No. 450,591; published Mar. 30, 1943. Class 34.
Hutter, George F., doing business as George F. Hutter Company, Buffalo, N. Y. Petroleum solvent, rust preventing compound, a gasoline additive, etc. 401,767; June 8; Serial No. 456,889; published Mar. 23, 1943. Class 6.
International Milling Company, Minneapolis, Minn. Wheat meal in granular form. 401,798; June 8; Serial No. 457,976; published Mar. 30, 1943. Class 1.
James, John & Sons Limited, assignor to The English Needle & Fishing Tackle Co. Ltd., Redditch, England. Needles for hand sewing. 173,677; renewed Oct. 2, 1943.
Jersey Cereal Company, Chicago, Ill. Breakfast cereals. 401,752; June 8; Serial No. 454,757; published Mar. 30, 1943. Class 46.
Johnson, S. C. & Son, Inc., Racine, Wis. Electric floor polishing machines. 401,763; June 8; Serial No. 456,560; published Mar. 30, 1943. Class 21.
Julliard, A. D., & Co., Inc., New York, N. Y. Piece goods. 173,749; renewed Oct. 2, 1943.
Kaiser May McEwen, Company. (See Stamper & Kaiser.)
Kant-Skore Piston Company, The, assignor to Aluminum Industries, Inc., Cincinnati, Ohio. Pistons. 174,737; renewed Oct. 23, 1943.
Karlan & Bleicher, Inc., New York, N. Y. Ring findings. 401,834; June 8. Class 28.
Kenna Roger, doing business as Kenro Products, New Haven, Conn. Denture cleanser. 401,832; June 8. Class 4.
Kenro Products. (See Kenna, Roger.)
Kerite Insulated Wire & Cable Company, Inc., The, Seymour, Conn., and New York, to The Kerite Insulated Wire & Cable Company, Inc., New York N. Y. Insulated wire and cables. 174,600; renewed Oct. 23, 1943.
King Features Syndicate, Inc., New York, N. Y. Newspaper section or department. 401,803; June 8; Serial No. 458,101; published Mar. 23, 1943. Class 38.
Klein Chocolate Company, Inc., Elizabethtown, Pa. Chocolate. 174,348; renewed Oct. 16, 1943.
Knapstein, T. L., Appleton, assignor to Purity Cheese Company, Mayville, Wis. Cheese. 171,076; renewed July 31, 1943.
Knefler-Bates Company. (See American Hominy Company, assignor.)
Kwikote Products. (See General Paint & Varnish Co.)
La Choy Food Products, Inc., Archibold, Ohio. Mixed fruit and vegetable juice. 401,813; June 8; Serial No. 458,272; published Mar. 30, 1943. Class 46.
Lambert Vitamins Company, Inc., New York, N. Y. Vitamin tablets. 401,761; June 8; Serial No. 456,150; published Mar. 30, 1943. Class 6.
Leslie, Don. (See Cosmetics Research Corporation.)
Liberty Vitamin Corporation, New York, N. Y. Medicinal preparation. 401,789; June 8; Serial No. 457,765; published Mar. 30, 1943. Class 6.

Lowe, Joe, Corporation, New York, N. Y. Frozen confections. 401,815; June 8; Serial No. 458,334; published Mar. 30, 1943. Class 46.
MacFarland, William H., Sr., Philadelphia, Pa. Dextrose wafers. 401,768; June 8; Serial No. 457,009; published Mar. 30, 1943. Class 46.
Mahler, Fred H., doing business as Allen & Company, New York, N. Y. Carbon paper. 401,749; June 8; Serial No. 459,873; published July 21, 1942. Class 11.
Manywash Laundry Textiles, Inc. (See Pendleton Manufacturing Company, assignor.)
Martha Maid Manufacturing Company, Incorporated, Chicago, Ill., by change of name to Martha Maid Mfg. Co. Children's dresses. 174,059; renewed Oct. 2, 1943.
Martha Maid Manufacturing Company, Incorporated, Chicago, Ill., by change of name to Martha Maid Mfg. Co. Cotton, silk, wool, etc., and linen underwear. 174,331; renewed Oct. 16, 1943.
Marvel Jewelry Mfg. Company. (See Albanese, Arthur.)
McDonald Products Corporation, Buffalo, N. Y. Ash trays. 401,796; June 8; Serial No. 457,938; published Mar. 30, 1943. Class 8.
Medical Chemicals, Inc., Baltimore, Md. Germicidal and fungicidal preparations. 401,781; June 8; Serial No. 457,526; published Mar. 30, 1943. Class 6.
Mem Incorporated, New York, N. Y. Toilet water, perfumes, eau de cologne, etc. 401,735; June 8; Serial No. 441,975; published Mar. 23, 1943. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product used to prevent hemorrhage. 401,773; June 8; Serial No. 457,396; published Mar. 23, 1943. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product to supply supplementary calcium, phosphorus, iron, and vitamin D. 401,774; June 8; Serial No. 457,397; published Mar. 23, 1943. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product used to prevent hemorrhage. 401,775; June 8; Serial No. 457,399; published Mar. 23, 1943. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product used to increase the flow of bile. 401,776; June 8; Serial No. 457,401; published Mar. 23, 1943. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product for local application to effect granulation and healing. 401,777; June 8; Serial No. 457,402; published Mar. 23, 1943. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. B vitamins. 401,788; June 8; Serial No. 457,683; published Mar. 23, 1943. Class 6.
Merriam Company, G. & C., Springfield, Mass. Books. 401,785; June 8; Serial No. 457,628; published Mar. 23, 1943. Class 38.
Micro Switch Corporation, Freeport, Ill. Electric switches. 401,780; June 8; Serial No. 457,503; published Mar. 16, 1943. Class 21.
Micromatic Hone Corporation, Detroit, Mich. Honing tool. 401,826–7; June 8. Class 23.
Morrissey, Charles T., doing business as Charles T. Morrissey & Company, Chicago, Ill. Egg substitute. 401,799; June 8; Serial No. 457,985; published Mar. 30, 1943. Class 46.
Muckland Celery Company, Sarasota, Fla. Celery. 401,759; June 8; Serial No. 455,694; published Dec. 8, 1942. Class 46.
Muralo Company, The, New York and New Brighton, assignor to The Muralo Company, Inc., Staten Island, N. Y. Wall size. 169,830; renewed July 3, 1943.
Myers, Ralph E., doing business as Ralph E. Myers Co., Salinas, Calif. Fresh vegetables—namely, lettuce. 401,739; June 8; Serial No. 447,819; published Dec. 30, 1941. Class 46.
National Tile Company, The, Anderson, Ind. Steatite insulators used as component parts of radio sets. 401,804; June 8; Serial No. 458,119; published Mar. 30, 1943. Class 21.
National Tube Company, Pittsburgh, Pa. Metal couplings, pipes, tubes, etc. 171,880; renewed Aug. 14, 1943.
Nicholson & Co. (Coat Specialist) Limited. (See Nicholson's Raincoat Company, Limited.)
Nicholson's Raincoat Company, Limited, to Nicholson & Co. (Coat Specialist) Limited, St. Albans, England, successor. Raincoats, overcoats, and suits. 163,693; renewed Jan. 23, 1943.
Noesting Pin Ticket Company, Incorporated, Mount Vernon, to Noesting Pin Ticket Company, Incorporated, New York, N. Y. Paper clips. 174,225; renewed Oct. 9, 1943.
Nu-Form Engineering Corporation, New York, N. Y. Air raid shelters. 401,823; June 8. Class 12.
Oil Specialties & Refining Co., Inc., Brooklyn, N. Y. Metal polish. 401,800; June 8; Serial No. 457,988; published Mar. 30, 1943. Class 4.
Old Weston Distilling Co., Weston, Mo. Whiskey. 401,746; June 8; Serial No. 450,660; published Mar. 30, 1943. Class 49.
Pacific Lumber Company, The, San Francisco, Calif. Shredded bark fiber. 401,778; June 8; Serial No. 457,420; published Mar. 30, 1943. Class 1.
Palmer-Bee Company, Detroit, Mich. Speed reducers, shaft couplings, friction clutches, etc. 172,318; renewed Aug. 28, 1943.
Paper Products, Oconomowoc, Wis. Combination of envelope and letter-folder sheets. 401,743; June 8; Serial No. 450,142; published Mar. 30, 1943. Class 37.
Parks & Parks, Inc., Troy, N. Y. Shoe brushes. 168,249; renewed May 15, 1943.
Parks & Parks, Inc., Troy, N. Y. Shoe daubers. 171,622; renewed Aug. 7, 1943.
Pendleton Manufacturing Company, Autun, S. C., assignor, by mesne assignments, to Manywash Laundry Textiles, Inc., Philadelphia, Pa. Laundry nets. 166,594–5; renewed Apr. 10, 1943.
Pennsylvania Saw Corporation, York, Pa. Saws. 401,836; June 8. Class 23.
Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. 173,425; renewed Sept. 25, 1943.
Philadelphia Quartz Company, Philadelphia, Pa. Publications and printed literature. 173,608; renewed Oct. 2, 1943.
Philco Corporation, Philadelphia, Pa. Service manuals. 401,744; June 8; Serial No. 450,403; published Mar. 23, 1943. Class 38.
Phillips Petroleum Company, Bartlesville, Okla. Storage batteries. 401,755; June 8; Serial No. 440,755; published Mar. 23, 1943. Class 21.
Pioneer Rubber Company, The, Willard, Ohio. Surgeons' rubber gloves. 401,821; June 8. Class 44.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paints, paint primers, paint enamels, etc. 401,811; June 8; Serial No. 458,226; published Mar. 30, 1943. Class 16.
Procter & Gamble Company, The, Cincinnati, Ohio. Glycerine. 174,327; renewed Oct. 16, 1943.
Purity Cheese Company. (See Knapstein, T. L., assignor.)
Puro Products Company, Chicago, Ill. Food compositions. 401,756; June 8; Serial No. 455,517; published Mar. 30, 1943. Class 46.
Pyramid Process Co., Inc., East Rochester, N. Y. Dry paste. 171,223; renewed July 31, 1943.
Quaker Oats Company, The, Chicago, Ill. Soups. 401,817; June 8; Serial No. 458,373; published Mar. 30, 1943. Class 46.
Radio Corporation of America, New York, N. Y. Magazine. 401,740; June 8; Serial No. 448,621; published Mar. 23, 1943. Class 38.
Rheem, C. A. (See Biel, Conrad E.)
Ross Company, assignor to George W. Ross, doing business as Ross Company, New York, N. Y. Preparation for treating the eyebrows and eyelashes. 173,052; renewed Sept. 11, 1943.
Ross, Sydney, Co., The, Newark, N. J. Preparation for use in the treatment of inappetence, general debility, exhaustion, etc. 401,786; June 8; Serial No. 457,659; published Mar. 30, 1943. Class 6.
Rothman, Nathan, doing business as Rough Rider Manufacturing Company, San Francisco, to Nathan Rothman, Hillsborough, Calif. Khaki, corduroy, and worsted pants. 173,337; renewed Sept. 25, 1943.
Rubsam, J., Co. Inc., New York, N. Y. Pills and tablets. 174,744; renewed Oct. 23, 1943.
San Antonio Drug Company, San Antonio, Tex. Sirup for coughs, colds, and bronchitis. 174,361; renewed Oct. 16, 1943.
San Francisco Breweries, The, Ltd., assignor to Wielands Incorporated, assignor to Wielands Incorporated, San Francisco, Calif. Canned preserved fruits, jams, jellies, etc. 170,576; renewed July 17, 1943.
San Francisco Breweries, Inc., The, assignor to Wielands Incorporated, assignor to Wielands Incorporated, San Francisco, Calif. Beer, malt tonic, malt beverages, etc. 168,331; renewed May 22, 1943.
Schrader's, A., Son, Incorporated, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Pneumatic valves and parts thereof and accessories therefor. 173,962; renewed Oct. 2, 1943.
Schrader's, A., Son, Incorporated, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Fluid-pressure gauges, indicators, and regulators, etc. 174,164; renewed Oct. 9, 1943.
Schrader's, A., Son, Incorporated, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Ice bags and syringe fixtures. 174,236; renewed Oct. 9, 1943.
Schlueter Manufacturing Co., St. Louis, Mo. Wash boilers and galvanized wash tubs. 174,711; renewed Oct. 23, 1943.
Scott, Carson Pirie, & Company, Chicago, Ill. Men's sportswear. 401,824; June 8. Class 39.
Scovill Manufacturing Company. (See Schrader's, A., Son, Incorporated, assignor.)
Seeman Brothers, Inc., New York, N. Y. Ammonia substitute. 400,802; June 8; Serial No. 458,082; published Mar. 30, 1943. Class 6.
Simonin's, C. F., Sons, Inc., Philadelphia, Pa. Vegetable oil. 401,748; June 8; Serial No. 451,451; published Mar. 30, 1943. Class 46.
Snap-On Tools Corporation. (See Snap-On Wrench Company, assignor.)
Snap-On Wrench Company, Milwaukee, assignor to Snap-On Tools Corporation, Kenosha, Wis. Screw drivers. 174,798; renewed Oct. 23, 1943.
Stafford County Flour Mills Co., Hudson, Kans. Wheat flour. 167,192; renewed Apr. 24, 1943.
Stamper & Kaiser, New York, N. Y., to May McEwen Kaiser Company, Burlington, N. C., successor. Hosiery. 174,273; renewed Oct. 9, 1943.

Standard Brands Incorporated, New York, N. Y. Cereal beverage preparation. 401,808; June 8; Serial No. 458,201; published Mar. 30, 1943. Class 46.
Steel Products Company, The, Cleveland, Ohio, by change of name to Thompson Products, Incorporated. Poppet valves. 174,055; renewed Oct. 2, 1943.
Stein, Hall Manufacturing Company, Chicago, Ill. Composition for retarding and inhibiting the growth and development of mold in foods. 401,787; June 8; Serial No. 457,664; published Mar. 23, 1943. Class 6.
Stitzel-Weller Distillery, Louisville, and Shively, Ky. Distilled liquors. 401,833; June 8. Class 49.
Sundox Products Limited, Gateshead, England. Meat and vegetable extract. 401,779; June 8; Serial No. 457,425; published Mar. 30, 1943. Class 46.
Terrytoons, Inc., New Rochelle, N. Y. Magazine for comic strips. 401,757; June 8; Serial No. 455,576; published Mar. 30, 1943. Class 38.
Thompson Products, Incorporated. (See Steel Products Company, The.)
Titeflex Metal Hose Co., Newark, N. J. Spark plug leads for the ignition of internal combustion engines. 401,812; June 8; Serial No. 458,255; published Mar. 30, 1943. Class 21.
Trader Vic. (See Bergeron, Esther.)
Underwood Elliott Fisher Company. (See Underwood Typewriter Company.)
Underwood Typewriter Company, New York, N. Y., by change of name to Underwood Elliott Fisher Company. Typewriting machines and parts thereof. 167,706; renewed May 8, 1943.
Union Asbestos & Rubber Company, Chicago, Ill. Thermal pipe insulation. 401,758; June 8; Serial No. 455,617; published Mar. 30, 1943. Class 12.
United Chemical Company, Inc., Kansas City, Mo. Glycerine substitute. 401,751; June 8; Serial No. 454,586; published Mar. 30, 1943. Class 6.
United States News Publishing Corporation, Washington, D. C. Periodical publications. 401,825; June 8. Class 38.
Vita-Var Corporation, Newark, N. J. Paints, varnishes and paint enamels. 401,749; June 8; Serial No. 451,127; published Mar. 30, 1943. Class 16.
Von Burg, Emil, doing business as American Grana Watch Company, New York, N. Y. Watches, parts thereof, watch movements, and clocks. 401,762; June 8; Serial No. 456,349; published Mar. 30, 1943. Class 27.
W. B. Foundations, Incorporated. (See Weingarten Bros., assignor.)
Warshauer & Franck, Inc., Boston, Mass. Women's and misses' dresses. 401,837; June 8. Class 39.
Weingarten Bros., New York, N. Y., assignor to W. B. Foundations, Incorporated, Newark, N. J. Corsets. 173,805; renewed Oct. 2, 1943.
Welmaid Products, Chicago, Ill. Ironing table pads and covers. 401,764; June 8; Serial No. 456,644; published Mar. 30, 1943. Class 24.
Welmaid Products, Chicago, Ill. Ironing table pads and covers. 401,765; June 8; Serial No. 456,645; published Mar. 23, 1943. Class 24.
White Caps Company, The. (See Gilbert Bros. & Co., Inc., assignor.)
Wielands Incorporated. (See San Francisco Breweries, Ltd., assignor.)
Winthrop Chemical Company, Inc., New York, N. Y. Anesthetic preparations, preparations for determining blood clotting capacity, etc. 401,816; June 8; Serial No. 458,350; published Mar. 30, 1943. Class 6.
Youths Associates Co., Minneapolis, Minn. Periodical. 401,810; June 8; Serial No. 458,215; published Mar. 23, 1943. Class 38.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Bark fiber, Shredded. Pacific Lumber Company. 401,778; June 8; Serial No. 457,420; published Mar. 30, 1943.
Wheat meal in granular form. International Milling Company. 401,798; June 8; Serial No. 457,976; published Mar. 30, 1943.

CLASS 4

Cleaners, Liquid wood. C. M. Andersen. 167,577; renewed May 1, 1943.
Cleaning compound. Cowles Detergent Company. 401,754; June 8; Serial No. 455,299; published Oct. 27, 1942.
Cleanser, Denture. R. Kenna. 401,832; June 8.
Polish, Metal. Oil Specialties & Refining Co. 401,800; June 8; Serial No. 457,988; published Mar. 30, 1943.
Shaving cream. A. S. Freeman. 401,771; June 8; Serial No. 457,118; published Mar. 30, 1943.

CLASS 5

Paste, Dry. Pyramid Process Co. 171,223; renewed July 31, 1943.

CLASS 6

Acetylcholine bromide, aminophylline, bismuth, etc. Burroughs Wellcome & Co. (U. S. A.) Inc. 401,805; June 8; Serial No. 458,170; published Mar. 16, 1943.
Ammonia substitute. Seeman Brothers, Inc. 401,802; June 8; Serial No. 458,082; published Mar. 30, 1943.
Anesthetic preparations, preparations for determining blood clotting capacity, etc. Winthrop Chemical Company. 401,816; June 8; Serial No. 458,350; published Mar. 30, 1943.
Brazing and welding flux. Air Reduction Sales Company. 401,794; June 8; Serial No. 457,926; published Mar. 16, 1943.
B vitamins. Wm. S. Merrell Company. 401,788; June 8; Serial No. 457,683; published Mar. 23, 1943.
Chemical compound for storage battery plates, Dry. B. L. Fry. 401,829; June 8.
Chemical materials, supplies, and preparations. H. M. Crosby. 401,835; June 8.
Chemicals, Photographic. Eastman Kodak Company. 401,736; June 8; Serial No. 445,389; published Mar. 23, 1943.
Composition for retarding and inhibiting the growth and development of mold in foods. Stein, Hall Manufacturing Company. 401,787; June 8; Serial No. 457,664; published Mar. 23, 1943.
Dyestuffs., E. I. du Pont de Nemours and Company. 167,613; renewed May 1, 1943.
Fly spray, Liquid. Gamble Stores Incorporated. 401,828; June 8.
Fuel oil conditioner. General Paint & Varnish Co. 401,770; June 8; Serial No. 457,079; published Mar. 23, 1943.
Germicidal and fungicidal preparations. Medical Chemicals, Inc. 401,781; June 8; Serial No. 457,526; published Mar. 30, 1943.
Glycerine. Procter & Gamble Company. 174,327; renewed Oct. 16, 1943.
Glycerine substitute. United Chemical Company. 401,751; June 8; Serial No. 454,586; published Mar. 30, 1943.
Medicinal preparation. Liberty Vitamin Corporation. 401,789; June 8; Serial No. 457,765; published Mar. 30, 1943.
Medicinal preparation. Denver Chemical Manufacturing Company. 401,795; June 8; Serial No. 457,931; published Mar. 23, 1943.
Medicinal preparation. Frye Company. 401,818; June 8; Serial No. 458,458; published Mar. 30, 1943.
Pills and tablets. J. Rubsam Co. Inc. 174,744; renewed Oct. 23, 1943.
Polish preserver, Nail. Avon Products, Inc. 401,831; June 8.
Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 401,801; June 8; Serial No. 458,034; published Mar. 30, 1943.
Preparation for the treatment of headache, neuralgia, neuritis, etc. Gilbert Bros. & Co. 174,341; renewed Oct. 16, 1943.
Preparation for the treatment of piles. Cicero F. Futrell. 174,066; renewed Oct. 2, 1943.
Preparation for treating the eyebrows and eyelashes. Ross Company. 173,052; renewed Sept. 11, 1943.
Preparation for use in the treatment of inappetence, general debility, exhaustion, etc. Sydney Ross Co. 401,786; June 8; Serial No. 457,659; published Mar. 30, 1943.
Product for local application to effect granulation and healing. Wm. S. Merrell Company. 401,777; June 8; Serial No. 457,402; published Mar. 23, 1943.
Product to supply supplementary calcium, phosphorus, iron, and vitamin D. Wm. S. Merrell Company. 401,774; June 8; Serial No. 457,397; published Mar. 23, 1943.
Product used to increase the flow of bile. Wm. S. Merrell Company. 401,776; June 8; Serial No. 457,401; published Mar. 23, 1943.
Product used to prevent hemorrhage. Wm. S. Merrell Company. 401,773; June 8; Serial No. 457,396; published Mar. 23, 1943.
Product used to prevent hemorrhage. Wm. S. Merrell Company. 401,775; June 8; Serial No. 457,399; published Mar. 23, 1943.
Sirup for coughs, colds, and bronchitis. San Antonio Drug Company. 174,361; renewed Oct. 16, 1943.
Sodium silicate. Philadelphia Quartz Company. 173,425; renewed Sept. 25, 1943.
Solution for strengthening, feeding, and promoting the development of plants. Flower Foods, Inc. 401,819; June 8; Serial No. 458,491; published Mar. 30, 1943.
Solvent, rust preventing compound, a gasoline additive, etc., Petroleum. G. F. Hutter. 401,767; June 8; Serial No. 456,889; published Mar. 23, 1943.
Toilet preparation. Dearborn Supply Company. 174,049; renewed Oct. 2, 1943.

Toilet water, perfumes, eau de cologne, etc. Mem Incorporated. 401,735; June 8; Serial No. 441,975; published Mar. 23, 1943.
Vitamin B complex capsules, brewers' yeast tablets, etc. Gamble Stores Incorporated. 401,806; June 8; Serial No. 458,174; published Mar. 30, 1943.
Vitamin capsules. Grove Laboratories, Inc. 401,793; June 8; Serial No. 457,914; published Mar. 30, 1943.
Vitamin capsules. Grove Laboratories, Inc. 401,807; June 8; Serial No. 458,190; published Mar. 30, 1943.
Vitamin tablets. Lambert Vitamins Company. 401,761; June 8; Serial No. 456,150; published Mar. 30, 1943.

CLASS 8

Ash trays. McDonald Products Corporation. 401,796; June 8; Serial No. 457,938; published Mar. 30, 1943.

CLASS 9

Blasting cap protectors and devices for carrying and applying the same. J. S. Curtiss. 401,784; June 8; Serial No. 457,603; published Mar. 30, 1943.

CLASS 11

Paper, Carbon. F. H. Mahler. 401,749; June 8; Serial No. 451,873; published July 21, 1942.

CLASS 12

Adhesives for cementing or adhering together construction materials, and cements. Celotex Corporation. 401,741; June 8; Serial No. 449,669; published Mar. 2, 1943.
Beams, girders, and other structural members. Bethlehem Fabricators, Inc. 174,750; renewed Oct. 23, 1943.
Pipe insulation. Union Asbestos & Rubber Company. 401,758; June 8; Serial No. 455,617; published Mar. 30, 1943.
Plywood, Unfinished. Haskelite Manufacturing Corporation. 401,760; June 8; Serial No. 455,729; published Mar. 30, 1943.
Shelters, Air raid. Nu-Form Engineering Corporation. 401,823; June 8.

CLASS 13

Metal couplings, pipes, and tubes, etc. National Tube Company. 171,830; renewed Aug. 14, 1943.
Pipe fittings, vent fittings, casing fittings, etc. Acheson Manufacturing Company. 174,550; renewed Oct. 23, 1943.
Valves and parts thereof and accessories therefor, Pneumatic. A. Schrader's Son, Incorporated. 173,962; renewed Oct. 2, 1943.

CLASS 14

Plates and sheets, Tin and terne. Baldwins Limited. 166,790; renewed Apr. 17, 1943.

CLASS 16

Artists' materials. L. Bogdanoff. 401,772; June 8; Serial No. 457,378; published Mar. 30, 1943.
Enamel. Edward E. Allen Mfg. Co. 172,342; renewed Aug. 28, 1943.
Paint, Floor. Edward E. Allen Mfg. Co. 172,344; renewed Aug. 28, 1943.
Paint, House. Edward E. Allen Mfg. Co. 172,343; renewed Aug. 28, 1943.
Paints and painters' materials. Edward E. Allen Mfg. Co. 174,279; renewed Oct. 9, 1943.
Paints, paint primers, paint enamels, etc. Pittsburgh Plate Glass Company. 401,811; June 8; Serial No. 458,226; published Mar. 30, 1943.
Paints, varnishes, and paint enamels. Vita-Var Corporation. 401,747; June 8; Serial No. 451,127; published Mar. 30, 1943.
Wall size. Muralo Company. 169,830; renewed July 3, 1943.

CLASS 17

Tobacco, Smoking. Cosmetics Research Laboratories. 401,790; June 8; Serial No. 457,806; published Mar. 30, 1943.

CLASS 21

Batteries, Storage. Phillips Petroleum Company. 401,755; June 8; Serial No. 440,755; published Mar. 23, 1943.
Electric floor polishing machines. S. C. Johnson & Son, Inc. 401,763; June 8; Serial No. 456,560; published Mar. 30, 1943.
Insulators used as component parts of radio sets, Steatite. National Tile Company. 401,804; June 8; Serial No. 458,119; published Mar. 30, 1943.
Spark plug leads for the ignition of internal combustion engines. Titeflex Metal Hose Co. 401,812; June 8; Serial No. 458,255; published Mar. 30, 1943.
Switches, Electric. Micro Switch Corporation. 401,780; June 8; Serial No. 457,503; published Mar. 16, 1943.
Wire and cables, Insulated. Kerite Insulated Wire & Cable Company. 174,500; renewed Oct. 23, 1943.

CLASS 23

Pistons. Kant-Shore Piston Company. 174,737; renewed Oct. 23, 1943.

Razor blades, Safety. Colton Razor Blade Company. 401,738; June 8; Serial No. 447,539; published Nov. 25, 1941.
Saws. Pennsylvania Saw Corporation. 401,836; June 8.
Screw drivers. Snap-On Wrench Company. 174,798; renewed Oct. 23, 1943.
Speed reducers, shaft couplings, friction clutches, etc. Palmer-Bee Company. 172,318; renewed Aug. 28, 1943.
Tool, Honing. Micromatic Hone Corporation. 401,826–7; June 8.
Typewriting machines and parts thereof. Underwood Typewriter Company. 167,706; renewed May 8, 1943.
Valves, Poppet. Steel Products Company. 174,055–6; renewed Oct. 2, 1943.

CLASS 24

Ironing table pads and covers. Welmaid Products. 401,764; June 8; Serial No. 456,644; published Mar. 30, 1943.
Ironing table pads and covers. Welmaid Products. 401,765; June 8; Serial No. 456,645; published Mar. 23, 1943.
Laundry nets. Pendleton Manufacturing Company. 166,594–5; renewed Apr. 10, 1943.
Wash boilers and galvanized wash tubs. Schlueter Manufacturing Co. 174,711; renewed Oct. 23, 1943.

CLASS 26

Gauges, indicators, and regulators, etc., Fluid-pressure. A. Schrader's Son, Incorporated. 174,164; renewed Oct. 9, 1943.
Model airplanes. Comet Model Airplane & Supply Company. 401,766; June 8; Serial No. 456,820; published Mar. 23, 1943.
Tester for use with all types of electronic equipment, Automatic. Communication Measurements Laboratory. 401,783; June 8; Serial No. 457,601; published Mar. 30, 1943.
Testing and combined charging and testing for storage batteries. Electric Storage Battery Company. 401,769; June 8; Serial No. 457,062; published Mar. 23, 1943.

CLASS 27

Watches and watch movements, watchcases, and parts thereof. R. Gsell & Co. 401,830; June 8.
Watches, parts thereof, watch movements, and clocks. E. Von Burg. 401,762; June 8; Serial No. 456,349; published Mar. 30, 1943.

CLASS 28

Jewelry. A. Albanese. 401,791; June 8; Serial No. 457,868; published Mar. 30, 1943.
Ring findings. Karlan & Bleicher, Inc. 401,834; June 8.

CLASS 29

Brushes, Shoe. Parks & Parks, Inc. 168,249; renewed May 15, 1943.
Daubers, Shoe. Parks & Parks, Inc. 171,622; renewed Aug. 7, 1943.

CLASS 32

Furniture. Gladding Dry Goods Co. 173,607; renewed Oct. 2, 1943.

CLASS 34

Coal and gas and combination ranges, and broilers, etc. W. F. Dougherty & Sons, Incorporated. 174,568; renewed Oct. 23, 1943.
Glass and combination glass and metal globes and reflectors. Holophane Company. 401,745; June 8; Serial No. 450,591; published Mar. 30, 1943.

CLASS 36

Saxophones, cornets, trombones, etc., and parts thereof. C. Bruno & Son, Inc. 174,315; renewed Oct. 16, 1943.

CLASS 37

Clips, Paper. Noesting Pin Ticket Company. 174,225; renewed Oct. 9, 1943.
Correspondence paper and cards, and envelopes, etc. M. T. Bird. 174,425; renewed Oct. 16, 1943.
Envelope and letter-folder sheets, Combination of. Paper Products. 401,743; June 8; Serial No. 450,142; published Mar. 30, 1943.
Paper for toilet purposes. A. P. W. Paper Company. 401,809; June 8; Serial No. 458,204; published Apr. 6, 1943.
Paper, print, book, bond, etc. J. W. Butler Paper Co. 174,222; renewed Oct. 9, 1943.
Paper, Writing. Fox River Paper Company. 174,219; renewed Oct. 9, 1943.
Paper, Writing. Fox River Paper Company. 174,232. renewed Oct. 9, 1943.
Paper, Writing and printing. F. T. Burkhardt. 401,753; June 8; Serial No. 455,064; published Mar. 30, 1943.
Print and bond paper, Bristol board, etc. J. W. Butler Paper Co. 174,242; renewed Oct. 9, 1943.

CLASS 38

Books. G. & C. Merriam Company. 401,785; June 8; Serial No. 457,628; published Mar. 23, 1943.

Magazine. Radio Corporation of America. 401,740; June 8; Serial No. 448,621; published Mar. 23, 1943.
Magazine, Comic. Famous Funnies, Inc. 401,797; June 8; Serial No. 457,950; published Mar. 30, 1943.
Magazine for comic strips. Terrytoons, Inc. 401,757; June 8; Serial No. 455,576; published Mar. 30, 1943.
Manuels, Service. Philco Corporation. 401,744; June 8; Serial No. 450,403; published Mar. 23, 1943.
Newspaper section or department. King Features Syndicate. 401,803; June 8; Serial No. 458,101; published Mar. 23, 1943.
Periodical. Youths Associates Co. 401,810; June 8; Serial No. 458,215; published Mar. 23, 1943.
Program, Souvenir. Hey-Rube, Inc. 401,814; June 8; Serial No. 458,304; published Mar. 30, 1943.
Publications and printed literature. Philadelphia Quartz Company. 173,608; renewed Oct. 2, 1943.
Publications, Periodical. United States News Publishing Corporation. 401,825; June 8.

CLASS 39

Collars. Cluett, Peabody & Co. 174,834; renewed Oct. 23, 1943.
Corsets. Weingarten Bros. 173,805; renewed Oct. 2, 1943.
Dresses, Children's. Martha Maid Manufacturing Company. 174,059; renewed Oct. 2, 1943.
Dresses, Women's and misses'. Warshauer & Franck, Inc. 401,837; June 8.
Hosiery. Stamper & Kaiser. 174,273; renewed Oct. 9, 1943.
Hosiery for men. Athens Hosiery Mills. 166,631; renewed Apr. 10, 1943.
Pants, Khaki, corduroy and worsted. N. Rothman. 173,337; renewed Sept. 25, 1943.
Raincoats, overcoats, and suits. Nicholson's Raincoat Company, Limited. 163,693; renewed Jan. 23, 1943.
Shoes, Women's. Julius Grossman, Inc. 172,103; renewed Aug. 21, 1943.
Sportswear, Men's. Carson Pirie Scott & Company. 401,824; June 8.
Underwear, Cotton, silk, wool, etc. Martha Maid Manufacturing Company. 174,331; renewed Oct. 16, 1943.

CLASS 40

Needles for hand sewing. John James & Sons Limited. 173,677; renewed Oct. 2, 1943.

CLASS 42

Fabrics in the piece, Woven, knitted, netted, etc. Cheney Brothers. 174,193; renewed Oct. 9, 1943.
Piece goods. A. D. Julliard & Co. 173,749; renewed Oct. 2, 1943.
Piece goods, Cotton. Cohn-Hall-Marx Co. 173,387; renewed Sept. 25, 1943.

CLASS 44

Artificial eyes. C. E. Biel. 171,550; renewed Aug. 7, 1943.
Gloves, Surgeons' rubber. Pioneer Rubber Company. 401,821; June 8.
Ice bags and syringe fixtures. A. Schrader's Son, Incorporated. 174,236; renewed Oct. 9, 1943.

CLASS 45

Cream, lemon, orange, and strawberry soda, etc. Country Club Soda Co. 168,458; renewed May 22, 1943.
Powder for making soft drinks. P. S. Hollis. 174,676; renewed Oct. 23, 1943.

CLASS 46

Canned preserved fruits, jams, jellies, etc. San Francisco Breweries, Ltd. 170,576; renewed July 17, 1943.
Celery. Muckland Celery Company. 401,759; June 8; Serial No. 455,694; published Dec. 8, 1942.

Cheese. T. L. Knapstein. 171,076; renewed July 31, 1943.
Chocolate. Klein Chocolate Company. 174,348; renewed Oct. 16, 1943.
Cocoa. Stephen L. Bartlett Company. 168,778; renewed May 29, 1943.
Confections, Frozen. Joe Lowe Corporation. 401,815; June 8; Serial No. 458,334; published Mar. 30, 1943.
Cereal beverage preparation. Standard Brands Incorporated. 401,808; June 8; Serial No. 458,201; published Mar. 30, 1943.
Cereals, Breakfast. Jersey Cereal Company. 401,752; June 8; Serial No. 454,757; published Mar. 30, 1943.
Dog food. Cerophyl Laboratories, Inc. 401,822; June 8.
Egg substitute. C. T. Morrissey. 401,799; June 8; Serial No. 457,985; published Mar. 30, 1943.
Flour, Self-rising. American Hominy Company. 172,435; renewed Aug. 28, 1943.
Flour, Wheat. Stafford County Flour Mills Co. 167,192; renewed Apr. 24, 1943.
Flour, Wheat. Black Bros. Flour Mills. 172,445; renewed Aug. 28, 1943.
Flour, Wheat. Fisher Flouring Mills Company. 401,792; June 8; Serial No. 457,895; published Mar. 30, 1943.
Food, auxiliary or dietary supplement food, Special purpose. Delane Brown, Inc. 401,782; June 8; Serial No. 457,572; published Mar. 30, 1943.
Food compositions. Puro Products Company. 401,756; June 8; Serial No. 455,517; published Mar. 30, 1943.
Fruit and vegetable juice, Mixed. La Choy Food Products, Inc. 401,813; June 8; Serial No. 458,272; published Mar. 30, 1943.
Fruits, Fresh citrus. Hillsborough Packing Company. 401,755; June 8; Serial No. 455,375; published Mar. 30, 1943.
Fruits, Fresh deciduous. Colfax Fruit Growers Association. 174,624; renewed Oct. 23, 1943.
Meat and vegetable extract. Sundox Products Limited. 401,779; June 8; Serial No. 457,425; published Mar. 30, 1943.
Milk, Canned sweetened. American Milk Products Corporation. 167,815; renewed May 8, 1943.
Molasses. Colonial Molasses Co. 401,737; June 8; Serial No. 446,263; published Aug. 11, 1942.
Oleo, oleo oil and shortening. Consolidated Rendering Company. 172,462; renewed Aug. 28, 1943.
Soups. Quaker Oats Company. 401,817; June 8; Serial No. 458,373; published Mar. 30, 1943.
Vegetable oil. C. F. Simonin's Sons, Inc. 401,748; June 8; Serial No. 451,451; published Mar. 30, 1943.
Vegetables, Fresh. A. Arena and Co. 401,750; June 8; Serial No. 453,577; published Dec. 22, 1942.
Vegetables—namely, lettuce, Fresh. R. E. Myers. 401,739; June 8; Serial No. 447,819; published Dec. 30, 1941.
Wafers, Dextrose. W. H. MacFarland, Sr. 401,768; June 8; Serial No. 457,009; published Mar. 30, 1943.

CLASS 48

Beer, malt tonic, malt beverages, etc. San Francisco Breweries, Ltd. 168,331; renewed May 22, 1943.

CLASS 49

Liquors, Distilled. Stitzel-Weller Distillery. 401,833; June 8.
Rum. E. Bergeron. 401,742; June 8; Serial No. 449,985; published Mar. 30, 1943.
Whiskey. Old Weston Distilling Co. 401,746; June 8; Serial No. 450,660; published Mar. 30, 1943.
Whisky. Malcolm Fraser & Co. Limited. 401,820; June 8.

CLASS 50

Ladders. Goshen Churn & Ladder Company. 174,772; renewed Oct. 23, 1943.
Plaques, Metallic hot-dish. Etched Products Corporation. 174,830; renewed Oct. 23, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Deere & Company. (See White, Charles H., assignor.)

Draper, Charles S., Newton, Mass., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Turn indicator. Re. 22,330; June 8.

Myerson, Simon, Brookline, Mass. Artificial tooth. Re. 22,331; June 8.

Oil Devices. (See Sabins, Rolland C., assignor.)

Sabins, Rolland C., Seattle, Wash., assignor to Oil Devices, Santa Fe, N. Mex. Oil burner construction. Re. 22,332; June 8.

Sperry Gyroscope Company. (See Draper, Charles S., assignor.)

White, Charles H., assignor to Deer & Company, Moline, Ill. Disk harrow. Re. 22,333; June 8.

Winthrop, John, Wyckoff, N. J. Vacuum cleaner. Re. 22,334; June 8.

LIST OF PLANT PATENTEES

Columbia & Okanogan Nursery Company. (See Donahey, Herbert W., assignor.)

Donahey, Herbert W., Yakima, assignor to Columbia & Okanogan Nursery Company, Wenatchee, Wash. Peach tree. 588; June 8.

Hayes, Signa L., Fresno, Calif. Nectarine. 587; June 8.

Robinson, James W., Richmond, Calif. Camellia plant. 589; June 8.

LIST OF DESIGN PATENTEES

Baar, Sylvan M., New York, N. Y. Jabot or similar article. 135,800; June 8.

Beebe Brothers Rubber Company. (See Beebe, E. Colman, assignor.)

Beebe, E. Colman, assignor to Beebe Brothers Rubber Company, Nashua, N. H. Shoe sole. 135,791; June 8.

Beidler, Herbert B., Chicago, Ill. Garment rack. 135,771; June 8.

Cordley & Hayes. (See Cordley, Christopher M., assignor.)

Cordley, Christopher M., assignor to Cordley & Hayes, New York, N. Y. Water cooler. 135,772; June 8.

Curran, Francis J., Oak Park, Ill. Coaster. 135,773; June 8.

Eitel-McCullough, Inc. (See Eitel, W. W., and McCullough, assignors.)

Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,792; June 8.

Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,801; June 8.

Falge Engineering Service. (See Falge, Raymond L., assignor.)

Falge, Raymond L., assignor to Falge Engineering Service, Bethesda, Md. Flash or signal light. 135,802; June 8.

Fisher, James H., Marshalltown, Iowa. Service bar pin. 135,793; June 8.

Frost, Frank E., Chicago, Ill. Stocking. 135,810; June 8.

Ganz, Rudy V., assignor to Shawnee Pottery Co., Zanesville, Ohio. Shaker for salt and pepper. 135,785; June 8.

Goodyear Footwear Corporation. (See Hard, John E., assignor.)

Grivin, Adolphe, New York, N. Y. Combined hanger and easel. 135,786; June 8.

Hahn, Harold V. (See Phillips, D., and Hahn.)

Hard, John E., Cranston, assignor to Goodyear Footwear Corporation, Providence, R. I. Waterproof jacket. 135,787; June 8.

Hettrick Manufacturing Company, The. (See Smith, William I., assignor.)

House of Westmore Inc. (See Loewy, Raymond, assignor.)

Jackson, Diana M., New York, N. Y. Combination bag and garment. 135,794; June 8.

Johnson, Hugh B., Rochester, N. Y. Pack board. 135,795; June 8.

Koehler, Emma E., Elmhurst Gardens, Ill. Apron. 135,807; June 8.

Leider, Samuel L., New York, N. Y. Toy gun. 135,774; June 8.

Lerner, S. P. (See Swain, Rae C., assignor.)

Levy, Nat, New York, N. Y. Earring. 135,780; June 8.

Levy, Nat, New York, N. Y. Brooch. 135,781; June 8.

Levy, Nat, New York, N. Y. Brooch. 135,782; June 8.

Levy, Nat, New York, N. Y. Brooch. 135,783; June 8.

Loewy, Raymond, assignor to House of Westmore Inc., New York, N. Y. Bottle. 135,803; June 8.

Mazzarelli, Augustine M., New York, N. Y. Pouring spout for bottles. 135,796; June 8.

McCullough, Jack A. (See Eitel, W. W., and McCullough.)

Morten, Winfield. (See Pettigrew, H. F., and Morten.)

Naranick, Nicholas T., U. S. Army, Casper, Wyo. Ration container. 135,804; June 8.

Nichols, John P., Philadelphia, Pa. Shelved bracket. 135,775; June 8.

Pettigrew, H. F., and W. Morten, assignors to Texas Prefabricated House & Tent Company, Dallas, Tex. Prefabricated building. 135,797; June 8.

Phillips, Dorothy, and H. V. Hahn, Cleveland, Ohio. Comb. 135,788; June 8.

Posture Research Corporation. (See Wood, Glenn D., assignor.)

Primozich, Raymond R., Denver, Colo. Badge or the like. 135,789; June 8.

Richter, George F., Bogota, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bottle container. 135,798; June 8.

Richter, George F., Bogota, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Lipstick container. 135,799; June 8.

Scovill Manufacturing Company. (See Richter, George F., assignor.)

Shawnee Pottery Co. (See Ganz, Rudy V., assignor.)

Siebel, Margaret, New York, N. Y. Toy animal figure. 135,776; June 8.

Smith, William I., Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Glider. 135,777; June 8.

Sneed, Jessamine C., Ardmore, Okla. Jewelry finding or the like. 135,790; June 8.

Swain, Rae C., South Gate, assignor to S. P. Lerner, Los Angeles, Calif. Pin or similar article. 135,808; June 8.

Texas Prefabricated House & Tent Company. (See Pettigrew, H. F., and Morten, assignors.)

Vasselli, Anthony J., Newark, N. J. Gearing hobbing machine. 135,784; June 8.

Wallance, Donald A., Washington, D. C. Bridge lamp. 135,805; June 8.

Wiener, Jack, New York, N. Y. Embroidered lace. 135,806; June 8.

Wood, Glenn D., assignor to Posture Research Corporation, Elkhart, Ind. Combined seat and back rest for a chair or the like. 135,778; June 8.

Zahn, Samuel, New York, N. Y. Jacket. 135,779; June 8.

Zuk, Joseph, Chicago, Ill. Comb cleaner. 135,809; June 8.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A. B. T. Manufacturing Corp. (See Grau, Carl L., assignor.)
A. B. T. Manufacturing Corp. (See Grunig, Bernhard C., assignor.)
Adel Precision Products Corporation. (See Ellinwood, Herman R., assignor.)
Adel Precision Products Corp. (See Van der Werff, Jacob B., assignor.)
Aero Metal Products Corporation. (See Dodegge, Carl, assignor.)
Aeronautic Sales & Service, Inc. (See Bircher, Richard, assignor.)
Aga-Baltic Radio Aktiebolag. (See Alexandersson, H. V., and Granqvist, assignors.)
Agriculture of the U. S. of America, Claude R. Wickard, and to his successors in office, Secretary of. (See Goodhue, L. D., and Sullivan, assignors.)
Agriculture of the United States of America, Henry A. Wallace, and to his successors in office, Secretary of. (See Stamm, A. J., and Seborg, assignors.)
Air Preheater Corporation, The. (See Cooper, Roland S., assignor.)
Alburger, James R., Merion, Pa., assignor to Radio Corporation of America. Photographic fixing bath. 2,321,347; June 8.
Alburger, James R., Merion, Pa., assignor to Radio Corporation of America. Photographic developer. 2,321,348; June 8.
Alexandersson, Harald V., Lidingo, and C.-E. Granqvist, assignors to Aga-Baltic Radio Aktiebolag, Stockholm, Sweden. Remote control system. 2,320,996; June 8.
Alfery, Henry F., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Thermoelectric safety shut-off device. 2,321,119; June 8.
Alien Property Custodian. (See Rickenmann, Alfred.)
Alien Property Custodian. (See Schmid, Ernest.)
Allen, Edwin H., Janesville, assignor to Highway Trailer Company, Edgerton, Wis. Tilting dump body. 2,320,995; June 8.
Allied Chemical & Dye Corporation. (See Tefft, Ralph F., assignor.)
Allied Laboratories, Inc. (See Donleavy, John J., assignor.)
All Metal Products Company. (See Gora, J. J., and Wyrick, assignors.)
Aluminum Company of America. (See Miller, Mike A., assignor.)
American Brake Shoe and Foundry Company, The. (See Lerner, Earl A., assignor.)
American Can Company. (See Cox, H. F., Jr., and Felber, assignors.)
American Can Company. (See Preis, Carl G., assignor.)
American Can Company. (See Seymer, Richard H., assignor.)
American Cyanamid Company. (See Christmann, L. J., Jayne and Erickson, assignors.)
American Cyanamid Company. (See Thurston, Jack T., assignor.)
American Flange & Manufacturing Co. (See Shera, John W., assignor.)
American Optical Company. (See Dodkin, D., and MacGregor, assignors.)
American Optical Company. (See Harper, Worthy C., assignor.)
American Optical Company. (See Higgins, Joseph E., assignor.)
American Rolling Mill Company, The. (See Fon Der-Smith, C. R., and Bergmann, assignors.)
American Shoe Machinery and Tool Company. (See Krag, Harry W., assignor.)
American Steel and Wire Company, The. (See Di Cicco, Dominic A., assignor.)
American Steel and Wire Company, The. (See Dyer, Daniel P., Jr., assignor.)
American Stove Company. (See Meacham, B. E., and Frick, assignors.)
American Telephone and Telegraph Company. (See Anspach, Russell J., assignor.)
American Telephone and Telegraph Company. (See Duncan, James A., assignor.)
American Telephone and Telegraph Company. (See Hanley, Frank H., assignor.)
American Telephone and Telegraph Company. (See Kaufman, Arthur W., assignor.)
American Telephone and Telegraph Company. (See Neiswinter, James T., assignor.)
American Telephone and Telegraph Company. (See Peltz, H. F., and Zieschang, assignors.)
American Telephone and Telegraph Company. (See Perry, Donald B., assignor.)

Anderson, Albert F., San Francisco, Calif. Antislipping device for locomotives. 2,321,059; June 8.
Anderson, Edmund B., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Constant velocity universal joint. 2,321,448; June 8.
Anspach, Russell J., Westfield, N. J., assignor to American Telephone and Telegraph Company. Telegraph system. 2,321,349; June 8.
Ardner, Frank J., Highland Park, assignor to L. A. Young, Detroit, Mich. Cutting implement. 2,321,350; June 8.
Ardner, Frank J., Highland Park, assignor to L. A. Young, Detroit, Mich. Safety razor. 2,321,351; June 8.
Armao, John I., Elsmere, N. Y. Building block. 2,321,449; June 8.
Artzt, Maurice, Haddonfield, N. J., assignor to Radio Corporation of America. Frequency modulation. 2,321,269; June 8.
Asaro, Vito. (See Young, L. A., and Asaro.)
Ashby, Carl T., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,321,060; June 8.
Askue, Albert R., Mentor, assignor to The Cleveland Trencher Company, Cleveland, Ohio. Trenching machine. 2,321,352; June 8.
Athy, Lawrence F., and E. V. McCollum, assignors to Continental Oil Company, Ponca City, Okla. Seismic surveying. 2,321,450; June 8.
Atlas Bolt & Screw Company, The. (See Schellentrager, Eugene W., assignor.)
Atwood, Edwin H., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method for the distillation of crude oils containing acidic substances. 2,321,540; June 8.
Atwood, John B. (See Peterson, H. O., and Atwood.)
Automotive Economy Corporation. (See Johnson, Alvin V., assignor.)
Ayers, Austin L., and W. Hensel, Cleveland, Ohio. Apparatus for coating molds and the like. 2,321,172; June 8.
B. H. & M. Company. (See Howe, Andrew F., assignor.)
Bacon, Kenneth D., and G. K. Greminger, Jr., assignors to The Dow Chemical Company, Midland, Mich. Aqueous thickening solutions. 2,321,270; June 8.
Bacon, Walter M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. 2,320,997; June 8.
Bahlke, Alfred F., New Providence, M. Moeller, Millburn, and R. W. Sheppard, Montclair, assignors to Utility Electric Corp., East Newark, N. J. Fuse holder. 2,321,271; June 8.
Baker, John G., Saunderstown, R. I. Log cabin construction. 2,321,120; June 8.
Baldwin Locomotive Works, The. (See Smith, John E., assignor.)
Baranowski, Leo P. (See Mork, G. W., and Baranowski.)
Barnes, John L. (See Ehret, R. J., and Barnes.)
Barton, Rice, Corporation. (See Stafford, S. B., and Smith, assignors.)
Basquin, Olin H., Evanston, assignor to Streeter-Amet Company, Chicago, Ill. Gauging apparatus. 2,321,121; June 8.
Bauer, Rudolf, Cologne-Deutz, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Water-soluble condensation product. 2,321,451; June 8.
Bay Chemical Company. (See Comstock, Rock L., assignor.)
Becwar, Rudolph A., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Radio antenna. 2,321,272; June 8.
Beebe, Murray C., Mount Carmel, assignor to Scovill Manufacturing Company, Waterbury, Conn. Coating metal articles. 2,320,998; June 8.
Beebe, Murray C., Mount Carmel, assignor to Scovill Manufacturing Company, Waterbury, Conn. Bonding rubberlike plastics and aluminum. 2,320,999; June 8.
Belcher, William E., Mathias, W. Va. Speed recording device. 2,321,273; June 8.
Bell, David A., London, England, assignor to Radio Patents Corporation. Electrical apparatus. 2,321,353; June 8.
Bell, David A., and O. H. Davie, London, England, assignors to Radio Patents Corporation. Electrical apparatus. 2,321,354; June 8.
Bell Telephone Laboratories, Incorporated. (See Bacon, Walter M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ehrhardt, R. A., and Wright, assignors.)
Belmont Radio Corporation. (See Plensler, Alexander W., assignor.)

Bemis, Kenneth E., Oakland, Calif. Apparatus for making semifrozen confections. 2,321,173; June 8.
Bendix Aviation Corporation. (See Chappell, R. R., and Colt, assignors.)
Bendix Aviation Corporation. (See Jones, Burr W., assignor.)
Bendix Aviation Corporation. (See Raskhodoff, Nicholas M., assignor.)
Bennett, Incorporated. (See Porter, Rotheus B., Jr., assignor.)
Bennett, Racy D., assignor to Vinco Corporation, Detroit, Mich. Feed control and deceleration valve. 2,321,000; June 8.
Berger, Emil J., Hatfield, and H. W. Matthews, assignors to Dexdale Hosiery Mills, Lansdale, Pa. Textile treating apparatus. 2,321,452; June 8.
Bergman, Charles P., San Francisco, Calif., and M. Cornell, Cleveland, Ohio, assignors to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Repeat valve shutoff system. 2,321,062; June 8.
Bergmann, Richard F., Lakewood, and C. C. Walters, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for processing thread. 2,321,541; June 8.
Bergmann, William W. (See Fon Dersmith, C. R., and Bergmann.)
Bergstrom, Oscar, Evanston, assignor to Handy Manufacturing Company, Chicago, Ill. Fabricating wall sections and the like. 2,321,174; June 8.
Berman, Samuel, Richmond Hill, assignor to Waugh Equipment Company, New York, N. Y. Surgical probe for locating foreign metal particles in body tissue. 2,321,355; June 8.
Berman, Samuel, Richmond Hill, assignor to Waugh Equipment Company, New York, N. Y. Locator. 2,321,356; June 8.
Bernhardt, Ernest W., assignor to The A. A. Wood & Sons Company, Atlanta, Ga. Gin saw sharpening machine. 2,321,274; June 8.
Billett, Stanley, Bakersfield, Calif. Turnbuckle lock. 2,321,001; June 8.
Binckley, George S., Los Angeles, Calif., assignor, by decree of court and mesne assignments, to S. W. Binckley, as trustee. Liquid gravitometer. 2,321,175; June 8.
Binckley, Sydney W., trustee. (See Binckley, George S., assignor.)
Bircher, Richard, assignor to Aeronautic Sales & Service, Inc., Philadelphia, Pa. Ski mechanism for aircraft. 2,321,561; June 8.
Birkenmaier, Theodore, St. Louis, and C. E. Mosley, Overland, assignors to W. W. Matthews Corporation, St. Louis, Mo. Reclosing circuit breaker. 2,321,122; June 8.
Black, Clarence H. (See Harrington, G. G., Stancliff, and Black.)
Blackburn, Claude E., assignor to The J. M. Huber Corporation, Borger, Tex. Tubing cleaner. 2,321,275; June 8.
Blaw-Knox Company. (See Boyer, William R., assignor.)
Bloch, Leon, Cleveland, Ohio. Waste and overflow fitting. 2,321,176; June 8.
Bloise, Frank. (See McFalls, Irving H., assignor.)
Blossom, Claire E., Vassar, Mich. Combination table and bench. 2,321,177; June 8.
Bogart, Abraham, Paterson, N. J. Nether garment. 2,321,123; June 8.
Bohnke, Herman C., Carnegie, assignor to Superior Paper Products Company, Crafton, Pa. Packing box. 2,321,063; June 8.
Boileau, Arthur H., Cedar Rapids, Iowa, assignor to Cherry-Burrell Corporation, Chicago, Ill. Pasteurizer. 2,321,453; June 8.
Bokovoy, Samuel A., Audobon, N. J., assignor to Radio Corporation of America. Mounting piezoelectric crystals. 2,321,358; June 8.
Boonton Molding Company. (See Sayre, Gordon B., assignor.)
Borg-Warner Corporation. (See Anderson, Edmund B., assignor.)
Borg-Warner Corporation. (See Moore, Charles A., assignor.)
Borg-Warner Corporation. (See Reed, Harold V., assignor.)
Born, William T. (See Weatherby, B. B., and Born.)
Boucher, Charles P., Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C. Transformer. 2,321,357; June 8.
Boucher Inventions, Ltd. (See Boucher, Charles P., assignor.)
Bourne, Harry K., Rugby, and L. J. Capp, Daventry, England, assignors to General Electric Company. High pressure mercury vapor discharge device. 2,321,178; June 8.
Bowdoin, George E., New York, and W. Strobridge, Syracuse, assignors to United States Hoffman Machinery Corporation, New York, N. Y. Apparatus for drying. 2,321,124; June 8.
Boyer, William R., Oakmont, Pa., assignor to Blaw-Knox Company. Sheet-cleaning apparatus. 2,321,179; June 8.
Boyle, Edward D., Valdosta, Ga. Making concrete pipe. 2,321,277; June 8.
Boynton, Alexander, San Antonio, Tex. Stage lift flow device. 2,321,002; June 8.
Boynton, Alexander, San Antonio, Tex. Differential stage lift flow device. 2,321,003; June 8.
Bradbury, Thomas, assignor to Phillips Telescopic Taps Limited, Birmingham, England. Switch for electric flashlights or the like. 2,321,180; June 8.
Brady, Frank W., San Francisco, Calif. Ice sizing machine. 2,321,125; June 8.
Branson, Ellis M., Orlando, Fla. Optical device. 2,321,004; June 8.
Breuer Electric Mfg. Co. (See Breuer, Grant W., assignor.)
Breuer, Grant W., assignor to Breuer Electric Mfg. Co., Chicago, Ill. Dust tight blower. 2,321,126; June 8.
Brewster Aeronautical Corporation. (See Frey, C. J., and Thomas, assignors.)
Brewster Aeronautical Corporation. (See Horncastle, Thomas E., assignor.)
Britain, Mary E., Detroit, Mich. Collapsible basket. 2,321,005; June 8.
Britton, Edgar C., and W. R. Shawver, assignors to The Dow Chemical Company, Midland, Mich. Preparation of chloroacetamide. 2,321,278; June 8.
Britton, Sylvester C. (See Henry, R. W., and Britton.)
Brockway Glass Company. (See Mengle, Glenn A., assignor.)
Brodersen, Richard, Dessau, and G. Wilmanns, Wolfen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Manufacture of antihalation layers. 2,321,279; June 8.
Broedling, William E., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Flexible tubing. 2,321,064; June 8.
Brooks, Richard E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of alkoxy alcohols. 2,321,542; June 8.
Brown, Cecil L., Baton Rouge, La., assignor to Standard Oil Development Company. Safety fuel. 2,321,280; June 8.
Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Multiple section antenna. 2,321,454; June 8.
Brown, H. Brainard, assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 2,321,181; June 8.
Brown, Henry, assignor to The Udylite Corporation, Detroit, Mich. Electrodeposition of nickel from an acid bath. 2,321,182; June 8.
Brown, Robert R., Chicago, Ill. Hot rolling deep drawing steel sheets. 2,321,183; June 8.
Bucyrus-Erie Company. (See Mork, G. W., and Baranowski, assignors.)
Budd, Edward G., Manufacturing Company. (See Pond, Clarke P., assignor.)
Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)
Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Conversion of nonbenzenoid hydrocarbons to aromatics. 2,321,006; June 8.
Burka, Samuel M. (See Thurlow, Thomas L., and Burka.)
Burke, Peter W., assignor to Dowty Equipment Limited, Cheltenham, England. Mounting for aircraft components. 2,321,065; June 8.
Burns, Robert S. (See Sweezey, Robert J., assignor.)
Bush, Theodore R. (See Schultz, A. B., and Bush.)
Butterworth, Frances Miller, Hasbrouck Heights, N. J. Combined business card and label. 2,321,184; June 8.
Byrne, Hugh J., Oakland, Calif. Automatic machine speed control mechanism. 2,321,455; June 8.
Byrne, Paul F., West Caldwell, N. J., assignor to Federal Telephone and Radio Corporation. Short-wave keying device. 2,321,456; June 8.
Cabot, Samuel, Jamaica Plain, assignor to Samuel Cabot, Inc., Boston, Mass. Preparing pigment material. 2,321,007; June 8.
Cabot, Samuel, Inc. (See Cabot, Samuel, assignor.)
California Packing Corporation. (See Russell, Clyde D., assignor.)
Calkins, Claud C. (See Williams, Sylvester J., assignor.)
Camp, Albert T., Belvidere, N. J., assignor to Hercules Powder Company, Wilmington, Del. Preparing coating compositions. 2,321,127; June 8.
Cantor, Daniel, Jersey City, N. J. Blackout lamp. 2,321,008; June 8.
Capp, Leslie John. (See Bourne, H. K., and Capp.)
Carbide and Carbon Chemicals Corporation. (See Harshberger, Norman P., assignor.)
Carbide and Carbon Chemicals Corporation. (See MacDowell, L. G., and McNamee, assignors.)
Carborundum Company, The. (See Robie, Norman P., assignor.)
Carlson, Bert G., Erieside, assignor to Jack & Heintz, Inc., Cleveland, Ohio. Gyro drift control. 2,321,543; June 8.
Carr, Walter F., T. G. Woolhouse, and W. Green, Wath-upon-Dearne, near Rotherham, England. Apparatus for the treatment of acid sludge. 2,321,457; June 8.
Case, J. I., Company. (See Russell, Stanley D., assignor.)
Caserta, Alfred E. (See Sherman, C. F., and Caserta.)
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)

Celanese Corporation of America. (See Schneider, George, assignor.)
Challand, Charles O., De Kalb, Ill. Harrow. 2,321,359; June 8.
Chamberlain, Leonard C. (See Grebe, J. J., and Chamberlain.)
Chambers, Warren F., Berkley, Mich. Tee carrier. 2,321,360; June 8.
Chappell, Ralph R., Richmond, Va., and R. B. Colt, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind. Shutter mechanism. 2,321,361; June 8.
Charles of The Ritz, Inc. (See Conant, Polly A., assignor.)
Chautauqua Cabinet Company. (See Ruckman, Albert J., assignor.)
Chenault, William B., Wellsville, N. Y., and A. E. Miller, Westfield, N. J., assignors to Sinclair Refining Company, New York, N. Y. Decolorizing a viscous mineral oil. 2,321,458; June 8.
Chenault, William B., Wellsville, N. Y., and A. E. Miller, Westfield, N. J., assignors to Sinclair Refining Company, New York, N. Y. Decolorizing a mineral oil. 2,321,459; June 8.
Chenault, William B., Wellsville, N. Y., and A. E. Miller, Westfield, N. J., assignors to Sinclair Refining Company, New York, N. Y. Decolorizing mineral oil. 2,321,460; June 8.
Cherry-Burrell Corporation. (See Boileau, Arthur H., assignor.)
Chisholm-Ryder Company, Incorporated. (See de Back, William, assignor.)
Christel, William F., Valders, Wis. Pea viner. 2,321,461; June 8.
Christensen, John. (See Etsel, K. G., and Christensen.)
Christenson, Gust J., assignor to Locomotive Firebox Company, Chicago, Ill. Thermic siphon. 2,321,362; June 8.
Christian, Joseph D., San Francisco, Calif. Heat exchange screw conveyer. 2,321,185; June 8.
Christmann, Ludwig J., Yonkers, N. Y., D. W. Jayne, Jr., Old Greenwich, and S. E. Erickson, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y. Froth flotation of acidic minerals. 2,321,186; June 8.
Chromogen, Incorporated. (See Goldfinger, Paul, assignor.)
Churchill, Owen P., Los Angeles, Calif. Swim fin. 2,321,009; June 8.
Cincinnati Fly Screen Company, The. (See Milnor, Leland T., assignor.)
Clark, Robert R., Chapel Hill, N. C. Explosive bullet. 2,321,128; June 8.
Cleveland Pneumatic Tool Company, The. (See Wallace, John F., assignor.)
Cleveland Rock Drill Company, The. (See Feucht, Albert, assignor.)
Cleveland Trencher Company, The. (See Askue, Albert R., assignor.)
Clopay Corporation. (See Thexton, Arthur L., assignor.)
Cluett, Peabody & Co. (See Kennedy, John W., assignor.)
Coburn, Abbott. (See Koch, Henry C., assignor.)
Cohn, Samuel, New York, N. Y. Method and apparatus for treating fabrics. 2,321,010; June 8.
Cole, Harriett E. (See Terry, William C., assignor.)
Coleman Bottled Gas, Inc. (See Taft, Harold W., assignor.)
Coleman Lamp and Stove Company, The. (See Tullis, Boyd W., assignor.)
Colgate-Palmolive-Peet Company. (See Dreger, E. E., and Ross, assignors.)
Collins, Charles H., Lebanon, Ohio, assignor to Remington Arms Company, Inc. Turning tool. 2,321,281; June 8.
Colt, Ruther B. (See Chappell, R. R., and Colt.)
Compo Shoe Machinery Corporation. (See Crandell, Ervin L., assignor.)
Comstock, Rock L., Weeks, assignor to Bay Chemical Company, Inc., New Orleans, La. Dry hydrogen chloride. 2,321,282; June 8.
Conant, Polly A., assignor to Charles of The Ritz, Inc., New York, N. Y. Cosmetic container. 2,321,462; June 8.
Condit, Daniel H., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Organo-aluminum solution and preparing same. 2,321,463; June 8.
Container Corporation of America. (See Wells, Earle W., assignor.)
Continental Can Company. (See Mills, J., and Lang, assignors.)
Continental Oil Company. (See Athy, L. F., and McCollum, assignors.)
Cook, Roger R., Des Moines, Iowa. Cultivator. 2,321,464; June 8.
Cooper, Roland S., River Forest, Ill., assignor to The Air Preheater Corporation, New York, N. Y. Air preheater control. 2,321,129; June 8.
Cope, Kenneth B. (See Swartz, Richey L., assignor.)
Cornell, Mead. (See Bergman, C. P., and Cornell.)
Cox, Herbert F., Jr., Murray Hill, and J. Felber, Hillside, N. J., assignors to American Can Company, New York, N. Y. Container. 2,321,011; June 8.
Coy, Don W., Chicago, and W. T. Ritter, River Forest, assignors to United Biscuit Company of America, Chicago, Ill. Carton forming method and apparatus. 2,321,562; June 8.
Craft, John H., Jr. (See Dense, J. C., and Craft.)
Crandell, Erwin L., Wellesley, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Apparatus for the cementing of shoes. 2,321,130–1; June 8.
Crecca, John D., U. S. Navy. Electrical switch. 2,321,012; June 8.
Crom, John M., Washington, D. C. Method of and apparatus for banding tanks. 2,321,465; June 8.
Crosman, Loring P., Maplewood, assignor to Monroe Calculating Machine Company, Orange, N. J. Listing adding machine. 2,321,013; June 8.
Crosman, Loring P., Maplewood, assignor to Monroe Calculating Machine Company, Orange, N. J. Listing machine. 2,321,014; June 8.
Crouse-Hinds Company. (See Olley, R. H., and Lester, assignors.)
Crowley, Cornelius J., assignor to The Seamless Rubber Company, New Haven, Conn. Adhesive bandage. 2,321,363; June 8.
Crowther, Edmond C., Philadelphia, Pa. Locking nut structure. 2,321,466; June 8.
Cusa, Noel W., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Manufacture of tertiary bases. 2,321,467; June 8.
Cutler-Hammer, Inc. (See Hodgson, Howard E., assignor.)
Czaja, Walter B., Chicago, Ill. Air circulator for stoves. 2,321,132; June 8.
D'Alello, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction products of aldehydes and diazine derivatives. 2,321,364; June 8.
Darche, Maurice, Brooklyn, N. Y. Picture frame. 2,321,365; June 8.
Davie, Owen H. (See Bell, D. A., and Davie.)
Davis, Hyman R., assignor to The Lummus Company, New York, N. Y. Catalytic reactor. 2,321,015; June 8.
Davis, Richard W., Miami, Fla. Marine vessel. 2,321,133; June 8.
De Back, William, assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y. Apparatus for treating foodstuffs. 2,321,016; June 8.
De Benedictis, Aldo. (See Luten, D. B., Jr., and De Benedictis.)
De Bolt, Vaughn S., Washington Court House, Ohio. Turbocompressor. 2,321,276; June 8.
Defender Photo Supply Co. (See Dense, J. C., and Craft, assignors.)
DeGhetto, Anselm, Clifton, N. J., assignor to National Rubber Machinery Company, Akron, Ohio. Spreader for looms. 2,321,283; June 8.
De la Calle, Antonio F., Mexico City, Mexico. Fluid discharge nozzle. 2,321,017; June 8.
Demuth, Galan W., Moorestown, N. J., assignor to Radio Corporation of America. Electric carillon. 2,321,366; June 8.
Dense, Jack C., and J. H. Craft, Jr., assignors to Defender Photo Supply Co., Inc., Rochester, N. Y. Package sealing and opening means. 2,321,066; June 8.
Derby Sealers, Incorporated. (See Krueger, Alfred P., assignor.)
Dessart, Franklyn M., New York, N. Y. Sanitary seal for drinking cups. 2,321,284; June 8.
De Witt, Guy C., Utica, N. Y. Preformed strip for forming expansion joints. 2,321,067; June 8.
De Witt, William J., A. Hommel, and A. Schoenwald, assignors to Shoe Form Co. Inc., Auburn, N. Y. Welding. 2,321,068; June 8.
Dexdale Hosiery Mills. (See Berger, E. J., and Matthews, assignors.)
Di Cicco, Dominic A., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Packaging sheet material and the like. 2,321,187; June 8.
Diggin, Myron B., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Anode bag. 2,321,367; June 8.
Dittmar, Harry R., and D. E. Strain, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of methylol urea. 2,321,544; June 8.
Dodegge, Carl, Maywood, assignor, by mesne assignments, to Aero Metal Products Corporation, Chicago, Ill. Ticket machine. 2,321,545; June 8.
Dodkin, Donald, and C. L. MacGregor, assignors to American Optical Company, Southbridge, Mass. Heating device for ophthalmic mountings. 2,321,368; June 8.
Doering, Charles and H. H., Chicago, Ill. Extruding plastic substances. 2,321,188; June 8.
Doering, Henry H. (See Doering, Charles and H. H.)
Dom Chemical Company, The. (See Hanson, Alden W., assignor.)
Donleavy, John J., Hamden, Conn., assignor, by mesne assignments, to Allied Laboratories, Inc., Kansas City, Mo. Alkyl thio substituted amino benzoic acid alkamine esters and salts thereof. 2,321,468; June 8.
Douglas, H. A., Mfg. Co. (See Johnson, Elmer E., assignor.)
Dow Chemical Company, The. (See Bacon, K. D., and Greminger, assignors.)

Dow Chemical Company, The. (See Britton, E. C., and Shawver, assignors.)
Dow Chemical Company, The. (See Grebe, J. J., and Chamberlin, assignors.)
Dow Chemical Company, The. (See Peterson, N. R., and Sherk, assignors.)
Dowd, Charles G., Baltimore, Md. Bracket for mounting automatic rifles. 2,321,018; June 8.
Dowty Equipment Limited. (See Burke, Peter W., assignor.)
Draving, Arthur M., assignor to Hugh H. Eby, Inc., Philadelphia, Pa. Socket receptacle. 2,321,469; June 8.
Draving, Arthur M., Feasterville, assignor to Hugh H. Eby, Inc., Philadelphia, Pa. Plug-in socket device. 2,321,470; June 8.
Dravneek, Paul E., assignor to Induction Heating Corp., New York, N. Y. Induction heating apparatus. 2,321,189; June 8.
Dray, Walter R., Yorkville, Ill. Harvester-thresher combine. 2,321,019; June 8.
Dreger, Emil E., Summit, N. J., and J. Ross, New York, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Detergent and making it. 2,321,020; June 8.
Dresner, Joseph, St. Louis, Mo. Journal box. 2,321,070; June 8.
Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Production of cellulose derivatives. 2,321,069; June 8.
Dubilier, William, New Rochelle, N. Y. Dropper. 2,321,369; June 8.
Dubilier, William, New Rochelle, assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y. Hearing aid system. 2,321,370; June 8.
Du Mont, Allen B., Laboratories, Inc. (See Koch, Stanley J., assignor.)
Duncan, James A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Telegraphic auction system. 2,321,372; June 8.
Du Pont, E. I., de Nemours & Company. (See Brooks, Richard E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Dittmar, H. R., and Strain, assignors.)
Du Pont, E. I., de Nemours & Company. (See Fox, Arthur L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Keats, J. L., and Stark, assignors.)
Du Pont, E. I., de Nemours & Company. (See Loder, Donald J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Lubs, Herbert A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Miller, Charles F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Salzberg, Paul L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Schildknecht, Calvin E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Sussman, Sidney, assignor.)
Du Pont, Richard C., Wilmington, Del. Amusement device. 2,321,371; June 8.
Dyer, Daniel P., Jr., Chagrin Falls, Ohio, assignor to The American Steel and Wire Company of New Jersey. Composite electrical conductor. 2,321,021; June 8.
Eades, Harry H., Pittsburgh, Pa., assignor to Reynolds Metals Company, Richmond, Va. Plaster base and wall construction. 2,321,373; June 8.
Eaton Manufacturing Company. (See Keagy, David R., assignor.)
Eby, Hugh H., Inc. (See Draving, Arthur M., assignor.)
Edison-Splitdorf Corporation. (See Nowosielski, Edward B., assignor.)
Ehret, Robert J., Haddonfield, N. J., and J. L. Barnes Winchester, Mass., assignors to Radio Corporation of America. Modulation system. 2,321,285; June 8.
Ehrhardt, Robert A., New Providence, N. J., and E. E. Wright, Whitestone, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Assembling dry rectifiers and the like with solder. 2,321,071; June 8.
Eiseman, Bernhardt J., Jr., Memphis, Tenn. Making adhesive-coated surfaces and products so made. 2,321,072; June 8.
Electrolux Corporation. (See Lofgren, Gustaf E., assignor.)
Electrolux Corporation. (See Missmer, Alice, assignor.)
Electromaster, Inc. (See Hubbard, Henry H., assignor.)
Ellinwood, Herman R., assignor to Adel Precision Products Corporation, Burbank, Calif. Rotary pump. 2,321,190; June 8.
Elmendorf, Duryea E., Cleveland, Ohio, assignor to General Electric Company. Filament sorting apparatus. 2,321,191; June 8.
Emerson, Walter H., East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va. Dinnerware machine. 2,321,471; June 8.
Engel, Phillip M., Lansdowne, Pa., assignor to General Electric Company. Electric switch. 2,321,374; June 8.
Engs, William, and S. N. Wik, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Producing and recovering halogenated organic compounds. 2,321,472; June 8.
Erdman, Harvey C., Shaker Heights, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio. Thread-rolling die. 2,321,375; June 8.
Erickson, Stephen E. (See Christmann, L. J., Jayne, Jr., and Erickson.)
Etsel, Knut G., and J. Christensen, Chicago, Ill. Door operating device. 2,321,286; June 8.
Evans, Theodore W. (See Marple, K. E., and Evans.)
Fairbanks, Morse & Co. (See Turner, Harold H., assignor.)
Farnsworth Television and Radio Corporation. (See Salinger, Hans, assignor.)
Farrell, John D., assignor to The Foote Company, Inc., Nunda, N. Y. Inclinable boom and bucket for concrete mixers. 2,321,073; June 8.
Fay, Walter M., Ludlow, Mass. Trigger operating mechanism. 2,321,287; June 8.
Federal Telephone and Radio Corporation. (See Byrne, Paul F., assignor.)
Federal Telephone and Radio Corporation. (See Saslaw, Otto, assignor.)
Felber, John. (See Cox, H. F., Jr., and Felber.)
Ferguson, Kenneth C., assignor to Inland Container Corporation, Indianapolis, Ind. Carton structure. 2,321,473; June 8.
Fermier, George F., assignor to Reed Roller Bit Company, Houston, Tex. Core orienting device. 2,321,474; June 8.
Feucht, Albert, Garfield Heights, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Rock drill. 2,321,475; June 8.
Finaldi, James V. (See Gamache, Homer, assignor.)
Finch, James L., East Rockaway, N. Y., assignor to Radio Corporation of America. Filter for suppression of harmonics. 2,321,376; June 8.
Finkel, Harry, New York, N. Y. Lamp shade. 2,321,288; June 8.
Fischer, Howard L. (See Ulvick, George, assignor.)
Fischer, Joseph, Grand Rapids, Mich. Motorcycle pad holder. 2,321,192; June 8.
Fischer & Porter Company. (See Porter, George K., assignor.)
Fleisher, Harry, Watertown, Conn., and G. H. Tillett, Jackson Heights, assignors to Roto-Matic Screen Printer, Ltd., New York, N. Y. Screen color printing apparatus. 2,321,134; June 8.
Florman, Irving, New York, N. Y. Cigarette lighter. 2,321,135; June 8.
Fon Dersmith, Charles R., and W. W. Bergmann, assignors to The American Rolling Mill Company, Middletown, Ohio. Water cooled skewback casting. 2,321,074; June 8.
Food Machinery Corporation. (See Stilwell, Glenn E., assignor.)
Food Machinery Corporation. (See Wathen, Ben, assignor.)
Foote Company, The. (See Farrell, John D., assignor.)
Ford, Frederick L. (See Rouan, F. J., and Ford.)
Foster, Robert, and J. F. Shafer, assignors to Saf-T-Dot Marker Corporation, San Francisco, Calif. Traffic marker. 2,321,476; June 8.
Fox, Arthur L., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical compound and process. 2,321,022; June 8.
Fox Manufacturing Company. (See Holcomb, Sherwood E., assignor.)
France, James D., and E. G. Ritter, Montclair, N. J. Garage or other shelter. 2,321,477; June 8.
Freeman, Robert L., Flushing, and B. F. Tyson, Bayside, N. Y., assignors to Hazeltine Corporation. Ultra-high-frequency carrier-signal translating system. 2,321,478; June 8.
Freeman, Walter R., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Ratio changing brake actuating system. 2,321,479; June 8.
French, Henry C., Elm Grove, assignor to The Heil Co., Milwaukee, Wis. Hydraulic steering gear. 2,321,377; June 8.
Frey, Charles N. (See Kirby, G. W., Johnston, and Frey.)
Frey, Christopher J., Forest Hills, and S. Thomas, Astoria, Long Island, assignors to Brewster Aeronautical Corporation, Long Island City, N. Y. Forming sheet metal. 2,321,075; June 8.
Frick, William H. (See Meacham, B. E., and Frick.)
Fryer, Louis S., and W. J. Jokilehto, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Sealing means. 2,321,546; June 8.
Fuhrman, Robert C. (See Hemker, H. W., and Fuhrman.)
Fyr-Fyter Company, The. (See Wright, John W., assignor.)
Galvin Manufacturing Corporation. (See Becwar, Rudolph A., assignor.)
Gamache, Homer, assignor of one-half to J. V. Finaldi, Newark, N. J. Paring implement. 2,321,289; June 8.
Garrison, George H., Delphi, Ind. Game call. 2,321,193; June 8.
Gaskell, Joseph, Saint Helens, assignor to Pilkington Brothers Limited, London, England. Tank for molten glass. 2,321,480; June 8.
Geer, Paul L. (See Perrin, J. C., and Geer.)
General Aniline & Film Corporation. (See Bauer, Rudolf, assignor.)
General Aniline & Film Corporation. (See Brodersen, R., and Wilmanns, assignors.)

General Aniline & Film Corporation. (See Korten, Ernst, assignor.)
General Chemical Company. (See Levermore, Charles L., assignor.)
General Electric Company. (See Bourne, H. K., and Capp, assignors.)
General Electric Company. (See D'Alelio, Gaetano F., assignor.)
General Electric Company. (See Elmendorf, Duryea E., assignor.)
General Electric Company. (See Engel, Phillip M., assignor.)
General Electric Company. (See Holmes, L. L., Jr., and Livingston, assignors.)
General Electric Company. (See Rohats, Nicholas, assignor.)
General Electric Company. (See Trekell, Harold E., assignor.)
General Electric Company. (See Woodrow, Charles A., assignor.)
General Electric Company. (See Young, William R., assignor.)
General Motors Corporation. (See Broedling, William E., assignor.)
General Motors Corporation. (See Gerard, Frank W., assignor.)
General Motors Corporation. (See McCormack, Alex A., assignor.)
General Motors Corporation. (See Saxe, Frederick, assignor.)
General Motors Corporation. (See Valusek, Ladd J., assignor.)
Geophysical Research Corporation. (See Weatherby, B. B., and Born, assignors.)
Gerard, Frank W., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,321,137; June 8.
Geser, Josefine R., Zurich, Switzerland. Ribbon spreading device for carbon copy making attachments for typewriters. 2,321,194; June 8.
Gilpin, Garth G., Riverside, Ill. Floor protection for railway cars. 2,321,547; June 8.
Giraitis, Albert P., Maplewood, N. J., assignor to Standard Oil Development Company. Treating white oils. 2,321,290; June 8.
Goat Metal Stampings, Inc. (See Staver, Edward F., assignor.)
Goldfinger, Paul, Brussels-Uccle, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated. Color photographic material and using the same. 2,321,195; June 8.
Goodhue, Lyle D., Berwyn, Md., and William N. Sullivan, Washington, D. C., assignors to Claude R. Wickard, as Secretary of Agriculture of United States of America, and his successors in office. Applying parasiticides. 2,321,023; June 8.
Goodrich, B. G., Company, The. (See Sternad, F. S., and Sapp, assignors.)
Gora, John J., River Rouge, and E. J. Wyrick, Wyandotte, assignors to All Metal Products Company, Detroit, Mich. Pump type dart gun. 2,321,076; June 8.
Gora, John J., River Rouge, and E. J. Wyrick, assignors to All Metal Products Company, Wyandotte, Mich. Piston type dart gun. 2,321,077; June 8.
Government of The United States, as represented by the Secretary of Commerce. (See Morey, Francis C., assignor.)
Graber, John N., Madison, Wis. Drapery crane. 2,321,196; June 8.
Granqvist, Carl-Erik. (See Alexandersson, H. V., and Granqvist.)
Grau, Carl L., Ottawa, assignor to A. B. T. Manufacturing Corp., Chicago, Ill. Coin controlled clutch. 2,321,136; June 8.
Graves, Edwin H., Piedmont, Calif., assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa. Transport. 2,321,198; June 8.
Grebe, John J., and L. C. Chamberlain, assignors to The Dow Chemical Company, Midland, Mich. Treatment of fluid pervious formations. 2,321,138; June 8.
Green, Emmet M., Los Angeles, Calif. Combination screw and rivet. 2,321,378; June 8.
Green, Emmet M., Los Angeles, Calif. Combined screw and rivet. 2,321,379; June 8.
Green, William. (See Carr, W. F., Woolhouse, and Green.)
Greenbowe, James W. (See Madden, H. D., and Greenbowe.)
Greene, Albert D., Alpha, assignor of one-half to E. P. Larsh, Vandalia, Ohio. Flexible storm window. 2,321,078; June 8.
Greenwald, Harold A., Los Angeles, Calif. Hydraulic door operator. 2,321,079; June 8.
Greminger, George K., Jr. (See Bacon, K. D., and Greminger.)
Greulich, Gerald G., Mount Lebanon, Pa. Airplane runway. 2,321,197; June 8.
Gruger, Edward H., Seattle, Wash. Collapsible paper container. 2,321,139; June 8.
Grundmann, Gustave L., Westmont, N. J., assignor to Radio Corporation of America. Band pass amplifier. 2,321,291; June 8.
Grunig, Bernhard C., assignor to A. B. T. Manufacturing Corp., Chicago, Ill. Coin release. 2,321,199; June 8.
Grupe, William F., Lyndhurst, N. J., assignor to Interchemical Corporation, New York, N. Y. Method and apparatus for printing. 2,321,140; June 8.
Haber, Harry, New York, N. Y. Light trap for projectors. 2,321,080; June 8.
Hacklander, Hans, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Safety device. 2,321,380; June 8.
Hadley, Wilfred N., assignor to Parks and Woolson Machine Company, Springfield, Vt. Cloth shearing machine. 2,321,481; June 8.
Hadley, Wilfred N., assignor to Parks and Woolson Machine Company, Springfield, Vt. Cloth shearing machine. 2,321,482; June 8.
Haedike, Edward J., assignor to National Machine Works, Chicago, Ill. Proportional mixer. 2,321,483; June 8.
Hahn, Herbert L., Doylestown, Ohio. Apparatus for loading containers. 2,321,200; June 8.
Hall, William P. G. (See Johnson, C. R., and Hall.)
Hammond, John H., Jr., Gloucester, Mass. Propeller control system. 2,321,024; June 8.
Hammond, John H., Jr., Gloucester, Mass. Propeller control mechanism. 2,321,025; June 8.
Hammond, John H., Jr., Gloucester, Mass. Propeller control mechanism. 2,321,026; June 8.
Hammond, John H., Jr., Gloucester, Mass. Propeller control system. 2,321,381; June 8.
Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)
Hanley, Frank H., Butler, N. J., assignor to American Telephone and Telegraph Company. Teletypewriter switching system. 2,321,382; June 8.
Hanneman, Walter M., Oak Park, assignor to Illinois Tool Works, Chicago, Ill. Washer feeding means. 2,321,548; June 8.
Hanrahan, Wilfred C., Iowa City, Iowa. Shaft grinder. 2,321,081; June 8.
Hanson, Alden W., assignor to The Dow Chemical Company, Midland, Mich. Vinylidene chloride-graphite composition. 2,321,292; June 8.
Hanson-Van Winkle-Munning Company. (See Diggin, Myron B., assignor.)
Harper, Worthy C., Caldwell, Ohio, assignor to American Optical Company, Southbridge, Mass. Contour forming apparatus. 2,321,383; June 8.
Harrington, George G., T. H. Stancliff, and C. H. Black, assignors to Reed Roller Bit Company, Houston, Tex. Drill bit. 2,321,484; June 8.
Harshberger, Norman P., Scarsdale, assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y. Feeding and distributing mechanism. 2,321,082; June 8.
Hart, Darrel C. (See McIntire, Rogers W., assignor.)
Hartford-Empire Company. (See Mongan, Charles E., Jr., assignor.)
Hartford National Bank and Trust Company, trustee. (See Verwey, E. J. W., van der Willigen, and Hoekstra, assignors.)
Harvey, Norman J., Lincoln, Nebr. Condensed milk can opener and holder. 2,321,485; June 8.
Hassler, Gerald L., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Apparatus for measuring pressures in containers. 2,321,293; June 8.
Hathaway, Charles E., New York, N. Y., deceased; D. B. Hathaway, administratrix. Valve gear. 2,321,061; June 8.
Hathaway, Desdemona B., administratrix. (See Hathaway, Charles E.)
Hazeltine Corporation. (See Freeman, R. L., and Tyson, assignors.)
Heil Co., The. (See French, Henry C., assignor.)
Heilman, Ross V., Detroit, assignor to Wall Wire Products Company, Plymouth, Mich. Welded nut and plate assembly and making the same. 2,321,201; June 8.
Heine, Ferdinand H., assignor to Koehring Company, Milwaukee, Wis. Traction crawler shoe. 2,321,202; June 8.
Hemker, Herman W., Cleveland, and R. C. Fuhrman, Mentor, assignors to A. L. Parker, Cleveland, Ohio. Compound for sealing and lubricating relatively moving parts. 2,321,384; June 8.
Hemminger, Charles E., Westfield, and C. W. Tyson, Summit, N. J., assignors to Standard Oil Development Company. Control of temperatures in regeneration of catalysts. 2,321,294; June 8.
Hennessy, John F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Handle construction for ranges. 2,321,141; June 8.
Henry, Robert W., Bartlesville, Okla., and S. C. Britton, Joliet, Ill., assignors to Phillips Petroleum Company. Stabilizer for metal dispersions in lubricants. 2,321,203; June 8.
Henry & Wright Manufacturing Co., The. (See Sherman, C. F., and Caserta, assignors.)
Hensel, Walter. (See Ayers, A. L., and Hensel.)
Hercules Powder Company. (See Camp, Albert T., assignor.)
Herold, Walter F., Easton, Conn., assignor to The Sikes Company, Buffalo, N. Y. Tilting chair. 2,321,385; June 8.
Highway Trailer Company. (See Allen, Edwin H., assignor.)

Higgins, Joseph E., Grand Island, Nebr., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,321,083; June 8.
Hillenbrand, William A., assignor to Hill-Rom Company, Inc., Batesville, Ind. Table post construction. 2,321,204; June 8.
Hill-Rom Company. (See Hillenbrand, William A., assignor.)
Hill-Shaw Company. (See Morse, Norman W., assignor.)
Hobar Sales Co. (See King, Alice C., assignor.)
Hodgson, Howard E., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electromagnetic brake. 2,321,205; June 8.
Hoekstra, Johannes. (See Verwey, E. J. W., van der Willigen, and Hoekstra.)
Holcomb, Sherwood E., assignor to Fox Manufacturing Company, Rome, Ga. Combination sofa and bed. 2,321,206; June 2.
Holmes, Ernest, Company. (See Holmes, Ernest W., assignor.)
Holmes, Ernest W., assignor to Ernest Holmes Company, Chattanooga, Tenn. Sheave mounting for hoisting booms. 2,321,549; June 8.
Holmes, Lowell L., Jr., and O. W. Livingston, Scotia, N. Y., assignors to General Electric Company. Position indicating device. 2,321,386; June 8.
Holt, Darry G., Salem, Ohio, assignor to Tennessee Coal, Iron and Railroad Company. Adjustable base. 2,321,486; June 8.
Holwick, Earl E., Laguna Beach, Calif. Cellular carton having self-rotating cross partitions. 2,321,209; June 8.
Homer Laughlin China Company, The. (See Emerson, Walter H., assignor.)
Hommel, Andrew. (See De Whitt, W. J., Hommel, and Schoenwald.)
Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Spring plate. 2,321,487; June 8.
Horncastle, Thomas E., Flushing, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Magazine for automatic guns. 2,321,142; June 8.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Fan. 2,321,143; June 8.
Howald, Arthur M., Toledo, Ohio, assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company. Organic solution of formaldehyde-urea reaction product. 2,321,208; June 8.
Howe, Andrew F., University City, assignor to B. H. & M. Company, St. Louis, Mo. Screen for centrifugal machines. 2,321,207; June 8.
Howell, Lynn G., Houston, Tex., assignor to Standard Oil Development Company. Apparatus for logging boreholes. 2,321,295; June 8.
Howland, Louis H., Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y. Manufacture of mercapto-thiazolines. 2,321,296; June 8.
Howsam, Hilyard, Chicago, and G. G. Tucker, Jr., Berwyn, assignors to Hubbard Spool Company, Chicago, Ill. Spool. 2,321,084; June 8.
Hubbard, Henry H., Grosse Pointe Farms, assignor to Electromaster, Inc., Detroit, Mich. Producing drawn cups with faced and beveled edges. 2,321,085; June 8.
Hubbard Spool Company. (See Howsam, H. C., and Tucker, assignors.)
Huber, J. M., Corporation, The. (See Blackburn, Claude E., assignor.)
Hughes, Everett C. (See Burk, R. E., and Hughes.)
Hughes, Lester W., Newport, R. I. Black-out light shade and protector. 2,321,488; June 8.
Hutaff, George H., Jr., Wilmington, N. C. Bottle cap. 2,321,297; June 8.
Hutton, William, Monterey, Calif., assignor to Seapride Packing Corporation, Ltd. Apparatus for filleting fish. 2,321,086; June 8.
Illinois Tool Works. (See Hanneman, Walter M., assignor.)
Illinois Tool Works. (See Poupitch, Ouglјesa J., assignor.)
Illinois Tool Works. (See Rees, Clarence A., assignor.)
Imperial Chemical Industries Limited. (See Cusa, Noel W., assignor.)
Imperial Chemical Industries Limited. (See Rosson, Charles S., assignor.)
Induction Heating Corp. (See Dravneek, Paul E., assignor.)
Industrial Rayon Corporation. (See Fryer, L. S., and Jokilehto, assignors.)
Industrial Rayon Corporation. (See Bergmann, R. F., and Walters, assignors.)
Inland Container Corporation. (See Ferguson, Kenneth C., assignor.)
Interchemical Corporation. (See Grupe, William F., assignor.)
Interchemical Corporation. (See Weiss, Adolph, assignor.)
International Latex Corporation. (See Stamberger, Paul, assignor.)
Interstate Bakeries Corporation. (See Quick, Claude E., assignor.)
Isler, William. (See Schermer, Nathan H., assignor.)
Jack & Heintz, Inc. (See Carlson, Bert G., assignor.)
Jackson, Kermit J., Honolulu, Hawaii. Pineapple harvester. 2,321,387; June 8.
Jackson, Merlin M., San Jose, Calif. Washing machine. 2,321,210; June 8.
Jacobson, James H., Chicago, Ill. Reinforcing vertical faces of road slabs. 2,321,087; June 8.
Jamison, Charles A., Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Coal breaker. 2,321,027; June 8.
Jayne, David W., Jr. (See Christmann, L. J., Jayne and Erickson.)
Johnson, Albin V., Cedar Grove, assignor to Automotive Economy Corporation, Jersey City, N. J. Auxiliary fuel feeding device for internal combustion engines. 2,321,211; June 8.
Johnson, Charles R., Glen Mills, and W. P. G. Hall, Berwyn, Pa., assignors to Remington Arms Company, Inc. Ammunition manufacture. 2,321,298; June 8.
Johnson, Charlotte T., Chicago, Ill. Nonslip leather sole. 2,321,088; June 8.
Johnson, Clarence J., New Brunswick, N. J. Sheet material cutting machine. 2,321,299; June 8.
Johnson, Clifford E., Medway, Ohio. Coupling device. 2,321,028; June 8.
Johnson, Elmer E., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electric switch means. 2,321,212; June 8.
Johnson, George V., assignor to Willamette Hyster Company, Portland, Oreg. Industrial lift truck. 2,321,029; June 8.
Johnston, William R. (See Kirby, G. W., Johnston, and Frey.)
Jokilehto, Wayne J. (See Fryer, L. S., and Jokilehto.)
Jones, Burr W., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,321,388; June 8.
Jones, Leo D., assignor to The Sharples Corporation, Philadelphia, Pa. Centrifugal purification of liquids. 2,321,144; June 8.
Jones, Samuel F., London, Ontario, Canada. Carton. 2,231,145; June 8.
Jones, Walter O., assignor to The Wean Engineering Company, Inc., Warren, Ohio. Expanding and contracting mandrel for coil holders, reels, or the like. 2,321,146; June 8.
Jordan, David E. (See Roehr, Alexander H., assignor.)
Journal Company, The. (See McMullen, Joseph E., assignor.)
Julyan, Fred G., and W. M. Schweickart, Euclid, Ohio, assignors to Pocahontas Fuel Company, Incorporated, New York, N. Y. Ash disposal apparatus for stokers. 2,321,389; June 8.
Juzi, Viktor, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Flow-through tubular steam generator. 2,321,390; June 8.
Kamin, Clifford J., assignor to Reflector Hardware Corporation, Chicago, Ill. Clamp. 2,321,391; June 8.
Karr, Henry N., and R. W. Stewart, Bridgeport, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Rotary take-up for sewing machines. 2,321,550; June 8.
Kassay, Andrew W. (See Murray, J. A., and Kassay.)
Kaufman, Arthur W., San Francisco, Calif., assignor to American Telephone and Telegraph Company. Telegraph station break-in system. 2,321,392; June 8.
Kaufman, Charles H., San Antonio, Tex. Rake. 2,321,489; June 8.
Kawneer Company, The. (See Peterson, Victor E., assignor.)
Keagy, David R., Massillon, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Mechanical handling device. 2,321,300; June 8.
Keats, John L., and H. M. Stark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrolysis of titanium solutions. 2,321,490; June 8.
Keller, Charles L., Cincinnati, assignor to The Richardson Company, Lockland, Ohio. Automatic filling control means. 2,321,089; June 8.
Kelley, Elmer E., Hartford, Conn. Machine tool. 2,321,393; June 8.
Keltz, Max J., Springfield, assignor to Perkins Machine and Gear Company, West Springfield, Mass. Driving mechanism. 2,321,090; June 8.
Kennedy, John W., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Form retainer for shirts and mounting shirts thereon. 2,321,147; June 8.
Kermath Manufacturing Company. (See Schultz, A. B., and Bush, assignors.)
Kertesz, Elizabeth, and I. K. Lorant, New York, N. Y. Article of apparel. 2,321,091; June 8.
Keyes, William A. (See McFarlane, L. F., and Keyes.)
Keys, James R., and H. D. Oberdorfer, assignors to New Castle Products Inc., New Castle, Ind. Hangar door structure. 2,321,491; June 8.
Kilborn-Sauer Company, The. (See Sauer, Henry J., assignor.)
King, Alice C., East Orange, N. J., assignor to Hobar Sales Co., New York, N. Y. Bedclothes control. 2,321,394; June 8.
Kinney, Wallace E., Shelby, Nebr. Paintbrush wiper. 2,321,492; June 8.
Kirby, George W., Yonkers, W. R. Johnston, Bronx, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Coffee processing. 2,321,148; June 8.
Kirk, Royden C., Medford, assignor to Sandolator Corporation, Boston, Mass. Sanding device. 2,321,395; June 8.

Koch, Henry C., assignor to Abbott Coburn, Chicago, Ill. Method of and apparatus for manufacturing building covering sheet material. 2,321,396; June 8.
Koch, Henry C., assignor to Abbott Coburn, Chicago, Ill. Waterproofing apparatus. 2,321,397; June 8.
Koch, Stanley J., Clifton, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Coating of thermionic cathodes. 2,321,149; June 8.
Koehring Company. (See Heine, Ferdinand H., assignor.)
Kolman, Louis, Brookline, Pa. Ship torpedo protector. 2,321,213; June 8.
Kornemann, Henry C. (See Yendall, E. F., and Kornemann.)
Korten, Ernst, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Phenol-furfurylalcohol resinous condensation products. 2,321,493; June 8.
Krag, Harry W., Vinita Park, assignor to American Shoe Machinery and Tool Company, St. Louis, Mo. Drive mechanism. 2,321,494; June 8.
Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape serving mechanism. 2,321,398; June 8.
Landis & Gyr, A.-G. (See Pudelko, Richard, assignor.)
Lang, Charles W. (See Mills, J., and Lang.)
Langhorst, Howard C., Dayton, Ohio. Universal shaper. 2,321,030; June 8.
Langlois Bros. (See McKay, William R., assignor.)
Langlois, Harry F. (See McKay, William R., assignor.)
Langlois, Herbert N. (See McKay, William R., assignor.)
La Plant-Choate Mfg. Co. (See Graves, Edwin H., assignor.)
Larsh, Everett P. (See Greene, Albert D., assignor.)
Larson, Bert E., Park Ridge, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 2,321,399; June 8.
Lateur, Gaston L., San Francisco, Calif. Closure cap for collapsible tubes. 2,321,031; June 8.
Lee, Hartley B., Berkeley, Calif. Safety coupling for sucker rods. 2,321,215; June 8.
Lerner, Earl A., Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. High temperature apparatus. 2,321,217; June 8.
Lesko, Henrietta, Chicago, Ill. Curtain. 2,321,216; June 8.
Lester, Ray F. (See Olley, R. H., and Lester.)
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Presser foot mechanism. 2,321,032; June 8.
Levermore, Charles L., Rockville Centre, assignor to General Chemical Company, New York, N. Y. Production of sodium sulphate. 2,321,218; June 8.
Levin, Bernard, et al. (See Levin, Joseph, assignor.)
Levin, Harold, et al. (See Levin, Joseph, assignor.)
Levin, Joseph, Lancaster, Pa., assignor to T., H., and B. Levin, jointly, Baltimore, Md. Umbrella frame assembly. 2,321,495; June 8.
Levin, Theodore, et al. (See Levin, Joseph, assignor.)
Lewis, David E., San Fernando, Calif. Rodent trap. 2,321,219; June 8.
Lewis, George S., Evanston, Ill. Coaster brake. 2,321,150; June 8.
Lewis, James G., Siloam, Ga. Rectoblique plotter. 2,321,033; June 8.
Libbey-Owens-Ford Glass Company. (See Howald, Arthur M., assignor.)
Libbey-Owens-Ford Glass Company. (See Murray, J. A., and Kassay, assignors.)
Liberthson, Leo, New York, N. Y., assignor to L. Sonneborn Sons, Inc. Polyamino petroleum sulphonates and their dehydrates. 2,321,496; June 8.
Lichty, Joy G., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Composition of matter. 2,321,301; June 8.
Lieber, Eugene. (See Mikeska, Louis A., and Lieber.)
Lieber, Herman F., assignor to Newark Stove Company, Newark, Ohio. Liquid fuel stove. 2,321,034; June 8.
Lieberman, Samuel, Boston, Mass. Water filter. 2,321,220; June 8.
Lilly, Eli, and Company. (See Rockwell, George E., assignor.)
Linde Air Products Company, The. (See Yendall, E. F., and Kornemann, assignors.)
Linehan, Irvin D., Chicago, Ill. Joist anchoring bracket. 2,321,221; June 8.
Livingston, Orrin W. (See Holmes, L. L., Jr., and Livingston.)
Liwschitz, Michael, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric ship propulsion. 2,321,302; June 8.
Locomotive Firebox Company. (See Christenson, Gust J., assignor.)
Locomotive Firebox Company. (See Larson, Bert E., assignor.)
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic dehydrogenation and hydrogenation. 2,321,551; June 8.
Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, Dover, Del. Vacuum cleaner. 2,321,222; June 8.
Lomax, Frank B., Chicago, Ill. Egg treating apparatus. 2,321,092; June 8.
Lorant, Ilonka K. (See Kertesz, E., and Lorant.)
Loughlin, Alphonse, San Francisco, Calif. Saw handle. 2,321,223; June 8.
Lubarsky, George H., assignor, by mesne assignments, to Vitamol Company, New York, N. Y. Vitamin containing composition and making the same. 2,321,400; June 8.
Lubs, Herbert A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Latex coagulation. 2,321,552; June 8.
Luce, Richard W., Southport, Conn. Threaded locking device. 2,321,497; June 8.
Ludwig, Louis, Brooklyn, N. Y. Shade for fluorescent lamps. 2,321,035; June 8.
Lull, Le Grand H., Minneapolis, Minn. Highway shoulder grader. 2,321,401; June 8.
Lummus Company, The. (See Davis, Hyman R., assignor.)
Lupfer, James A., Tulsa, Okla. Pressure equalizer. 2,321,093; June 8.
Luten, Daniel B., Jr., and A. De Benedictis, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Purification of alkyl phenols. 2,321,036; June 8.
MacDowell, Louis G., Charleston, and R. W. McNamee, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Tetraacetals of glyoxal with glycol monoethers and process of making them. 2,321,094; June 8.
MacGregor, Charles L. (See Dodkin, D., and MacGregor.)
Madden, Harry D., South Orange, and J. W. Greenbowe, Newark, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Manufacture of electric tubes. 2,321,224; June 8.
Madlem, Leo S., San Francisco, Calif. Pump. 2,321,498; June 8.
Mantz, Harold A., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Thermoelectric safety shutoff device. 2,321,095; June 8.
Margulis, Morris J., Philadelphia, Pa., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Automatic vending machine. 2,321,402; June 8.
Marple, Kenneth E., and T. W. Evans, Oakland, assignors to Shell Development Company, San Francisco, Calif. Hydration of halogenated epoxides. 2,321,037; June 8.
Marschke, Reinhold B., St. Paul, Minn. Folding stair. 2,321,499; June 8.
Martin, Glenn L., Company, The. (See Pepersack, Francis J., assignor.)
Matthews, Howard W. (See Berger, E. J., and Matthews.)
Matthews, W. W., Corporation. (See Birkenmaier, T., and Mosley, assignors.)
McArdle, Edward H., Linden, N. J., assignor to Standard Oil Development Company. Coating composition. 2,321,303; June 8.
McCabe, Laurence B., Waverley Hills, Ky. Brick unit. 2,321,403; June 8.
McCann, John J., Lowell, assignor of 49% to Lawrie L. Witter, Boston, Mass. Strand spinning and twisting mechanism. 2,321,404; June 8.
McCollum, Elton V. (See Athy, L. F., and McCollum.)
McCormack, Alex A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,321,151; June 8.
McFalls, Irving H., Mount Vernon, assignor to Frank Bloise, New York, N. Y. Robot bowling device. 2,321,553; June 8.
McFarlane, Leroy F., Arlington, Va., and W. A. Keyes, Memphis, Tenn., assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn. Letter stop. 2,321,405; June 8.
McGraw Electric Company. (See Olving, Bror G., assignor.)
McIntire, Rogers W., Honolulu, Hawaii, assignor of one-half to D. C. Hart, Porterville, Calif. Riveting tool. 2,321,225; June 8.
McKay, William R., Southgate, Calif., assignor of one-half to H. F. and H. N. Longlois. Automatic variable speed transmission mechanism. 2,321,226; June 8.
McLott, William C., Grand Rapids, Mich. Alloy. 2,321,227; June 8.
McMullen, Joseph E., assignor to The Journal Company, Milwaukee, Wis. Gauge and setting the plate mounting mechanisms of printing press cylinders. 2,321,228; June 8.
McNamee, Raymond W. (See MacDowell, L. G., and McNamee.)
McNeil Machine & Engineering Company, The. (See Soderquist, Leslie E., assignor.)
McNeil, William M., Wheaton, assignor to United States Gypsum Company, Chicago, Ill. Wall construction. 2,321,304; June 8.
Meacham, Benjamin E., and W. H. Frick, Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo. Cooking appliance. 2,321,500; June 8.
Mengle, Glenn A., assignor to Brockway Glass Company, Inc., Brockway, Pa. Process and apparatus for sanitizing glassware. 2,321,152; June 8.
Merchant, Donald R., assignor to St. Paul Hydraulic Hoist Company, Minneapolis, Minn. Dump truck hoist mechanism. 2,321,406; June 8.

Merta, George M., Los Angeles, Calif. Cup-making machine. 2,321,407; June 8.
Merwin, Harry H., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,321,096; June 8.
Messer, William E., Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y. Accelerator of vulcanization. 2,321,305; June 8.
Messer, William E., Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y. Accelerator of vulcanization. 2,321,306; June 8.
Mikeska, Louis A., Westfield, and E. Lieber, Linden, N. J., assignors to Standard Oil Development Company. Lubricating oil, insulating and similar oil. 2,321,307; June 8.
Miller, Albert E. (See Chenault, W. B., and Miller.)
Miller, Charles F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Printing viscose process rayon with acid and direct colors. 2,321,501; June 8.
Miller Company, The. (See Naysmith, Shirley R., assignor.)
Miller, Ernest F., Lansdowne, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Weld backing construction. 2,321,308; June 8.
Miller, Jay W., La Junta, Colo. Automatic ledger sheet selector. 2,321,229; June 8.
Miller, Mike A., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Welding flux. 2,321,309; June 8.
Miller, Pharis. (See Mottlau, A. Y., and Miller.)
Mills, Arnold, and H. A. Rodgers, Lonely Mine, Southern Rhodesia, Union of South Africa. Rotary vacuum filter. 2,321,230; June 8.
Mills, Edward C., Camborne, England. Air or gas compressor. 2,321,097; June 8.
Mills, Harrison, Inc. (See Weinberg, Max, assignor.)
Mills, John, and C. W. Lang, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Sheet-metal container. 2,321,408; June 8.
Milnor, Leland T., Indian Hill, assignor to The Cincinnati Fly Screen Company, Cincinnati, Ohio. Supplementary sash and frame for window openings. 2,321,554; June 8.
Milwaukee Gas Specialty Company. (See Alfery, Henry F., assignor.)
Milwaukee Gas Specialty Company. (See Mantz, Harold A., assignor.)
Missmer, Alice, Bethlehem, Pa., assignor to Electrolux Corporation, Dover, Del. Cleaning tool. 2,321,231; June 8.
Moeller, Max. (See Bahlke, A. F., Moeller, and Sheppard.)
Mongan, Charles E., Jr., assignor to Hartford-Empire Company, Hartford, Conn. Internal nozzle for tempering bottles and other glass containers. 2,321,555; June 8.
Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)
Moore, Charles A., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Washing machine transmission. 2,321,502; June 8.
Moore, Raymond G., Grosse Pointe Farms, assignor to National Stamping Company, Detroit, Mich. Door check. 2,321,409; June 8.
Moore, Thomas V., Houston, Tex., assignor to Standard Oil Development Company. Smelting iron ore. 2,321,310; June 8.
Moran, Fred C., assignor to Peabody-Acker, Inc., Los Angeles, Calif. Bench vise. 2,321,503; June 8.
Morando, Emanuel R., New York, N. Y. Handy parcel carrier for baby carriages and the like. 2,321,232; June 8.
Morey, Francis C., Kensington, Md., assignor to Government of the United States, as represented by the Secretary of Commerce. Gas measuring instrument. 2,321,038; June 8.
Mork, George W., South Milwaukee, and L. P. Baranowski, Cudahy, assignors to Bucyrus-Erie Company, South Milwaukee, Wis. Scraper. 2,321,410; June 8.
Morrison, Thomas P. (See Scouten, Jess E., assignor.)
Morse Andrews Co. (See Morse, William J., assignor.)
Morse, John F., Hudson, Ohio. Boat control system. 2,321,098; June 8.
Morse, Normand W., assignor to Hill-Shaw Company, Chicago, Ill. Coffee brewer. 2,321,411; June 8.
Morse, William J., Attleboro, Mass., assignor to Morse Andrews Co. Key ring. 2,321,504; June 8.
Mosley, Carl E. (See Birkenmaier, T., and Mosley.)
Motor Wheel Corporation. (See Horn, Harry J., assignor.)
Mottlau, August Y., Clark Township, and P. Miller, Elizabeth, N. J., assignors to Standard Oil Development Company. Motor fuel. 2,321,311; June 8.
Mueller Co. (See Mueller, Frank H., assignor.)
Mueller, Frank H., assignor to Mueller Co., Decatur, Ill. Valve structure. 2,321,233; June 8.
Murad, Wadia H., Watford, England. Control system for capstan lathes and like machine tools. 2,321,312; June 8.
Murray John A., and A. W. Kassay, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company. Organic solution of formaldehyde-urea reaction products. 2,321,234; June 8.
National Machine Works. (See Haedike, Edward J., assignor.)
National Ring Corporation. (See Wadsworth, George F. assignor.)
National Rubber Machinery Company. (See De Ghetto, Anselm, assignor.)
National Screw & Manufacturing Company, The. (See Erdman, Harvey C., assignor.)
National Stamping Company. (See Moore, Raymond G., assignor.)
National Tinsel Manufacturing Company. (See Protz, William C., assignor.)
Naysmith, Shirley R., assignor to The Miller Company, Meriden, Conn. Lighting equipment. 2,321,099; June 8.
Neiswinter, James T., South Orange, N. J., assignor to American Telephone and Telegraph Company. Dial controlled signaling system. 2,321,412; June 8.
Nelson, Buell C., Portland, Oreg. Protective armor. 2,321,039; June 8.
Newark Stove Company. (See Lieber, Herman F., assignor.)
New Castle Products Inc. (See Keys, J. R., and Oberdorfer, assignors.)
New Castle Products, Inc. (See Oberdorfer, H. D., and Van Buskirk, assignors.)
Nordberg Manufacturing Company. (See Symons, Loren G., assignor.)
Nowosielski, Edward B., Bloomfield, assignor to Edison-Splitdorf Corporation, West Orange, N. J. Ignition generator. 2,321,505; June 8.
Nowosielski, Edward B., Bloomfield, assignor to Edison-Splitdorf Corporation, West Orange, N. J. Magneto construction. 2,321,506; June 8.
Oberdorfer, Henry D. (See Keys, J. R., and Oberdorfer.)
Oberdorfer, Henry D., and C. F. Van Buskirk, assignors to New Castle Products, Inc., New Castle, Ind. Foldable closure. 2,321,507; June 8.
Oderkirk, Fred E., Midland, Mich. Bottle carrier. 2,321,100; June 8.
Olley, Raymond H., and R. F. Lester, assignors to Crouse-Hinds Company, Syracuse, N. Y. Explosion-proof switch housing. 2,321,508; June 8.
Olson, Raymond E., Pittsford, assignor to Taylor Instrument Companies, Rochester, N. Y. Pasteurizing system. 2,321,235; June 8.
Olving, Bror G., assignor to McGraw Electric Company, Elgin, Ill. Electric sadiron. 2,321,509; June 8.
Openshaw, Gerald, Ashton-on-Mersey, England. Dowel pin employed in joining wooden members. 2,321,101; June 8.
Otis Elevator Company. (See Sanford, Selden B., assignor.)
Palmer, Raymond C., Chicago, Ill. Planer and shaper attachment for lathes. 2,321,413; June 8.
Paquette, Norman O., Ottawa, Ontario, Canada. Lamp. 2,321,510; June 8.
Parker, Arthur L. (See Henker, H. W., and Fuhrman, assignors.)
Parker, Arthur L., Cleveland, Ohio. Sealing and locking threads. 2,321,414; June 8.
Parkin, Victor, Los Angeles, Calif. Nursing bottle valve. 2,321,236; June 8.
Parks and Woolson Machine Company. (See Hadley, Wilfred N., assignor.)
Patents Research Corporation. (See Dubilier, William, assignor.)
Patzer, William, and W. A. Tratsch, Chicago, Ill. Coin tester. 2,321,153; June 8.
Paudler, Gilbert O. (See Robertson, Jack D., assignor.)
Peabody-Acker, Inc. (See Moran, Fred C., assignor.)
Peatrophone Corporation. (See Van Deventer, Harry R., assignor.)
Pelphrey, Harry, Detroit, Mich. Tooth relieving machine. 2,321,102; June 8.
Peltz, Howard F., Millburn, and G. H. Zieschang, Morristown, N. J., assignors to American Telephone and Telegraph Company. Conduit system. 2,321,415; June 8.
Pelzer, Harold H., Astoria, N. Y. Paper bottle and container. 2,321,313; June 8.
Pelzer, Harold H., Astoria, Long Island, N. Y. Paper bottle and container. 2,321,314; June 8.
Penley, Lester H., West Paris, Maine. Spring clip attachments for clothespins. 2,321,563; June 8.
Penney, Robert L., Brooklyn, N. Y. Rotary hair clipper. 2,321,416; June 8.
Pennsylvania Crusher Company. (See Jamison, Charles A., assignor.)
Pennsylvania Railroad Company, The. (See Sprankle, George D., assignor.)
Pennsylvania Railroad Company, The. (See Steins, Carleton K., assignor.)
Pepersack, Francis J., Towson, assignor to The Glenn L. Martin Company, Middle River, Md. Fitting construction for tanks. 2,321,417; June 8.
Perkins Machine and Gear Company. (See Keltz, Max J., assignor.)
Perrin, Jay C., Los Angeles, and P. L. Geer, Berkeley, assignors to Towlsaver, Inc., Los Angeles, Calif. Towel dispenser. 2,321,154; June 8.
Perry, Donald B., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Teletypewriter numbering system. 2,321,418; June 8.

Peterson, Harold O., and J. B. Atwood, Riverhead, N. Y., assignors to Radio Corporation of America. Frequency measuring system. 2,321,315; June 8.

Peterson, Norman R., and J. L. Sherk, assignors to The Dow Chemical Company, Midland, Mich. Printing ink comprising cellulose derivatives. 2,321,316; June 8.

Peterson, Victor E., assignor to The Kawneer Company, Niles, Mich. Sash construction for store fronts. 2,321,237; June 8.

Phillips Petroleum Company. (See Henry, R. W., and Britton, assignors.)

Phillips Telescopic Taps Limited. (See Bradbury, Thomas, assignor.)

Piercy, William, Philadelphia, Pa. Paint applying device. 2,321,511; June 8.

Piersol, Robert J., Champaign, Ill. Smokeless briquette. 2,321,238; June 8.

Pilkington Brothers Limited. (See Gaskell, Joseph, assignor.)

Pitney-Bowes Postage Meter Co. (See McFarlane, L. F., and Keyes, assignors.)

Pitney-Bowes Postage Meter Company. (See Rouan, Francis J., assignor.)

Pitney-Bowes Postage Meter Company. (See Rouan, F. J., and Ford, assignors.)

Pittsburgh Equitable Meter Company. (See Bergman, Charles P., and Cornell, assignors.)

Plensler, Alexander W., assignor to Belmont Radio Corporation, Chicago, Ill. Transmission mechanism. 2,321,317; June 8.

Plevyak, Joseph B., Newton, N. J. Self-threading shuttle. 2,321,040; June 8.

Pocahontas Fuel Company Incorporated. (See Julyan, F. G., and Schweickart, assignors.)

Pond, Clarke P., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Spare tire and luggage compartment for vehicle bodies. 2,321,239; June 8.

Porter, George K., Philadelphia, assignor, by mesne assignments, to Fischer & Porter Company, Hatboro, Pa. Rotameter construction. 2,321,041; June 8.

Porter, Rotheus B., Jr., Malden, assignor to Bennett Incorporated, Cambridge, Mass. Method of dispersing thermoplastic hydrocarbons. 2,321,240; June 8.

Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Lock washer and making same. 2,321,153; June 8.

Powers, Frank T., Glen Cove, N. Y. X-ray cassette. 2,321,156; June 8.

Preis, Carl G., Forest Hills, assignor to American Can Company, New York, N. Y. Container. 2,321,042; June 8.

Prosperity Company, The. (See Yanchenko, Basil J., assignor.)

Protz, William C., assignor to National Tinsel Manufacturing Company, Manitowoc, Wis. Method and apparatus for forming reinforced tape. 2,321,512; June 8.

Pudelko, Richard, assignor to Landis & Gyr, A.-G., Zug, Switzerland. Electricity meter. 2,321,419; June 8.

Pullin, R. B., & Company Limited. (See Slinn, Walter H., assignor.)

Quick, Claude E., Glendale, Calif., assignor to Interstate Bakeries Corporation, Kansas City, Mo. Liquid apportioning device. 2,321,241; June 8.

Radio Corporation of America. (See Alburger, James R., assignor.)

Radio Corporation of America. (See Artzt, Maurice, assignor.)

Radio Corporation of America. (See Bokovoy, Samuel A., assignor.)

Radio Corporation of America. (See Brown, George H., assignor.)

Radio Corporation of America. (See Demuth, Galan W., assignor.)

Radio Corporation of America. (See Ehret, R. J., and Barnes, assignors.)

Radio Corporation of America. (See Finch, James L., assignor.)

Radio Corporation of America. (See Grundmann, Gustave L., assignor.)

Radio Corporation of America. (See Peterson, H. O., and Atwood, assignors.)

Radio Corporation of America. (See Tolson, William A., assignor.)

Radio Corporation of America. (See Wendt, Karl R., assignor.)

Radio Patents Corporation. (See Bell, David A., assignor.)

Radio Patents Corporation. (See Bell, D. A., and Davie, assignors.)

Ramsey, Melvin A., Buenos Aires, Argentina. Method and apparatus for conditioning air. 2,321,242; June 8.

Range, John M., Beeville, Tex. Shale shaker. 2,321,243; June 8.

Raskhodoff, Nicholas M., Hyattsville, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Antenna reel control. 2,321,556; June 8.

Rath, Karl, New York, N. Y. Exposure determining device. 2,321,420; June 8.

Rawling, Francis G., Piedmont, W. Va., assignor to West Virginia Pulp and Paper Company, New York, N. Y. Coating of paper. 2,321,244; June 8.

Reed, Harold V., assignor to Borg-Warner Corporation, Chicago, Ill. Friction clutch. 2,321,513; June 8.

Reed, John E., Bakersfield, Calif. Rat-hole swivel wrench. 2,321,245; June 8.

Reed, Joseph W., Fairmont, W. Va. Separating process and apparatus. 2,321,514; June 8.

Reed Roller Bit Company. (See Fermier, George F., assignor.)

Reed Roller Bit Company. (See Harrington, G. G., Stancliff, and Black, assignors.)

Rees, Clarence A., assignor to Illinois Tool Works, Chicago, Ill. Fastener device. 2,321,157; June 8.

Rees, Clarence A., assignor to Illinois Tool Works, Chicago, Ill. Connector. 2,321,158; June 8.

Reflector Hardware Corporation. (See Kamin, Clifford J., assignor.)

Reistle, Carl E., Jr., Houston, Tex., assignor to Standard Oil Development Company. Washdown device for inserting pipe into granular material. 2,321,318; June 8.

Remington Arms Company. (See Collins, Charles H., assignor.)

Remington Arms Company. (See Johnson, C. R., and Hall, assignors.)

Remington Arms Company, Inc. (See Reynolds, Warren S., assignor.)

Remington Arms Company. (See Sappenfield, Marion L., assignor.)

Remington Arms Company. (See Whipple, Ernest G., assignor.)

Rempel, Dietrich G., assignor to The Sun Rubber Company, Barberton, Ohio. Method and apparatus for making hollow rubber articles. 2,321,319; June 8.

Republic Aviation Corporation. (See Rudnick, Benjamin, assignor.)

Reynolds Metals Company. (See Eades, Harry H., assignor.)

Reynolds, Warren S., Stratford, Conn., assignor to Remington Arms Company, Inc. Gauging machine. 2,321,320; June 8.

Rice, Benjamin H., Los Angeles, Calif. Hole plugger for ships and the like. 2,321,515; June 8.

Richardson Company, The. (See Keller, Charles L., assignor.)

Rickenmann, Alfred, Zurich, Switzerland; vested in the Alien Property Custodian. Device for forming annular grooves. June 8.

Ritter, Elizabeth G. (See France, J. D., and Ritter.)

Ritter, Walter T. (See Coy, D. W., and Ritter.)

Robertson, Jack D., Ralls, assignor of one-half to G. O. Paudler, Crosbyton, Tex. Tractor drawbar. 2,321,516; June 8.

Robie, Norman P., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive product. 2,321,422; June 8.

Robinson, John A., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical circuit. 2,321,103; June 8.

Rock-Ola Manufacturing Corporation. (See Margulis, Morris J., assignor.)

Rockwell, George E., Cincinnati, Ohio, assignor to Eli Lilly and Company, Indianapolis, Ind. Pollen antigen and preparing it. 2,321,043; June 8.

Rocquin, Elsas L., New Orleans, La. Rake. 2,321,246; June 8.

Rodgers, Herbert A. (See Mills, A., and Rodgers.)

Roehr, Alexander H., near Dayton, assignor to D. E. Jordan, Dayton, Ohio. Lens grinding machine. 2,321,247; June 8.

Roemer, William C., assignor to Western Cartridge Company, New Haven, Conn. Trigger-mechanism for firearms. 2,321,044; June 8.

Roemer, William C., assignor to Western Cartridge Company, New Haven, Conn. Automatic bolt stop for repeating firearms. 2,321,045; June 8.

Rogers, Henry T., Athol, Mass. Fluid motor. 2,321,423; June 8.

Rohats, Nicholas, Scotia, N. Y., assignor to General Electric Company. Testing of electrical windings. 2,321,424; June 8.

Roper, Geo. D., Corporation. (See Hennessy, John F., assignor.)

Rose, Clarence W. (See Rose, Walter E. and C. W.)

Rose, Walter E. and C. W., Denver, Colo. Safety apparatus. 2,321,248; June 8.

Rosen, Raphael, Elizabeth, N. J., assignor to Standard Oil Development Company. Lubricant composition. 2,321,517; June 8.

Ross, John. (See Dreger, E. E., and Ross.)

Rossi, Irving. (See Rossmann, Peter F., assignor.)

Rossmann, Peter F., Buffalo, N. Y., assignor to Irving Rossi, West Orange, N. J. Fastening device. 2,321,518; June 8.

Rosson, Charles S., Norwich, England, assignor to Imperial Chemical Industries Limited. Cartridge shell crimper. 2,321,321; June 8.

Roto-Matic Screen Printer, Ltd. (See Fleisher, H., and Tillett, assignors.)

Rouan, Francis J., assignor to Pitney-Bowes Postage Meter Co., Stamford, Conn. Totalizer actuator. 2,321,425; June 8.

Rouan, Francis J., and F. L. Ford, assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn. Tape guide. 2,321,426; June 8.

Rubinoff, Mark, New York, N. Y. Drip catching plate for individual portions of ice cream. 2,321,519; June 8.

Ruckman, Albert J., assignor to Chautauqua Cabinet Company, Mayville Village, N. Y. Drawer guide. 2,321,520; June 8.

Rudnick, Benjamin, Huntington, assignor to Republic Aviation Corporation, Farmingdale, N. Y. Photomechanical negative. 2,321,046; June 8.

Rudnick, Benjamin, Huntington, assignor to Republic Aviation Corporation, Farmingdale, N. Y. Method of line reproduction. 2,321,249; June 8.

Ruge, Arthur C., Cambridge, Mass. Rheostat. 2,321,322; June 8.

Russell, Clyde D., Oakland, assignor to California Packing Corporation, San Francisco, Calif. Siruping valve. 2,321,104; June 8.

Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Sealing device. 2,321,250; June 8.

Ryan, Donald T., Beloit, Wis. Football goggles. 2,321,159; June 8.

Saf-T-Dot Marker Corporation. (See Foster, R., and Shafer, assignors.)

Salinger, Hans, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Frequency band filter. 2,321,521; June 8.

Salzberg, Paul L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Artificial leather. 2,321,047; June 8.

Sandolator Corporation. (See Kirk, Royden C., assignor.)

Sands, Ernest, Trenton, N. J. Magnesium cement article and making the same. 2,321,522; June 8.

Sanford, Selden B., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Elevator guide rail fastening device. 2,321,106; June 8.

Sapp, John P. (See Sternad, F. S., and Sapp.)

Sappenfield, Marion L., Kansas City, Mo., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Ammunition trimming apparatus. 2,321,323; June 8.

Saslaw, Otto, Kearny, N. J., assignor to Federal Telephone and Radio Corporation. Reclaiming selenium elements. 2,321,523; June 8.

Sauer, Henry J., assignor to The Kilborn-Sauer Company, Fairfield, Conn. Automotive accessory. 2,321,251; June 8.

Saxé, Frederick, Muskegon, assignor to General Motors Corporation, Detroit, Mich. Vacuum automatic cut-out. 2,321,105; June 8.

Sayre, Gordon B., Brooklyn, N. Y., assignor to Boonton Molding Company, Boonton, N. J. Mechanism for loading and emptying molding presses. 2,321,252; June 8.

Schafer, Frank, Green Bay, Wis. Ten pin. 2,321,524; June 8.

Schellentrager, Eugene W., Shaker Heights, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio. Transfer car. 2,321,253; June 8.

Schelling, Robert, Easton, Pa. Cooking equipment. 2,321,427; June 8.

Schermer, Nathan H., Detroit, Mich., assignor of one-fourth to W. Isler, Cleveland, Ohio. Mold die metal and making dies therefrom. 2,321,107; June 8.

Schildknecht, Calvin E., Bloomfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Opalescent synthetic resins. 2,321,048; June 8.

Schloz, Ferdinand G., Philadelphia, Pa. Nozzle. 2,321,428; June 8.

Schmid, Carl J., assignor to Julius Schmid, Inc., New York, N. Y. Open mouth wrapper for rolled tubular sanitary rubber goods. 2,321,254; June 8.

Schmid, Ernest, Annecy, France; vested in the Alien Property Custodian. Four-stroke cycle internal combustion engine of the sleeve valve type. 2,321,564; June 8.

Schmid, Julius, Inc. (See Schmid, Carl J., assignor.)

Schmidinger, Joseph, New York, N. Y. Thermal switch device. 2,321,049; June 8.

Schneider, George, Montclair, N. J., assignor to Celanese Corporation of America. Manufacture of textile materials. 2,321,108; June 8.

Schnitzer, George H., Cleveland, Ohio. Piston construction. 2,321,160; June 8.

Schoenwald, Alexander. (See De Whitt, W. J., Hommel, and Schoenwald.)

Schroeder, Charles S., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Electric hoist. 2,321,525; June 8.

Schultz, Arthur B., Berkley, and T. R. Bush, Royal Oak, assignors to Kermath Manufacturing Company, Detroit, Mich. Marine transmission. 2,321,255; June 8.

Schwab, Francis C., Mexico City, Mexico. Table. 2,321,324; June 8.

Schweickart, William M. (See Julyan, F. G., and Schweigart.)

Scouten, Jess E., Medford, assignor to T. P. Morrison, Blackwell, Okla. Retort charging machine. 2,321,526; June 8.

Scovill Manufacturing Company. (See Beebe, Murray C., assignor.)

Seamless Rubber Company, The. (See Crowley, Cornelius J., assignor.)

Seapride Packing Corporation, Ltd. (See Hutton, William, assignor.)

Seborg, Raymond M. (See Stamm, A. J., and Seborg.)

Sellers, Orlin N., Chicago, Ill. Immersion boiler. 2,321,109; June 8.

Servel, Inc. (See Ashby, Carl T., assignor.)

Servel, Inc. (See Shipman, Bennet C., assignor.)

Servel, Inc. (See Taylor, John A., assignor.)

Servel, Inc. (See Thomas, Albert R., assignor.)

Seymer, Richard H., Newark, N. J., assignor to American Can Company, New York, N. Y. Container. 2,321,050; June 8.

Shafer, John F. (See Foster, R., and Shafer.)

Sharples Corporation, The. (See Jones, Leo D., assignor.)

Shawver, William R. (See Britton, E. C., and Shawver.)

Shell Development Company. (See Engs, W., and Wik, assignors.)

Shell Development Company. (See Hassler, Gerald L., assignor.)

Shell Development Company. (See Luten, D. B., and De Benedictis, assignors.)

Shell Development Company. (See Marple, K. E., and Evans, assignors.)

Shelton, Florence L., Portland, Oreg. Rebreathing bag. 2,321,256; June 8.

Sheppard, Ronald W. (See Bahlke, A. F., Moeller, and Sheppard.)

Shera, John W., Shaker Heights, Ohio, assignor, by mesne assignments, to American Flange and Manufacturing Co., Inc., New York, N. Y. Metal spinning apparatus. 2,321,527; June 8.

Sherer, Archie A., Dayton, Ohio. Automobile accessory. 2,321,528; June 8.

Sherk, Joseph L. (See Peterson, N. R., and Sherk.)

Sherman, Cortis F., West Hartford, and A. E. Caserta, assignors to The Henry & Wright Manufacturing Company, Hartford, Conn. Dieing machine. 2,321,325; June 8.

Sherwin-Williams Company, The. (See Wilcock, Donald F., assignor.)

Shipman, Bennet C., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Heat exchanger. 2,321,110; June 8.

Shoe Form Co. Inc. (See De Witt, W. J., Hommel, and Schoenwald, assignors.)

Sickles, F. W., Company, The. (See Sickles, Royal F., assignor.)

Sickles, Royal F., Springfield, assignor to The F. W. Sickles Company, Chicopee, Mass. Electrical assembly. 2,321,161; June 8.

Sikes Company, The. (See Herold, Walter F., assignor.)

Sinclair Refining Company. (See Chenault, W. B., and Miller, assignors.)

Singer Manufacturing Company, The. (See Hacklander, Hans, assignor.)

Singer Manufacturing Company, The. (See Karr, H. N., and Stewart, assignors.)

Singer Manufacturing Company, The. (See Zonis, Sydney, assignor.)

Slinn, Walter H., London, assignor to R. B. Pullin & Company Limited, Brentford, Middlesex, England. Stamp counting machine. 2,321,529; June 8.

S. M. A. Corporation. (See Szabo, Lester J., assignor.)

Smith, Herman A. (See Stafford, S. B., and Smith.)

Smith, John E., Springfield, Pa., assignor to The Baldwin Locomotive Works. Kingpin arrangement. 2,321,429; June 8.

Smith, Norman, Bronx, N. Y. Pliers. 2,321,430; June 8.

Socony-Vacuum Oil Company, Inc. (See Atwood, Edwin H., assignor.)

Soderquist, Leslie E., assignor to The McNeil Machine & Engineering Company, Akron, Ohio. Vulcanising press and timing mechanism therefor. 2,321,326; June 8.

Sohm, Alfred L., Van Nuys, Calif. Ball finishing device. 2,321,162; June 8.

Somes, Howard E., Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Quenching nozzle. 2,321,431; June 8.

Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Quenching heated surfaces. 2,321,432; June 8.

Sommers, Henry P. R., Wellesley, Mass. Hair curler. 2,321,433; June 8.

Somneborn L., Sons, Inc. (See Liberthson, Leo, assignor.)

Spicer, Harold W., assignor of one-half to A. A. Whitford, Dunellen, N. J. Gasket. 2,321,257; June 8.

Sprankle, George D., Lower Merion Township, Montgomery County, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Locomotive cab supporting means. 2,321,327; June 8.

Stack, George T., Portland, Oreg. Folding table. 2,321,328; June 8.

Stafford, Stephen B., Oxford, and H. A. Smith, Holden, Mass., assignors to Rice Barton Corporation. Movable bearing supports for printing rolls. 2,321,329; June 8.

Stamberger, Paul, assignor to International Latex Corporation, Dover, Del. Forming foam rubber and products thereof. 2,321,111; June 8.

Stamm, Alfred J., and R. M. Seborg, Madison, Wis., assignors to Henry A. Wallace, as Secretary of Agriculture of the United States of America. Process for making an improved plywood. 2,321,258; June 8.

Stancliff, Thomas H. (See Harrington, G. G., Stancliff, and Black.)

Standard Brands, Inc. (See Kirby, G. W., Johnston, and Frey, assignors.)

Standard Oil Company, The. (See Burk, R. E., and Hughes, assignors.)
Standard Oil Company (See Condit, Daniel H., assignor.)
Standard Oil Development Company. (See Brown, Cecil L., assignor.)
Standard Oil Development Company. (See Giraitis, Albert P., assignor.)
Standard Oil Development Company. (See Hemminger, C. E., and Tyson, assignors.)
Standard Oil Development Company. (See Howell, Lynn G., assignor.)
Standard Oil Development Company. (See McArdle, Edward H., assignor.)
Standard Oil Development Company. (See Mikeska, L. A., and Lieber, assignors.)
Standard Oil Development Company. (See Moore, Thomas V., assignor.)
Standard Oil Development Company. (See Mottlau, A. Y., and Miller, assignors.)
Standard Oil Development Company. (See Reistle, Carl E., Jr., assignor.)
Standard Oil Development Company. (See Rosen, Raphael, assignor.)
Standard Railway Devices Company. (See Zeidler, Kurt E., assignor.)
Stark, Henry Moroni. (See Keats, J. L., and Stark.)
Staver, Edward F., Jackson Heights, N. Y., assignor to Goat Metal Stampings, Inc. One-piece shield for electron emission tubes. 2,321,259; June 8.
Stecher, Henry D., Lakewood, assignor to The Weatherhead Company, Cleveland, Ohio. Tube coupling. 2,321,260; June 8.
Steele, James W., North Kansas City, Mo. Accessories for ironing apparatus. 2,321,261; June 8.
Steins, Carleton K., Merion, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Locomotive cab bracing means. 2,321,330; June 8.
Stenzel, Emil, and J. J. Yindrock, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Support for flexible conduits on railway cars. 2,321,434; June 8.
Sternad, Frank S., Cuyahoga Falls, and J. P. Sapp, Kent, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for building tires. 2,321,163; June 8.
Stewart, Robert W. (See Karr, H. N., and Stewart.)
Stewart, Samuel E., Upper Darby, Pa. Fare registering and indicating device. 2,321,164; June 8.
Stilwell, Glenn E., Riverside, assignor to Food Machinery Corporation, San Jose, Calif. Nailing machine. 2,321,165; June 8.
Stinson, George F., Nuneaton, England. Screw-cutting lathe. 2,321,530; June 8.
St. Paul Hydraulic Hoist Company. (See Merchant, Donald R., assignor.)
Strain, Daniel E. (See Dittmar, H. R., and Strain.)
Streeter-Amet Company. (See Basquin, Olin H., assignor.)
Strobridge, William. (See Bowdoin, G. E., and Strobridge.)
Sullivan, William N. (See Goodhue, L. D., and Sullivan.)
Sulzer Frères Société Anonyme. (See Juzi, Viktor, assignor.)
Sun Rubber Company, The. (See Rempel, Dietrich G., assignor.)
Superior Paper Products Company. (See Bohnke, Herman C., assignor.)
Sussman, Sidney, Moorestown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of acetals. 2,321,557; June 8.
Swarts, Richey L., assignor of one-half to K. B. Cope, Canton, Ohio. Photographic print washer. 2,321,435; June 8.
Sweeney, Robert J., Los Angeles, Calif., assignor to Robert S. Burns. Container inspecting apparatus. 2,321,331; June 8.
Symons, Loren G., Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Bar grizzly. 2,321,166; June 8.
Szabo, Lester J., Cleveland, Ohio, assignor to S. M. A. Corporation, Chicago, Ill. N-(P-amino and acyl-P-aminoarylsulphonylamido)-pyridine-carboxylic acids and thermal decomposition product thereof. 2,321,332; June 8.
Taft, Harold W., assignor to Coleman Bottled Gas, Inc., Wichita, Kans. Cooking range. 2,321,167; June 8.
Tamarin, Bernard J., Philadelphia, Pa. Cigarette package. 2,321,112; June 8.
Taylor Instrument Companies. (See Brown, Brainard H., assignor.)
Taylor Instrument Companies. (See Olson, Raymond E., assignor.)
Taylor Instrument Companies. (See Widmer, Jules A., assignor.)
Taylor Instrument Companies. (See Worner, George R., assignor.)
Taylor, John A., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,321,113; June 8.
Taylor, William H., Waukesha, Wis. Space heat transfer apparatus. 2,321,262; June 8.
Tefft, Ralph F., Rochelle Park, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Treatment of rubber goods. 2,321,114; June 8.
Tennessee Coal, Iron and Railroad Company. (See Holt, Darry G., assignor.)
Terry, William C., Cambridge, assignor to Harriet E. Cole, Taunton, Mass. Closure device. 2,321,333; June 8.
Theodos, Vangel, San Francisco, Calif. Railroad crossing and switch construction. 2,321,436; June 8.
Thexton, Arthur L., Fort Thomas, Ky., assignor to Clopay Corporation, Cincinnati, Ohio. Curtain rod assembly. 2,321,334; June 8.
Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Air conditioning. 2,321,115; June 8.
Thomas, Stephen. (See Frey, C. J., and Thomas.)
Thompson Grinder Co., The. (See Wilson, John C., assignor.)
Thompson, Norman A., London, England. Propelling apparatus for watercraft. 2,321,531; June 8.
Thurlow, Thomas L., and S. M. Burka, Dayton, Ohio. Stabilized horizon. 2,321,051; June 8.
Thurston, Jack T., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Branched chain guanamines and producing same. 2,321,052; June 8.
Tillett, George H. (See Fleischer, H., and Tillett.)
Tognetti, Aldo, Monterey County, Calif. Vehicle loading and unloading device. 2,321,168; June 8.
Toledo Scale Company. (See Williams, Lawrence S., assignor.)
Tolson, William A., Westmont, N. J., assignor to Radio Corporation of America. Electrical apparatus. 2,321,335; June 8.
Tondreau, Albert W., Hollywood, Calif. Valve. 2,321,336; June 8.
Tostevin, Walter C., Mandan, N. Dak. Apparatus for turning head lamps. 2,321,337; June 8.
Towlsaver, Inc. (See Perrin, J. C., and Geer, assignors.)
Tratsch, Walter A. (See Patzer, W., and Tratsch.)
Treadwell, Frank A., Siloam Springs, Ark. Shock cord handling tool. 2,321,263; June 8.
Trekell, Harold E., Wakefield, Mass., assignor to General Electric Company. Lag plate. 2,321,437; June 8.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Ring binder. 2,321,558; June 8.
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Ring binder. 2,321,559; June 8.
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Ring binder. 2,321,560; June 8.
Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
Tucker, George G., Jr. (See Howsam, H. C., and Tucker.)
Tullis, Boyd W., assignor to The Coleman Lamp and Stove Company, Wichita, Kans. Burner assembly for ranges. 2,321,169; June 8.
Turner, Harold H., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Fluid-pressure operated mechanism. 2,321,264; June 8.
Tyler, John D., Nashville, Tenn. Variable speed pulley. 2,321,438; June 8.
Tyson, Benjamin F. (See Freeman, R. L., and Tyson.)
Tyson, Charles W. (See Hemminger, C. E., and Tyson.)
Udylite Corporation, The. (See Brown, Henry, assignor.)
Ulanet, Herman, Newark, N. J. Adjustable thermostat. 2,321,338; June 8.
Ulvick, George, Minneapolis, assignor of forty-nine per cent to H. L. Fischer, St. Paul, Minn. Toothbrush. 2,321,265; June 8.
United Biscuit Company of America. (See Coy, D. W., and Ritter, assignors.)
United Gas Improvement Company, The. (See Ward, Alger L., assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
United States Gypsum Company. (See McNeil, William M., assignor.)
United States Hoffman Machinery Corporation. (See Bowdoin, G. E., and Strobridge, assignor.)
United States Rubber Company. (See Howland, Louis H., assignor.
United States Rubber Company. (See Messer, William E., assignor.)
Utility Electric Corp. (See Bahlke, A. F., Moeller, and Sheppard, assignors.)
Valusek, Ladd J., assignor to General Motors Corporation, Detroit, Mich. Material handling device. 2,321,266; June 8.
Van Buskirk, Carroll F. (See Oberdorfer, H. D., and Van Buskirk.)
Van Der Werff, Jacob B., Pasadena, Calif., assignor to Adel Precision Products Corp. Hydraulic actuator for hydraulic control valves. 2,321,267; June 8.
Van der Willigen, Paul C. (See Verwey, E. J. W., van der Willigen, and Hoekstra.)
Van Deventer, Harry R., assignor to Pentrophone Corporation, New York, N. Y. Telephone system employing phonographs. 2,321,053; June 8.
Vapor Car Heating Company. (See Stenzel E., and Yindrock, assignors.)

Verwey, Evert J. W., P. C. van der Willigen and J. Hoekstra, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Making vitreous coated bodies. 2,321,439; June 8.
Vinco Corporation. (See Bennett, Racy D., assignor.)
Vitamol Company. (See Lubarsky, George H., assignor.)
Voorheis, Joseph T., Oakland, Calif. Atomizing nozzle. 2,321,532; June 8.
Vostrez, Victor, Tobias, Nebr. Piston. 2,321,054; June 8.
Wadsworth, George F., Marion, Ohio, assignor to National Ring Corporation, Detroit, Mich. Locking ring display device. 2,321,339; June 8.
Wagner Electric Corporation. (See Freeman, Walter R., assignor.)
Wagoner, Sophronius P., Hutchinson, Kans. Drill chuck. 2,321,533; June 8.
Wall Wire Products Company. (See Heilman, Ross V., assignor.)
Wallace, John F., University Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Multiple-part assembly bolt. 2,321,170; June 8.
Walters, Clarence C. (See Bergmann, R. F., and Walters.)
Ward, Alger L., Drexel Hill, Pa., assignor to The United Gas Improvement Company. Composition of matter and making the same. 2,321,440; June 8.
Warp, Harold, Chicago, Ill. Window shade machine. 2,321,055; June 8.
Warren, Otey Y., Roslyn Estates, N. Y. Carrier carton. 2,321,534; June 8.
Waterbury, Carl C., Chicago, Ill. Rubber article and making same. 2,321,340; June 8.
Wathen, Ben, assignor to Food Machinery Corporation, San Jose, Calif. Shaker conveyer. 2,320,988; June 8.
Waugh Equipment Company. (See Berman, Samuel, assignor.)
Wayne, Truman B., Houston, Tex. Process and reagent for resolving emulsions. 2,321,056; June 8.
Wean Engineering Company. (See Jones, Walter D., assignor.)
Weatherby, Benjamin B., Tulsa, Okla., and W. T. Born, Bloomfield, N. J., assignors to Geophysical Research Corporation, New York, N. Y. Seismic surveying. 2,321,341; June 8.
Weatherhead Company, The. (See Stecher, Henry D., assignor.)
Webber, George D., Cleveland, Ohio. Machine for surfacing metal. 2,321,441; June 8.
Weinberg, Max, Brooklyn, N. Y., assignor to Harrison Mills, Inc., East Newark, N. J. Knitting machine. 2,320,989; June 8.
Weiss, Adolf, Brooklyn, assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y. Printing. 2,321,057; June 8.
Weiss, Adolph, Brooklyn, assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y. Printing machinery. 2,321,342; June 8.
Weiss, Dewey S., Portland, Oreg. Coupling eye. 2,321,535; June 8.
Welch, Edward, Valley Falls, R. I. Raincoat. 2,321,116; June 8.
Wells, Earle W., Philadelphia, Pa., assignor to Container Corporation of America, Chicago, Ill. Container. 2,321,536; June 8.
Wendt, Karl R., Audubon, N. J., assignor to Radio Corporation of America. Television system. 2,321,343; June 8.
Western Cartridge Company. (See Roemer, William C., assignor.)
Western Electric Company. (See Merwin, Harry H., assignor.)
Western Electric Company, Incorporated. (See Robinson, John A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Liwschitz, Michael, assignor.)
Westinghouse Electric & Manufacturing Company. (See Madden, H. D., and Greenbowe, assignors.)
Westinghouse Electric & Manufacturing Company. (See Miller, Ernest F., assignor.)
West Virginia Pulp and Paper Company. (See Rawling, Francis G., assignor.)
Whipple, Ernest G., Stratford, Conn., assignor to Remington Arms Company, Inc. Projectile. 2,321,344; June 8.
Whipple, Ernest G., Stratford, Conn., assignor to Remington Arms Company, Inc. Projectile. 2,321,345; June 8.
White, Albert R., Glendale, Calif. Oil refiner pack. 2,320,990; June 8.
White, Charles, Alameda, Calif. Load guide and protector. 2,320,991; June 8.
Whitford, A. A. (See Spicer, Harold W., assignor.)
Widmer, Jules A., assignor to Taylor Instrument Companies, Rochester, N. Y. Instrument case and the like. 2,320,992; June 8.
Wiggins, John H., Chicago, Ill. Floating roof for liquid storage tanks. 2,321,058; June 8.
Wik, Simon N. (See Engs, W., and Wik.)
Wilcock, Donald F., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Purification of naphthalene. 2,321,117; June 8.
Willamette Hyster Company. (See Johnson, George V., assignor.)
Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,321,346; June 8.
Wilmanns, Gustav. (See Brodersen, R., and Wilmanns.)
Williams, Sylvester J., Ritzville, assignor to Claud C. Calkins, Spokane, Wash. Weeder. 2,321,537; June 8.
Wilson, John C., assignor to The Thompson Grinder Co., Springfield, Ohio. Collapsible antifriction nut. 2,321,442; June 8.
Windfeldt, Christian J., Stamford, Conn. Test indicator. 2,321,443; June 8.
Wingfoot Corporation. (See Lichty, Joy G., assignor.)
Witter, Lawrie L. (See McCann, John J., assignor.)
Wood, A. A., & Sons Company, The. (See Bernhardt, Ernest W., assignor.)
Woodrow, Charles A., Schenectady, N. Y., assignor to General Electric Company. Electric power system. 2,321,444; June 8.
Woolhouse, Thomas G. (See Carr, W. F., Woolhouse, and Green.)
Worner, George R., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer construction. 2,320,993; June 8.
Wright, Arthur, Forest Hills, N. Y. Spoon for citrous fruits. 2,320,994; June 8.
Wright, Edgar E. (See Ehrhardt, R. A., and Wright.)
Wright, John W., assignor to The Fyr-Fyter Company, Dayton, Ohio. Fire extinguisher. 2,321,538; June 8.
Wyrick, Edward. (See Gora, J. J., and Wyrick.)
Yale & Towne Manufacturing Company. (See Schroeder, Charles S., assignor.)
Yanchenko, Basil J., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Two-hand control. 2,321,171; June 8.
Yendall, Edward F., and H. C. Kornemann, Kenmore, N. Y., assignors to The Linde Air Products Company. Process of and apparatus for conserving gas material. 2,321,445; June 8.
Yindrock, John J. (See Stenzel, E., and Yindrock.)
Young, L. A., Spring & Wire Corporation. (See Young, L. A., and Asaro, assignors.)
Young, Leonard A. (See Ardner, Frank J., assignor.)
Young, Leonard A., Detroit, Mich. Spring structure. 2,321,268; June 8.
Young, Leonard A., and V. Asaro, assignors to L. A. Young Spring & Wire Corporation, Detroit, Mich. Spring assembly. 2,320,987; June 8.
Young, William R., Fairfield, Conn., assignor to General Electric Company. Lamp holder. 2,321,446; June 8.
Zechiel, Eugene H., North Hollywood, Calif. Hinge. 2,321,118; June 8.
Zeidler, Kurt E., Chicago, Ill., assignor to Standard Railway Devices Company. Refrigerator car construction. 2,321,539; June 8.
Zieschang, Herman. (See Peltz, H. F., and Zieschang.)
Zonis, Sydney, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-vibrating mechanism for sewing machines. 2,321,447; June 8.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cleaner, Vacuum. J. Winthrop. Re. 22,334; June 8.
Harrow, Disk. C. H. White. Re. 22,333; June 8.
Indicator, Turn. C. S. Draper. Re. 22,330; June 8.
Oil burner construction. R. C. Sabins. Re. 22,332; June 8.
Tooth, Artificial. S. Myerson. Re. 22,331; June 8.

LIST OF PLANT INVENTIONS

Nectarine. S. L. Hayes. 587; June 8.
Plant, Camellia. J. W. Robinson. 589; June 8.
Tree, Peach. H. W. Donahey. 588; June 8.

LIST OF DESIGN INVENTIONS

Apron. E. E. Koehler. 135,807; June 8.
Badge or the like. R. R. Primozich. 135,780; June 8.
Bag and garment, Combination. D. M. Jackson. 135,794; June 8.
Beard, Pack. H. B. Johnson. 135,795; June 8.
Bottle. R. Loewy. 135,803; June 8.
Bracket, Shelved. J. P. Nichols. 135,775; June 8.
Brooch. N. Levy. 135,781–3; June 8.
Building, Prefabricated. H. F. Pettigrew and W. Morten. 135,797; June 8.
Cleaner, Comb. J. Zuk. 135,809; June 8.
Coaster. F. J. Curran. 135,773; June 8.
Comb. D. Phillips and H. V. Hahn. 135,788; June 8.
Container, Bottle. G. F. Richter. 135,798; June 8.
Container, Lipstick. G. F. Richter. 135,799; June 8.
Container, Ration. N. T. Naranick. 135,804; June 8.
Cooler, Water. C. M. Cordley. 135,772; June 8.
Earring. N. Levy. 135,780; June 8.
Flash or signal light. R. L. Falge. 135,802; June 8.
Gearing hobbing machine. A. J. Vasselli. 135,784; June 8.
Glider. W. I. Smith. 135,777; June 8.
Hanger and easel, Combined. A. Grivin. 135,786; June 8.
Jabot or similar article. S. M. Baar. 135,800; June 8.
Jacket. S. Zahn. 135,779; June 8.
Jacket, Waterproof. J. E. Hard. 135,787; June 8.
Jewelry finding or the like. J. C. Sneed. 135,790; June 8.
Lace, Embroidered. J. Wiener. 135,806; June 8.
Lamp, Bridge. D. A. Wallance. 135,805; June 8.
Pin or similar article. R. C. Swain. 135,808; June 8.
Pin, Service bar. J. H. Fisher. 135,793; June 8.
Rack, Garment. H. B. Beidler. 135,771; June 8.
Seat and back rest for a chair or the like, Combined. G. D. Wood. 135,778; June 8.
Shaker for salt and pepper. R. V. Ganz. 135,785; June 8.
Shoe sole. E. C. Beebe. 135,791; June 8.
Spout for bottles, Pouring. A. M. Mazzarelli. 135,796; June 8.
Stocking. F. E. Frost. 135,810; June 8.
Toy animal figure. M. Siebel. 135,776; June 8.
Toy gun. S. L. Leider. 135,774; June 8.
Tube, Vacuum. W. W. Eitel and J. A. McCullough. 135,792; June 8.
Tube, Vacuum. W. W. Eitel and J. A. McCullough. 135,801; June 8.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive product. N. P. Robie. 2,321,422; June 8.
Accelerator of vulcanization. W. E. Messer. 2,321,305–6; June 8.
Accessories for ironing apparatus. J. W. Steele. 2,321,261; June 8.
Accessory, Automotive. H. J. Sauer. 2,321,251; June 8.
Acetals, Preparation of. S. Sussman. 2,321,557; June 8.
Adhesive bandage. C. J. Crowley. 2,321,363; June 8.
Adhesive-coated surfaces and products so made, Making. B. J. Eiseman, Jr. 2,321,072; June 8.
Adjustable base. D. G. Holt. 2,321,486; June 8.
Air conditioning. A. R. Thomas. 2,321,115; June 8.
Airplane runway. G. G. Greulich. 2,321,197; June 8.
Alcohols, Preparation of alkoxy. R. E. Brooks. 2,321,542; June 8.
Alkyl phenols, Purification of. D. B. Luten, Jr., and A. De Benedictis. 2,321,036; June 8.
Alkyl thio substituted amino benzoic acid alkamine esters and salts thereof. J. J. Donleavy. 2,321,468; June 8.
Alloy. W. C. McLott. 2,321,227; June 8.
Ammunition manufacture. C. R. Johnson and W. P. G. Hall. 2,321,298; June 8.
Ammunition trimming apparatus. M. L. Sappenfield. 2,321,323; June 8.
Amplifier, Band pass. G. L. Grundmann. 2,321,291; June 8.
Amusement device. R. C. du Pont. 2,321,371; June 8.
Annular grooves, Device for forming. A. Rickenmann. 2,321,421; June 8.
Anode bag. M. B. Diggin. 2,321,367; June 8.
Antenna, Multiple section. G. H. Brown. 2,321,454; June 8.
Antenna reel control. N. M. Raskhodoff. 2,321,556; June 8.
Antihalation layers, Manufacture of. R. Brodersen and G. Wilmanns. 2,321,279; June 8.
Antislipping device for locomotives. A. F. Anderson. 2,321,059; June 8.
Apparatus for building tires. F. S. Sternad and J. P. Sapp. 2,321,163; June 8.
Apparatus for coating molds and the like. A. L. Ayers and W. Hensel. 2,321,172; June 8.
Apparatus for drying. G. E. Bowdoin and W. Strobridge. 2,321,124; June 8.
Apparatus for filleting fish. W. Hutton. 2,321,086; June 8.
Apparatus for loading containers. H. L. Hahn. 2,321,200; June 8.
Apparatus for logging boreholes. L. G. Howell. 2,321,295; June 8.
Apparatus for making semifrozen confections. K. E. Bemis. 2,321,173; June 8.
Apparatus for measuring pressures in containers. G. L. Hassler. 2,321,293; June 8.
Apparatus for processing thread. R. F. Bergmann and C. C. Walters. 2,321,541; June 8.
Apparatus for the cementing of shoes. E. L. Crandell. 2,321,130–1; June 8.
Apparatus for the treatment of acid sludge. W. F. Carr, T. G. Woolhouse, and W. Green. 2,321,457; June 8.
Apparatus for treating foodstuffs. W. de Back. 2,321,016; June 8.
Apparatus for turning head lamps. W. C. Tostevin. 2,321,337; June 8.
Aqueous thickening solutions. K. D. Bacon and G. K. Greminger, Jr. 2,321,270; June 8.
Article of apparel. E. Kertesz and I. K. Lorant. 2,321,091; June 8.
Assembling dry rectifiers and the like with solder. R. A. Ehrhardt and E. E. Wright. 2,321,071; June 8.
Attachment for lathes, Planer and shaper. R. C. Palmer. 2,321,413; June 8.
Automatic machine speed control mechanism. H. J. Byrne. 2,321,455; June 8.
Automatic vending machine. M. J. Margulis. 2,321,402; June 8.
Automobile accessory. A. A. Sherer. 2,321,528; June 8.
Bag: *See*—
Rebreathing bag.
Ball finishing device. A. L. Sohm. 2,321,162; June 8.
Bar grizzly. L. G. Symons. 2,321,166; June 8.
Base and wall construction, Plaster. H. H. Eades. 2,321,373; June 8.
Bases, Manufacture of tertiary. N. W. Cusa. 2,321,467; June 8.
Basket, Collapsible. M. E. Britain. 2,321,005; June 8.
Bit: *See*—
Drill bit.
Blackout lamp. D. Cantor. 2,321,008; June 8.
Black-out light shade and protector. L. W. Hughes. 2,321,488; June 8.
Block: *See*—
Building block.
Blower, Dust-tight. G. W. Breuer. 2,321,126; June 8.
Boat-control system. J. F. Morse. 2,321,098; June 8.
Boiler: *See*—
Immersion boiler. Locomotive boiler.
Bolt, Multiple-part assembly. J. F. Wallace. 2,321,170; June 8.
Bolt stop for repeating firearms, Automatic. W. C. Roemer. 2,321,045; June 8.
Boom and bucket for concrete mixers, Inclinable. J. D. Farrell. 2,321,073; June 8.
Bottle and container, Paper. H. H. Pelzer. 2,321,313–14; June 8.
Bottle cap. G. H. Hutaff, Jr. 2,321,297; June 8.
Bottle carrier. F. E. Oderkirk. 2,321,100; June 8.
Bowling device, Robot. I. H. McFalls. 2,321,553; June 8.
Box: *See*—
Journal box. Packing box.
Bracket: *See*—
Joist anchoring bracket.
Bracket for mounting automatic rifles. C. G. Dowd. 2,321,018; June 8.
Brake: *See*—
Coaster brake. Electromagnetic brake.
Brake actuating system, Ratio changing. W. R. Freeman. 2,321,479; June 8.
Brick unit. L. B. McCabe. 2,321,403; June 8.
Briquette, Smokeless. R. J. Piersol. 2,321,238; June 8.
Building block. J. I. Armao. 2,321,449; June 8.
Bullet, Explosive. R. R. Clark. 2,321,128; June 8.
Burner assembly for ranges. B. W. Tullis. 2,321,169; June 8.
Cab bracing means, Locomotive. C. K. Steins. 2,321,330; June 8.
Can opener and holder, Condensed milk. N. J. Harvey. 2,321,485; June 8.
Cap: *See*—
Bottle cap.
Cap for collapsible tubes, Closure. G. L. Lateur. 2,321,031; June 8.
Car: *See*—
Transfer car.
Car construction, Refrigerator. K. E. Zeidler. 2,321,539; June 8.
Card and label, Combined business. F. M. Butterworth. 2,321,184; June 8.
Carrier: *See*—
Bottle carrier. Tee carrier.
Carrier carton. O. Y. Warren. 2,321,534; June 8.
Carrier for baby carriages and the like, Handy parcel. E. R. Morando. 2,321,232; June 8.
Carrier-signal translating system, Ultra-high-frequency. R. L. Freeman and B. F. Tyson. 2,321,478; June 8.
Carton. S. F. Jones. 2,321,145; June 8.
Carton forming method and apparatus. D. W. Coy and W. T. Ritter. 2,321,562; June 8.
Carton having self-rotating cross partitions, Cellular. E. E. Holwick. 2,321,209; June 8.
Carton structure. K. C. Ferguson. 2,321,473; June 8.
Catalytic dehydrogenation and hydrogenation. D. J. Loder. 2,321,551; June 8.
Cathodes, Coating of thermionic. S. J. Koch. 2,321,149; June 8.
Cellulose derivatives, Production of. H. Dreyfus. 2,321,069; June 8.
Centrifugal purification of liquids. L. D. Jones. 2,321,144; June 8.
Chain guanamines and process of producing same, Branched. J. T. Thurston. 2,321,052; June 8.
Chair, Tilting. W. F. Herold. 2,321,385; June 8.
Chloroacetamide, Preparation of. E. C. Britton and W. R. Shawver. 2,321,278; June 8.
Chuck, Drill. S. P. Wagoner. 2,321,533; June 8.
Cigarette lighter. I. Florman. 2,321,135; June 8.
Circuit: *See*—
Electrical circuit.
Circuit breaker, Reclosing. T. Birkenmaier and C. E. Mosley. 2,321,122; June 8.
Circulator for stoves, Air. W. B. Czaja. 2,321,132; June 8.
Clamp. C. J. Kamin. 2,321,391; June 8.
Cleaner: *See*—
Tubing cleaner. Vacuum cleaner.
Clipper, Rotary hair. R. L. Penney. 2,321,416; June 8.
Closure, Foldable. H. D. Oberdorfer and C. F. Van Buskirk. 2,321,507; June 8.
Closure device. W. C. Terry. 2,321,333; June 8.

Cloth shearing machine. W. N. Hadley. 2,321,481–2; June 8.
Clutch: *See*—
Coin controlled clutch. Friction clutch.
Coal breaker. C. A. Jamison. 2,321,027; June 8.
Coaster brake. G. S. Lewis. 2,321,150; June 8.
Coating composition. E. H. McArdle. 2,321,303; June 8.
Coating compositions, Preparing. A. T. Camp. 2,321,127; June 8.
Coffee brewer. N. W. Morse. 2,321,411; June 8.
Coffee processing. G. W. Kirby, W. R. Johnston, and C. N. Frey. 2,321,148; June 8.
Coin controlled clutch. C. L. Grau. 2,321,136; June 8.
Coin release. B. C. Grunig. 2,321,199; June 8.
Coin tester. W. Patzer and W. A. Tratsch. 2,321,153; June 8.
Collapsible paper container. E. H. Gruger. 2,321,139; June 8.
Color printing apparatus, Screen. H. Fleisher and G. H. Tillert. 2,321,134; June 8.
Communication system. W. M. Bacon. 2,320,997; June 8.
Composition of matter. J. G. Lichty. 2,321,301; June 8.
Composition of matter and making the same. A. L. Ward. 2,321,440; June 8.
Compound and process, Chemical. A. L. Fox. 2,321,022; June 8.
Compound for sealing and lubricating relatively moving parts. H. W. Hemker and R. C. Fuhrman. 2,321,384; June 8.
Compressor, Air or gas. E. C. Mills. 2,321,097; June 8.
Conduit system. H. F. Peltz and G. H. Zieschang. 2,321,415; June 8.
Connector. C. A. Rees. 2,321,158; June 8.
Constant velocity universal joint. E. B. Anderson. 2,321,448; June 8.
Container: *See*—
Collapsible paper container. Cosmetic container. Sheet-metal container.
Container. H. F. Cox, Jr., and J. Felber. 2,321,011; June 8.
Container. C. G. Preis. 2,321,042; June 8.
Container. R. H. Seymer. 2,321,050; June 8.
Container. E. W. Wells. 2,321,536; June 8.
Container inspecting apparatus. R. J. Sweezey. 2,321,331; June 8.
Contour forming apparatus. W. C. Harper. 2,321,383; June 8.
Control, Bedclothes. A. C. King. 2,321,394; June 8.
Control means, Automatic filling. C. L. Keller. 2,321,089; June 8.
Control mechanism, Propeller. J. H. Hammond, Jr. 2,321,025–6; June 8.
Control of temperatures in regeneration of catalysts. C. E. Hemminger and C. W. Tyson. 2,321,294; June 8.
Control system for capstan lathes and like machine tools. W. H. Murad. 2,321,312; June 8.
Control system, Propeller. J. H. Hammond, Jr. 2,321,024; June 8.
Control system, Propeller. J. H. Hammond, Jr. 2,321,381; June 8.
Control, Two-hand. B. J. Yanchenko. 2,321,171; June 8.
Cooking appliance. B. E. Meacham and W. H. Frick. 2,321,500; June 8.
Cooking equipment. R. Schelling. 2,321,427; June 8.
Core orienting device. G. F. Fermier. 2,321,474; June 8.
Cosmetic container. P. A. Conant. 2,321,462; June 8.
Coupling: *See*—
Tube coupling.
Coupling device. C. E. Johnson. 2,321,028; June 8.
Coupling eye. D. S. Weiss. 2,321,535; June 8.
Coupling for sucker rods, Safety. H. B. Lee. 2,321,215; June 8.
Cleaning tool. A. Missmer. 2,321,231; June 8.
Crane, Drapery. J. N. Graber. 2,321,196; June 8.
Cultivator. R. R. Cook. 2,321,464; June 8.
Cup-making machine. G. M. Merta. 2,321,407; June 8.
Cups with faced and beveled edges, Producing drawn. H. H. Hubbard. 2,321,095; June 8.
Curler, Hair. H. P. R. Sommers. 2,321,433; June 8.
Curtain. H. Lesko. 2,321,216; June 8.
Curtain rod assembly. A. L. Thexton. 2,321,334; June 8.
Cutout, Vacuum automatic. F. Saxe. 2,321,105; June 8.
Cutting implement. F. J. Ardner. 2,321,350; June 8.
Cutting machine, Sheet material. C. J. Johnson. 2,321,299; June 8.
Detergent and making it. E. E. Dreger and J. Ross. 2,321,020; June 8.
Device, Sanding. R. C. Kirk. 2,321,395; June 8.
Die: *See*—
Thread-rolling die.
Dieing machine. C. F. Sherman and E. E. Caserta. 2,321,325; June 8.
Dinnerware machine. W. H. Emerson. 2,321,471; June 8.
Dispenser: *See*—
Towel dispenser.
Display device, Locking ring. G. F. Wadsworth. 2,321,339; June 8.
Disposal apparatus for stokers, Ash. F. G. Julyan and W. M. Schweickart. 2,321,389; June 8.
Door check. R. G. Moore. 2,321,409; June 8.
Door operating device. K. G. Etsel and J. Christensen. 2,321,286; June 8.
Door operator, Hydraulic. H. A. Greenwald. 2,321,079; June 8.
Door structure, Hangar. J. R. Keys and H. D. Oberdorfer. 2,321,491; June 8.
Dowel pin employed in joining wooden members. G. Openshaw. 2,321,101; June 8.
Drawer guide. A. J. Ruckman. 2,321,520; June 8.
Drill: *See*—
Rock drill.
Drill bit. G. G. Harrington, T. H. Stancliff, and C. H. Black. 2,321,484; June 8.
Drive mechanism. H. W. Krag. 2,321,494; June 8.
Driving mechanism. M. J. Keitz. 2,321,090; June 8.
Dropper. W. Dubilier. 2,321,369; June 8.
Dump body, Tilting. E. H. Allen. 2,320,995; June 8.
Dump truck hoist mechanism. D. R. Merchant. 2,321,406; June 8.
Egg treating apparatus. F. B. Lomax. 2,321,092; June 8.
Electric carillon. G. W. Demuth. 2,321,366; June 8.
Electric hoist. C. S. Schroeder. 2,321,525; June 8.
Electric power system. C. A. Woodrow. 2,321,444; June 8.
Electric sadiron. B. G. Olving. 2,321,509; June 8.
Electric ship propulsion. M. Liwschitz. 2,321,302; June 8.
Electric switch. P. M. Engel. 2,321,374; June 8.
Electric switch means. E. E. Johnson. 2,321,212; June 8.
Electric tubes, Manufacture of. H. D. Madden and J. W. Greenbowe. 2,321,224; June 8.
Electrical apparatus. W. A. Tolson. 2,321,335; June 8.
Electrical apparatus. D. A. Bell. 2,321,353; June 8.
Electrical apparatus. D. A. Bell and O. H. Davie. 2,321,354; June 8.
Electrical assembly. R. F. Sickles. 2,321,161; June 8.
Electrical circuit. J. A. Robinson. 2,321,103; June 8.
Electrical conductor, Composite. D. P. Dyer, Jr. 2,321,021; June 8.
Electrical switch. J. D. Crecca. 2,321,012; June 8.
Electrical windings, Testing of. N. Rohats. 2,321,424; June 8.
Electricity meter. R. Pudelko. 2,321,419; June 8.
Electrodeposition of nickel from an acid bath. H. Brown. 2,321,182; June 8.
Electromagnetic brake. H. E. Hodgson. 2,321,205; June 8.
Engine starter. B. W. Jones. 2,321,388; June 8.
Equalizer, Pressure. J. A. Lupfer. 2,321,093; June 8.
Exposure determining device. K. Rath. 2,321,420; June 8.
Fan. E. C. Horton. 2,321,143; June 8.
Fastener device. C. A. Rees. 2,321,157; June 8.
Fastening device. P. F. Rossmann. 2,321,518; June 8.
Feed control and deceleration valve. R. D. Bennett. 2,321,000; June 8.
Feeding and distributing mechanism. N. P. Harshberger. 2,321,082; June 8.
Filament sorting apparatus. D. E. Elmendorf. 2,321,191; June 8.
Filter: *See*—
Frequency band filter. Water filter.
Rotary vacuum filter.
Filter for suppression of harmonics. J. L. Finch. 2,321,376; June 8.
Fire extinguisher. J. W. Wright. 2,321,538; June 8.
Fitting construction for tanks. F. J. Pepersack. 2,321,417; June 8.
Floor protection for railway cars. G. G. Gilpin. 2,321,547; June 8.
Flow device, Differential stage lift. A. Boynton. 2,321,003; June 8.
Flow device, Stage lift. A. Boynton. 2,321,002; June 8.
Flow-through tubular steam generator. V. Juzi. 2,321,390; June 8.
Fluid motor. H. T. Rogers. 2,321,423; June 8.
Fluid pervious formations, Treatment of. J. J. Grebe and L. C. Chamberlain. 2,321,138; June 8.
Fluid-pressure operated mechanism. H. H. Turner. 2,321,264; June 8.
Flux, Welding. M. A. Miller. 2,321,309; June 8.
Folding table. G. T. Stack. 2,321,328; June 8.
Form retainer for shirts and mounting shirts thereon. J. W. Kennedy. 2,321,147; June 8.
Frame: *See*—
Picture frame.
Frequency band filter. H. Salinger. 2,321,521; June 8.
Frequency measuring system. H. O. Peterson and J. B. Atwood. 2,321,315; June 8.
Frequency modulation. M. Artzt. 2,321,269; June 8.
Friction clutch. H. V. Reed. 2,321,513; June 8.
Froth flotation of acidic minerals. L. J. Christmann, D. W. Jayne, Jr., and S. E. Erickson. 2,321,186; June 8.
Fuel feeding device for internal combustion engines, Auxiliary. A. V. Johnson. 2,321,211; June 8.
Fuel, Safety. C. L. Brown. 2,321,280; June 8.
Fuse holder. A. F. Bahlke, M. Moeller, and R. W. Sheppard. 2,321,271; June 8.
Game call. G. H. Garrison. 2,321,193; June 8.
Garage or other shelter. J. D. France and E. G. Ritter. 2,321,477; June 8.
Garment, Nether. A. Bogart. 2,321,123; June 8.

Gasket. H. W. Spicer. 2,321,257; June 8.
Gauge and method for setting the plate mounting mechanisms of printing press cylinders. J. E. McMullen. 2,321,228; June 8.
Gauging apparatus. O. H. Basquin. 2,321,121; June 8.
Gauging machine. W. S. Reynolds. 2,321,320; June 8.
Gear: *See*—
Hydraulic steering gear. Valve gear.
Generator: *See*—
Ignition generator.
Goggles, Football. D. T. Ryan. 2,321,159; June 8.
Grader, Highway shoulder. Le G. H. Lull. 2,321,401; June 8.
Gravitometer, Liquid. G. S. Binckley. 2,321,175; June 8.
Grinder, Shaft. W. C. Hanrahan. 2,321,081; June 8.
Guide, Tape. F. J. Rouan and F. L. Ford. 2,321,426; June 8.
Gun, Pistol type dart. J. J. Gora and E. J. Wyrick. 2,321,077; June 8.
Gun, Pump type dart. J. J. Gora and E. J. Wyrick. 2,321,076; June 8.
Gyro drift control. B. G. Carlson. 2,321,543; June 8.
Halogenated epoxides, Hydration of. K. E. Marple and T. W. Evans. 2,321,037; June 8.
Handle: *See*—
Saw handle.
Handle construction for ranges. J. F. Hennessy. 2,321,141; June 8.
Handling tools, Shock cord. F. A. Treadwell. 2,321,263; June 8.
Harrow. C. O. Challand. 2,321,359; June 8.
Harvester-thresher combine. W. R. Dray. 2,321,019; June 8.
Hearing aid system. W. Dubilier. 2,321,370; June 8.
Heat exchange screw conveyer. J. D. Christian. 2,321,185; June 8.
Heat exchanger. B. C. Shipman. 2,321,110; June 8.
Heated surfaces, Quenching. H. E. Somes. 2,321,432; June 8.
Heating apparatus, Induction. P. E. Dravneek. 2,321,189; June 8.
Heating device for ophthalmic mountings. D. Dodkin and C. L. MacGregor. 2,321,368; June 8.
High temperature apparatus. E. A. Lerner. 2,321,217; June 8.
Hinge. E. H. Zechiel. 2,321,118; June 8.
Holder: *See*—
Fuse holder. Motorcycle pad holder.
Lamp holder.
Hydraulic actuator for hydraulic control valves. J. B. van Der Werff. 2,321,267; June 8.
Hydraulic steering gear. H. C. French. 2,321,377; June 8.
Hydrocarbons, Dispersing thermoplastic. R. B. Porter, Jr. 2,321,240; June 5.
Hydrocarbons to aromatics, Conversion of non-benzenoid. R. E. Burk and E. C. Hughes. 2,321,006; June 8.
Hydrogen chloride, Dry. R. L. Comstock. 2,321,282; June 8.
Hydrolysis of titanium solutions. J. L. Keats and H. M. Stark. 2,321,490; June 8.
Ignition generator. E. B. Nowosielski. 2,321,505; June 8.
Immersion boiler. O. N. Sellers. 2,321,109; June 8.
Indicator: *See*—
Test indicator.
Ink comprising cellulose derivatives, Printing. N. R. Peterson and J. L. Sherk. 2,321,316; June 8.
Instrument case or the like. J. A. Widmer. 2,320,992; June 8.
Internal combustion engine of the sleeve valve type, Four-stroke cycle. E. Schmid. 2,321,564; June 8.
Joint: *See*—
Constant velocity universal joint.
Joist anchoring bracket. I. D. Linehan. 2,321,221; June 8.
Journal box. J. Dresner. 2,321,070; June 8.
Key ring. W. J. Morse. 2,321,504; June 8.
Kingpin arrangement. J. E. Smith. 2,321,429; June 8.
Knitting machine. M. Weinberg. 2,320,989; June 8.
Lag plate. H. E. Trekell. 2,321,437; June 8.
Lamp: *See*—
Blackout lamp.
Lamp. N. O. Paquette. 2,321,510; June 8.
Lamp holder. W. R. Young. 2,321,446; June 8.
Lamp shade. H. Finkel. 2,321,288; June 8.
Latex coagulation. H. A. Lubs. 2,321,552; June 8.
Lathe, Screw-cutting. G. F. Stinson. 2,321,530; June 8.
Leather, Artificial. P. L. Salzberg. 2,321,047; June 8.
Ledger sheet selector, Automatic. J. W. Miller. 2,321,229; June 8.
Lens grinding machine. A. H. Roehr. 2,321,247; June 8.
Letter stop. L. F. McFarlane and W. A. Keyes. 2,321,405; June 8.
Lighting equipment. S. R. Naysmith. 2,321,099; June 8.
Line reproduction. B. Rudnick. 2,321,249; June 8.
Liquid apportioning device. C. E. Quick. 2,321,241; June 8.
Listing adding machine. L. P. Crosman. 2,321,013; June 8.
Listing machine. L. P. Crosman. 2,321,014; June 8.
Load guide and protector. C. White. 2,320,991; June 8.
Locator. S. Berman. 2,321,356; June 8.
Lock: *See*—
Turntable lock.
Lock washer and making same. O. J. Poupitch. 2,321,155; June 8.
Locomotive boiler. B. E. Larson. 2,321,399; June 8.
Locomotive cab supporting means. G. D. Sprankle. 2,321,327; June 8.
Log cabin construction. J. G. Baker. 2,321,120; June 8.
Lubricant composition. R. Rosen. 2,321,517; June 8.
Machine tool. E. E. Kelley. 2,321,393; June 8.
Magazine for automatic guns. T. E. Horncastle. 2,321,142; June 8.
Magnesium cement article and making the same. E. Sands. 2,321,522; June 8.
Magneto construction. E. B. Nowosielski. 2,321,506; June 8.
Mailing machine. G. E. Stilwell. 2,321,165; June 8.
Mandrel for coil holders, reels or the like, Expanding and contracting. W. O. Jones. 2,321,146; June 8.
Marine transmission. A. B. Schultz and T. R. Bush. 2,231,255; June 8.
Marine vessel. R. W. Davis. 2,321,133; June 8.
Marker, Traffic. R. Foster and J. F. Shafer. 2,321,476; June 8.
Material handling device. L. J. Valusek. 2,321,266; June 8.
Measuring instrument, Gas. F. C. Morey. 2,321,038; June 8.
Mechanical handling device. D. R. Keagy. 2,321,300; June 8.
Mechanism for loading and emptying molding presses. G. B. Sayre. 2,321,252; June 8.
Mercapto-thiazolines, Manufacture of. L. H. Howland. 2,321,296; June 8.
Mercury vapor discharge device, High pressure. H. K. Bourne and L. J. Capp. 2,321,178; June 8.
Metal and making dies therefrom, Mold die. N. H. Schermer. 2,321,107; June 8.
Metal articles, Coating. M. C. Beebe. 2,320,998; June 8.
Metal, Method and machine for surfacing. G. D. Webber. 2,321,441; June 8.
Metal spinning apparatus. J. W. Shera. 2,321,527; June 8.
Meter: *See*—
Electricity meter.
Method and apparatus for conditioning air. M. A. Ramsey. 2,321,242; June 8.
Method and apparatus for forming reinforced tape. W. C. Protz. 2,321,512; June 8.
Method and apparatus for making hollow rubber articles. D. G. Rempel. 2,321,319; June 8.
Method and apparatus for printing. W. F. Grupe. 2,321,140; June 8.
Method and apparatus for treating fabrics. S. Cohn. 2,321,010; June 8.
Method of and apparatus for banding tanks. J. M. Crom. 2,321,465; June 8.
Method of and apparatus for manufacturing building covering sheet material. H. C. Koch. 2,321,396; June 8.
Methylol urea, Preparation of. H. R. Dittmar and D. E. Strain. 2,321,544; June 8.
Mineral oil, Decolorizing a. W. B. Chenault and A. E. Miller. 2,321,459; June 8.
Mineral oil, Decolorizing a viscous. W. B. Chenault and A. E. Miller. 2,321,458; June 8.
Mixer: *See*—
Proportional mixer.
Modulation system. R. J. Ehret and J. L. Barnes. 2,321,285; June 8.
Motor: *See*—
Fluid motor.
Motorcycle pad holder. J. Fischer. 2,321,192; June 8.
Motor fuel. A. Y. Mottlau and P. Miller. 2,321,311; June 8.
Mounting: *See*—
Ophthalmic mounting.
Mounting for aircraft components. P. W. Burke. 2,321,065; June 8.
Mounting for hoisting booms, Sheave. E. W. Holmes. 2,321,549; June 8.
Naphthalene, Purification of. D. F. Wilcock. 2,321,117; June 8.
Needle-vibrating mechanism for sewing machines. S. Zonis. 2,321,447; June 8.
Nozzle. F. G. Schloz. 2,321,428; June 8.
Nozzle, Atomizing. J. T. Voorheis. 2,321,532; June 8.
Nozzle, Fluid discharge. A. F. de la Calle. 2,321,017; June 8.
Nozzle for tempering bottles and other glass containers, Internal. C. E. Mongan, Jr. 2,321,555; June 8.
Nozzle, Quenching. H. E. Somes. 2,321,431; June 8.
N-(P-amino and acyl-P-aminoarylsulphonylamido)-pyridine-carboxylic acids and thermal decomposition product thereof. L. J. Szabo. 2,321,332; June 8.
Nursing bottle valve. V. Parkin. 2,321,236; June 8.
Nut and plate assembly and making the same, Welded. R. V. Heilman. 2,321,201; June 8.
Nut, Collapsible antifriction. J. C. Wilson. 2,321,442; June 8.
Nut structure, Locking. E. C. Crowther. 2,321,466; June 8.
Oil Decolorizing mineral. W. B. Chenault and A. E. Miller. 2,321,460; June 8.

Oil, insulating and similar oil, Lubricating. L. A. Mikeska and E. Lieber. 2,321,307; June 8.
Oils containing acidic substances, Distillation of crude. E. H. Atwood. 2,321,540; June 8.
Oils, Treating white. A. P. Giraitis. 2,321,290; June 8.
Ophthalmic mounting. J. E. Higgins. 2,321,083; June 8.
Optical device. E. M. Branson. 2,321,004; June 8.
Ore, Smelting iron. T. V. Moore. 2,321,310; June 8.
Organic compounds, Producing and recovering halogenated. W. Engs and S. N. Wik. 2,321,472; June 8.
Organic solution of formaldehyde-urea reaction products. J. A. Murray and A. W. Kassay. 2,321,234; June 8.
Organo-aluminum solution and preparing same. D. H. Condit. 2,321,463; June 8.
Pack, Oil refiner. A. R. White. 2,320,990; June 8.
Package, Cigarette. B. J. Tamarin. 2,321,112; June 8.
Package sealing and opening means. J. C. Dense and J. H. Craft, Jr. 2,321,066; June 8.
Packaging sheet material and the like. D. A. Di Cicco. 2,321,187; June 8.
Packing box. H. C. Bohnke. 2,321,063; June 8.
Paint applying device. W. Piercy. 2,321,511; June 8.
Paper, Coating of. F. G. Rawling. 2,321,244; June 8.
Parasiticides, Applying. L. D. Goodhue and W. N. Sullivan. 2,321,023; June 8.
Paring implement. H. Gamache. 2,321,289; June 8.
Pasteurizer. A. H. Bollenu. 2,321,453; June 8.
Pasteurizing system. R. E. Olson. 2,321,235; June 8.
Pea viner. W. F. Christel. 2,321,461; June 8.
Photographic developer. J. R. Alburger. 2,321,348; June 8.
Photographic fixing bath. J. R. Alburger. 2,321,347; June 8.
Photographic material and using the same. P. Goldfinger. 2,321,195; June 8.
Photographic print washer. R. L. Swartz. 2,321,435; June 8.
Photomechanical negative. B. Rudnick. 2,321,046; June 8.
Picture frame. M. Darche. 2,321,365; June 8.
Piezoelectric crystals, Mounting. S. A. Bokovoy. 2,321,358; June 8.
Pin: *See*—
Ten pin.
Pineapple harvester. K. J. Jackson. 2,321,387; June 8.
Pipe, Making concrete. E. D. Boyle. 2,321,277; June 8.
Piston. V. Vostrez. 2,321,054; June 8.
Piston construction. G. H. Schnitzer. 2,321,160; June 8.
Plastics and aluminum, Bonding rubberlike. M. C. Beebe. 2,320,999; June 8.
Plastic substances, Extruding. C. and H. H. Doering. 2,321,188; June 8.
Plate for individual portions of ice cream, Drip catching. M. Rubinoff. 2,321,519; June 8.
Plate, Spring. H. J. Horn. 2,321,487; June 8.
Pliers. N. Smith. 2,321,430; June 8.
Plotter, Rectoblique. J. G. Lewis. 2,321,033; June 8.
Plugger for ships and the like, Hole. B. H. Rice. 2,321,515; June 8.
Plywood, Making an improved. A. J. Stamm and R. M. Seborg. 2,321,258; June 8.
Pigment material, Preparing. S. Cabot. 2,321,007; June 8.
Pollen antigens and preparing them. G. E. Rockwell. 2,321,043; June 8.
Polyamino petroleum sulphonates and their dehydrates. L. Liberthson. 2,321,495; June 8.
Position indicating device. L. L. Holmes, Jr., and O. W. Livingston. 2,321,386; June 8.
Post construction, Table. W. A. Hillenbrand. 2,321,204; June 8.
Preheater control, Air. R. S. Cooper. 2,321,129; June 8.
Presser foot mechanism. B. T. Leveque. 2,321,032; June 8.
Printing. A. Weiss. 2,321,057; June 8.
Printing machinery. A. Weiss. 2,321,342; June 8.
Process and apparatus for sanitizing glassware. G. A. Mengle. 2,321,152; June 8.
Process of and apparatus for conserving gas material. E. F. Yendall and H. C. Kornemann. 2,321,445; June 8.
Projectile. E. G. Whipple. 2,321,344–5; June 8.
Propelling apparatus for watercraft. N. A. Thompson. 2,321,531; June 8.
Proportional mixer. E. J. Haedike. 2,321,483; June 8.
Protective armor. B. C. Nelson. 2,321,039; June 8.
Protector: *See*—
Ship torpedo protector.
Pulley, Variable speed. J. D. Tyler. 2,321,438; June 8.
Pump: *See*—
Rotary pump.
Pump. L. S. Madlem. 2,321,498; June 8.
Radio antenna. R. A. Beavar. 2,321,272; June 8.
Rail fastening device, Elevator guide. S. B. Sanford. 2,321,106; June 8.
Railroad crossing and switch construction. V. Theodus. 2,321,436; June 8.
Raincoat. E. Welch. 2,321,116; June 8.
Rake. E. L. Rocmin. 2,321,246; June 8.
Rake. C. H. Kaufman. 2,321,489; June 8.
Range, Cooking. H. W. Taft. 2,321,167; June 8.
Rat-hole swivel wrench. J. E. Reed. 2,321,245; June 8.
Razor, Safety. F. J. Ardner. 2,321,351; June 8.
Reaction products of aldehydes and diazine derivatives. G. F. D'Alelio. 2,321,364; June 8.
Reactor, Catalytic. H. R. Davis. 2,321,015; June 8.
Reagent for resolving emulsions, Process and. T. B. Wayne. 2,321,056; June 8.
Rebreathing bag. F. L. Shelton. 2,321,256; June 8.
Receptacle: *See*—
Socket receptacle.
Refrigerating apparatus. F. W. Gerard. 2,321,137; June 8.
Refrigerating apparatus. A. A. McCormack. 2,321,151; June 8.
Refrigeration. C. T. Ashby. 2,321,060; June 8.
Refrigeration. J. A. Taylor. 2,321,113; June 8.
Registering and indicating device, Fare. S. E. Stewart. 2,321,164; June 8.
Remote control system. H. V. Alexandersson and C.-E. Granqvist. 2,320,996; June 8.
Resinous condensation products, Phenol-furfuryl alcohol. E. Korten. 2,321,493; June 8.
Resins, Opalescent synthetic. C. E. Schildknecht. 2,321,048; June 8.
Retort charging machine. J. E. Scouten. 2,321,526; June 8.
Rheostat. A. C. Ruge. 2,321,322; June 8.
Ribbon spreading device for carbon copy making attachments for typewriters. J. R. Gesser. 2,321,194; June 8.
Ring: *See*—
Key ring.
Ring binder. C. D. Trussell. 2,321,558–60; June 8.
Riveting tool. R. W. McIntire. 2,321,225; June 8.
Rock drill. A. Feucht. 2,321,475; June 8.
Rodent trap. D. E. Lewis. 2,321,219; June 8.
Roof for liquid storage tanks, Floating. J. H. Wiggins. 2,321,058; June 8.
Rotameter construction. G. K. Porter. 2,321,041; June 8.
Rotary pump. H. R. Ellinwood. 2,321,190; June 8.
Rotary take-up for sewing machines. H. N. Karr and R. W. Stewart. 2,321,550; June 8.
Rotary vacuum filter. A. Mills and H. A. Rodgers. 2,321,230; June 8.
Rubber and products thereof, Forming foam. P. Stamberger. 2,321,111; June 8.
Rubber article and making same. C. C. Waterbury. 2,321,340; June 8.
Rubber goods, Treatment of. R. F. Tefft. 2,321,114; June 8.
Safety apparatus. W. E. Rose and C. W. Rose. 2,321,248; June 8.
Safety device. H. Hacklander. 2,321,380; June 8.
Sash and frame for window openings, Supplementary. L. T. Milnor. 2,321,554; June 8.
Sash construction for store fronts. V. E. Peterson. 2,321,237; June 8.
Saw handle. A. Loughlin. 2,321,223; June 8.
Saw sharpening machine, Gin. E. W. Bernhardt. 2,321,274; June 8.
Scale, Weighing. L. S. Williams. 2,321,346; June 8.
Scraper. G. W. Mork and L. P. Baranowski. 2,321,410; June 8.
Screen for centrifugal machine. A. F. Howe. 2,321,207; June 8.
Screw and rivet, Combination. E. M. Green. 2,321,378; June 8.
Screw and rivet, Combined. E. M. Green. 2,321,379; June 8.
Seal for drinking cups, Sanitary. F. M. Dessart. 2,321,284; June 8.
Sealing device. S. D. Russell. 2,321,250; June 8.
Sealing means. L. S. Fryer, and W. J. Jokilehto. 2,321,546; June 8.
Seismic surveying. B. B. Weatherby and W. T. Born. 2,321,341; June 8.
Seismic surveying. L. F. Athy and E. V. McCollum. 2,321,450; June 8.
Selenium elements, Reclaiming. O. Saslaw. 2,321,523; June 8.
Separating process and apparatus. J. W. Reed. 2,321,514; June 8.
Shade for fluorescent lamps. L. Ludwig. 2,321,035; June 8.
Shaker conveyer. B. Wathen. 2,320,988; June 8.
Shaker, Shale. J. M. Range. 2,321,243; June 8.
Shaper, Universal. H. C. Langhorst. 2,321,030; June 8.
Sheet-cleaning apparatus. W. R. Boyer. 2,321,179; June 8.
Sheet-metal container. J. Mills and C. W. Lang. 2,321,408; June 8.
Sheet metal, Forming. C. J. Frey and S. Thomas. 2,321,075; June 8.
Shell crimper, Cartridge. C. S. Rosson. 2,321,321; June 8.
Shield for electron emission tubes, One piece. E. F. Staver. 2,321,259; June 8.
Ship torpedo protector. L. Kolman. 2,321,213; June 8.
Shoe, Traction crawler. F. H. Heine. 2,321,202; June 8.
Short-wave keying device. P. F. Byrne. 2,321,456; June 8.
Shutoff device, Thermoelectric safety. H. F. Alfery. 2,321,119; June 8.
Shutoff device, Thermoelectric safety. H. A. Mantz. 2,321,095; June 8.
Shutoff system, Repeat valve. C. P. Bergman and M. Cornell. 2,321,062; June 8.

Shutter mechanism. R. R. Chappell and R. B. Colt. 2,321,361; June 8.
Shuttle, Self-threading. J. B. Plevyak. 2,321,040; June 8.
Signaling system, Dial controlled. J. T. Neiswinter. 2,321,412; June 8.
Siruping valve. C. D. Russell. 2,321,104; June 8.
Sizing machine, Ice. F. W. Brady. 2,321,125; June 8.
Skewback casting, Water cooled. C. R. Fon Dersmith and W. W. Bergmann. 2,321,074; June 8.
Ski mechanism for aircraft. R. Bircher. 2,321,561; June 8.
Socket device, Plug-in. A. M. Draving. 2,321,470; June 8.
Socket receptacle. A. M. Draving. 2,321,469; June 8.
Sodium sulphate, Production of. C. L. Levermore. 2,321,218; June 8.
Sofa and bed, Combination. S. E. Holcomb. 2,321,206; June 8.
Sole, Nonslip leather. C. T. Johnson. 2,321,088; June 8.
Solution of formaldehyde-urea reaction products, Organic. A. M. Howald. 2,321,208; June 8.
Speed recording device. W. E. Belcher. 2,321,273; June 8.
Speed transmission mechanism, Automatic variable. W. R. McKay. 2,321,226; June 8.
Spool. H. Howsam and G. G. Tucker, Jr. 2,321,084; June 8.
Spoon for citrous fruits. A. Wright. 2,320,994; June 8.
Spreader for looms. A. DeGhetto. 2,321,283; June 8.
Spring assembly. L. A. Young and V. Agaro. 2,320,987; June 8.
Spring clip attachments for clothespins. L. H. Penley. 2,321,563; June 8.
Spring structure. L. A. Young. 2,321,268; June 8.
Stabilized horizon. T. L. Thurlow and S. M. Burka. 2,321,051; June 8.
Stabilizer for metal dispersions in lubricants. R. W. Henry and S. C. Britton. 2,321,203; June 8.
Stair, Folding. R. B. Marschke. 2,321,499; June 8.
Stamp counting machine. W. H. Slinn. 2,321,529; June 8.
Steel sheets, Process of hot rolling deep drawing. R. R. Brown. 2,321,183; June 8.
Stove, Liquid fuel. H. F. Lieber. 2,321,034; June 8.
Strand handling apparatus. H. H. Merwin. 2,321,096; June 8.
Strand spinning and twisting mechanism. J. J. McCann. 2,321,404; June 8.
Strip for forming expansion joints, Preformed. G. C. De Witt. 2,321,067; June 8.
Support for flexible conduits on railway cars. E. Stenzel and J. J. Yindrock. 2,321,434; June 8.
Supports for printing rolls, Movable bearing. S. B. Stafford and H. A. Smith. 2,321,329; June 8.
Surgical probe for locating foreign metal particles in body tissue. S. Berman. 2,321,355; June 8.
Swim fin. O. P. Churchill. 2,321,009; June 8.
Switch: *See*—
Electric switch.
Electrical switch.
Switch device, Thermal. J. Schmidinger. 2,321,049; June 8.
Switch for electric flashlights or the like. T. Bradbury. 2,321,180; June 8.
Switch housing, Explosion-proof. R. H. Olley and R. F. Lester. 2,321,508; June 8.
Switching system, Teletypewriter. F. H. Hanley. 2,321,382; June 8.
Table: *See*—
Folding table.
Table. F. C. Schwab. 2,321,324; June 8.
Table and bench, Combination. C. E. Blossom. 2,321,177; June 8.
Tank for molten glass. J. Gaskell. 2,321,480; June 8.
Tape serving mechanism. A. P. Kruger. 2,321,398; June 8.
Tee carrier. W. F. Chambers. 2,321,360; June 8.
Telegraphic auction system. J. A. Duncan. 2,321,372; June 8.
Telegraph station break-in system. A. W. Kaufman. 2,321,392; June 8.
Telegraph system. R. J. Anspach. 2,321,349; June 8.
Telephone system employing phonographs. H. R. Van Deventer. 2,321,053; June 8.
Teletypewriter numbering system. D. B. Perry. 2,321,418; June 8.
Television system. K. R. Wendt. 2,321,343; June 8.
Ten pin. F. Schafer. 2,321,524; June 8.
Test indicator. C. J. Windfeldt. 2,321,443; June 8.
Tetraacetals of glyoxal with glycol monoethers and making them. L. G. MacDowell and R. W. McNamee. 2,321,094; June 8.
Textile materials, Manufacture of. G. Schneider. 2,321,108; June 8.
Textile treating apparatus. E. J. Berger and H. W. Matthews. 2,321,452; June 8.
Thermic syphon. G. J. Christenson. 2,321,362; June 8.
Thermometer. H. B. Brown. 2,321,181; June 8.
Thermometer construction. G. R. Worner. 2,320,993; June 8.
Thermostat, Adjustable. H. Ulanet. 2,321,338; June 8.
Threaded locking device. R. W. Luce. 2,321,497; June 8.
Thread-rolling die. H. C. Erdman. 2,321,375; June 8.
Threads, Sealing and locking. A. L. Parker. 2,321,414; June 8.
Ticket machine. C. Dodegge. 2,321,545; June 8.
Tire and luggage compartment for vehicle bodies, Spare. C. P. Pond. 2,321,239; June 8.
Tool: *See*—
Cleaning tool.
Machine tool.
Turning tool.
Riveting tool.
Toothbrush. G. Ulvick. 2,321,265; June 8.
Tooth relieving machine. H. Pelphrey. 2,321,102; June 8.
Totalizer actuator. F. J. Rouan. 2,321,425; June 8.
Towel dispenser. J. C. Perrin and P. L. Geer. 2,321,154; June 8.
Tractor drawbar. J. D. Robertson. 2,321,516; June 8.
Transfer apparatus, Space heat. W. H. Taylor. 2,321,262; June 8.
Transfer car. E. W. Schellentrager. 2,321,253; June 8.
Transformer. C. P. Boucher. 2,321,357; June 8.
Transmission mechanism. A. W. Plensier. 2,321,317; June 8.
Transport. E. H. Graves. 2,321,198; June 8.
Trap: *See*—
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Trap for projectors, Light. H. Haber. 2,321,080; June 8.
Trenching machine. A. R. Askue. 2,321,352; June 8.
Trigger-mechanism for firearms. W. C. Roemer. 2,321,044; June 8.
Trigger operating mechanism. W. M. Fay. 2,321,287; June 8.
Truck, Industrial lift. G. V. Johnson. 2,321,029; June 8.
Tube coupling. H. D. Stecher. 2,321,260; June 8.
Tubing cleaner. C. E. Blackburn. 2,321,275; June 8.
Tubing, Flexible. W. E. Broedling. 2,321,064; June 8.
Turbocompressor. V. S. De Bolt. 2,321,276; June 8.
Turnbuckle lock. S. Billett. 2,321,001; June 8.
Turning tool. C. H. Collins. 2,321,281; June 8.
Umbrella frame assembly. J. Levin. 2,321,495; June 8.
Vacuum cleaner. G. E. Lofgren. 2,321,222; June 8.
Valve: *See*—
Nursing bottle valve.
Siruping valve.
Valve. A. W. Tondreau. 2,321,336; June 8.
Valve gear. C. E. Hathaway. 2,321,061; June 8.
Valve structure. F. H. Mueller. 2,321,233; June 8.
Vehicle loading and unloading device. A. Tognetti. 2,321,168; June 8.
Vertical faces of road slabs, Reinforcing. J. H. Jacobson. 2,321,087; June 8.
Vinylidene chloride-graphite composition. A. W. Hanson. 2,321,292; June 8.
Viscose process rayon with acid and direct colors, Printing. C. F. Miller. 2,321,501; June 8.
Vise, Bench. F. C. Moran. 2,321,503; June 8.
Vitamin containing composition and making the same. G. H. Lubarsky. 2,321,400; June 8.
Vitreous coated bodies, Making. E. J. W. Verwey, P. C. van der Willigen, and J. Hoekstra. 2,321,439; June 8.
Vulcanizing press and timing mechanism therefor. L. E. Soderquist. 2,321,326; June 8.
Wall construction. W. M. McNeil. 2,321,304; June 8.
Wall section and the like, Fabricating. O. Bergstrom. 2,321,174; June 8.
Washdown device for inserting pipe into granular material. C. E. Reistle, Jr. 2,321,318; June 8.
Washer: *See*—
Photographic print washer.
Washer feeding means. W. M. Hanneman. 2,321,548; June 8.
Washing machine. M. M. Jackson. 2,321,210; June 8.
Washing machine transmission. C. A. Moore. 2,321,502; June 8.
Waste and overflow fitting. L. Bloch. 2,321,176; June 8.
Water filter. S. Lieberman. 2,321,220; June 8.
Waterproofing apparatus. H. C. Koch. 2,321,397; June 8.
Water-soluble condensation product. R. Bauer. 2,321,451; June 8.
Weeder. S. J. Williams, Jr. 2,321,537; June 8.
Weld backing construction. E. F. Miller. 2,321,308; June 8.
Welding. W. J. De Witt, A. Hommel, and A. Schoenwald. 2,321,088; June 8.
Window, Flexible storm. A. D. Greene. 2,321,078; June 8.
Window shade machine. H. Warp. 2,321,055; June 8.
Wiper, Paintbrush. W. E. Kinney. 2,321,492; June 8.
Wrapper for rolled tubular sanitary rubber goods, Open mouth. C. J. Schmid. 2,321,254; June 8.
Wrench: *See*—
Rat-hole swivel wrench.
X-ray cassette. F. T. Powers. 2,321,156; June 8.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

JUNE 8, 1943

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CLASS 18

A.P.C. 273,526. Insulated electric conductors. Jean Lepetit, Clichy, France. Published June 8, 1943.

CLASS 33

A.P.C. 280,439. Indicating device for airships. Albert Patin, Berlin, Germany. Published June 8, 1943.

CLASS 49

A.P.C. 225,586. Process of making filaments consisting of pure silicic acid. Franz Skaupy et al., Berlin-Lichterfelde-West, Germany. Published June 8, 1943.

A.P.C. 275,989. Process for manufacturing glass articles. Andre Georges Charles Kirchheim, Aix La Chapelle, Germany. Published June 8, 1943.

CLASS 72

A.P.C. 432,392. Structural member and method of making same. Jacques Couelle, Marseille, France. Published June 8, 1943.

A.P.C. 432,393. Tubular structural elements. Jacques Couelle, Marseille, France. Published June 8, 1943.

CLASS 82

A.P.C. 358,562. Lathe or similar machine tool and a method and device for putting the same together. Johannes Wilberz, Hilden-on-the-Rhine, Germany. Published June 8, 1943.

CLASS 89

A.P.C. 309,569. Armed rotating turrets for aircraft. Ettore Lanciani, Milan, Italy. Published June 8, 1943.

CLASS 99

A.P.C. 257,717. Method of producing food stuffs. Martinus Gerardus Groen, Hoogezand, Netherlands. Published June 8, 1943.

CLASS 102

A.P.C. 159,143. Rocket propelled bodies. Rudolf Zwerina, Vienna, Austria. Published June 8, 1943.

CLASS 103

A.P.C. 265,877. Centrifugal pumps or the like. Piero Mariano Salerni, Lillibrooke Manor, England. Published June 8, 1943.

CLASS 106

A.P.C. 265,863. Process for treating bituminous substances. Karl Mauch et al., Hamburg, Germany. Published June 8, 1943.

A.P.C. 358,182. Process for the production of white opaque enamels. Walter Kerstan, Frankfurt A. M., Germany. Published June 8, 1943.

CLASS 107

A.P.C. 352,165. Casting apparatus for use in machines for casting chocolate and the like. Kai Christian Sophus Aasted, Gentofte, near Copenhagen, Denmark. Published June 8, 1943.

CLASS 123

A.P.C. 343,303. Fly-wheel starters for aircraft engines. Charles Raymond Waseige, Rueil, Seine-et-Oise, France. Published June 8, 1943.

CLASS 128

A.P.C. 434,079½. Adhesive units. Otto Lesser, Berlin, Germany. Published June 8, 1943.

CLASS 132

A.P.C. 316,520. Method of treating human hair. Denes Bartok, Budapest, Hungary. Published June 8, 1943.

CLASS 170

A.P.C. 318,662. Propellers. Emile V. Bitterli et al., Vitry-sur-Seine, France. Published June 8, 1943.

CLASS 174

A.P.C. 65,526. Electric wires and method for making the same. Jean Lepetit, Clichy, France. Published June 8, 1943.

A.P.C. 218,848. Electric cables. Charles Murray Beckett, Newcastle-on-Tyne, England. Published June 8, 1943.

A.P.C. 275,568. Manufacture of electric cables or other insulated electric conductors for power conduction or heating purposes. Jean Lepetit, Clichy, France. Published June 8, 1943.

A.P.C. 285,390. Insulated electric conductors. Jean Lepetit, Clichy, France. Published June 8, 1943.

CLASS 175

A.P.C. 424,754. Protecting devices for networks. Rene George Guy Leorat, Lyon, France. Published June 8, 1943.

CLASS 177

A.P.C. 412,280. Centralized remote control systems for piping networks. Jean Louis Leon Alexandre Albert Moulet, Oullins, France. Published June 8, 1943.

A.P.C. 449,539. Electric compensator for plants for locating sounds. Raymond Joseph Jasse, Vichy, France. Published June 8, 1943.

CLASS 178

A.P.C. 429,584. Television methods and systems. Henri De France, Lyon, France. Published June 8, 1943.

A.P.C. 430,569. Black spot correcting means. Richard Ribber Von Felgel-Farnholz, Teltow-Seehof, near Berlin, Germany. Published June 8, 1943.

A.P.C. 455,909. Methods and apparatus for the transmission of signals. Henri De France, Lyon, France. Published June 8, 1943.

CLASS 180

A.P.C. 443,970. Removable driving equipments for cycles and cycles provided therewith. Pierre Verots et al., Villeurbanne, France. Published June 8, 1943.

A.P.C. 462,902. Auxiliary devices adapted to drive light vehicles. Marcel Mennesson, Nice-Mt. Boron, France. Published June 8, 1943.

CLASS 192

A.P.C. 365,454. One way clutch. Baptistin Branda, Marseille, France. Published June 8, 1943.

CLASS 195

A.P.C. 458,607. Fermenting process. Philippe Naldi, Lyon, France. Published June 8, 1943.

A.P.C. 458,608. Method of manufacturing fatty acids and their derivatives by fermentation of cellulose-like hydrolysates. Philippe Naldi, Lyon, France. Published June 8, 1943.

A.P.C. 458,609. Method of manufacturing fatty acids, aldehydes cetones and alcohols. Philippe Naldi, Lyon, France. Published June 8, 1943.

A.P.C. 458,610. Lacto-butyric and cellulosolytic fermentation of liquors residual in the manufacture of paper paste. Philippe Naldi, Lyon, France. Published June 8, 1943.

CLASS 196

A.P.C. 147,090. Process and apparatus for the production of anti-knock benzines and aromatic hydrocarbons. Alexander Mironescu et al., Bukarest, Roumania. Published June 8, 1943.

CLASS 197

A.P.C. 313,429. Typewriting machines . Francois Willheim, Vinay, France. Published June 8, 1943.

CLASS 199

A.P.C. 462,098. Automatic line centering and shifting device for type setting machines. Rernand Charles Souche, Oullins, France. Published June 8, 1943.

CLASS 200

A.P.C. 214,489. Electric circuit breakers with compressed fluid blow out. Bernard Marie Hilaire Paul Fernier, Lyon, France. Published June 8, 1943.

A.P.C. 342,569. Electric circuit breakers. Charles Bresson, Lyon, France. Published June 8, 1943.

A.P.C. 428,360. Electric fuses. Olivier Ziegel, La Chapelle-Gauthier, France. Published June 8, 1943.

A.P.C. 460,231. Circuit breakers. Aime Estienne, Lyons, France. Published June 8, 1943.

A.P.C. 463,172. Blowing gas self generating breakers. Bernard Marie Hilaire Paul Fernier, Lyons, France. Published June 8, 1943.

CLASS 201

A.P.C. 297,760. Gyroscopic instrument. Heinrich Kunzer, Kiel, Germany. Published June 8, 1943.

A.P.C. 371,843. Device for controlling power circuits. Wilhelm Puttkarcken, Berlin-Spandau, Germany. Published June 8, 1943.

CLASS 204

A.P.C. 235,974. Apparatus for chromium plating the interior faces of hollow objects. Wilhelm Krell, Dessau, Germany. Published June 8, 1943.

A.P.C. 258,583. Method of obtaining aluminium from clay. Juliusz Lisiecki, Miedzeszyn, near Warsaw, Poland. Published June 8, 1943.

A.P.C. 268,694. Process for producing a protecting layer against corrosion on the surface of metals or alloys. Rene Marie Berthier, Chambery, France. Published June 8, 1943.

A.P.C. 322,422. Device for conveying wires through cleaning, pickling or plating baths. Theodor Weinberger, Berlin-Zehlendorf, Germany. Published June 8, 1943.

CLASS 210

A.P.C. 434,619. Process for the prevention of calcium carbonate deposition in water. Friedrich Schonaich, Ludwigshafen-on-the-Rhine, Germany. Published June 8, 1943.

CLASS 212

A.P.C. 462,078. Crane. Andre Faure et al., Firminy, France. Published June 8, 1943.

CLASS 215

A.P.C. 377,847. Closed capacities. Robert Hirsch, Chatelguyon (Guy de Dome), France. Published June 8, 1943.

CLASS 218

A.P.C. 286,712. Methods of fixing tubular rivets. Jacques Francois Gabriel Chobert, Saint-Etienne, France. Published June 8, 1943.

CLASS 230

A.P.C. 373,839. Compression or depression pumps of the liquid ring type. Robert Leon Dardelet, Grenoble, France. Published June 8, 1943.

A.P.C. 382,283. Machines for compressing gases by centrifugal effect. Josef Szydlowski, Sainte Pe de Bigorre, France. Published June 8, 1943.

A.P.C. 382,284. Machines for displacing and compressing fluids, such as turbo-compressors for feeding aircraft engines. Josef Szydlowski, Saint Pe de Bigorre, France. Published June 8, 1943.

A.P.C. 412,528. Construction of turbo-machines. Jeremi Malczewski, Lyon, France. Published June 8, 1943.

A.P.C. 420,283. Compressor plant and method for regulating the quantity of working fluid delivered thereby. George Jandrassik, Budapest, Hungary. Published June 8, 1943.

A.P.C. 428,380. Gas compressing plant. Benjamin Rene Planche, Villefranche-sur-Saone, France. Published June 8, 1943.

CLASS 234

A.P.C. 386,196. Apparatus for checking the work of arc welders. Robert Sarazin, Neuilly-sur-Seine, France. Published June 8, 1943.

CLASS 235

A.P.C. 209,832. Device for electrical calculation. Fritz Mezger, Paris, France. Published June 8, 1943.

CLASS 244

A.P.C. 252,298. Air brake for aircraft. Claude Dornier et al., Friedrichshafen A. B., Germany. Published June 8, 1943.

A.P.C. 375,866. Control mechanisms for lowering flaps and lift increasing devices for aircraft. Charles Raymond Waseige, Rueil, France. Published June 8, 1943.

A.P.C. 381,154. Parachutes. Georges Dreyfus, Montauban, France. Published June 8, 1943.

A.P.C. 381,155. Parachute belts. Georges Dreyfus, Montauban, France. Published June 8, 1943.

A.P.C. 411,400. Parachute equipped airplanes. Imre Kertesz, Balatonboglar, Hungary. Published June 8, 1943.

A.P.C. 412,194. Feeding of motors. Jean Gustave Antoine Marie Joseph Meyer, Neuilly, France. Published June 8, 1943.

A.P.C. 443,964. Driving joint for control devices for retractable members on board aircraft. Charles Raymond Waseige, St. Etienne, France. Published June 8, 1943.

CLASS 250

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A.P.C. 414,298. Television pick-up tube. Rudolf Behme et al., Berlin, Germany. Published June 8, 1943.

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A.P.C. 440,415. Electromagnetic wave direction indicators. Andre Ganiayre et al., Lyon, France. Published June 8, 1943.

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CLASS 252

A.P.C. 439,937. Anti-freezing composition. William Levenson, Paris (Seine), France. Published June 8, 1943.

CLASS 253

A.P.C. 412,906. Sealing arrangement for centrifugal machines. Ernst Gente, Berlin-Siemensstadt, Germany. Published June 8, 1943.

A.P.C. 415,306. Turbine. Emile Dupont, Antibes, France. Published June 8, 1943.

CLASS 257

A.P.C. 377,799½. Radiator. Emil Walter Starke, Bohlitz-Ehrenberg, near Leipzig, Germany. Published June 8, 1943.

CLASS 259

A.P.C. 392,580. Fluid mixing apparatus. Jean Mercier, Paris, France. Published June 8, 1943.

CLASS 260

A.P.C. 114,710. Diaryl-dialkylamino methyl carbinols. Emil Eidebenz, Wiesbaden-Biebrich, Germany. Published June 8, 1943.

A.P.C. 222,535. Di-(amino-arylsulphon) amides and method of making same. Arnold Salomon, Oss, Holland. Published June 8, 1943.

A.P.C. 308,888. Process for obtaining deterging, wetting, foaming, metallic salt dispersing and emulsifying agents and the agents obtained by this process. Jean Paul Amedee Vallernaud, Valence-S/Rhone, France. Published June 8, 1943.

A.P.C. 314,568. Manufacture of cation-exchangers. Alfred Rieche et al., Wolfen, Kreis Bitterfeld, Germany. Published June 8, 1943.

A.P.C. 318,663. Molded material. Emile V. Bitterli et al., Vitry-sur-Seine, France. Published June 8, 1943.

A.P.C. 334,582. Production of aliphatic dichloro compounds. Hans-Georg Trieschmann et al., Mannheim, Germany. Published June 8, 1943.

A.P.C. 367,231. Process for the production of higher molecular aldehydes and alcohols. Rudolf Kern, Ludwigshafen-on-Rhine, Germany. Published June 8, 1943.

A.P.C. 368,858. Production of alicyclic ketones from alicyclic alcohols. Friedrich Laucht, Leuna, Germany. Published June 8, 1943.

A.P.C. 377,842. Condensation products and a process of preparing them. Hermann Wagner et al., Frankfurt-am-Main-Hoechst, Germany. Published June 8, 1943.

A.P.C. 388,644. Method of producing solutions of chlorides of polyvinyle. Maurice Louis Auguste Fluchaire, Lyon, France. Published June 8, 1943.

A.P.C. 397,745. Methacrylic acid chloride. Walter Schmidt, Frankfurt-am-Main, Germany. Published June 8, 1943.

A.P.C. 418,067. Printing colors and a method for manufacturing the same. Andre Henri Victor Durr, Paris, France. Published June 8, 1943.

A.P.C. 434,622. Process for the manufacture of condensation products from sulphite lye. Hermann Rudy et al., Mannheim, Germany. Published June 8, 1943.

A.P.C. 440,830. Method of recovering rubber and resulting product. Jacques Maurice Theodore Hauvette, Clermont-Ferrand, France. Published June 8, 1943.

A.P.C. 460,147. Artificial resins. Erich Cohnhoff, Saint Marcelin, France. Published June 8, 1943.

CLASS 261

A.P.C. 224,291. Carburettors for internal combustion engines. Alexander Abramson, Prague, Czechoslovakia. Published June 8, 1943.

A.P.C. 224,292. Carburettors for internal combustion engines. Alexander Abramson, Prague, Czechoslovakia. Published June 8, 1943.

A.P.C. 313,124. Carburation devices for internal combustion engines. Marcel Louis Mennesson, Neuilly-sur-Seine, France. Published June 8, 1943.

A.P.C. 397,993. Apparatus for dispersing material in air. Emile Piquerez, Saint-Cloud, France. Published June 8, 1943.

CLASS 265

A.P.C. 415,981. Automatic weighing machines. Valdimir Dimitrijevic Popov, Prague-Bubenec, Bohemia and Moravia. Published June 8, 1943.

CLASS 268

A.P.C. 412,526. Devices for controlling multiple shutters. Jeremi Malczewski, Lyon, France. Published June 8, 1943.

CLASS 271

A.P.C. 412,872. Feeding device for telegraph receivers. Kurt Winkelmann, Berlin-Zehlendorf, Germany. Published June 8, 1943.

CLASS 274

A.P.C. 463,571. Feed controller for record engraver carrying carriage. Lucien Chanal, Annecy, France. Published June 8, 1943.

A.P.C. 463,572. Record carrier drive for sound track registering machines. Lucien Chanal, Annecy, France. Published June 8, 1943.

A.P.C. 463,573. Record engraver suspension for sound track registering machine. Lucien Chanal, Annecy, France. Published June 8, 1943.

CLASS 280

A.P.C. 340,606. Means for fastening shoes on skis. Bror With, Oslo, Norway. Published June 8, 1943.

A.P.C. 415,874. Device for pedalling by two persons, specially adaptable to bicycles. Georges Henriques Raba et al., Sanary, France. Published June 8, 1943.

A.P.C. 465,641. Hinged ski. Henri Sarthou, Saint-Gervais-les-Bains, France. Published June 8, 1943.

CLASS 289

A.P.C. 379,542. Method and device for tieing thread ends in winding frames or other textile machines. Stefan Furst, Munchen-Gladbach, Germany. Published June 8, 1943.

CLASS 290

A.P.C. 450,936. Engined compressor-generator unit. Charles Raymond Waseige, Saint-Etienne, Loire, France. Published June 8, 1943.

CLASS 292

A.P.C. 413,856. Fastening devices for casement windows, doors and the like. Cornelis Van Der Leun, The Hague, Netherlands. Published June 8, 1943.

CLASS 299

A.P.C. 285,916. Injection nozzle for internal combustion engines. Karl Schwaiger et al., Gaggenau/Baden, Germany. Published June 8, 1943.

A.P.C. 313,845. Atomizers for liquids. Luigi Mai, Nice, France. Published June 8, 1943.

CLASS 309

A.P.C. 328,538. Expanding devices for piston rings. Pierre Bollee et al., LeMans, France. Published June 8, 1943.

A.P.C. 411,083. Piston. Alfred Scheibe, Dessau-Ziebigk, Germany. Published June 8, 1943.

CLASSIFICATION OF PATENTS

ISSUED JUNE 8, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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2,321,488
109. 2,321,035
242— 45: 2,321,096

242—	55: 2,321,273	250—	66: 2,321,156	257—	101: 2,321,185	260—	470: 2,321,468	263—	33: 2,321,217	291—	29: 2,321,395
	74: 2,321,146		83.6: 2,321,295		245: 2,321,110		501: 2,321,496	265—	27: 2,321,346	296—	37: 2,321,239
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	123: 2,321,084		93: 2,321,233		106: 2,321,453		561: 2,321,278	267—	4: 2,321,487		22: 2,321,406
244—	102: 2,321,065		119: 2,321,236	260—	15: 2,321,208		615: 2,321,094	268—	3: 2,321,286	299—	96: 2,321,538
246—	460: 2,321,436	252—	26: 2,321,203		29: 2,321,234		2,321,542	271—	2 3: 2,321,154		120: 2,321,428
248—	23: 2,321,486		34: 2,321,384		41: 2,321,292		2,321,557	273—	82: 2,321,524		2,321,532
	53: 2,321,434		37: 2,321,307		42: 2,321,048		619: 2,321,440		96: 2,321,371		137: 2,321,555
	226: 2,321,251		51: 2,321,517		2,321,364		621: 2,321,551	274—	15: 2,321,402		141: 2,321,431
	265: 2,321,196		242: 2,321,294		2,321,451		627: 2,321,036	279—	37: 2,321,533	305—	10: 2,321,202
250—	11: 2,321,456		308: 2,321,463		47: 2,321,493		633: 2,321,037	280—	13: 2,321,561	308—	89: 2,321,070
	2,321,478		311.5: 2,321,240		69: 2,321,544		654: 2,321,472		33.15: 2,321,535	309—	4: 2,321,160
	20: 2,320,996		337: 2,321,056		224: 2,321,069		673.5: 2,321,006		33.44: 2,321,516		14: 2,321,054
	27.5: 2,321,224	254—	168: 2,321,525		239.6: 2,321,332		674: 2,321,117	283—	21: 2,321,184	311—	41: 2,321,324
	2,321,259	255—	1.4: 2,321,474		249.5: 2,321,052		714: 2,321,114	285—	29: 2,321,417		89: 2,321,328
	33: 2,321,272		28: 2,321,215		302: 2,321,296		723: 2,321,111		86: 2,321,260		109: 2,321,204
	2,321,454		35: 2,321,245		306.6: 2,321,306		788: 2,321,305		163: 2,321,411	315—	255: 2,321,357
	2,321,556		45: 2,321,475		404.5: 2,321,467		821: 2,321,552	286—	5: 2,321,250		
	36: 2,321,354		71: 2,321,484		429: 2,321,301	261—	69: 2,321,211	287—	60: 2,321,001		
	39: 2,321,315	257—	2: 2,321,129		459: 2,321,020		121: Re.22,334		114: 2,321,028		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,320,996: 250— 20	2,321,113: 62—119.5	2,321,220: 210— 81	2,321,293: 73— 31	2,321,366: 84— 1.15	2,321,453: 259— 106
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Patents	638	No. 2,321,565 to No. 2,322,203, inclusive.
Designs	30	No. 135,811 to No. 135,840, inclusive.
Total	871	

Notice

See page xxxi for list of applications published by the Alien Property Custodian.

Notice of Cancellation

U. S. Patent Office, *Richmond, Va., May 12, 1943.*

A. Messuri & Son, their assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by The John B. Canepa Company, 302–312 West Grant Avenue, Chicago, Ill., to effect the cancellation of trade-mark registration of A. Messuri & Son, 2022 First Avenue, New York, N. Y., No. 257,591, dated June 11, 1929, and the notice of such proceeding sent by registered mail to the said A. Messuri & Son at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said A. Messuri & Son, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adjudicated Patents

(C. C. A. Calif.) Grayson patent, No. 1,699,468, for thermostat, claims 20 and 22 *Held* invalid. *Grayson Heat Control* v. *Los Angeles Gas Appliance Co.*, 134 F.(2d) 478.

(C. C. A. Calif.) Grayson patent, No. 1,957,774, for oven regulator, claim 10 *Held* invalid. *Id.*

Disclaimers

1,712,824.—*Helmer Anderson,* Minneapolis, Minn. Bag Closing Machine. Patent dated August 12, 1930. Disclaimer filed May 17, 1943, by the inventor; the assignee, *General Mills, Inc.*, assenting.

Hereby enters this disclaimer to claim 14, of the above patent.

2,213,423.—*Peter J. Wiezevich,* Elizabeth, N. J., now by judicial change of name *Peter J. Gaylor.* Hydro-Carbon Copolymer Composition. Patent dated September 3, 1940. Disclaimer filed May 25, 1943, by the assignee, *Jasco, Incorporated.*

Hereby enters this disclaimer to claim 3 and to the word "di-olefines" in line 6 of claim 8 in said specification.

2,252,940.—*Joseph C. McCune,* Edgewood, Pa. Brake Apparatus for Vehicles. Patent dated August 19, 1941. Disclaimer filed May 29, 1943, by the inventor; the assignee, *The Westinghouse Air Brake Company,* consenting.

Hereby enters this disclaimer to claims 11, and 12 of said patent.

2,270,152.—*Edward Themak,* Northport, N. Y. Tube Sealing. Patent dated January 13, 1942. Disclaimer filed May 13, 1943, by the inventor.

Hereby enters this disclaimer to claim 29 of said patent.

2,277,146.—*Frank H. Roby,* Milwaukee, Wis. System of Electric Welding. Patent dated March 24, 1942. Disclaimer filed May 21, 1943, by the assignee, *Square D Company.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, and 12 in said specification.

Conditions of Applications Under Examination at Close of Business May 29, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,606; Trade-Mark Division, 851. Oldest new case, July 25, 1942; oldest amended, July 29, 1942)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Oct. 26	†Feb. 5	288
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	†Feb. 24	†Feb. 8	231
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Aug. 6	Aug. 11	915
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 16	Nov. 7	405
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Sept. 21	Sept. 26	517
6. GENIESSE, E. W., Carbon Chemistry (part)	Oct. 3	Oct. 1	1005
7. JARBOE, C. G., Optics, Photography	Nov. 7	Nov. 2	851
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Nov. 28	Nov. 20	603
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 2	Oct. 31	745
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Dec. 18	Dec. 17	385
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	†Jan. 9	Dec. 31	316
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Nov. 16	Dec. 7	618
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Jan. 28	†Jan. 25	466
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Dec. 17	Dec. 9	706
16. SPENCER, C. J., Telegraphy; Telephony	Oct. 22	Oct. 23	626
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 12	Aug. 12	707
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 22	Oct. 5	546
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Sept. 14	Sept. 1	600
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Dec. 26	Dec. 16	442
21. THOMPSON, T. J., Textiles	†Jan. 23	†Jan. 7	306
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Aug. 22	Aug. 24	1716
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 26	Dec. 24	135
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	†Jan. 22	†Jan. 30	507
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 9	Oct. 30	591
26. YOUNG, R. R., Electricity—Generation and Motive Power	Oct. 14	Oct. 12	696
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 26	Oct. 22	569
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 29	Aug. 17	623
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	†Feb. 19	†Feb. 11	346
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Feb. 5	†Feb. 1	297
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 11	Dec. 11	1366
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Oct. 19	Oct. 22	643
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	†Jan. 2	†Jan. 7	641
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Nov. 20	Dec. 2	399
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	†Jan. 14	Dec. 7	581
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	†Jan. 11	Dec. 22	357
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 22	Dec. 12	405
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Dec. 1	Nov. 23	615
39. WHITNEY, F. L., Fluid Pressure Regulators; Valves; Water Distribution	†Feb. 2	†Feb. 1	395
40. DRUMMOND, E. J., Receptacles	†Feb. 23	†Feb. 10	363
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Nov. 7	Nov. 6	389
42. MARANS, H., Electric Signaling	†Jan. 29	†Feb. 11	317
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	July 25	Aug. 1	844
44. HARVEY, L. P., Refrigeration	Oct. 5	Aug. 28	316
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Dec. 4	Dec. 14	681
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Nov. 30	Nov. 30	441
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Nov. 7	Nov. 13	1007
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Aug. 8	Aug. 12	738
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Nov. 30	Dec. 1	562
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Nov. 4	Nov. 4	1215
51. BACKUS, C. D., Radiant Energy	Oct. 22	Oct. 29	1054
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Dec. 7	Nov. 24	684
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Oct. 21	Feb. 9	184
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Oct. 28	Oct. 20	461
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	Aug. 20	Aug. 20	822
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Dec. 1	Nov. 30	715
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewlry; Nut and Bolt Locks.	July 29	Sept. 2	447
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 26	Dec. 12	531
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	July 30	July 29	122
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Sept. 11	Sept. 16	443
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Oct. 19	Nov. 25	538
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Dec. 11	†Jan. 19	459
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Oct. 7	Oct. 1	955
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Dec. 16	Dec. 16	1103
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Oct. 7	Oct. 3	696
Trade Marks: RICHMOND, F. A	†Apr. 28	†May 13	851
Designs: KALUPY, H. H	†May 3	†May 6	259

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

KUCHAR *v.* ARMINGTON ET AL.

No. 4,668. Decided February 1, 1943

[133 F.(2d) 944]

INTERFERENCE—PRIORITY.

"We are of opinion * * * as was the Examiner of Interferences, that the counts are not sufficiently broad to read on the dump wagon embodying the door closing mechanism disclosed in appellees' Exhibit 4 which was operated in February 1934, and that appellees are not entitled to an award of priority of invention."

APPEAL from the Patent Office. Reversed.

Mr. Albert G. McCaleb, Mr. Robert H. Wendt, and *Mr. John F. Eakins* (*Mr. James H. Littlehales* of counsel) for Kuchar.

Messrs. Hyde and Meyer, Mr. Elbert L. Hyde and *Mr. George S. Baldwin* for Armington et al.

HATFIELD, *J.:*

This is an appeal in an interference proceeding from the decision of the Board of Appeals of the United States Patent Office reversing the decision of the Examiner of Interferences awarding priority of invention of the subject matter defined by the two counts in issue (Nos. 1 and 2) to appellant, Joseph Kuchar.

The interference is between appellant's application, No. 743,792, filed September 13, 1934, and appellees' patent, No. 2,055,919, issued September 29, 1936, on an application filed March 7, 1935.

Appellees are the junior party and the burden was upon them to establish priority of invention by a preponderance of the evidence.

The claims constituting the counts in issue originated in appellees' patent and were copied by appellant for interference purposes.

The invention in issue relates to dump wagons having dumping doors, and particularly to the operating mechanism for closing the dumping doors, as defined by the counts of the interference of which count 1 is illustrative. It reads:

1. In a wheeled vehicle having a dumping door, a cable for closing said door and a drum controlling said cable, means providing winding drive of said drum by travelling motion of said vehicle, operator-operable means for initiating said drive, means for automatically maintaining said drive upon its initiation, means responsive to tension in said cable for automatically terminating said drive when said door attains closed position, and means for releasably retaining said drum in a wound position.

As stated by appellees in their involved patent, the invention particularly

"contemplates a wheeled vehicle having bottom dumping doors, *and closing of the doors by power taken from a wheel element of the vehicle when the latter is in motion*";

that is, the dumping doors of the wheeled vehicle are closed by means of cable actuated by winding gear and a drum, the drum being so located that it is driven

"by a roller through frictional contact with"

a wheel of the dumping vehicle. [Italics not quoted.]

The sole issue here presented is whether mechanism constructed in conformity with appellees' Exhibit 4, which comprises blue prints of door closing mechanism, and successfully operated (in a manner hereinafter explained) on a dumping vehicle attached to a tractor sometime in February 1934 conforms to the counts in issue. If it does, the decision of the Board of Appeals awarding priority of invention to appellees should be affirmed. If it does not, the decision of the Board should be reversed and priority of invention awarded appellant.

The Examiner of Interferences held, and counsel for appellant here contend, that the limitation "means providing winding drive of said drum by travelling motion of said vehicle," contained in the counts in issue, does not, when considered with other provisions of the counts, read upon the dump wagon mechanism constructed in conformity with appellees' Exhibit 4.

It is conceded here by counsel for appellees that the mechanism constructed in conformity with appellees' Exhibit 4 and successfully operated on a dump wagon in February 1934 is the mechanism disclosed in their Exhibit 1 (a patent, No. 2,015,331, issued September 24, 1935, to George E. Armington, one of the appellees, and Stewart F. Armington), except that Exhibit 4 included the improvement, as stated in the counts in issue, of "means responsive to tension in said cable for automatically terminating said drive when said door attains closed position." The improvement in the door closing mechanism of the dump wagon disclosed in Patent No. 2,015,331 was made because of the fact that frequently some obstruction, such as a root or dirt, between the closing edges of the doors prevented the doors from reaching a closed position, in which event, unless the clutch of the winding mechanism was disengaged, some part of the mechanism was likely to be broken.

In appellees' Exhibit 1 (Patent No. 2,015,331) a rotatably mounted drum is wound by the alternate pulling effect of two cables extending forwardly to the tractor to which the dump wagon is attached. If the doors of the dump wagon are open and the two vehicles move forward in a straight line and over level ground, the dumping doors will not close. However, if the tractor travels to the right or left in an angular position relative to the dump wagon, the pull on the cables which are attached to the dump wagon and which extend forwardly to the tractor causes the dumping doors, by means of the mechanism disclosed in that patent, to close, or if the relative angular motion between the tractor and the dump wagon is up and down, that is, if the two vehicles are moving over uneven ground, there will be a forward pull on both cables, resulting in the closing of the doors. Accordingly, as stated in Exhibit 1 (Patent No. 2,015,331), the power to close the doors of the dump wagon is obtained from the

relative angular motion between the dump wagon and the tractor. In other words, the door closing mechanism of the dump wagon is actuated when the tractor moves to an angular position relative to the dump wagon, whereas, as hereinbefore noted, in appellees' patent involved in the interference, the door closing mechanism of the dump wagon is not actuated by the angular motion of the tractor relative to the dump wagon, but, on the contrary, is actuated by power derived from a wheel of the dump wagon when the latter is traveling.

With reference to the door closing mechanism disclosed in appellees' Exhibit 1 (Patent No. 2,015,331) and the improvement made thereon as shown in their Exhibit 4, counsel for appellees state in their brief that—

> In this device of Patent No. 2,015,331 [appellees' Exhibit 1], if door closing movement was stopped before the doors reached fully closed position, as by dirt on the edges of the door opening or some other obstruction, objectionable breakage or wear occurred. *This led to a single change in these earlier dump wagons to bring them to the form of Armington's'* [appellees'] *Exhibit 4. The drum winding mechanism, including the operating cables * * * extending forwardly to the tractor, was left unchanged. It operated precisely as it had before.* The only change was in the arrangement for and manner of operation of the drum drive terminating means. [Italics ours.]

That is to say, the improvement consisted broadly of "means," called for by the counts in issue, "responsive to tension in said cable for automatically terminating said drive when said door attains closed position."

It appears from the record that the mechanism disclosed in appellees' Exhibit 4 was never disclosed in an application for a patent. Furthermore, George E. Armington, one of the appellees, testified that after the tests in February 1934 of a dump wagon embodying the mechanism disclosed in that exhibit, appellees "developed an entirely different principle in winding" in which, as in their involved patent, the power for closing the doors was taken from a wheel of the dump wagon while the dump wagon was traveling.

It is true, as argued by counsel for appellees, that the counts of the involved interference are broadly drawn; that they must be given the broadest construction which they will reasonably permit; and that, as they are not ambiguous, they should not be construed in the light of the teachings of appellees' patent in which they originated. See *Bryson* v. *Clarke*, 490 O. G. 5, 25 C. C. P. A. (Patents) 719, 92 F.(2d) 720; *Malm et al.* v. *Schneider*, 1178 O. G. 502, 26 C. C. P. A. (Patents) 783, 101 F.(2d) 201. Furthermore, limitations not expressly defined in the counts may not be read into them. *Writer* v. *Kiwad*, 431 O. G. 263, 20 C. C. P. A. (Patents) 869, 63 F.(2d) 259. Conversely, expressly defined limitations in counts may not be disregarded. *Harris* v. *Henry*, 431 O. G. 6, 20 C. C. P. A. (Patents) 883, 63 F.(2d) 120; *Bryson* v. *Clarke*, supra. Many other decisions of this court support the hereinbefore stated propositions of law.

The clause "means providing winding drive of said drum by travelling motion of said vehicle," contained in each of the involved counts, is sufficiently broad to include any means which will provide winding drive of the drum by any traveling motion of the wheeled vehicle.

It will be observed that the counts in issue are limited to a "*wheeled vehicle* having a dumping door, a cable for closing said door and a drum controlling said cable," and "means providing winding drive of said drum by *travelling motion of said vehicle*." [Italics ours.] Obviously, the last quoted clause relates to means broadly for providing winding drive of the drum, which means derives its power from the traveling motion of the wheeled vehicle or dump wagon called for by the counts. Such means does not derive its power from any other source. It does not, for example, derive its power, wholly or in part, from the relative angular motion between the wheeled vehicle or dump wagon and another vehicle, such as a tractor, or when the tractor moves to an angular position with reference to the wheeled vehicle or dump wagon as does the door closing means disclosed in appellees' Exhibit 1. Although the wheeled vehicle or dump wagon, called for by the counts in issue, may receive its traveling motion from a tractor or from some other source, the door closing means receives its power solely from the traveling motion of the dump wagon, regardless of the means employed to impart traveling motion to the dump wagon.

We are of opinion, therefore, as was the Examiner of Interferences, that the counts are not sufficiently broad to read on the dump wagon embodying the door closing mechanism disclosed in appellees' Exhibit 4 which was operated in February 1934, and that appellees are not entitled to an award of priority of invention.

For the reasons stated, the decision of the Board of Appeals is reversed, and priority of invention of the subject matter defined by the counts in issue is awarded to appellant.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE BERTSCH

No. 4,672. Decided December 26, 1942. Petition for rehearing denied January 29, 1943

[132 F.(2d) 1014]

1. APPEAL—TECHNICAL QUESTIONS—MANIFEST ERROR.
   "The questions involved are extremely technical in their nature, involving to a considerable extent an expert knowledge of chemistry and we would be warranted in reversing the decision appealed from affirming the decision of the Examiner only if we are convinced that the decision is manifestly wrong."
2. RIGHT TO MAKE CLAIMS—CLAIMS COPIED FROM PATENT—CONSTRUCTION.
   "We cannot say that the language of the claims is free from ambiguity, and inasmuch as claims 1 to 4 inclusive were copied from the Siebenburger patent presumably for purposes of interference, it is proper to resort to that patent to determine the proper construction of those claims."
3. SAME—SAME—SAME.
   In claims 1 to 4, copied by appellant from the patent to Siebenburger, the phrase "in a condition free from other sulfate and sulfonic acid groups," limiting the recitation of "sulfuric acid esters of monovalent unsaturated aliphatic alcohols" *Held*, by reference to said patent, to mean "that the sulfate esters claimed are unsaturated, as are the alcohols from which they are derived," and *Held* that appellant has no right to make said claims in his application.
4. WORDS AND PHRASES—"COMPRISING ESSENTIALLY."
   "While it is true that the word 'comprising' is usually in patent law held to be synonymous with the word 'including' we think that the use of the two words 'comprising essentially' should receive a different interpretation."
5. SAME—"COMPOSED OF."
   In view of circumstances, the words "composed of" *Held* to be synonymous with "consisting of."
6. RIGHT TO MAKE CLAIMS.
   Where appellant, Bertsch, asserted in his brief that claims 5 to 8 of his application "specify the same compounds as claims 1 to 4, which correspond to Siebenburger's claims, but use the simpler terminology employed in the Bertsch application, rather than the involved wording of the Siebenburger patent" *Held* that none of said claims 5 to 8 should be given a broader interpretation than the Patent Office tribunals gave to the said claims 1 to 4 and *Held* that, like claims 1 to 4, claims 5 to 8 are not supported by appellant's application.
7. SAME.
   "We are unable to find error in the decision appealed from, holding that appellant's application does not sufficiently support the claims. It is not enough that he disclosed the formula for the product claimed, but under the provisions of section 4888 of the Revised Statutes (U. S. C., title 35, section 33) he must file a 'written description * * * of the manner and process of * * * compounding * * * it * * * in such full, clear, concise, and exact terms as to enable any person skilled in the art * * * to * * * compound * * * the same.'"
8. PATENTABILITY—ANTICIPATION—APPLICATION ANTEDATING REFERENCE.
   Earlier applications of appellant disclosing the formula of the composition claimed by him in his application on appeal, but not disclosing a process for compounding that composition *Held* insufficient to antedate references cited against claims 1 to 8 of appellant's application on appeal and said claims *Held* unpatentable.

APPEAL from the Patent Office. Affirmed.

Messrs. Hammond & Littell (*Mr. Charles P. Pollard* of counsel) for Bertsch.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claims 1 to 8 inclusive of appellant's application for a patent filed May 25, 1939. No claims were allowed.

Claims 1 and 5 are illustrative of the subject matter of the claims and read as follows:

> 1. The sulfuric acid esters of monovalent unsaturated aliphatic alcohols containing at least 9 carbon atoms in a condition free from other sulfate and sulfonic acid groups, the sodium salts of which constitute solid water-soluble masses whose aqueous solutions have a pronounced cleansing, emulsifying and wetting-out action.
>
> 5. A composition of matter comprising essentially a sulfuric acid ester of a monovalent unsaturated alcohol containing more than 8 carbon atoms, the water-soluble salts of which unsaturated compound constitute solid water-soluble masses possessing wetting, cleaning and emulsifying properties.

The rejection was based upon two grounds:

1. Insufficient disclosure in appellant's application.

2. That the alleged invention is anticipated by prior patents cited as follows: Siebenburger, 2,060,254, November 10, 1936; Snoddy et al., 2,075,914, April 6, 1937; Hallwood, 2,079,347, May 4, 1937; McAllister, 2,099,214, November 16, 1937.

Appellant's alleged invention is described by the Examiner in his statement on appeal to the Board as follows:

> The invention claimed relates to the sulphate esters of unsaturated aliphatic alcohols having at least 9 carbon atoms in the molecule. The specification is long and contains many examples and alternatives. However, only examples 4, 6, 9, and 10 are actually pertinent to the invention claimed. These examples disclose the sulphation of oleyl alcohol, ricinoleyl alcohol, linoleyl alcohol, and oleyl alcohol, respectively. It is alleged by applicant and specified in the claims that in the sulphation reaction only the hydroxyl group of the alcohol is esterified, the unsaturated linkage remaining intact.

Appellant does not assert that the references do not disclose his alleged invention but contends that earlier applications filed by him disclose it and therefore antedate the references. Therefore it is not necessary to discuss the disclosures of the references.

Claims 1 to 4 inclusive were copied by appellant from the patent to Siebenburger.

We will first consider the first ground of rejection, viz., the insufficiency of the disclosure of appellant's application.

The Examiner in his statement discussed this subject at length and in concluding it summarized his views as follows:

> (A) There is no adequate basis for claims 1 to 8 in the present application, since no method of actually obtaining an unsaturated sulphate ester "free from other sulfate and sulphonic acid groups" is disclosed. The only process disclosed yields a mixture containing disulphated and sulphated-sulphonated derivatives together with unsaturated sulphate esters, hence, the application does not support the claims, section 4888, R. S.

Upon this branch of the case, the Board of Appeals in its decision stated:

> The appealed claims relate to a wetting, cleansing and dispersing agent broadly of the sulphonated higher aliphatic alcohol type. It is considered that the wording of the claims limits each to an unsaturated form of the product in distinction to possible saturated form in respect to the aliphatic nucleus. This is because of the employment of the terms "free from", "composed of", and we believe even of the expression "comprising essentially", the latter of claim 5.
>
> Claims 1 to 8 have been rejected upon the ground of insufficient disclosure. An examination of applicant's specification is not believed to show any such distinction of preparing unsaturated compounds emphasized in respect to the alkyl portion of the composition as to warrant limitation in the claims to this feature. As pointed out and discussed by the Examiner, applicant's specification is long and proposes many possible alternatives. Reference to or showing of any unsaturated products appears to be largely accidental and not treated as of vital importance. This is not regarded as supporting claims which are regarded as definitely excluding saturated compounds as a main feature of novelty. It is not regarded as sufficient that one skilled in the art *could possibly* separate the saturated from the unsaturated compounds of the mixture disclosed by applicant. The disclosure must be definitely in the specification itself. This ground of rejection is affirmed. [Italics ours.]

[1] At the outset we will observe that, as is apparent from the above quotations, the questions involved are extremely technical in their nature, involving to a considerable extent an expert knowledge of chemistry and we would be warranted in reversing the decision appealed from affirming the

decision of the Examiner only if we are convinced that the decision is manifestly wrong.

In the case of *In re Wuertz et al.*, 27 C. C. P. A. (Patents) 1039, 110 F.(2d) 854, 519 O. G. 7, which was a chemical case, we used language which we think is applicable here. We there said:

> The issue presented involves highly technical factual matters, and it is well settled that in cases of this character concurring decisions of the tribunals of the Patent Office will not be disturbed, unless it appears that they are manifestly wrong. *In re Henry Anhaltzer*, 18 C. C. P. A. (Patents) 1181, 48 F.(2d) 657, 410 O. G. 819, and cases therein cited; *Berman* v. *Rondelle*, 22 C. C. P. A. (Patents) 1049, 75 F.(2d) 845, 458 O. G. 215.

Appellant contends that the Board of Appeals erred

> "in interpreting the claims as necessitating the exclusion of the possible presence of compounds other than unsaturated sulfuric acid esters of unsaturated alcohols"

and also erred

> "in holding that there is insufficient disclosure in the present application in which the claims are sought."

Whether the language of claims containing the language

> "sulfuric acid esters of normal monovalent unsaturated aliphatic alcohols * * * in a condition free from other sulfate and sulfonic acid groups"

should be construed as meaning that the sulfuric acid esters are themselves unsaturated is an extremely technical question. Inasmuch as both Patent Office tribunals have held that the quoted language means that the sulfuric acid esters described in the claims are unsaturated, we do not feel warranted in holding that such construction is manifestly wrong.

[2] Moreover, we cannot say that the language of the claims is free from ambiguity, and inasmuch as claims 1 to 4 inclusive were copied from the Siebenburger patent presumably for purposes of interference, it is proper to resort to that patent to determine the proper construction of those claims. *In re Jardine and Cooper*, 20 C. C. P. A. (Patents) 761, 62 F.(2d) 194, 430 O. G. 317; *In re Alexander M. Nicolson*, 18 C. C. P. A. (Patents) 1468, 49 F.(2d) 961, 412 O. G. 838.

The Siebenburger patent states:

> This invention relates to the manufacture of particularly pure sulphuric acid esters of aliphatic alcohols which are valuable assistants in the industry of improving textile materials and also valuable as intermediates for other products. It comprises the process of making these esters, as well as the esters themselves.

Two examples of the process employed are given. In the first example it is stated:

> From analytical determinations it is found that the product consists only of the sulphuric acid ester salt.

In the second example it is stated:

> In this case also it can be verified analytically that only the sulphuric acid ester is formed by the process.

[3] It is therefore clear that in the claims 1 to 4, copied by appellant from this patent, the limitation "free from other sulfate and sulfonic acid groups" means in said patent that the sulfate esters claimed are unsaturated, as are the alcohols from which they are derived, and in accordance with the rule above referred to this meaning must be given to said limitation in claims 1 to 4.

It is conceded that the formula for such a compound is $CH_3.(CH_2)_7.CH{=}CH.(CH_2)_7.CH_2OSO_3H$ and that such formula is named in Example 4 of appellant's application. However, it is not stated in said Example 4 that the process there set out necessarily produces this compound.

Said Example 4 reads as follows:

Example 4

> One hundred kgs. of oleic alcohol are sulfated at 25° C. with 80 kgs. of concentrated sulfuric acid. The mixture is poured into 150 kgs. of ice water and is neutralized by means of piperidine.
>
> The sulfation reactions may be illustrated by the following equations:
>
> (1) $CH_3.(CH_2)_7.CH{=}CH.(CH_2)_7.CH_2OH + H_2SO_4 = CH_3.(CH_2)_7.CH{=}CH.(CH_2)_7.CH_2OSO_3H + H_2O$
>
> (2) $CH_3.(CH_2)_7.CH{=}CH.(CH_2)_7.CH_2OH + 2H_2SO_4 = CH_3.(CH_2)_7.CH_2{-}{-}CHSO_4H.(CH_2)_7.CH_2OSO_3H$

Concerning this example, we are in agreement with the following statement in the brief of the attorney for the Commissioner of Patents:

> In Example 4 a certain process is described and it is then stated: "The sulfation reactions may be illustrated by the following equations:". Two equations follow, in the second of which sulfation of the double bond occurs, so that the resultant product clearly fails to satisfy the requirement of the claims for a sulfuric acid ester "free from other sulfate and sulfonic acid groups." The appellant's reliance, therefore, must be placed solely on the first equation under Example 4. It is to be noted, however, that it is not stated whether the reactions of the two equations of Example 4 take place concurrently or alternatively. If the former is the case, then the resultant product is not free from sulfate groups other than the sulfuric acid esters, and hence does not satisfy the claims. On the other hand, if the two equations represent alternative reactions, then there is nothing to show how it is possible to obtain one rather than the other. A single procedure is set forth, and there is no reason to suppose that it would give one reaction at one time and another at another time. It seems clear, therefore, that Example 4 does not teach how the compound here claimed may be prepared. At best, it teaches the preparation of a product containing some of this compound, with no disclosure as to how the compound may be isolated, and nothing to indicate that such isolation would be desirable. The remaining examples, as pointed out by the Examiner, are even less pertinent than Example 4.

The ground of the rejection of the claims by the Examiner for insufficiency of disclosure was that appellant's application discloses no method of actually obtaining an unsaturated sulfate ester free from other sulfate and sulfonic groups, and that the only process disclosed yields a mixture, to quote from his statement "containing di-sulphated and sulphated-sulphonated derivatives together with unsaturated sulphate esters."

Appellant upon this point relies upon the statements in Example 10 of his application reading as follows:

Example 10

> Concentrated sulfuric acid, as sulfuric acid monohydrate, is slowly introduced and stirred into about an equal quantity of oleyl alcohol during cooling. The resulting sulfuric acid esters are purified in *known* manner either before or after neutralization to remove inorganic sulfate groups and undesirable reaction products. As a result of the cool conditions and mild sulfonation treatment the reaction product is substantially free of sulfonic acid groups and is composed of the unsaturated compound, oleyl sulfate, in admixture with a proportion of the saturated disulfate. If *so desired the two sulfates may be substantially separated by conventional procedures.* The sodium salts of these esters are water-soluble and have strong wetting, foaming, cleansing and emulsifying properties. [Italics ours.]

Appellant also relies upon the following statement in his application:

> The acid reaction products obtained as described above are preferably carefully neutralized, for instance, with sodium hydroxide. Neutralization should ordinarily be carried out at relatively low temperatures, preferably in a vessel fitted with a means for cooling. The resulting alcohol salts such as sodium lauryl sulfate may be separated from inorganic components such as sodium sulfate and sodium chloride by known methods, for instance, by dissolving in ethyl alcohol, decanting or filtering, and evaporating off the solvent.

As to the language last above quoted, it obviously has no application to the separation of saturated and unsaturated derivatives referred to by the Examiner.

With regard to the first of the above quotations from Example 10, it will be observed that it is stated that the sulfuric acid esters may be purified in known manner and that the two sulfates may be substantially separated by conventional procedures.

It is appellant's contention that the Patent Office tribunals erred in holding that the disclosure in his application is insufficient for the reason that no separation process is stated therein. He contends that such process was well-known to those skilled in the art, and hence it was unnecessary to set it forth in the application. Upon this point appellant's brief states:

> The process of compounding is disclosed in sufficiently complete terms to enable one skilled in the art to produce and use the unsaturated derivatives whether they be used in combination with other reaction products or in purified form.
>
> The position of the Board of Appeals to the effect that the specification is defective in failing to disclose the separation of the unsaturated from the saturated derivatives or in failing to indicate how the purified product may be produced and how to produce it, is clearly in error.
>
> If the Board intended to hold that there was a lack of disclosure as to the method of separation, then its conclusions as to effect of such lack find no legal basis. The Board does not deny that one skilled in the art could effect the separation, nor did the Examiner before it (R. 22, ls. 3–9). It holds that it is immaterial that one skilled in the art could effect the separation; it must be included in the specification.

Appellant inaccurately states the holding of the Board. It did not hold that

> "it is immaterial that one skilled in the art could effect the separation."

The Board's statement was

> "It is not regarded as sufficient that one skilled in the art *could possibly* separate the saturated from the unsaturated compounds of the mixture disclosed by applicant." [Italics ours.]

This was a correct statement of a principle of law many times affirmed by this and other courts.

Illustrative is the case of *McCormick* v. *Malherbe*, 28 C. C. P. A. (Patents) 838, 116 F.(2d) 520 wherein we said:

> McCormick argues more to the effect that anyone carrying out the McCormick teachings and being skilled in the art would, if desirable, separately treat with fresh sulphuric acid a cracked distillate that had been previously treated with straight run sludge. If it were conceded that one skilled in the art "might" do so, we do not think that this fact alone would justify the conclusion that the invention of the counts was disclosed in the McCormick application. Under circumstances like those at bar, for a disclosure to support interference counts, there must be more than a possibility that a certain process will be followed if the teachings are followed. There must be some positive, definite disclosure of the steps of the process, or such a disclosure of steps that if the teachings are followed by one skilled in the art the process must inevitably result. *Hausgirg* v. *Kemmer*, supra; *Brand* v. *Thomas*, 25 C. C. P. A. (Patents) 1053, 96 F.(2d) 301.

With respect to claims 5 to 8 inclusive, appellant contends in one part of his brief that inasmuch as they were not copied from the Siebenburger patent, a different rule of interpretation should prevail and that they should be held to include an admixture of unsaturated compounds with saturated compounds. In support of this contention, appellant points to the wording of claim 5 which calls for "A composition of matter *comprising essentially* a sulfuric acid ester * * *" [Italics ours] and claims 6 and 7 which call for "* * * agents *composed of* unsaturated alkyl sulfates * * *" [Italics ours] as in claim 6, and "* * * agents composed of sulfuric acid esters * * *" as in claim 7.

Claim 8 is for "The unsaturated compound, oleyl sulfate." This language clearly brings this claim in the same group as claims 1 to 4 inclusive.

With respect to claims 5, 6, 7, and 8, appellant's brief states that they

> "specify the same compounds as claims 1 to 4, which correspond to Siebenburger's claims, but use the simpler terminology employed in the Bertsch application, rather than the involved wording of the Siebenburger patent."

It is therefore clear that appellant did not intend that in drafting claims 5 to 8 they should receive a broader interpretation than claims 1 to 4 but that he intended merely to use "simpler terminology."

[4] With respect to claim 5 which contains the language "a composition of matter comprising essentially a sulfuric acid," while it is true that the word "comprising" is usually in patent law held to be synonymous with the word "including" we think that the use of the two words "comprising essentially" should receive a different interpretation, especially in view of the above quotation from appellant's brief.

It is our opinion the combination of the two words "comprising essentially" should, under the circumstances, be held to mean as in claims 1 to 4 that the composition claimed is "free from other sulfate and sulfonic acid groups."

In the case *Pittsburgh Iron & Steel Foundries Co.* v. *Seaman-Sleeth Co.*, 236 Fed. 756, the court held that the word "essentially" in a patent claim which contained the words "comprising essentially" is not a synonym for "substantially" and when used in a patent claim means indispensably necessary; important in the highest degree.

[5] With respect to claims 6 and 7, the words used are "composed of." These claims read as follows:

> 6. Wetting, cleaning and dispersing agents composed of unsaturated alkyl sulfates, the alkyl radical consisting of a normal unsaturated aliphatic radical having more than 8 carbon atoms.
>
> 7. Wetting, cleaning and dispersing agents composed of sulfuric acid esters of higher aliphatic primary unsaturated alcohols corresponding to the oleic acid series, the sulfuric acid radical being joined by reaction only at the carbon atoms to which the hydroxyl group was bound.

Having in mind the statement in appellant's brief hereinbefore quoted, we hold that the words "composed of" should be regarded as synonymous with "consisting of."

In the case of *Hoskins Mfg. Co.* v. *General Electric Co.*, 212 Fed. 422, there was before the court the construction to be given the words "composed of," "formed of," and "comprising" in certain patent claims. The court said "Now 'formed of' and 'composed of' are the same; they both mean consisting of."

[6] While the words "composed of" may under certain circumstances be given, in patent law, a broader meaning than "consisting of," we believe

that in the case at bar, they should be held to exclude in the sulfuric acid esters and in the unsaturated alkyl sulfates claimed the presence of other sulfate and sulfonic groups; in other words, the claims should not be given a broader interpretation than the Patent Office tribunals gave to claims 1 to 4.

[7] It follows from all the foregoing that we are unable to find error in the decision appealed from, holding that appellant's application does not sufficiently support the claims. It is not enough that he disclosed the formula for the product claimed, but under the provisions of section 4888 of the Revised Statutes (U. S. C., title 35, section 33) he must file a

"written description * * * of the manner and process of * * * compounding * * * it * * * in such full, clear, concise, and exact terms as to enable any person skilled in the art * * * to * * * compound * * * the same."

For the reasons stated, we find no reversible error in the holding of the Board that none of the claims are sufficiently supported by the disclosure of appellant's application.

[8] In view of the foregoing, it is not necessary that we pass upon the second ground of rejection of the claims, viz., anticipation of the invention by the references.

However, we think it proper to observe that we cannot find that appellant's prior applications disclose the involved invention in such manner as to entitle him to resort to them in order to antedate the references.

While it is true that some of his applications and patents disclose the formula of the composition claimed, they are even more lacking than is appellant's instant application in dislosure of any process for compounding it.

Consequently we are also in accord with the decision of the Board with respect to the second ground of rejection of the claims before us.

For the reasons stated the decision appealed from is affirmed.

Affirmed.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,279,967, Alfred Boch, Stereoscopic film viewing apparatus, decided May 19, 1943, claim 9.

Pat. 2,274,554, N. B. Krim. Electrical space discharge tube, decided May 20, 1943, claims 1 and 2.

Changes in Classification

Order No. 3,728, May 28, 1943, directs:

The following changes in the classification of inventions are hereby directed to take place immediately:

IN THE MANUAL OF CLASSIFICATION

ABOLISH SUBCLASS

In *class 260, Chemistry, Carbon Compounds:*

Proteins and reaction products (Division 15)
116 Algins and reaction products (e. g., alginic acid)

CHANGE SUBCLASS TITLES

In *class 20, Wooden Buildings* (Division 33), subclass 2 should read:

Buildings
2 Portable or prefabricated

In *class 244, Aeronautics* (Division 22), subclass 137 should read:

Aircraft structure
137 Passenger and cargo loading and discharging

In *class 260, Chemistry, Carbon Compounds,* subclasses 198 and 200 should read:

Azo (Division 43)
Monoazo
Naphthylazophenyl
Naphthol
198 Aminonaphthol
200 Sulfonaphthol

ESTABLISH SUBCLASSES

In *class 20, Wooden Buildings* (Division 33):

Buildings
1.126 Bleachers and grandstands

In *class 36, Boots, Shoes, and Leggings* (Division 11):

Sole-attaching means
19.5 Cement only

In *class 64, Machine Elements, Shafting and Flexible Shaft Couplings* (Division 45):

Flexible shaft couplings
Shaft to wheel universal
22.5 Gravity maintained type

In *class 258, Railway Mail Delivery* (Division 61):

1.2 Aircraft in flight
1.4 To or from another moving vehicle and/or requiring circular aircraft flight
1.6 With projector
1.8 Load exchange

In *class 260, Chemistry, Carbon Compounds:*

Carbohydrates and derivatives (Division 15)
209.6 Algins and reaction products (e. g., alginic acid)
Carbocyclic and acyclic Hydrocarbons (Division 31)
666.5 With preservative
675.5 Cyclic terpenes (e. g., turpentine)

MISCELLANEOUS CHANGES

In *class 20, Wooden Buildings* (Division 33), subclasses 30, 31, and 32 should all be coordinate with subclass 29, and subclass 33 should be indented under subclass 32.

In *class 136, Batteries* (Division 60), page 173, subclass 109 should be indented under subclass 108.

In *class 238, Railways, Surface Track* (Division 34) page 268, subclass 326 (Rail brace) should be *336.*

IN THE DEFINITIONS

15, Brushing, Scrubbing and General Cleaning (Division 27)

in subclass 104.05, number the existing note (1) and add the following:

(2) Note.—This group of subclasses will take devices for removing material in hardened form from tubes, pipes and tubular chambers, where the device is not a built-in arrangement, and where the implement is a brush or wiper, and as to scrapers and cutters, this class will take all those in which the tool has a rotary and/or reciprocating motion together with motion along or parallel to the axis of the chamber being cleaned. Class 214, MATERIAL OR ARTICLE HANDLING, has related devices using implements of types not provided for in this class (15) and has scraper or cutter implements not having the motions provided for above, including endless belt type cutting or scraping implements. Class 214 further takes the scraper or cutter devices provided for in this group of subclasses when such devices are combined with a conveyer in addition to the scraper or cutter, but scrapers or cutters which have an incidental conveying function (e. g., reamers) will be found in this class (15). Class 214 further provides for devices designed for charging in addition to discharging material from chambers. Where the device for removing hardened material from the chamber is claimed as associated permanently with it so as not to be adapted for use on other chambers, the device has been classified on the basis of the character of the chamber. For devices and processes of this type, see, for example, classes 23, CHEMISTRY, subclass 259.2, and other appropriate subclasses; 122, LIQUID HEATERS AND VAPORIZERS, subclass 379 and indented subclasses; 196, MINERAL OILS, subclasses 69, 91, 122; 202, DISTILLATION, subclass 241; and 257, HEAT EXCHANGE, subclass 1.

20, Wooden Buildings (Division 33)

rewrite the main class definition and notes as follows:

CLASS 20.—WOODEN BUILDINGS

DEFINITIONS
Class

I. This class is the generic class for wooden buildings, the general form and arrangement of buildings and such accessories as are found in building construction generally.

II. This class has also been made the generic class for the subjects matter of the following subclasses, and those indented thereunder, regardless of the material of which the device is made:

Buildings
1.12 Auditoriums
1.126 Bleachers and grandstands
57.5 **Awnings**

(1) Note.—Closures and other panels combined with means for facilitating the passage of insects in one direction through the panel and which are intended to prevent or make difficult the re-entrance of the insects, have been placed in class 160, CLOSURES, PARTITIONS AND PANELS FLEXIBLE AND PORTABLE, subclass 12 and indented subclasses.

(2) Note.—See class 160, CLOSURES, PARTITIONS AND PANELS, FLEXIBLE AND PORTABLE, for:

(*a*) Closures and other panel units utilizing flexible sheet material or fabrics to constitute the panel portion.

(*b*) Closures and panel units made of plural strips, slats or panels interconnected with one another for relative motion (except radial blade rotating doors in class 20, subclass 18).

(*c*) Closures and panel units of either or both types (*a*) and (*b*) combined with closures or panel units of other types.

In flexible closures or panel units of the frame type, namely, those classifiable in class 160, subclass 371 and indented subclasses, where the patent discloses the alternative use of either a flexible or a rigid insert for a first frame, which insert may have its own additional second frame and which patent claims the alternative use of inserts in such first frame, or claims the inserts for such frame generically only, either per se or in combination with the first frame, the patents have been placed in class 160. Also, in the same framed type where the patent discloses as species two or more embodiments, some having flexible inserts and some having rigid inserts, the patents have been placed in class 160, (1) where the inserts are claimed generically only, or (2) where at least one specific claim to the flexible insert is present (even if the rigid insert is also claimed); but the patents have been placed in class 20, if (1) only generic claims and claims specific to the rigid insert are present, or (2) if the claims are specific only to the rigid insert; and class 160 takes them where the sole disclosure is flexible, even though the claims are not limited thereto.

Search Class—
14—BRIDGES.
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, appropriate subclasses, particularly subclass 201 and indented subclasses, for houses and kilns having means for drying and/or gas or vapor contact with solids.
72—MASONRY AND CONCRETE STRUCTURES, appropriate subclasses, particularly subclass 16 and indented subclasses, for wall mounted conduits and housings.
108—ROOFS.
109—SAFES, BANK PROTECTION AND RELATED DEVICES, subclass 2 and indented subclasses, for buildings combined with bank protection and related devices; subclass 58 and indented subclasses, for elemental structures and structural combinations such as walls, closures, etc.; and pertinent subclasses for penetration resistant structures.
128—SURGERY, subclass 372, for rigid and semi-rigid structures which are designed to expose the person within the enclosure to the sun's rays, and which include structural features only useful for that purpose.
135—TENTS, CANOPIES, UMBRELLAS, AND CANES, subclasses 1 and indented subclasses and 5 and indented subclasses.
160—CLOSURES, PARTITIONS AND PANELS, FLEXIBLE AND PORTABLE, see notes (1) and (2).
174—ELECTRICITY, CONDUCTORS AND INSULATORS, subclasses 48 and 49, for wall mounted conduits and housings limited by claimed structure to electrical use.
189—METALLIC BUILDING STRUCTURES.
193—CONVEYORS—CHUTES, SKIDS, GUIDES AND WAYS, subclasses 33 and 34, for wall chutes.
211—SUPPORTS, RACKS, subclass 87 and indented subclasses, for wall mounted racks.
217—WOODEN RECEPTACLES.
220—METALLIC RECEPTACLES, particularly subclasses 3.3 and indented subclasses and 18, for wall mounted receptacles; and subclass 24 and the notes thereto for closures in other classes.
256—FENCES.
304—SCAFFOLDS, especially subclass 10 and indented subclass, for building propped scaffolds.
311—SUPPORTS, TABLES, subclass 18 and indented subclasses, for wall mounted tables.
312—SUPPORTS, CABINET STRUCTURES, subclass 112 and indented subclasses, for wall mounted cabinets.

in subclass 1.12 add the following:

(1) Note.—Automobile drive-in theaters are here.

Search this class, subclass—
1.126—for bleacher and grandstand subcombinations.

establish the following subclass definition:

1.126. Units and subcombinations thereof not otherwise classified, which provide tiered shelves or seats for seating spectators.

(1) Note.—These devices may be covered or uncovered, they may be for either indoor or outdoor use, and are often knock-down, collapsible or portable.

Search this class, subclass—
1.12—And indented subclass where features in addition to the structure of the bleacher or grandstand and such structure as is necessary to the support or mounting thereof are claimed, for example, the provision of rooms, arena features, stage features, etc.
10—For stair structure.

Search Class—
72—MASONRY AND CONCRETE STRUCTURES, subclass 96, for stair structures.
155—CHAIRS AND SEATS, appropriate subclasses, particularly subclass 78 and indented subclasses, and subclass 130 and indented subclasses, for seat structure.
189—METALLIC BUILDING STRUCTURES, subclass 43, for stair structures.
211—SUPPORTS, RACKS, subclass 137 and indented subclasses, for terraced shelf racks.
228—LADDERS.
272—AMUSEMENT AND EXERCISING DEVICES, subclass 3 and indented subclasses, for the structure of the arena.

The patents in this subclass have been taken from classes 20, WOODEN BUILDINGS, 72, MASONRY AND CONCRETE STRUCTURES, and 189, METALLIC BUILDING STRUCTURES, various subclasses.

and in subclass 2, change the definition to read:

2. Devices under subclass 1 which are (1) specially designed to be portable in their entirety, (2) made up of specially prefabricated units, (3) made up of foldable, separable or knockdown parts.

(1) Note.—Many of the devices under (2) and (3) are adapted to be moved from location to location.

Search this class, subclass—
1.126, for portable or prefabricated bleachers and grandstands.
6 through 9, for floors.
11, for door and window frames.
15, for panels and wainscoting.
16 through 38, for doors.
40 through 56.5, for windows.
58 through 63, for shutters.
64, for thresholds.

Search Class—
135—TENTS, CANOPIES, UMBRELLAS, AND CANES, subclass 3 and indented subclass, for related tent structures.
189—METALLIC BUILDING STRUCTURES, subclass 2, for similar metallic structures.

30, Cutlery (Division 53)

main class definition, in note (4) under "See Classes", add:

62, Refrigeration, subclass 112, for cutting of ice by heat.

36, Boots, Shoes, and Leggings (Division 11)

in the definition of subclass 12, change the word "sole" to *wearsole* and add the following note:

(1) Note.—Within the meaning of the definition of this group, the term "wearsole" includes any layer which is adapted to afford a wearing surface. In the usual case, the "wearsole" will consist of only the outermost layer which contacts the walking surface, but the term may apply to a plurality of sole layers which are adapted to be used successively as wearing surfaces.;

in subclass 15, substitute *wearsole* for "outer tread-sole"; in subclass 16, in the definition, change "outer sole" to *wearsole*;

in subclass 17, cancel the definition and search notes and substitute the following:

17. Sole attaching means under subclass 12 in which the connection of the upper to the wearsole is: (1) through a welt strip connected to the upper by any means, the welt strip being attached to the wearsole by fastening means which pierces the wearsole, or (2) through an intermediate (welt) sole which is fastened to the upper by any means, which intermediate sole is attached to the wearsole by fastening means which pierces the wearsole, the upper not being directly fastened to the wearsole by such means in (1) or (2).

Search this class, subclass—

16—for out-turned uppers provided with welts.

18—for shoes of the single face stitch type in which the upper is directly fastened to the wearsole by a stitch lying on one side of the sole which may pass through a welt strip or intermediate sole.

19—for shoes of the McKay or through and through type where the connection of the upper to the wearsole is direct even though it also passes through the welt strip or intermediate sole and even though the welt strip or intermediate sole has additional separate fastening to the upper.

19.5—for structures similar to the type found in this subclass, but in which the connection between the welt or intermediate sole and wearsole is solely by means of a cement union.;

in subclass 18, in the definition, change "sole" to *wearsole*;

in subclass 19, in the definition, change the term "sole" to *wearsole*;

and establish the following subclass definition:

19.5. The wearsole is connected to the upper structure or parts secured thereto solely by means of a cement union.

Search this class, subclass—

14—for connections between the outer or wearsole and the upper structure by a union peculiar to rubber, usually vulcanization.

16—for shoes of the out-turned upper type even though the union between the upper structure and sole is a cement union.

The patents in this subclass have been taken from class 36, BOOTS, SHOES, AND LEGGINGS, subclass 12 and various indented subclasses.

44, Fuel and Igniting Devices (Division 64)

in subclass 50, note (3), last sentence, change "666 and indented subclasses" to *666.5*.

57, Textiles, Spinning, Twisting and Twining (Division 21)

subclass 64, in the definition thereof, cancel "and winding them upon a receiver".

64, Machine Elements, Shafting and Flexible Shaft Couplings (Division 45)

establish the following subclass definition:

22.5. Flexible shaft couplings under subclass 22, in which the parts of the coupling are maintained in operative engagement by the force of gravity.

(1) Note.—In most of the patents classified herein, the wheel member is a millstone mounted flexibly upon a mill spindle.

Search Class—

83—MILLS, subclasses 1, 3, 4, 7, and 17, for combinations of flexible couplings of the defined type with milling elements where the milling element is claimed significantly in the combination.

The patents in this subclass have been taken for the most part from class 83, MILLS, subclass 1.

72, Masonry and Concrete Structures (Division 33)

rewrite the main class definition as follows:

72.—MASONRY AND CONCRETE STRUCTURES

DEFINITIONS

Class

This class is intended to include all patents for masonry and concrete structures capable of application to constructions in general.

(1) Note.—While this class is the generic class for masonry and concrete structures not elsewhere classified, the pertinent classes should be searched for specific structures of masonry and concrete, including those types of structure for which class 20, WOODEN BUILDINGS, has been made the generic class regardless of the material used.

Search Class—

20—WOODEN BUILDINGS, and see note (1) supra.

61—HYDRAULIC AND EARTH ENGINEERING, subclass 16, for culverts.

109—SAFES, BANK PROTECTION AND RELATED DEVICES, especially subclass 78 and indented subclasses for wall structures, and pertinent subclasses, for penetration resistant structures.

138—PIPES AND TUBULAR CONDUITS, especially subclass 66 and indented subclass.

174—ELECTRICITY, CONDUCTORS AND INSULATORS, subclasses 48 and 49 for wall mounted conduits and housings limited by claimed structure to electrical use.

189—METALLIC BUILDING STRUCTURES, appropriate subclasses, for wall mounted conduits, particularly subclass 85 and indented subclasses, for sheet metal molding type conduits.

193—CONVEYERS—CHUTES, SKIDS, GUIDES AND WAYS, subclasses 33 and 34 for wall chutes.

211—SUPPORTS, RACKS, subclass 87 and indented subclasses, for wall mounted racks.

220—METALLIC RECEPTACLES, subclasses 3.3 and indented subclasses and 18, for wall mounted receptacles.

311—SUPPORTS, TABLES, subclass 18 and indented subclasses, for wall mounted tables.

312—SUPPORTS, CABINET STRUCTURES, subclass 112 and indented subclasses, for wall mounted cabinets.

75, Metallurgy (Division 3)

in subclass 55, in the note, and in subclass 56, note (2), change "subclass 54" to *subclasses 14 and 15*;
in note (1) of subclass 56, change "subclass 47" to *subclasses 47 and 54*;
and in subclass 57, in the note, change "23, 24, and 53" to *19, 26, and 30*.

87, Textiles, Braiding, Netting and Lace Making (Division 21)

in the definition of subclass 25, "door" should read *floor*.

102, Ammunition and Explosive Devices (Division 11)

in the definition of subclass 60, following the word "flight", first occurrence, insert *or upon impact* and substitute *indicated* for "illuminated"; in note (2) after "incendiary", insert *or destructive gas or smoke containing*;

in subclass 66, in the note, after "subclass 39 for gas cartridges;", insert *subclass 60, for shells containing incendiary or smoke generating material to indicate the path of flight or point of impact*:

in subclass 87, in the definition, following the word "flight", first occurrence, insert *or upon impact* and substitute *indicated* for "illuminated"; in note (2), after "incendiary", insert *or destructive gas or smoke containing*; and in subclass 90, note (2), cancel "and" and following "grenades;" add:

and subclass 87, for projectiles provided with incendiary or smoke generating material to indicate the path of flight or point of impact.

152, Resilient Tires and Wheels (Division 45)

in the main class definition, add the following:

(9.5) Note.—For resilient aircraft tires and wheels having fins, vanes, or other means to cause the wheel to be rotating when the wheels strike the ground, see class 244, AERONAUTICS, subclass 103.;

and in subclass 352, add the following:

Search Class—

244—AERONAUTICS, subclass 103, for aircraft tires externally shaped to cause the wheel to be rotating when the wheels strike the ground.

160, Closures, Partitions and Panels, Flexible and Portable (Division 53)

in subclass 383, in note (5) of the definition, in the reference to class 129, change "holds" to *holders*.

170, Motors—Fluid Current (Division 9)

in subclass 10, add the following:

Search Class—

244—AERONAUTICS, subclass 103, for aircraft tires and wheels having fins, vanes, or other means to cause the wheel to be rotating when the wheels strike the ground.

189, Metallic Building Structures (Division 33)

rewrite the main class definition as follows:

189.—METALLIC BUILDING STRUCTURES

DEFINITIONS

Class

This class includes metallic building structures and accessories thereto. In general only metallic structures are classified here; but in a few instances (as in subclass 40) patents disclosing wood surrounded by metal or a similar construction are included.

(1) Note.—This class does not include metallic structures elsewhere specifically classified, including those types of metallic structure for which class 20, WOODEN BUILDINGS, has been made the generic class regardless of the material used.

Search Class—

14—BRIDGES.

20—WOODEN BUILDINGS, and see note (1) supra.

34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, appropriate subclasses, particularly subclass 201 and indented subclasses for houses and kilns having means for drying and/or gas or vapor contact with solids, and subclass 237 for reticulated floors for distributing a drying medium.

72—MASONRY AND CONCRETE STRUCTURES, appropriate subclasses, particularly subclass 16 and indented subclasses, for wall mounted conduits.

108—ROOFS, especially subclasses 13 through 22, inclusive.

109—SAFES, BANK PROTECTION AND RELATED DEVICES, especially subclass 78 and indented subclasses, for wall structures and pertinent subclasses, for penetration resistant structures.

114—SHIPS.

160—CLOSURES, PARTITIONS AND PANELS, FLEXIBLE AND PORTABLE, for:
(*a*) Closures utilizing flexible material or fabrics in their panel portions;
(*b*) Closures made of plural strips, slats or panels interconnected with one another for relative motion; and
(*c*) Closures of either or both types (*a*) and (*b*) combined with closures of other types. In closures of the frame type, namely, those classifiable in class 160, subclass 371 and indented subclasses, where the patent discloses the alternative use of either a flexible or a rigid insert for a first frame, which insert may have its own additional second frame, and which patent claims the alternative use of inserts in such first frame, or claims in inserts for such frame generically only, either per se or in combination with the first frame, the patents have been placed in class 160. Also, in the same framed type where the patent discloses as a species two or more embodiments, some having flexible inserts and some having rigid inserts, the patents have been placed in class 160, (*a*) where the inserts are claimed generically only, or (*b*) where at least one specific claim to the flexible insert is present (even if the rigid insert is also claimed); but the patents have been placed in class 20, WOODEN BUILDINGS, if (*a*) only generic claims and claims specific to the rigid insert are present, or if (*b*) the claims are specific only to the rigid insert.

174—ELECTRICITY—CONDUCTORS AND INSULATORS, subclasses 48 and 49, for wall mounted conduits and housings limited by claimed electrical structure.

193—CONVEYORS—CHUTES, SKIDS, GUIDES AND WAYS, subclasses 33 and 34 for wall chutes.

211—SUPPORTS, RACKS, subclass 87 and indented subclasses, for wall mounted racks.

220—METALLIC RECEPTACLES, subclasses 3.3 and indented subclasses, and 18 for wall mounted receptacles.

256—FENCES, especially subclass 21 and indented subclass, for metallic fences.

311—SUPPORTS, TABLES, subclass 18 and indented subclasses, for wall mounted tables.

312—SUPPORTS, CABINET STRUCTURES, subclass 112 and indented subclasses, for wall mounted cabinets.

196, Mineral Oils (Division 31)

in subclass 122, note (2), cancel the period (.) at the end of the reference to class 15, BRUSHING, SCRUBBING, AND GENERAL CLEANING, and add:

or class 214, MATERIAL OR ARTICLE HANDLING, subclass 17 and other appropriate subclasses, for carbon removing devices which are not claimed as being permanently associated with the vaporizing apparatus but may be applied to other chambers.

202, Distillation (Division 25)

in subclass 241, note (3), cancel the period (.) at the end of the reference to class 15, BRUSHING, SCRUBBING, AND GENERAL CLEANING, and add:

or class 214, MATERIAL OR ARTICLE HANDLING, subclass 17 and other appropriate subclasses, for carbon removing devices which are not claimed as being permanently associated with the retort or still but may be applied to other chambers.

206, Special Receptacles and Packages (Division 27)

in subclass 0.5, under "**Search Classes**", insert:

141—WASHING APPARATUS, subclass 9, for soap containers adapted to function in the spray of a dishwashing machine.

214, Material or Article Handling (Division 4)

in subclass 17, add the following:

(1.5) Note.—See note (2) to the definition of subclass 104.05, in class 15, BRUSHING, SCRUBBING, AND GENERAL CLEANING, for the line as to devices for removing hardened material from retorts or other chambers, and for the classification where the device for removing hardened material is claimed as permanently associated with the chamber.

244, Aeronautics (Division 22)

cancel the definition and notes of subclass 137 and substitute the following:

137. Devices and arrangements designed to permit passengers or cargo to be taken aboard or removed from aircraft.

(1) Note.—This is the generic subclass for patents, not otherwise classifiable, relating to the loading or unloading of aircraft, including the mere dumping of a load from the aircraft, whether in flight or not.

Search this class, subclass—

2—and indented subclass, for means whereby an aircraft in flight may pick up or release another aircraft, including gliders, singly or in trains.

115—and indented subclass, for loading or unloading means associated with mooring devices.

135—for supplying fuel to or discharging fuel from an aircraft in flight.

136—for discharging and diffusing material in air from aircraft in flight.

138—and indented subclasses, for parachutes or other devices, either per se, or in combination with aircraft structure, for safely lowering persons, cargo, or aircraft structure to the ground.

Search Class—

89—ORDNANCE, subclass 1.5 for bomb, flare, and signal dropping.

214—MATERIAL OR ARTICLE HANDLING, for loading or unloading vehicles with materials or objects in general, and see the notes thereto for related art.

227—FIRE ESCAPES, subclass 42 and indented subclasses, for nets, et cetera, for catching bodies or objects.

258—RAILWAY MAIL DELIVERY, subclass 1.2 and indented subclasses, for means, other than mere dumping, for transferring a load to or from an aircraft in flight, and other subclasses for transferring objects to and from moving vehicles in general.

in subclass 138, add the following note:

Search this class, subclass—

137—and see the notes thereto for loading and unloading of aircraft in general when no safety lowering features are claimed.;

and in subclass 140, cancel the note.

252, Compositions (Divisions 3 and 64)

in subclass 9, under "(3) SEARCH CLASSES," in the reference to class 260, change "666 and indented subclasses" to *666.5*;

and in subclass 188.3, in note (3), insert:

44, Fuel and Igniting Devices, subclass 3.

256, Fences (Division 1)

in subclass 45, in the note, second sentence, cancel "classes 245 . . . 12, and";

and in subclass 47, note (2), cancel "classes 245 . . . 12, and".

258, Railway Mail Delivery (Division 61)

in the main class definition, add the following:

Search Class—

103—PUMPS, subclass 82, for devices particularly adapted to transfer water to a moving vehicle.

104—RAILWAYS, particularly subclass 124, for systems of transferring mail between a central station and outlying rural districts.

186—STORE SERVICE, for miscellaneous systems for transferring parcels, cash and the like within the limits of a building.

198—CONVEYERS—POWER DRIVEN, for devices for transferring material in general, including mail and the like, to endless carriers.

214—MATERIAL OR ARTICLE HANDLING, subclasses 38, 39, 42, and indented subclass, and 58 and indented subclasses, for miscellaneous devices to transfer material to and from moving vehicles; also subclasses 95 to 129, for devices to transfer material to and from vertical or inclined reciprocating elevators.

243—PNEUMATIC DISPATCH, for tube systems for transferring material in general, including mail and the like, by means of a fluid-pressure driven car.

302—CONVEYERS—FLUID CURRENT, for systems wherein material is conveyed in a loose state—that is, without the use of a supporting car or the like—by means of fluid pressure.

in subclass 1, in the definition, after "elsewhere" and before the period (.), add:

, including, for example, article or message carriers in the form of missiles, adapted to be thrown to or from a moving vehicle.

cancel notes (1) and (2);

establish the following subclass definitions:

1.2. Means under the main class definition for transferring a load to or from an aircraft in flight.

(1) Note.—Search this class, appropriate subclasses, for means under the main class definition for transferring a load to or from a moving aircraft not in flight.

Search Class—

74—MACHINE ELEMENTS AND MECHANISMS, subclass 2 and indented subclasses, for mechanisms for releasing or tripping portions of machines to cause other portions to automatically operate due to the expenditure of the potential energy possessed by such parts.

89—ORDNANCE, subclass 1.5, for bomb, flare, and signal dropping.

212—TRAVERSING HOISTS, subclass 116, for trips, stops, and knockers used in load-suspension cable hoists.

227—FIRE ESCAPES, subclass 42 and indented subclasses, for nets, etc., for catching bodies or objects.

244—AERONAUTICS, particularly subclass:

2 and indented subclass, for means whereby an aircraft in flight may pick up or release another aircraft, including gliders, singly or in trains;

135, for supplying fuel to or discharging fuel from an aircraft in flight;

136, for discharging and diffusing material in air from aircraft in flight;

137, for loading or unloading aircraft in general, including the mere dumping of a load from the aircraft whether in flight or not;

138, and indented subclasses, for parachutes or other devices either per se or in combination with aircraft structure, for safely lowering persons, cargo, or aircraft structure to the ground.

292—CLOSURE FASTENERS, subclass 332 and indented subclasses, for trippers used in closure fasteners.

294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 86 and indented subclasses, for grapples and their operating means.

1.4. Means under subclass 1.2 by which (*a*) the load transfer takes place between an aircraft and a second moving vehicle, including other aircraft, ships, railway-vehicles, etc., or (*b*) arrangements which require an aircraft in flight to maintain a substantially circular course in order to take on or discharge the load.

(1) Note.—Mere turntables for aligning a ground receiver or support with the direction of flight of the aircraft are not "moving vehicles" within the meaning of this subclass.

Search Class—

214—MATERIAL OR ARTICLE HANDLING, subclass 13, for means for transferring loads between ships at sea.

1.6. Means under subclass 1.2 having catapult or other means for throwing or projecting the load from a support to a receiver.

Search this class, subclass—

5—and indented subclasses, for means for projecting a load to or from a moving vehicle other than an aircraft in flight and see the notes thereto for related devices.

1.8. Means under subclass 1.2 by which one load is discharged from while another is picked up by the aircraft, usually either simultaneously or as a result of a substantially continuous operation.

Search this class, subclass—

11—and indented subclasses, for other load exchange devices for moving vehicles other than aircraft in flight.

The patents in these subclasses have been taken for the most part from class 244, AERONAUTICS, subclass 137, and class 258, RAILWAY MAIL DELIVERY, subclass 1.

and in subclass 3, add:

Search this class, subclass—

1—for mere missiles, i. e., article or message carriers adapted to be thrown to or from a moving vehicle.

260, Chemistry, Carbon Compounds (Divisions 6, 15, 31, 43, 50, 59, 63)

abolish the definition of subclass 116.

The patents formerly contained in this subclass have been placed in class 260, subclass 209.6, established in this order.

establish the following subclass definition:

209.6. Compounds under subclass 209 which are algins or reaction products thereof.

The patents in this subclass have been taken from class 260, subclass 116, abolished in this order.;

in subclass 236.6, note (2), change "666" to *675.5*;

in subclass 666, rewrite note (7) as follows:

(7) Note.—This subclass includes, for example, alicyclic hydrocarbons which are not terpenes, e. g., carotene and also hydrocarbons whose structural formula (as distinguished from the empirical formula) is not sufficiently known to enable their classification as aromatic, cyclic terpenes or acyclic hydrocarbons.

and establish the following subclass definitions:

666.5. Hydrocarbons under subclass 666 admixed with a preserving agent.

(1) Note.—This subclass includes, for example, polymerizable hydrocarbons, e. g., styrene and butadiene, admixed with a stabilizing or preserving agent.

Search Class—

252—COMPOSITIONS, subclass 380 and indented subclasses, particularly subclass 397 and indented subclasses, for preserving agents per se.

675.5. Hydrocarbons under subclass 666 which are terpenes having an alicyclic ring structure, e. g., camphene, pinene (turpentine) and non-resinous polymers thereof.

(1) Note.—This subclass includes, for example, processes for the preparation and purification of such terpenes.

Search this class, subclass—

80—for resinous polymerized terpenes.

677—and indented subclasses for acyclic terpenes, particularly subclass 680 and indented subclasses, for isoprene.

The patents in subclass 666.5 have been taken from class 260, subclass 666 and indented subclasses, and those in subclass 675.5 have been taken from class 260, subclass 666.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 15, 1943

[VOL. 551. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 456,482. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y. Filed Oct. 28, 1942. Under section 5b of the act of 1905 as amended in 1920.

Barrett

Applicant is the owner of Regs. No. 87,311 of July 9, 1912 and No. 87,312 of July 9, 1912, effected on the ground of actual and exclusive use as a trade-mark for 10 years next preceding Feb. 20, 1905.

FOR PITCH, TAR, RESIN, AND RUBBER COMPOUNDING MATERIAL.

Claims use since October 1937 on pitch; since May 1941 on tar; and since February 1942 on resin and rubber compounding material.

Ser. No. 459,626. LOCKPORT COTTON BATTING CO., Lockport, N. Y. Filed Apr. 5, 1943.

SANILITE

FOR COTTON BATTING OR COTTON BATTS.

Claims use since July 31, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 460,121. NASH, INC., Jersey City, N. J. Filed Apr. 23, 1943.

CABRETTA

FOR LEATHER GOODS—NAMELY, BILLFOLDS, KEY CASES, AND CHANGE PURSES.

Claims use since Jan. 1, 1943.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 458,862. FRANKLIN E. EVERSON, doing business as F. E. Everson, New York, N. Y. Filed Mar. 2, 1943.

Ad

FOR DETERGENT PREPARATION USED AS AN AID TO SOAP AND AS A WATER SOFTENER.

Claims use since June 15, 1942.

Ser. No. 460,073. THE SELIG COMPANY, Atlanta, Ga. Filed Apr. 21, 1943.

GLAMA

FOR SOAP POWDER.

Claims use since Apr. 1, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 454,104. SANDOZ CHEMICAL WORKS, INC., New York, N. Y. Filed July 8, 1942.

HYDANTAL

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF EPILEPSY AND OTHER CONVULSIVE CONDITIONS.

Claims use since June 30, 1942.

Ser. No. 458,291. THE SELIG COMPANY, Atlanta, Ga. Filed Feb. 1, 1943.

SELOPHEN

FOR DISINFECTANT, GERMICIDE, AND ANTISEPTIC SOLD IN BULK.

Claims use since Dec. 29, 1942.

Ser. No. 458,459. DR. HAIR'S ASTHMA CURE LIMITED, Staines, England. Filed Feb. 10, 1943.



The portrait is that of Dr. B. W. Hair, deceased. The signature "B. W. Hair, M. D." is disclaimed.

FOR MEDICINE FOR HUMAN USE IN THE TREATMENT OF ASTHMA.

Claims use since July 2, 1921.

Ser. No. 459,677. THE SELIG COMPANY, Atlanta, Ga. Filed Apr. 6, 1943.

ALATOL

FOR DISINFECTANT, GERMICIDE, AND ANTISEPTIC SOLD IN BULK.

Claims use since Mar. 19, 1943.

Ser. No. 459,727. COUGHMASTER COMPANY, INC., Long Island City, N. Y. Filed Apr. 9, 1943.

COUGH



MASTER

The word "Cough" is disclaimed apart from the mark.

FOR COUGH SYRUP.

Claims use since Apr. 2, 1943.

Ser. No. 459,889. REUBEN SCHWALBERG, doing business as Zoredex Laboratories, New York, N. Y. Filed Apr. 14, 1943.

ZOREDEX

FOR MEDICINAL OINTMENT PARTICULARLY ADAPTED FOR RELIEVING PSORIASIS.

Claims use since October 1942.

Ser. No. 459,890. VALDOR, INC., New York, N. Y. Filed Apr. 14, 1943.

Valdor

FOR LIPSTICKS, FACE POWDER, ROUGE, AND PERFUMES.

Claims use since June 1, 1939.

Ser. No. 459,898. C. M. ARMSTRONG, INC., New York, N. Y. Filed Apr. 15, 1943.

ARMSTRO

FOR LACTIC ACID AND LACTATES.

Claims use since Feb. 12, 1943.

Ser. No. 459,899. C. M. ARMSTRONG, INC., New York, N. Y. Filed Apr. 15, 1943.



FOR LACTIC ACID AND LACTATES.

Claims use since Feb. 12, 1943.

Ser. No. 459,910. KING MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 15, 1943.

HEADINE

FOR MEDICINAL PREPARATION USED FOR THE RELIEF OF HEADACHE, NEURALGIA, FEVER, PAIN, AND INFLUENZA.

Claims use since 1889.

Ser. No. 459,916. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Apr. 15, 1943.

Evidorm

FOR SEDATIVE AND HYPNOTIC PREPARATION.

Claims use since Apr. 5, 1943.

Ser. No. 459,928. HOUSE OF TRE-JUR, INC., New York, N. Y. Filed Apr. 16, 1943.

Nonchalant

FOR PERFUME.

Claims use since Dec. 15, 1936.

Ser. No. 459,965. NION CORPORATION, Los Angeles, Calif. Filed Apr. 17, 1943.

NIOLAX

FOR LAXATIVE IN CAPSULE FORM.

Claims use since Apr. 8, 1943.

Ser. No. 460,063. QUAKER CHEMICAL PRODUCTS CORP., Conshohocken, Pa. Filed Apr. 21, 1943.

PYR-E-PEL

FOR FIRE RETARDANT OR REPELLENT APPLIED TO TEXTILE FIBERS.

Claims use since Mar. 30, 1939.

Ser. No. 460,077. UNIT VITAMIN CORPORATION, Newark, N. J. Filed Apr. 21, 1943.

UNITRONS

FOR VITAMIN B COMPLEX TABLETS.

Claims use since Feb. 1, 1943.

Ser. No. 460,097. THE NATIONAL DRUG COMPANY, Philadelphia, Pa. Filed Apr. 22, 1943.

ALLANTOMIDE

FOR PRODUCT WHICH COMPRISES AN OINTMENT CONTAINING ALLANTOIN AND SULFANILAMIDE FOR USE IN COMBATTING AND PREVENTING INFECTION FROM PYOGENIC ORGANISMS IN COMPOUND FRACTURES, CONTAMINATED AND CLEAN SURGICAL WOUNDS, AND IN DENTISTRY, WHILE ACCELERATING RESPONSE OF THE GRANULATION TISSUES.

Claims use since July 30, 1941.

Ser. No. 460,104. AMERICAN HOME PRODUCTS CORPORATION, Jersey City, N. J. Filed Apr. 23, 1943.

PRO-VITE

FOR MEDICINAL VITAMIN AND MINERAL PREPARATIONS.

Claims use since July 27, 1939.

Ser. No. 460,130. AGNITE CORPORATION, Charlotte, N. C. Filed Apr. 24, 1943.

AGNITE

FOR CHEMICAL PRODUCT FOR THE REMOVAL OF SOOT FROM BOILERS.

Claims use since Feb. 4, 1936.

Ser. No. 460,136. COTY, INC., New York, N. Y. Filed Apr. 24, 1943.

PULSATION

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.

Claims use since Apr. 16, 1943.

Ser. No. 460,208. THE BOVININE COMPANY, Chicago, Ill. Filed Apr. 27, 1943.

ADJUMEL

FOR VITAMIN AND MINERAL SUPPLEMENT.

Claims use since Apr. 17, 1943.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 459,042. BASIC REFRACTORIES, INC., Cleveland, Ohio. Filed Mar. 12, 1943.

GUNMAG

FOR REFRACTORY CEMENT PREPARATIONS SUITABLE FOR FURNACE LINING AND REPAIRING.

Claims use since Jan. 30, 1943.

Ser. No. 459,590. WARREN H. BUCHANAN, New Orleans, La. Filed Apr. 3, 1943.

BUCK BOARD

No claim is made to the word "Board" apart from the mark.

FOR COMPOSITE BOARD MADE OF LAMINATIONS OF INSULATING FIBER BOARD AND GYPSUM BOARD.

Claims use since Feb. 9, 1943.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 458,561. JOHN D. SAWYER, doing business as Sawyer Belt Hook Company, Pawtucket, R. I. Filed Feb. 13, 1943.

SAWILCO

FOR BELT HOOKS.

Claims use since May 8, 1921.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 454,589. UNITED CHEMICAL COMPANY, INC., Kansas City, Mo. Filed July 29, 1942.

U-C-FLOR

FOR POLISH AND CLEANER FOR FLOORS AND FURNITURE.

Claims use since November 1939.

Ser. No. 455,942. ACME PAINT WORKS, INC., Denver, Colo. Filed Oct. 3, 1942.

AM-L-ITE

FOR READY-MIXED PAINTS, PAINT ENAMELS, VARNISHES, WATERPROOFING PAINTS, AND CONCRETE AND CEMENT PAINTS.
Claims use since June 13, 1941.

Ser. No. 458,095. EVANS BROS. INC., New York, N. Y. Filed Jan. 22, 1943.

CEIL-COTE

The word "Cote" is disclaimed apart from the mark.
FOR PAINTS AND KALSOMINE SOLD IN PASTE FORM.
Claims use since Jan. 1, 1939.

Ser. No. 458,708. J. F. KURFEES PAINT COMPANY, Louisville, Ky. Filed Feb. 23, 1943.

KUR-TONE

No claim is made to the word "Tone" apart from the mark.
FOR WOOD STAINS, READY-MIXED PAINTS AND SEMI-PASTE PAINTS.
Claims use since March 1928.

Ser. No. 459,128. NEWPORT INDUSTRIES, INC., Pensacola, Fla. Filed Mar. 15, 1943.

VARENE

FOR OIL SUBSTITUTE FOR PAINTS AND VARNISHES.
Claims use since Mar. 4, 1943.

Ser. No. 459,224. EUGEN HIRSCH, Brooklyn, N. Y. Filed Mar. 19, 1943.

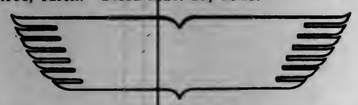
M-3

FOR RESINOUS VEHICLE FOR PAINTS AND ENAMELS.
Claims use since Jan. 28, 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 459,476. MONROE AUTO EQUIPMENT COMPANY, Monroe, Mich. Filed Mar. 29, 1943.



FOR AIRPLANE TYPE SHOCK ABSORBERS AND SHOCK ABSORBER PARTS.
Claims use since Oct. 31, 1941.

Ser. No. 459,577. CONSOLIDATED VULTEE AIRCRAFT CORP., San Diego, Calif. Filed Apr. 2, 1943.

Flying Jeep

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since Mar. 11, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 455,707. THE MAGNAVOX COMPANY, Fort Wayne, Ind. Filed Sept. 23, 1942.



No claim is made to the representation of the horn device apart from the mark.
FOR ELECTRICAL SOUND-AMPLIFYING DEVICES, LOUD-SPEAKING TELEPHONES, MARINE TELEPHONES, AIRCRAFT TELEPHONES, DESK TELEPHONES, AUDION FREQUENCY AMPLIFYING CABINETS, CONTROL BOXES FOR LOUD-SPEAKING TELEPHONES, LOUD-SPEAKING TRANSMITTERS, JUNCTION BOXES, ANTINOISE TELEPHONES, AND MASTER RINGERS FOR MARINE TELEPHONE EQUIPMENT.
Claims use since June 14, 1921.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 457,867. WHEELER, REYNOLDS & STAUFFER, San Francisco, Calif. Filed Jan. 11, 1943.

DEMON

FOR MACHINES FOR WITHDRAWING FROM A SUPPLY OF A NOXIOUS LIQUID MATERIAL, AS CARBON BISULPHIDE CONTAINED IN THE MACHINE, A CHARGE OF SAID MATERIAL AND SPRAYING SAID CHARGE INTO RODENT BURROWS.
Claims use since October 1939.

Ser. No. 458,320. WALDES KOH-I-NOOR, INC., Long Island City, N. Y. Filed Feb. 3, 1943.

TRUARC

FOR RETAINING RINGS FOR LOCKING, SECURING OR POSITIONING MOVING PARTS SUCH AS SHAFTS, GEARS, BEARINGS, AND THE LIKE.
Claims use since Oct. 1, 1942.

Ser. No. 459,533. CARDOX CORPORATION, Chicago, Ill. Filed Mar. 31, 1943.

CARDOX *Transitank*

No claim is made for "Tank" apart from the mark.
FOR MOBILE FIRE EXTINGUISHING UNITS.
Claims use since Sept. 30, 1942.

Ser. No. 459,534. CARDOX CORPORATION, Chicago, Ill. Filed Mar. 31, 1943.

Transitank

No claim is made for "Tank" apart from the mark.
FOR MOBILE FIRE EXTINGUISHING UNITS.
Claims use since Sept. 30, 1942.

Ser. No. 459,853. UNI-GUN CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 13, 1943.

UNI-GUN

The word "Gun" is disclaimed apart from the mark.
FOR GREASE COCKS, GREASERS, STUFFING BOXES CONTAINING LUBRICANT, FAT, OR GREASE AND GREASE GUNS FOR USE IN CONNECTION WITH AIRPLANES, TRACTORS, AUTOMOTIVE VEHICLES, TOOLS, MACHINES AND TECHNICAL APPLIANCES HAVING PARTS TO BE LUBRICATED, EQUIPMENT FOR LUBRICATING APPARATUS.
Claims use since Mar. 16, 1943.

Ser. No. 459,887. RAHWAY MACHINE TOOL CORPORATION, Rahway, N. J. Filed Apr. 14, 1943.

STARALOY

FOR CUTTING TOOL BITS.
Claims use since October 1942.

Ser. No. 460,117. LINCOLN ENGINEERING COMPANY, St. Louis, Mo. Filed Apr. 23, 1943.

BULLNECK

FOR LUBRICANT FITTINGS TO BE ATTACHED TO APPARATUS TO BE LUBRICATED.
Claims use since Apr. 10, 1943.

Ser. No. 460,140. THE DURO COMPANY, Dayton, Ohio. Filed Apr. 24, 1943.

DURO

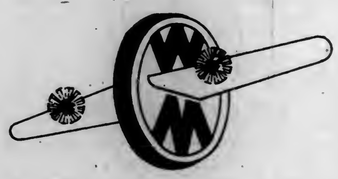
FOR PNEUMATIC PRESSURE SYSTEMS FOR PUMPING, STORING, AND SUPPLYING WATER OR OTHER FLUIDS; PUMPS AND FLUID-PRESSURE MOTORS, EXPLOSIVE ENGINES, AND PARTS THEREOF.
Claims use since Jan. 1, 1916.

Ser. No. 460,169. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Apr. 26, 1943.



FOR LENS GRINDING AND POLISHING MACHINERY, LENS EDGING MACHINERY, LENS GRINDING LAP TRUING MACHINERY, LENS DRILLING MACHINERY, AND ACCESSORIES THEREFOR.
Claims use since August 1937.

Ser. No. 460,226. THE WOLFE & MANN MANUFACTURING COMPANY, Baltimore, Md. Filed Apr. 27, 1943.



FOR AIRCRAFT SERVICING AND REPAIR PLATFORMS AND MACHINERY AND TOOLS CONNECTED THEREWITH.
Claims use since Jan. 20, 1943.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 458,722. BELL WATCH COMPANY, New York, N. Y. Filed Feb. 24, 1943.

FREE-BELL



No claim is made to the word "Guarantee" apart from the mark.
FOR WATCHES.
Claims use since Jan. 4, 1943.

Ser. No. 459,566. HOROWITZ & SON, INC., New York, N. Y. Filed Apr. 1, 1943.

DOLPHIN

FOR WATCHES.
Claims use since Mar. 10, 1943.

Ser. No. 459,567. HOROWITZ & SON, INC., New York, N. Y. Filed Apr. 1, 1943.

WATERMATIC

FOR WATCHES.
Claims use since Mar. 10, 1943.

Ser. No. 459,660. HARVEL WATCH COMPANY, New York, N. Y. Filed Apr. 6, 1943.

DATE-O-GRAPH

FOR WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF.
Claims use since July 1941.

Ser. No. 459,663. HARVEL WATCH COMPANY, New York, N. Y. Filed Apr. 6, 1943.

MISS PATRIOT

FOR WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF.
Claims use since April 1942.

Ser. No. 459,664. HARVEL WATCH COMPANY, New York, N. Y. Filed Apr. 6, 1943.

SEA HORSE

FOR WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF.
Claims use since April 1942.

Ser. No. 459,665. HARVEL WATCH COMPANY, New York, N. Y. Filed Apr. 6, 1943.

SELF-OMATIC

FOR WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF.
Claims use since July 1941.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 457,373. BORIS SELWYN, doing business as Diamond Importing Company, Los Angeles, Calif. Filed Dec. 12, 1942.

DICO

FOR JEWELRY, AND SPECIFICALLY FOR RINGS, BROOCHES, PINS, EAR CLIPS, NECKLACES, AND BRACELETS, NOT INCLUDING WATCHES.
Claims use since Nov. 16, 1942.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 443,603. THE HAEGER POTTERIES, INCORPORATED, Dundee, Ill. Filed May 15, 1941.



Applicant disclaims the words "Haeger" and "Hickman" apart from the mark.
FOR VASES, BOWLS, FLOWER POTS, CONSOLE SETS, AND NOVELTY PLANT OR FLOWER HOLDERS MADE OF EARTHENWARE AND PORCELAIN.
Claims use since August 1939.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 460,093. ESTEE BEDDING COMPANY, Chicago, Ill. Filed Apr. 22, 1943.



FOR MATTRESSES AND BOX SPRINGS.
Claims use since Jan. 22, 1943.

CLASS 37

PAPER AND STATIONERY

Ser. No. 457,443. MILLER ART COMPANY, INC., Brooklyn, N. Y. Filed Dec. 16, 1942.

V---GREET-O-GRAM

The word "Greet" is disclaimed apart from the mark.
FOR GREETING AND MESSAGE SHEETS.
Claims use since Nov. 15, 1942.

Ser. No. 458,011. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 19, 1943.

PLIOCOTE

FOR COATED SHEET MATERIAL—NAMELY, PAPER, PARCHMENT, AND CELLOPHANE FOR WRAPPING, PACKAGING, AND COVERING.
Claims use since Dec. 15, 1942.

Ser. No. 458,499. MILTON M. ROCKMORE, New York, N. Y. Filed Feb. 12, 1943.

"PHONE-SAVERS"

FOR PAPER FOLDERS CONTAINING ENVELOPES AND PLAIN POSTAL CARDS.
Claims use since Dec. 1, 1942.

Ser. No. 458,500. UNITED AUTOGRAPHIC REGISTER CO., Chicago, Ill. Filed Feb. 12, 1943.

UARCO

FOR AUTOGRAPHIC REGISTERS AND AUTOGRAPHIC REGISTERS WITH ATTACHED CASH RECEPTACLES.
Claims use since Oct. 22, 1937.

Ser. No. 459,609. ARTHUR G. VERDOLYACK, Minneapolis, Minn. Filed Apr. 3, 1943.

SOLAREUM

FOR PAPER SHEETING.
Claims use since Sept. 15, 1928.

Ser. No. 459,701. DITTO, INCORPORATED, Chicago, Ill. Filed Apr. 8, 1943.

DUO-RUN

FOR PAPER FOR DUPLICATING USE.
Claims use since Feb. 24, 1943.

Ser. No. 459,728. CURTIS 1000 INCORPORATED, St. Paul, Minn. Filed Apr. 9, 1943.

Visulope

FOR TRANSPARENT PROTECTING ENVELOPES.
Claims use since Mar. 19, 1943.

CLASS 39

CLOTHING

Ser. No. 454,481. CHESTER H. ROTH CO., INC., New York, N. Y. Filed July 24, 1942.

JEEP SOX

No claim is made to the word "Sox" apart from the mark.
FOR HOSIERY FOR MEN, WOMEN, AND CHILDREN.
Claims use since Apr. 27, 1942.

Ser. No. 457,966. NAT R. BRAVERMAN, New York, N. Y. Filed Jan. 18, 1943.



The word "Mademoiselle" is disclaimed apart from the mark. The picture is fanciful.
FOR SWEATERS.
Claims use since March 1932.

Ser. No. 459,636. ROSENTHAL & KALMAN, New York, N. Y. Filed Apr. 5, 1943.



The word "Originals" is disclaimed apart from the mark.
FOR JUNIOR MISSES' AND LADIES' DRESSES, COATS, SUITS, SKIRTS, BLOUSES, AND JACKETS.
Claims use since July 1932.

Ser. No. 459,645. THE UNITEX MANUFACTURING CO., Tiffin, Ohio. Filed Apr. 5, 1943.

Chate O'Tex

FOR LADIES' UNDERWEAR.
Claims use since May 1, 1942.

Ser. No. 459,658. GLENSDER TEXTILE CO., New York, N. Y. Filed Apr. 6, 1943.

Dew-Mist

FOR WOMEN'S SCARFS.
Claims use since Feb. 1, 1943.

Ser. No. 459,659. GLENSDER TEXTILE CO., New York, N. Y. Filed Apr. 6, 1943.

Jewel-Mist

FOR WOMEN'S SCARFS.
Claims use since Feb. 1, 1943.

Ser. No. 459,708. THE UNITEX MANUFACTURING CO., Tiffin, Ohio. Filed Apr. 8, 1943.

Unitex

FOR LADIES' UNDERWEAR.
Claims use since Apr. 1, 1930, for the word "Unitex"; and since Sept. 1, 1937, for the design.

Ser. No. 459,835. LOUIS HELLER, New York, N. Y. Filed Apr. 13, 1943.

Louella

FOR LADIES' COATS, LADIES' SUITS.
Claims use since Sept. 12, 1940.

Ser. No. 459,884. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Apr. 14, 1943.

CRAWLABOUT

FOR INFANTS' PLAY AND SUN SUITS.
Claims use since Feb. 24, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 458,903. JOSEPH BERLINGER CO., New York, N. Y. Filed Mar. 5, 1943.

4-0 FINISH

The word "Finish" is disclaimed apart from the mark.
FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.
Claims use since Feb. 10, 1943.

Ser. No. 458,904. JOSEPH BERLINGER CO., New York, N. Y. Filed Mar. 5, 1943.

FORO FINISH

The word "Finish" is disclaimed apart from the mark.
FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.
Claims use since Feb. 10, 1943.

Ser. No. 458,968. PEDIGREE FABRICS INC., New York, N. Y. Filed Mar. 8, 1943.

PEDICHARM

FOR RAYON FABRICS IN THE PIECE CONSISTING OF CREPES.
Claims use since September 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 447,589. GRAYLAND CRANBERRY GROWERS ASSOCIATION, INC., Grayland, Wash. Filed Oct. 7, 1941.

MIST-KIST

Applicant is the owner of registration No. 177,093.
FOR FRESH CRANBERRIES AND STRAINED CRANBERRY SAUCE.
Claims use since Sept. 28, 1922.

Ser. No. 451,329. ULTRA-LIFE LABORATORIES, INC., East St. Louis, Ill. Filed Feb. 28, 1942.

MARKITOP

FOR STOCK FEEDS—NAMELY, HOG CONCENTRATE, DAIRY FEED, CALF GROWING RATION, AND DAIRY CONCENTRATE.
Claims use since Jan. 19, 1942.

Ser. No. 458,720. EDWARD BARBERA, Lodi, Calif. Filed Feb. 24, 1943.

O Sole Mio

FOR FRESH GRAPES.
Claims use since August 1928.

Ser. No. 458,802. SAMUEL DRILLMAN, doing business under the name of Empire City Flour Co., Brooklyn, N. Y. Filed Feb. 26, 1943.

STRONG FOX

FOR PACKAGED AND SACKED WHEAT FLOUR.
Claims use since Sept. 20, 1926.

Ser. No. 458,959. DAY & YOUNG, Santa Clara, Calif. Filed Mar. 8, 1943.





FOR FRESH PEARS.
Claims use since Dec. 1, 1942.

Ser. No. 459,071. DOUGHBOY MILLS, INC., New Richmond, Wis. Filed Mar. 13, 1943.

TUFFY

FOR DOG FOOD.
Claims use since June 10, 1942.

Ser. No. 459,824. THE CROCKER-SPRAGUE CO., Dunkirk, N. Y. Filed Apr. 13, 1943.

AUNT LETTIE

FOR CANNED VEGETABLES AND TOMATO JUICE.
Claims use since Mar. 7, 1941.

Ser. No. 459,849. THOMAS T. PRIESTLEY, doing business as New-Way Foods, Pasadena, Calif. Filed Apr. 13, 1943.

POWER-PLUS
The Breakfast Food With a Ten o'Clock Bonus



The words "The Breakfast Food With a Ten O'Clock Bonus" and "For Power and Stamina" are disclaimed apart from the mark. The representation of the man is fanciful.
FOR GRAIN CEREAL BREAKFAST FOOD.
Claims use since Apr. 6, 1943.

Ser. No. 459,891. WARNER & STEWART, Yuma, Ariz. Filed Apr. 14, 1943.

FRONT LINE

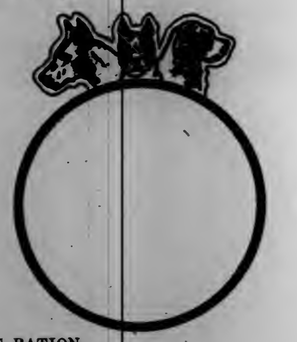
FOR FRESH VEGETABLES AND MELONS.
Claims use since June 1942.

Ser. No. 459,892. WARNER & STEWART, Yuma, Ariz. Filed Apr. 14, 1943.



FOR FRESH VEGETABLES AND MELONS.
Claims use since March 1938.

Ser. No. 460,000. KASCO MILLS, INC., Toledo, Ohio. Filed Apr. 19, 1943.



FOR DOG RATION.
Claims use since June 1936.

Ser. No. 460,142. FAIR PLAY CARAMELS, INC., Johnson City, N. Y. Filed Apr. 24, 1943.

KITS

FOR CANDY.
Claims use since Mar. 14, 1938.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 451,663. LUNEX CORP., Davenport, Iowa. Filed Mar. 16, 1942.

LUMANIZE

FOR WOVEN OR OTHER FABRIC IN STRIPS OR SHEETS COATED WITH A LUMINOUS COMPOSITION.
Claims use since December 1937.

Ser. No. 456,105. PIERCE PLASTICS, INC., Bay City, Mich. Filed Oct. 9, 1942.

PERFLEX

FOR FLEXIBLE ROD, TAPE, AND TUBULAR HOSE MADE IN WHOLE OR IN PART OF SYNTHETIC ORGANIC PLASTICS.
Claims use since Oct. 24, 1940, on rod and tape; and since July 8, 1942, on tubing.

Ser. No. 459,729. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Apr. 9, 1943.

DIRECTORITE

FOR LITHOGRAPHIC PLATE HAVING A PAPER BACKING AND AN ALUMINUM FOIL LITHOGRAPHIC SURFACE USED FOR DIRECT IMAGE WORK.
Claims use since Nov. 20, 1940.

Ser. No. 459,735. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed Apr. 9, 1943.

PHOTORITE

FOR ZINC PLATE USED IN LITHOGRAPHY.
Claims use since Nov. 20, 1940.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 15, 1943

401,838. PACKAGING AND BOTTLING EQUIPMENT. PNEUMATIC SCALE CORPORATION, LIMITED, Norfolk Downs, Mass.
Filed October 14, 1938. Serial No. 411,613. PUBLISHED MARCH 23, 1943. Class 23.

401,839. INTERNAL COMBUSTION ENGINE CARBURETORS. CARTER CARBURETOR CORPORATION, St. Louis, Mo.
Filed July 15, 1939. Serial No. 421,597. PUBLISHED MARCH 30, 1943. Class 23.

401,840. PREPARATION FOR USE AS AN AID IN ALLEVIATING THE DISCOMFORTS OF CERTAIN TYPES OF RHEUMATIC PAINS DUE TO EXPOSURE OR COLD. ZENOBIA ROSALAK, New York, N. Y.
Filed January 20, 1940. Serial No. 427,918. PUBLISHED APRIL 6, 1943. Class 6.

401,841. GRAPE BEVERAGES AND CONCENTRATES FOR MAKING THE SAME. BIRELEY'S, INC., Hollywood, Calif.
Filed April 4, 1940. Serial No. 430,375. PUBLISHED APRIL 6, 1943. Class 45.

401,842. PUMPS, SPECIFICALLY MOTOR DRIVEN AND BELT DRIVEN CENTRIFUGAL PUMPS. THE RUTHMAN MACHINERY COMPANY, Cincinnati, Ohio.
Filed June 25, 1940. Serial No. 433,362. PUBLISHED MARCH 23, 1943. Class 23.

401,843. AUGER BIT EXTENSIONS. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio.
Filed August 6, 1940. Serial No. 434,722. PUBLISHED APRIL 6, 1943. Class 23.

401,844. WALLBOARD. THE UPSON COMPANY, Lockport, N. Y.
Filed June 11, 1941. Serial No. 444,423. PUBLISHED APRIL 6, 1943. Class 12.

401,845. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed July 16, 1941. Serial No. 445,390. PUBLISHED APRIL 6, 1943. Class 6.

401,846. PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed July 16, 1941. Serial No. 445,391. PUBLISHED APRIL 6, 1943. Class 6.

401,847. BREAD. MATHIAS KLEITSCH, doing business as Kleitsch Bakery, Detroit, Mich.
Filed August 15, 1941. Serial No. 446,274. PUBLISHED APRIL 6, 1943. Class 46.

401,848. WRITING PAPER, DRAWING PAPER, PENCIL PAPER, WRITING TABLETS, DRAWING TABLETS, PENCIL TABLETS, SPELLING TABLETS, BLANK BOOKS, ENVELOPES, LOOSE-LEAF FILLERS AND BINDERS, BLANK BOOKS IN THE NATURE OF COMPOSITION BOOKS FOR SCHOOL USE, TABLETS, FILLERS AND CORRESPONDENCE TABLETS. WESTERN PAPER CONVERTING COMPANY, Salem, Oreg.
Filed September 23, 1941. Serial No. 447,280. PUBLISHED APRIL 6, 1943. Class 37.

401,849. FACIAL TISSUE, TOILET TISSUE, PAPER NAPKINS, AND PAPER TOWELS. ASHLAND PAPER MILLS, INC., Ashland, N. H.
Filed November 5, 1941. Serial No. 448,404. PUBLISHED APRIL 6, 1943. Class 37.

401,850. HOUSING-LIKE DEVICES OR ENCLOSURES FOR EXPOSING POISONOUS OR ENTRAPPING SUBSTANCES TO VERMIN AND INSECTS AND FOR TRAPPING VERMIN AND INSECTS INTERNALLY THEREOF. THE ODOSIN CORPORATION, New York, N. Y.
Filed December 19, 1941. Serial No. 449,626. PUBLISHED APRIL 6, 1943. Class 50.

401,851. REFRIGERATION COMPRESSORS AND REFRIGERATION CONDENSING UNITS. REMINGTON AIR CONDITIONING COMPANY, INC., New York, N. Y.
Filed December 22, 1941. Serial No. 449,701. PUBLISHED APRIL 6, 1943. Class 31.

401,852. METAL GAUGES—NAMELY, FLAT GAUGES, PLUG GAUGES, AND RING GAUGES. TURNER GAUGE GRINDING COMPANY, Ferndale, Mich.
Filed January 2, 1942. Serial No. 449,972. PUBLISHED APRIL 6, 1943. Class 26.

401,853. FLOUR—NAMELY, WHEAT FLOUR. GENERAL MILLS, INC., Minneapolis, Minn.
Filed January 5, 1942. Serial No. 449,990. PUBLISHED APRIL 6, 1943. Class 46.

401,854. MINE ROCK DUST DISTRIBUTORS, MINE FIRE TRUCKS, LIMESTONE PULVERIZERS, OXYGEN PUMPS, ETC. MINE SAFETY APPLIANCES COMPANY, Pittsburgh, Pa.
Filed January 16, 1942. Serial No. 450,264. PUBLISHED MARCH 30, 1943. Class 23.

401,855. COTTON BATTING OR COTTON BATTS. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed February 19, 1942. Serial No. 451,085. PUBLISHED APRIL 6, 1943. Class 1.

401,856. PIECE GOODS—NAMELY, WOOLEN, WORSTED, AND MOHAIR SUITINGS. WAWAK COMPANY, INC., Chicago, Ill.
Filed February 20, 1942. Serial No. 451,128. PUBLISHED MAY 19, 1942. Class 42.

401,857. COOLING TOWERS USED FOR COOLING JACKET LIQUID AND OIL FOR INTERNAL COMBUSTION ENGINES, FOR COOLING NATURAL GAS, FOR CONDENSING AND SIMILAR PURPOSES. YOUNG RADIATOR COMPANY, Racine, Wis.
Filed February 27, 1942. Serial No. 451,280. PUBLISHED APRIL 6, 1943. Class 34.

401,858. FARM BUILDINGS FOR HOUSING COWS, HORSES, HOGS, SHEEP, AND POULTRY, AND FOR STUDS, SHEATHING, METAL WINDOWS AND DOORS FOR FARM BUILDINGS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed April 20, 1942. Serial No. 452,448. PUBLISHED APRIL 6, 1943. Class 12.

401,859. METAL ARTICLES—NAMELY, LOCKETS, CROSSES, BRACELETS, WRIST WATCH BANDS, WATCH AND KEY CHAINS, BROOCH PINS, TIE HOLDERS, NECK CHAINS, COLLAR PINS, ALL MADE OF PRECIOUS METAL OR PLATED WITH PRECIOUS METAL. H. SEGAL, New York, N. Y.
Filed May 30, 1942. Serial No. 453,390. PUBLISHED APRIL 6, 1943. Class 28.

401,860. WETTING AGENT, EMULSIFIER, FATTY ALBUMIN ACID, AND ANIMAL PROTEIN EXTRACTION PRODUCT, THE LATTER BEING A SURFACE-ACTIVE AGENT, A SPLIT-OFF DERIVATIVE OF ALBUMEN OF THE LYSALBINIC AND PROTALBINIC ACID TYPES, CONDENSED WITH FATTY ACID CHLORIDES. CHEMICAL MARKETING COMPANY, INCORPORATED, New York, N. Y.
Filed June 12, 1942. Serial No. 453,615. PUBLISHED APRIL 6, 1943. Class 6.

401,861. FIXTURES OF ALL TYPES—NAMELY, FIXTURES FOR CHECKING THE SHAPE AND CONTOUR OF DIES, JIGS, TOOLS, FIXTURES, ETC., FORMING, ASSEMBLING, DRILLING, WELDING, AND SPOTTING FIXTURES. CASTALOY CORPORATION, Detroit, Mich.
Filed June 13, 1942. Serial No. 453,633. PUBLISHED MARCH 30, 1943. Class 23.

401,862. MISCELLANEOUS ELECTRIC INSULATOR BODIES MADE OF GLASS TO SUIT SPECIALIZED REQUIREMENTS; UNFINISHED GLASS BULBS FOR FABRICATION INTO ELECTRIC LAMPS; AND SEALING GLASS FOR GLASS-TO-METAL SEALS FOR ELECTRICAL PURPOSES. CORNING GLASS WORKS, Corning, N. Y.
Filed June 17, 1942. Serial No. 453,711. PUBLISHED OCTOBER 13, 1942. Class 21.

401,863. AUTOMOBILE GAS ENGINE FUEL MIXING DEVICE. WALTER HOWEY, doing business as International Research Laboratory, New York, N. Y.
Filed June 22, 1942. Serial No. 453,801. PUBLISHED MARCH 23, 1943. Class 23.

401,864. FACE POWDER, LIPSTICK, COMPACT ROUGE AND CREAM ROUGE. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed July 15, 1942. Serial No. 454,233. PUBLISHED SEPTEMBER 1, 1942. Class 6.

401,865. LUBRICANT FOR APPLICATION ON PROPHYLACTIC RUBBER ARTICLES. OSCAR HAYES, doing business as Atlas Laboratories, Akron, Ohio.
Filed July 21, 1942. Serial No. 454,369. PUBLISHED APRIL 6, 1943. Class 6.

401,866. MEDICATIVE OINTMENT FOR EXTERNAL AND ORIFICIAL APPLICATION SUCH AS EXTERNAL SORES AND INFLAMED PASSAGES OF THE NOSE, URETHRA AND THE LIKE. OSCAR HAYES, doing business as Hayes Laboratories, Akron, Ohio.
Filed July 21, 1942. Serial No. 454,370. PUBLISHED APRIL 6, 1943. Class 6.

401,867. KITS OR PACKAGES CONTAINING PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES AND A TUBE OF LUBRICANT THEREFOR. OSCAR HAYES, doing business as Atlas Laboratories, Akron, Ohio.
Filed July 21, 1942. Serial No. 454,372. PUBLISHED APRIL 6, 1943. Class 44.

401,868. MEN'S AND WOMEN'S JUTE OR HEMP SOLED FABRIC SHOES. S. A. FABRICA ARGENTINA DE ALPARGATAS, Buenos Aires, Argentina.
Filed July 23, 1942. Serial No. 454,464. PUBLISHED MARCH 30, 1943. Class 39.

401,869. WEATHERPROOF SOLID FIBRE BOARD PACKING BOXES. FREDERICK G. BECKER, INC., Chicago, Ill.
Filed July 24, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 454,473. PUBLISHED APRIL 6, 1943. Class 2.

401,870. COSMETICS—NAMELY, LIPSTICK, ROUGE, FACE POWDER, MASCARA, ROUGE AND POWDER COMPACTS, LEG COATING LIQUID. NORMAN F. DAHL, Toronto, Ontario, Canada, assignor to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware.
Filed August 3, 1942. Serial No. 454,686. PUBLISHED APRIL 6, 1943. Class 6.

401,871. GAME PLAYED WITH A GAME BOARD AND MOVABLE PIECES. WILSON & ROSS, Salinas, Calif.
Filed August 3, 1942. Serial No. 454,707. PUBLISHED APRIL 6, 1943. Class 22.

401,872. WRITING-PAPER, SUPERFINE WRITING-PAPER, LEDGER-PAPER, BOND WRITING-PAPER, CORRESPONDENCE ENVELOPES, WRITING-PADS, INDEX BRISTOL, PRINTING BRISTOL, COVER PAPERS, PRINTING PAPERS, SAFETY PAPERS, REPRODUCTION PAPERS, AND BOOKKEEPING PAPERS. HAMMERMILL PAPER COMPANY, Erie, Pa.
Filed August 17, 1942. Serial No. 454,946. PUBLISHED APRIL 6, 1943. Class 37.

401,873. WINDOW CURTAINS. TRIO CURTAIN CORPORATION, New York, N. Y.
Filed August 17, 1942. Serial No. 454,956. PUBLISHED MARCH 2, 1943. Class 42.

401,874. JIG-SAW PUZZLE GAMES. GRAPHICUT CORPORATION, New York, N. Y.
Filed September 11, 1942. Serial No. 455,477. PUBLISHED APRIL 6, 1943. Class 22.

401,875. TACKLE BLOCKS AND PARTS THEREOF. STEEL PRODUCTS CORPORATION, South Windham, Maine.
Filed September 26, 1942. Serial No. 455,807. PUBLISHED MARCH 23, 1943. Class 23.

401,876. PIECE GOODS OF WOOLEN, RAYON, AND/OR SILK, AND MIXTURES THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed October 9, 1942. Serial No. 456,097. PUBLISHED MARCH 16, 1943. Class 42.

401,877. PIECE GOODS OF COTTON, RAYON, AND MIXTURES THEREOF FOR SHIRTS, SLACKS, TROUSERS AND SPORTSWEAR. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., and New York, N. Y.
Filed October 14, 1942. Serial No. 456,197. PUBLISHED MARCH 16, 1943. Class 42.

401,878. TOILET WATER, COLOGNE, AND TALCUM POWDER. ALFRED D. MCKELVY COMPANY, New York, N. Y.
Filed October 22, 1942. Serial No. 456,342. PUBLISHED JANUARY 5, 1943. Class 6.

401,879. WATCHES, PARTS THEREOF, WATCH MOVEMENT AND CLOCKS. EMIL VON BURG, doing business as American Grana Watch Company, New York, N. Y.
Filed October 22, 1942. Serial No. 456,350. PUBLISHED APRIL 6, 1943. Class 27.

401,880. TEXTILE FABRICS IN THE PIECE OF RAYON YARNS, ETC. HEGO FABRICS, INC., New York, N. Y.
Filed October 30, 1942. Serial No. 456,533. PUBLISHED JANUARY 5, 1943. Class 42.

401,881. GLASS FLOATS FOR AUTOMATIC VALVES. KIMBLE GLASS COMPANY, Vineland, N. J., and Chicago Heights, Ill.
Filed November 2, 1942. Serial No. 456,605. PUBLISHED APRIL 6, 1943. Class 33.

401,882. NECKLACES, BRACELETS (NOT INCLUDING WATCHES), FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, AND LOCKETS, ALL MADE OF PRECIOUS METAL, ETC. KANTOR NOVELTY, INC., New York, N. Y.
Filed November 9, 1942. Serial No. 456,717. PUBLISHED APRIL 6, 1943. Class 28.

401,883. ANDIRONS. EDWIN JACKSON, INC., New York, N. Y.
Filed November 14, 1942. Serial No. 456,826. PUBLISHED APRIL 6, 1943. Class 13.

401,884. SCREENS—NAMELY, SCREENS FOR USE IN DE-WATERING, DRYING, AND SIZING COAL AND GRAVEL AND FOR LIKE PURPOSES. BIXBY-ZIMMER ENGINEERING CO., Galesburg, Ill.
Filed November 16, 1942. Serial No. 456,841. PUBLISHED APRIL 6, 1943. Class 23.

401,885. WOMEN'S WEARING APPAREL—NAMELY, HATS, DRESSES, AND GLOVES MADE OF LEATHER OR FABRIC. ZINAIDA HARPIGNIES, New York, N. Y.
Filed November 21, 1942. Serial No. 456,953. PUBLISHED MARCH 30, 1943. Class 39.

401,886. IDENTIFICATION CARDS—NAMELY, INDEX AND IDENTIFICATION CARDS FOR USE ON PRINTING DEVICE FRAMES AND ON TABS FOR PRINTING DEVICE FRAMES, AND AS MARKERS FOR INDICATING POSITIONS IN FILES AND THE LIKE. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio.
Filed November 26, 1942. Serial No. 457,059. PUBLISHED APRIL 6, 1943. Class 37.

401,887. PIECE GOODS OF COTTON, RAYON, SILK, WOOL MATERIALS, AND ANY COMBINATION OF SAME, IN THE GRAY, FINISHED, PROCESSED, AND DYED. LESEM BACH & CO. INCORPORATED, New York, N. Y.
Filed December 11, 1942. Serial No. 457,339. PUBLISHED MARCH 2, 1943. Class 42.

401,888. BOOTS, SHOES, PUMPS, SLIPPERS, AND SANDALS MADE OF LEATHER, FABRIC, AND/OR PLASTIC MATERIALS. M. J. SAKS SHOE CORP., New York, N. Y.
Filed December 12, 1942. Serial No. 457,371. PUBLISHED MARCH 30, 1943. Class 39.

401,889. PIECE GOODS OF COTTON, RAYON, AND/OR SILK AND MIXTURES THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed December 14, 1942. Serial No. 457,382. PUBLISHED FEBRUARY 23, 1943. Class 42.

401,890. LADIES' TRIMMED HATS. JOHN LUCURELL, Seattle, Wash.
Filed December 14, 1942. Serial No. 457,394. PUBLISHED MARCH 30, 1943. Class 39.

401,891. RAYON PIECE GOODS. WM. F. FRETZ & SON, Doylestown, Pa., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey.
Filed December 15, 1942. Serial No. 457,415. PUBLISHED MARCH 16, 1943. Class 42.

401,892. RAYON PIECE GOODS. WM. F. FRETZ & SON, Doylestown, Pa., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey.
Filed December 15, 1942. Serial No. 457,416. PUBLISHED MARCH 16, 1943. Class 42.

401,893. CUTLERY—NAMELY, POCKET KNIVES, KITCHEN KNIVES, TABLE KNIVES OF BASE METAL, SCISSORS, RAZORS, AND RAZOR BLADES. EDWARD WECK & COMPANY, INC., Brooklyn, N. Y.
Filed December 15, 1942. Serial No. 457,428. PUBLISHED MARCH 16, 1943. Class 23.

401,894. PIECE GOODS OF RAYON, WOOL, COTTON, SILK MATERIALS, AND ANY COMBINATION OF SAME, IN THE GRAY, FINISHED, PROCESSED, DYED, AND MANUFACTURED. LESEM BACH & CO. INCORPORATED, New York, N. Y.
Filed December 17, 1942. Serial No. 457,474. PUBLISHED MARCH 16, 1943. Class 42.

401,895. NARROW FABRICS—NAMELY, COTTON AND LINEN TAPE, BRAIDS AND WEBBING; WOOL BRAID; AND ELASTIC WEBBING. J. S. MASON & SONS, INC., Westboro, Mass.
Filed December 18, 1942. Serial No. 457,500. PUBLISHED MARCH 30, 1943. Class 40.

401,896. YEAST. NORTHWESTERN YEAST COMPANY, Chicago, Ill.
Filed December 19, 1942. Serial No. 457,528. PUBLISHED APRIL 6, 1943. Class 46.

401,897. WOMEN'S AND CHILDREN'S HATS, BERETS, AND TAM-O-SHANTERS. MILTON BRODKIN, New York, N. Y.
Filed December 31, 1942. Serial No. 457,673. PUBLISHED MARCH 30, 1943. Class 39.

401,898. WHEAT FLOUR. CHARLES BANKS STOUT, Memphis, Tenn.
Filed December 31, 1942. Serial No. 457,690. PUBLISHED APRIL 6, 1943. Class 46.

401,899. WOOLEN PIECE GOODS. BOTANY WORSTED MILLS, Passaic, N. J.
Filed January 1, 1943. Serial No. 457,697. PUBLISHED FEBRUARY 23, 1943. Class 42.

401,900. VITAMIN B COMPLEX IN FORM OF TABLETS, SYRUP DROPS, AND CAPSULES. LIBERTY VITAMIN CORPORATION, New York, N. Y.
Filed January 5, 1943. Serial No. 457,763. PUBLISHED APRIL 6, 1943. Class 6.

401,901. SCATTER AND NOVELTY RUGS. PURITAN RUG CO., New York, N. Y.
Filed January 6, 1943. Serial No. 457,778. PUBLISHED MARCH 30, 1943. Class 42.

401,902. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. GENERAL SHOE CORPORATION, Nashville, Tenn.
Filed January 8, 1943. Serial No. 457,809. PUBLISHED MARCH 30, 1943. Class 39.

401,903. CARD INDEXES, CARDS AND FORMS FOR INDEXES, LOOSE LEAF BOOKS, PAPER CLIPS, BOX FILES, GUMMED PAPER STRIPS, ETC. CUSHMAN & DENISON MANUFACTURING COMPANY, INC., New York, N. Y.
Filed January 9, 1943. Serial No. 457,823. PUBLISHED APRIL 6, 1943. Class 37.

401,904. CHEMICAL COMPOUNDS AND COMPOSITIONS FOR USE IN ANODIZING METALS, BOTH IN DRY FORM AND IN THE FORM OF AQUEOUS SOLUTIONS. UNITED CHROMIUM, INCORPORATED, New York, N. Y.
Filed January 19, 1943. Serial No. 458,025. PUBLISHED APRIL 6, 1943. Class 6.

401,905. SHAVING PREPARATION IN STICK FORM TO BE USED AS A SUBSTITUTE FOR SHAVING SOAP OR SHAVING CREAM. FREDERICK C. MANHECK, doing business as The Frederick Charles Company, Union, N. J.
Filed January 20, 1943. Serial No. 458,042. PUBLISHED APRIL 6, 1943. Class 4.

401,906. FINGER RINGS AND FINGER RING GUARDS. STRONGHOLD JEWELRY CO., New York, N. Y.
Filed January 21, 1943. Serial No. 458,084. PUBLISHED APRIL 6, 1943. Class 28.

401,907. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ETC. COTY, INC., New York, N. Y.
Filed January 22, 1943. Serial No. 458,091. PUBLISHED APRIL 6, 1943. Class 6.

401,908. CIGARS. H. N. HEUSNER & SON, INC., Hanover, Pa.
Filed January 22, 1943. Serial No. 458,098. PUBLISHED APRIL 6, 1943. Class 17.

401,909. TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS, AND STRIPS. HOYLAND STEEL COMPANY, INCORPORATED, New York, N. Y.
Filed January 22, 1943. Serial No. 458,099. PUBLISHED APRIL 6, 1943. Class 14.

401,910. WALL PAPER. UNITED WALL PAPER FACTORIES, INC., Chicago, Ill.
Filed January 22, 1943. Serial No. 458,108. PUBLISHED APRIL 6, 1943. Class 37.

401,911. POWER LAWN MOWERS, POWER SWEEPING ROTARY FLOOR BRUSHES, AND POWER SNOW REMOVAL SWEEPER BLADES. ROGERS DIESEL AND AIRCRAFT CORPORATION, New York, N. Y.
Filed January 23, 1943. Serial No. 458,121. PUBLISHED APRIL 6, 1943. Class 23.

401,912. RAISINS. SUN-MAID RAISIN GROWERS OF CALIFORNIA, Fresno, Calif.
Filed January 23, 1943. Serial No. 458,126. PUBLISHED APRIL 6, 1943. Class 46.

401,913. ELECTRIC ARC WELDING MACHINES. WILSON WELDER AND METALS CO. INC., New York, N. Y.
Filed January 23, 1943. Serial No. 458,133. PUBLISHED APRIL 6, 1943. Class 21.

401,914. TOOLS FOR USE WITH HYDRAULIC ACCESSORIES SUCH AS FLARING TOOLS. L & L MFG. CO., Van Dyke, Mich.
Filed January 25, 1943. Serial No. 458,155. PUBLISHED APRIL 6, 1943. Class 23.

401,915. PERFUME, EAU DE COLOGNE; TOILET POWDERS, FACE POWDER, LIQUID FACE POWDER, DUSTING POWDER, ETC. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed January 26, 1943. Serial No. 458,177. PUBLISHED APRIL 6, 1943. Class 6.

401,916. SYNTHETIC RUBBER. SYNTHETIC LATEX CORPORATION, New York, N. Y.
Filed January 28, 1943. Serial No. 458,213. PUBLISHED APRIL 6, 1943. Class 1.

401,917. CYLINDER HEADS. THE NATIONAL ALUMINUM CYLINDER HEAD COMPANY, Cleveland, Ohio.
Filed January 30, 1943. Serial No. 458,245. PUBLISHED MARCH 23, 1943. Class 23.

401,918. VITAMINIC COMPOSITION. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed January 30, 1943. Serial No. 458,253. PUBLISHED APRIL 6, 1943. Class 6.

401,919. SYNTHETIC RUBBER. UNION-BAYSTATE CO. INC., Cambridge, Mass.
Filed January 30, 1943. Serial No. 458,256. PUBLISHED APRIL 6, 1943. Class 1.

401,920. CHEMICALS FOR REPAIRING CRACKS IN METALS, PARTICULARLY CRACKS IN MOTOR BLOCKS OF INTERNAL COMBUSTION ENGINES, ETC. MILLER MANUFACTURING COMPANY, Camden, N. J.
Filed February 6, 1943. Serial No. 458,370. PUBLISHED APRIL 6, 1943. Class 6.

401,921. STORAGE BATTERIES. PHILCO CORPORATION, Philadelphia, Pa.
Filed February 6, 1943. Serial No. 458,372. PUBLISHED APRIL 6, 1943. Class 21.

401,922. ANCHOR RODS, BOLTS, NUTS, STRAIGHT FIXTURES, COMPRISING METAL FITTINGS HAVING A GUY ROD EYE, ANGLE FIXTURES COMPRISING METAL FIXTURES HAVING A GUY ROD EYE AT AN ANGLE, AND GUY FIXTURES, COMPRISING FIXTURES HAVING A GUY ROD EYE WHICH MAY BE USED FOR RECEIVING A GUY ROD. A. B. CHANCE COMPANY, Centralia, Mo.
Filed February 8, 1943. Serial No. 458,389. PUBLISHED APRIL 6, 1943. Class 13.

401,923. FACE POWDER, ROUGE, AND MAKE-UP BASE. REVLON PRODUCTS CORPORATION, New York, N. Y.
Filed February 8, 1943. Serial No. 458,408. PUBLISHED APRIL 6, 1943. Class 6.

401,924. VITAMINS. THE VITAMIN CLUB, Chicago, Ill.
Filed February 8, 1943. Serial No. 458,419. PUBLISHED APRIL 6, 1943. Class 6.

401,925. PREPARATION FOR THE TREATMENT OF PSORIASIS. ERNST BISCHOFF COMPANY, INCORPORATED, Ivoryton, Conn.
Filed February 13, 1943. Serial No. 458,506. PUBLISHED APRIL 6, 1943. Class 6.

401,926. TEXTILE DYE. CELLUDYE CORPORATION, New York, N. Y.
Filed February 17, 1943. Serial No. 458,585. PUBLISHED APRIL 6, 1943. Class 6.

401,927. COMPOSITION CONTAINING CHEMICAL INGREDIENTS FOR STRENGTHENING, FEEDING, AND PROMOTING THE DEVELOPMENT OF CUT PLANTS. FLOWER FOODS, INC., Maywood, Ill.
Filed February 17, 1943. Serial No. 458,591. PUBLISHED APRIL 6, 1943. Class 6.

401,928. WELDING AND BRAZING FLUXES FOR CAST IRON, MALLEABLE IRON, BRASS, BRONZE, COPPER, AND STEEL, AND ALUMINUM FLUXES. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill.
Filed February 19, 1943. Serial No. 458,635. PUBLISHED APRIL 6, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,929. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWIN & LOUIS BRY, INC., New York, N. Y. Filed Aug. 29, 1940. Serial No. 435,488.

SUSSEXSHIRE Tweeds

FOR ALL WOOL TWEED PIECE GOODS.
Claims use since Aug. 1, 1940.

401,930. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GAR WOOD INDUSTRIES, INC., Detroit, Mich. Filed Aug. 1, 1941. Serial No. 445,870.

WOOD

FOR WINCHES, CRANES, DERRICKS, WRECKERS, AND CAPSTANS.
Claims use since Apr. 2, 1941.

401,931. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DALCO TEXTILE CO., INC., New York, N. Y. Filed Sept. 20, 1941. Serial No. 447,199.

American Maid

FOR DISHCLOTHS AND UNTREATED UTILITY CLOTHS.
Claims use since Jan. 2, 1941.

401,932. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWISS MEAL CO., Los Angeles, Calif. Filed Sept. 25, 1941. Serial No. 447,317.



Swiss Meal

FOR BREAD.
Claims use since Sept. 12, 1941.

401,933. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAMMOND STANDISH & CO., Detroit, Mich. Filed Oct. 11, 1941. Serial No. 447,700.

GREENFIELD

FOR BREAKFAST SAUSAGES, HAMS, BACON, AND LARD.
Claims use since 1880 on sausages; since 1920 on oleomargarine; and since 1922 on hams and bacon.

401,934. (CLASS 39. CLOTHING.) ARTISITIC FOUNDATIONS, INC., New York, N. Y. Filed Oct. 20, 1941. Serial No. 447,928.

KWIK-DRY

FOR BATHING SUITS.
Claims use since Oct. 6, 1941.

401,935. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KEARNEY & TRECKER CORPORATION, West Allis, Wis. Filed Dec. 12, 1941. Serial No. 449,420.



FOR MACHINE TOOLS, MILLING MACHINES, PARTS THEREOF AND ACCESSORIES THEREFOR—NAMELY, ARBORS, ATTACHMENTS, CUTTERS, FIXTURES, JIGS, AND THE LIKE.
Claims use since Mar. 1, 1939.

401,936. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUTOGENOUS GAS CO., Cleveland, Ohio. Filed Jan. 22, 1942. Serial No. 450,389.

THERMOGEN

FOR HIGHLY REFINED GAS USED IN THE INDUSTRIAL ARTS.
Claims use since Dec. 1, 1941.

401,937. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GWIN, WHITE & PRINCE, INC., Seattle, Wash. Filed Apr. 4, 1942. Serial No. 452,148.



FOR APPLES AND PEARS.
Claims use since Dec. 12, 1941

401,938. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) RUDOLPH STEINER, doing business as Bost Records Co., New York, N. Y. Filed Feb. 21, 1942. Serial No. 451,149.

BOST Records

FOR PHONOGRAPHS AND PHONOGRAPH RECORDS.
Claims use since Jan. 1, 1942.

401,939. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DURAKOOL, INC., Elkhart, Ind. Filed Apr. 20, 1942. Serial No. 452,445.

HYDROKOOL

FOR ELECTRICAL RELAYS AND SWITCHES.
Claims use since Dec. 3, 1941.

401,940. (CLASS 20. LINOLEUM AND OILED CLOTH.) GAMBLE STORES INCORPORATED, Minneapolis, Minn. Filed Apr. 21, 1942. Serial No. 452,471.

SUPER QUALITY

FOR FELT BASE FLOOR COVERINGS IN THE NATURE OF LINOLEUM.
Claims use since December 1940.

401,941. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HERWITT-QUITMAN CURTAIN CORPORATION, Philadelphia, Pa. Filed May 4, 1942. Serial No. 452,776.

Triple-Sheer

FOR CURTAINS AND BEDSPREADS.
Claims use since Mar. 5, 1942.

401,942. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) POLLYANNA CORPORATION, New York, N. Y. Filed May 12, 1942. Serial No. 452,969.

SEAMWELL

FOR SEAM BINDINGS.
Claims use since Apr. 28, 1942.

401,943. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) WALLACE H. BRACKEN, Rye, N. Y. Filed May 18, 1942. Serial No. 453,075.

SIMPLON

FOR SUITCASES, WARDROBE CASES, OVERNIGHT CASES, HANDBAGS, AND TRUNKS.
Claims use since Apr. 2, 1942.

401,944. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE GRUEN WATCH COMPANY, Cincinnati, Ohio. Filed June 6, 1942. Serial No. 453,510.

COIN - THIN

FOR WATCHES, WATCHCASES, AND WATCH MOVEMENTS.
Claims use since May 7, 1942.

401,945. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALDPORT SEA FOOD CO., INC., Newport, Oreg. Filed July 6, 1942. Serial No. 454,078.

WALDPORT

FOR CANNED CRABMEAT.
Claims use since Mar. 17, 1942.

401,946. (CLASS 33. GLASSWARE.) PROMOTIONS, INC., Youngstown, Ohio. Filed Nov. 25, 1942. Serial No. 457,051.

GOOD HOUSEKEEPING

FOR DINNERWARE AND DINNERWARE SETS OF GLASS AND FOR ORNAMENTAL GLASS FLOWER OR FRUIT BOWLS OR VASES.
Claims use since Jan. 17, 1942.

401,947. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CENTRAL CHEMICAL CORPORATION OF MARYLAND, Hagerstown, Md. Filed Dec. 17, 1942. Serial No. 457,459.

FUME-RITE

FOR FUMIGANT INSECTICIDE FOR CONTROL OF PLANT LICE OR APHIDS SUCH AS "GREENFLY," "BLACKFLY," ROSE APHIS, SPINACH APHIS, MIDGE, AND MANY THRIPS.
Claims use since Apr. 10, 1942.

401,948. (CLASS 40. FANCY FOODS, FURNISHINGS, AND NOTIONS.) GEORGE W. ROTH, doing business as The Needlecraft Company, New York, N. Y. Filed Dec. 30, 1942. Serial No. 457,660.

RITE-STYLE Shoulder Pads

FOR SHOULDER PADS.
Claims use since Jan. 1, 1939.

401,949. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DU-TONE RIBBON CORP., New York, N. Y. Filed Dec. 31, 1942. Serial No. 457,678.

DUTONE RIBBON Velvetye

FOR RIBBONS OF COTTON, RAYON, AND COMBINATIONS THEREOF.
Claims use since Apr. 1, 1942.

401,950. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) VALENTINE COMTE KONDO, doing business as Comte Nursery, Miami, Fla. Filed Feb. 23, 1943. Serial No. 458,707.

Miami Suprême

FOR PLANTS, CUT STEMS, CUT BRANCHES, AND CUT FLOWERS.
Claims use since Dec. 15, 1941.

401,951. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE BOWCRAFT COMPANY, New York, N. Y. Filed Mar. 5, 1943. Serial No. 458,907.

BOWCRAFT

FOR RIBBON AND LEATHER BOWS FOR SHOES, RIBBON BOWS, SHOE ORNAMENTS, SHOE BUCKLES, AND SHOE TONGUES.
Claims use since January 1927.

401,952. (CLASS 12. CONSTRUCTION MATERIALS.) THE DICALITE COMPANY, Los Angeles, Calif. Filed Mar. 9, 1943. Serial No. 458,982.

BLOCPLASTIC

FOR THERMALLY INSULATING PLASTIC.
Claims use since Dec. 18, 1941.

401,953. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. B. MURPHY, Brawley, Calif. Filed Mar. 16, 1943. Serial No. 459,151.

VALU-PAK

FOR FRESH VEGETABLES AND MELONS.
Claims use since July 1, 1939.

401,954. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FOOTE & JENKS, INC., Jackson, Mich. Filed Apr. 3, 1943. Serial No. 459,597.

Sour Schnapps

FOR CARBONATED MIXER BEVERAGE SOLD AS A SOFT DRINK, AND MIXER FOR OTHER BEVERAGES, AND SIRUP AND EXTRACT FOR MIXING THE SAME.
Claims use since Nov. 15, 1938.

TRADE-MARK REGISTRATIONS RENEWED

165,966. **"USP" AND DRAWING.** DRIED FRUITS OR DEHYDRATED FRUITS AND VEGETABLES. Registered March 27, 1923. UNITED STATES PRODUCTS CORPORATION, San Francisco, Calif. Renewed March 27, 1943, to United States Products Corporation, Ltd., San Jose, Calif., a corporation of Nevada, assignee.

167,175. **KITCHENAID.** BRUSHES DESIGNED FOR HOUSEHOLD USE FOR WASHING DISHES, GLASSWARE, BOTTLES, PERCOLATORS, AND LIKE UTENSILS. Registered April 24, 1923. THE OSBORN MANUFACTURING COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed April 24, 1943.

167,339. **BEAUTY BISCUIT.** SELF-RISING WHEAT FLOUR. Registered May 1, 1923. MAJESTIC MILLING CO., Aurora, Mo. Renewed May 1, 1943, to Majestic Flour Mill, Memphis, Tenn., a firm, successor.

167,404. **LEONARDI'S.** MEDICINAL PREPARATIONS FOR TREATMENT OF THE BLOOD, AND CERTAIN NAMED AILMENTS, FEVERS, AND DISEASES. Registered May 1, 1923. S. B. LEONARDI & CO. INC., New Rochelle, N. Y., a corporation of New York. Renewed May 1, 1943.

167,419. **WITCHERIE.** FACE ROUGE. Registered May 1, 1923. CHARLES LOUIS FORGEY, doing business as Witcherie Laboratory, Detroit, Mich. Renewed May 1, 1943.

167,462. **"CONDIT" AND DRAWING.** FORMALIN, ANODYNES, EUGENOL, DICHLORAMINE, AND CERTAIN NAMED ANODYNE, SILVER-NITRATE, AND OTHER CHEMICAL PREPARATIONS. Registered May 1, 1923. PARK N. CONDIT, Boston, Mass. Renewed May 1, 1943, to Park N. Condit, Newton Center, Mass.

167,464. **"LANZETTE" AND DRAWING.** SPECIALLY PREPARED TISSUE PAPER FACE CLEANSER AND MASSAGE PAD FOR CHECKING AND REMOVING SUPERFLUOUS HAIR. Registered May 1, 1923. ANNETTE LANZET, doing business as Lanzette Laboratories, San Francisco, Calif. Renewed May 1, 1943, to Edward A. Hochbaum, doing business as Lanzette Laboratories, Chicago, Ill., successor.

167,560. **"BORO" AND DRAWING.** A GERMICIDE. Registered May 1, 1923. BORO CHEMICAL CO. INC., Binghamton, N. Y., a corporation of New York. Renewed May 1, 1943.

167,609. **"SURE-FIT" AND DRAWING.** AUTOMOBILE ALL FABRIC TOP RE-COVERS, SIDE AND REAR CURTAINS, SEAT, RADIATOR AND HOOD COVERS, ANTIDRAFT SHIELDS, AND COIL PROTECTORS. Registered May 1, 1923. HODES-ZINK MFG. CO. Renewed May 1, 1943, to The Howard Zink Corporation, Fremont, Ohio, a corporation of Ohio, assignee.

167,693. **CALOREX.** CERTAIN NAMED OILS AND GREASES, AND CANDLES, GASOLINES, NAPHTHAS, PARAFFIN WAX, AND RUST-PREVENTIVES. Registered May 8, 1923. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed May 8, 1943.

167,847. **SIGNET.** CANNED FRUIT, CANNED VEGETABLES, DRIED FRUIT. Registered May 8, 1923. UNITED STATES PRODUCTS CORPORATION, San Francisco, Calif. Renewed May 8, 1943, to United States Products Corporation, Ltd., San Jose, Calif., a corporation of Nevada, assignee.

168,638. **CHANCELLOR.** CANNED FRUIT, CANNED VEGETABLES, CANNED FISH, DRIED FRUIT. Registered May 29, 1923. UNITED STATES PRODUCTS CORPORATION, San Francisco, Calif. Renewed May 29, 1943, to United States Products Corporation, Ltd., San Jose, Calif., a corporation of Nevada, assignee.

169,455. **FLYING EAGLE.** COTTON PIECE GOODS. Registered June 19, 1923. MINOT, HOOPER & CO., New York, N. Y., a firm. Renewed June 19, 1943.

169,633. **TWO REPRESENTATIONS OF A MAN AND THREE TOBACCO PLANTS.** COMMERCIAL FERTILIZER. Registered June 26, 1923. ARMOUR FERTILIZER WORKS, Chicago, Ill., and Louisville, Ky. Renewed June 26, 1943, to Armour and Company of Delaware, Chicago, Ill., a corporation of Delaware, assignee.

170,399. **"OSTERO-PATH-IK" AND DRAWING.** SHOES, INSOLES AND OUTERSOLES, MADE OF LEATHER, FABRIC, RUBBER, AND COMBINATIONS OF SAME. Registered July 17, 1923. ALLEN-SPIEGEL SHOE MFG. CO. Renewed July 17, 1943, to Allen Edmonds Shoe Corporation, Belgium, Wis., a corporation of Wisconsin, assignee.

170,615. **BACHELOR.** TOBACCO PIPES. Registered July 17, 1923. DELACOUR BROS. LTD. Renewed July 17, 1943, to Delco Briars Limited, London, England, a corporation of United Kingdom of Great Britain and Northern Ireland, assignee.

170,647. **ECHO.** COFFEE. Registered July 17, 1923. ROCKFORD WHOLESALE GROCERY CO., Rockford, Ill., a corporation of Illinois. Renewed July 17, 1943.

170,715. **"UNION" AND DRAWING.** CHAINS FOR PERSONAL ADORNMENT, WHICH ARE MADE OF OR PLATED WITH PRECIOUS METAL. Registered July 24, 1923. FORSTNER CHAIN CORPORATION, Irvington, N. J., a corporation of New Jersey. Renewed July 24, 1943.

170,807. **"DUKE OF WELLINGTON" AND DRAWING.** WHEAT FLOUR. Registered July 24, 1923. THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Renewed July 24, 1943, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

170,829. **"NIAGARA" AND DRAWING.** FLAKE LYE. Registered July 24, 1923. NIAGARA ALKALI COMPANY, Niagara Falls, N. Y., a corporation of New York. Renewed July 24, 1943.

170,841. **"BLUE PENNANT" AND DRAWING.** WHEAT FLOUR. Registered July 24, 1923. THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Renewed July 24, 1943, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

170,931. **GOLDEN DREAM.** WHEAT FLOUR. Registered July 24, 1923. THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Renewed July 24, 1943, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

170,932. **"BAKE-MASTER" AND DRAWING.** WHEAT FLOUR. Registered July 24, 1923. THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Renewed July 24, 1943, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

171,002. **SATINO.** CRÊPE PAPER. Registered July 31, 1923. THE TISSUE COMPANY, Saugerties, N. Y., a corporation of New York. Renewed July 31, 1943.

171,165. **"CHINA FLAT" AND DRAWING.** READY-MIXED PAINT FOR PLASTERED WALLS, BRICK OR CONCRETE SURFACES, WOOD AND METAL TRIM. Registered July 31, 1923. A. C. HORN COMPANY, New York, N. Y. Renewed July 31, 1943, to A. C. Horn Company, Long Island City, N. Y., a corporation of New York.

171,231. **"OLD KING COLE" AND DRAWING.** CANNED PLUM PUDDING. Registered July 31, 1923. A. SILZ, INC., New York, N. Y. Renewed July 31, 1943, to Diplomat Products, Inc., North Bergen, N. J., a corporation of New York, successor.

171,630. **"LIFE SAVER" AND DRAWING.** CANNED FISH. Registered August 7, 1923. CARMEL CANNING COMPANY, San Francisco, Calif., a corporation of California. Renewed August 7, 1943.

172,417. **"GARFIELD" AND DRAWING.** WAXED PAPER. Registered August 28, 1923. THE HAMERSLEY MANUFACTURING COMPANY, New York, N. Y. Renewed August 28, 1943, to The Hamersley Manufacturing Company, Garfield, N. J., a corporation of New Jersey.

172,568. **"ELY'S" AND DRAWING.** MEDICINAL COMPOUND FOR THE TREATMENT OF CATARRHAL DISEASES OF THE HEAD. Registered September 11, 1923. THE CREAM BALM COMPANY. Renewed September 11, 1943, to Wyeth Chemical Company, Jersey City, N. J., a corporation of Delaware, assignee.

172,865. **"BOBWHITE" AND DRAWING.** WORK SHIRTS. Registered September 11, 1923. THE JAY GARMENT COMPANY. Renewed September 11, 1943, to The Jay Garment Company, Portland, Ind., a corporation of Indiana, successor.

172,926. **WEST INDIA CREAM TISSUE.** STEREOTYPING AND COPYING TISSUE. Registered September 11, 1923. ROBERT W. BROOKS, doing business as Brooks Paper Company. Renewed September 11, 1943, to Brooks Paper Company, St. Louis, Mo., a corporation of Missouri, successor.

172,973. **BOREALIS.** SILK PIECE GOODS. Registered September 11, 1923. THE SCHWARZENBACH HUBER COMPANY, West Hoboken, N. J. Renewed September 11, 1943, to The Schwarzenbach Huber Company, New York, N. Y., a corporation of New Jersey.

173,007. **"ONONDAGA" AND DRAWING.** PLATE GLASS, MIRROR GLASS, AND CRYSTAL SHEET. Registered September 11, 1923. SYRACUSE GLASS COMPANY, Syracuse, N. Y., a corporation of New York. Renewed September 11, 1943.

173,197. **BONNIE DOON.** KNITTED SCARFS AND SWEATERS, AND KNIT DRESSES. Registered September 18, 1923. ALEX L. WALLAU. Renewed September 18, 1943, to Alex. Lee Wallau, Incorporated, New York, N. Y., a corporation of New York, assignee.

173,198. **"BONNIE DOON" AND DRAWING.** KNITTED SCARFS AND SWEATERS, AND KNIT DRESSES. Registered September 18, 1923. ALEX L. WALLAU. Renewed September 18, 1943, to Alex. Lee Wallau, Incorporated, New York, N. Y., a corporation of New York, assignee.

173,323. **ANGELUS.** CERTAIN NAMED TOILET PREPARATIONS. Registered September 25, 1923. LOUIS PHILIPPE, INC., New York, N. Y. Renewed September 25, 1943, to Affiliated Products, Inc., Jersey City, N. J., a corporation of Illinois, assignee by mesne assignments.

173,359. **DARBROOK.** SILK AND ARTIFICIAL SILK PIECE GOODS, AND COTTON, LINEN, AND WOOLEN PIECE GOODS, AND COMBINATIONS OF THE FOREGOING. Registered September 25, 1923. THE SCHWARZENBACH HUBER COMPANY, West Hoboken, N. J. Renewed September 25, 1943, to The Schwarzenbach Huber Company, New York, N. Y., a corporation of New Jersey.

173,374. **MIDAS.** COTTON-BACK SATIN IN THE PIECE. Registered September 25, 1923. THE SCHWARZENBACH HUBER COMPANY, West Hoboken, N. J. Renewed September 25, 1943, to The Schwarzenbach Huber Company, New York, N. Y., a corporation of New Jersey.

173,464. **PENPOINT.** WRITING AND PRINTING PAPER AND MAILING ENVELOPES. Registered September 25, 1923. AMERICAN WRITING PAPER COMPANY. Renewed September 25, 1943, to American Writing Paper Corporation, Holyoke, Mass., a corporation of Delaware, assignee by mesne assignments.

173,595. **"NIAGARA" AND DRAWING.** FLAKE LYE USED AS DETERGENT. Registered October 2, 1923. NIAGARA ALKALI COMPANY, Niagara Falls, N. Y., a corporation of New York. Renewed October 2, 1943.

173,697. **"KING-O'WINTER".** SWEATERS. Registered October 2, 1923. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed October 2, 1943.

173,716. **ZEPHYR.** DRESS SHIELDS. Registered October 2, 1923. ASSOCIATED MERCHANDISING CORPORATION, Newark, N. J., and New York, N. Y. Renewed October 2, 1943, to Associated Merchandising Corporation, New York, N. Y., a corporation of New York, assignee.

173,818. **ORCHID.** BISCUITS. Registered October 2, 1923. PERFECTION BISCUIT COMPANY, Fort Wayne, Ind., a corporation of Indiana. Renewed October 2, 1943.

173,875. **SURETY.** NECKTIES. Registered October 2, 1923. STERN, MERRITT CO. INC., New York, N. Y., a corporation of New York. Renewed October 2, 1943.

173,876. **PICCADILLY.** NECKTIES. Registered October 2, 1923. STERN, MERRITT CO. INC., New York, N. Y., a corporation of New York. Renewed October 2, 1943.

173,946. **"W. W. HOOSIER BRAND" AND DRAWING.** ONIONS IN THEIR NATURAL STATE. Registered October 2, 1923. WILLIAM R. WEDRICK. Renewed October 2, 1943, to W. R. Wedrick Farms, Inc., Silver Lake, Ind., a corporation of Indiana, assignee.

173,981. **SANTA MARIA.** WOVEN COTTON FABRICS IN THE PIECE. Registered October 2, 1923. GEORGE A. STAFFORD, doing business as G. A. Stafford & Co. Renewed October 2, 1943, to G. A. Stafford & Company, Inc., New York, N. Y., a corporation of Virginia, assignee.

174,092. **DUNBARTON.** HAND-SEWING AND MACHINE-SEWING LINEN THREADS. Registered October 2, 1923. BARBOUR FLAX SPINNING CO., Paterson, N. J. Renewed October 2, 1943, to The Linen Thread Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

174,117. **DAVID DAVIDSON.** PICTURES. Registered October 2, 1923. DAVID DAVIDSON, Providence, R. I. Renewed October 2, 1943.

174,160. **PREMIX.** ROASTERS, AND PARTS THEREOF, FOR ROASTING COFFEE, COCOA, PEANUTS, CEREALS, AND OTHER FOOD PRODUCTS. Registered October 9, 1923. JABEZ BURNS & SONS. Renewed October 9, 1943, to Jabez Burns & Sons, Inc., New York, N. Y., a corporation of New York, assignee.

174,214. **VAN ESS.** MASSAGE PREPARATIONS OR TONICS FOR THE TREATMENT OF THE HEAD AND SCALP. Registered October 9, 1923. VAN ESS LABORATORIES, INC., Chicago, Ill. Renewed October 9, 1943, to Affiliated Products, Inc., Jersey City, N. J., a corporation of Illinois, assignee by mesne assignments.

174,267. **"FOREST RIVER" AND DRAWING.** WHITE LEAD, DRY AND IN OIL. Registered October 9, 1923. CHASWICK-BOSTON LEAD COMPANY. Renewed October 9, 1943, to National-Boston Lead Company, Boston, Mass., a corporation of Massachusetts, by change of name.

174,344. **"BONDED" AND DRAWING.** ASPIRIN. Registered October 16, 1923. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn., a corporation of Tennessee. Renewed October 16, 1943.

174,407. **"KISTLER BENCH BRAND" AND DRAWING.** LEATHER. Registered October 16, 1923. KISTLER LEATHER COMPANY, South Boston, Mass. Renewed October 16, 1943, to Kistler Leather Company, Boston, Mass., a corporation of Delaware.

174,420. **IDECO.** WATER BOTTLES, FOUNTAIN SYRINGES, SCREW-CAPPED ICE BAGS, AND COMBINATION WATER BOTTLE AND FOUNTAIN SYRINGES. Registered October 16, 1923. INDEPENDENT DRUG COMPANY, INC., Jacksonville, Fla., a corporation of Florida. Renewed October 16, 1943.

174,487. **RAYBROOK.** CANNED FRUITS, CANNED BERRIES, AND CANNED VEGETABLES. Registered October 16, 1923. RAY-MALING CO. INC., Portland, Oreg. Renewed October 16, 1943, to Ray-Maling Co., Inc., Hillsboro, Oreg., a corporation of Oregon.

174,517. **INSTANT COFFEOLA.** COFFEELIKE BEVERAGE. Registered October 16, 1923. KELLOGG COMPANY, Battle Creek, Mich., a corporation of Delaware. Renewed October 16, 1943.

174,566. **"PHILCO" AND DRAWING.** BATTERIES AND CERTAIN NAMED PARTS AND SUPPLIES THEREFOR. Registered October 23, 1923. PHILADELPHIA STORAGE BATTERY CO. Renewed October 23, 1943, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania, by change of name.

174,656. **GEARITE.** TRANSMISSION OILS AND GREASES. Registered October 23, 1923. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif., a corporation of California. Renewed October 23, 1943.

174,679. **AMARNA.** PERFUMES AND TOILET WATERS. Registered October 23, 1923. COLGATE & COMPANY. Renewed October 23, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

174,680. **BAST.** PERFUMES AND TOILET WATERS. Registered October 23, 1923. COLGATE & COMPANY. Renewed October 23, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

174,681. **KAHIRA.** PERFUMES AND TOILET WATERS. Registered October 23, 1923. COLGATE & COMPANY. Renewed October 23, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

174,682. **KHEPERA.** PERFUMES AND TOILET WATERS. Registered October 23, 1923. COLGATE & COMPANY. Renewed October 23, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

174,694. **COOK-RITE.** CERTAIN NAMED EARTHENWARE COOKING UTENSILS. Registered October 23, 1923. WARREN I. TYCER, Roseville, Ohio. Renewed October 23, 1943, to Warren I. Tycer, Zanesville, Ohio.

174,738. **"SEMCO" AND DRAWING.** ELECTRIC MOTORS, ELECTRIC GENERATORS, AND ELECTRIC FANS. Registered October 23, 1923. STAR ELECTRIC MOTOR CO., Newark, N. J. Renewed October 23, 1943, to Star Electric Motor Co., Bloomfield, N. J., a corporation of New Jersey.

174,739. **"STAR" AND DRAWING.** ELECTRIC MOTORS, ELECTRIC GENERATORS, AND ELECTRIC FANS. Registered October 23, 1923. STAR ELECTRIC MOTOR CO., Newark, N. J. Renewed October 23, 1943, to Star Electric Motor Co., Bloomfield, N. J., a corporation of New Jersey.

174,764. **DURA.** GASOLINE, KEROSENE, AND LUBRICATING OILS AND GREASES. Registered October 23, 1943. WESTLAND OIL COMPANY, Scobey, Mont. Renewed October 23, 1943, to Westland Oil Company, Minot, N. Dak., a corporation of Montana.

174,791. **PRINCE CHARMING.** CANDY. Registered October 23, 1923. ELIC A. HOFFMAN, doing business as E. A. Hoffman Candy Co. Renewed October 23, 1943, to E. A. Hoffman Candy Co. Inc., Los Angeles, Calif., a corporation of California, successor.

174,832. **"DOBBS" AND DRAWING.** CAPS; HATS FOR MEN, WOMEN, AND CHILDREN; LEATHER AND FABRIC GLOVES; MUFFLERS, SCARFS, AND FUR NECK PIECES AND CERTAIN OTHER GARMENTS OF FUR, OVERCOATS, RAINCOATS, LEATHER COATS, AND CERTAIN OTHER ARTICLES OF CLOTHING. Registered October 23, 1923. DOBBS & Co., New York, N. Y. Renewed October 23, 1943, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware, assignee by mesne assignments.

174,859. **OLVA.** SOAP. Registered October 23, 1923. LEVER BROTHERS COMPANY, Cambridge Mass., a corporation of Maine. Renewed October 23, 1943.

174,868. **NEUTRACHLOR.** WASHING POWDER FOR LAUNDRY PURPOSES. Registered October 23, 1923. H. KOHNSTAMM & Co., Inc., New York, N. Y., a corporation of New York. Renewed October 23, 1943.

174,874. **LITTLE LADY.** MOUTH HARMONICAS. Registered October 23, 1923. M. HOHNER. Renewed October 23, 1943, to M. Hohner, Inc., New York, N. Y., a corporation of New York, assignee.

174,879. **GEARLUBE.** TRANSMISSION OILS AND GREASES. Registered October 23, 1923. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif., a corporation of California. Renewed October 23, 1943.

174,880. **POLAR.** WORK SHIRTS AND NEGLIGEE SHIRTS. Registered October 23, 1923. WYMAN, PARTRIDGE & Co., Minneapolis, Minn. Renewed October 23, 1943, to Ely & Walker Dry Goods Company, St. Louis, Mo., a corporation of Missouri, successor.

175,005. **FAMOUS.** LADDERS AND STEP STOOLS. Registered October 30, 1923. THE GOSHEN CHURN & LADDER COMPANY. Renewed October 30, 1943, to Goshen Churn & Ladder, Inc., Goshen, Ind., a corporation of Indiana, by change of name.

175,062. **KEYSTONE.** GREASE CUPS, OIL CUPS, AND LUBRICATORS FOR THE APPLICATION OF LUBRICANTS. Registered October 30, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 30, 1943.

175,063. **DEFIANCE.** CERTAIN NAMED MEASURING TOOLS AND PRECISION INSTRUMENTS. Registered October 30, 1923. THE STANLEY WORKS, New Britain, Conn., a corporation of Connecticut. Renewed October 30, 1943.

175,064. **VICTOR.** CERTAIN NAMED MEASURING TOOLS AND PRECISION INSTRUMENTS. Registered October 30, 1923. THE STANLEY WORKS, New Britain, Conn., a corporation of Connecticut. Renewed October 30, 1943.

175,086. **"ADENSITE" AND DRAWING.** LIQUID INTEGRAL, A FLUID EMPLOYED IN THE MIXING OF BUILDING MATERIALS TO RENDER THE SAME HARD AND WATERPROOF. Registered October 30, 1923. ADENSITE CO., INC., New York, N. Y. Renewed October 30, 1943, to Adensite Co., Inc., Long Island City, N. Y., a corporation of New York.

175,097. **REPRESENTATION OF A GROTESQUE MAN.** SHOE, UNDERWEAR, AND BLOUSE LACINGS, GALLOONS, AND BRAIDS, ALL OF WHICH ARE MADE OF LINEN, COTTON, SILK, OR WORSTED. Registered October 30, 1923. UNITED LACE & BRAID MFG. CO. Renewed October 30, 1943, to United Lace & Braid Company, Cranston, R. I., a corporation of Rhode Island, assignee.

175,138. **GOLDEN STATE FARMER.** WEEKLY PERIODICALS. Registered October 30, 1923. CULTIVATOR PUBLISHING COMPANY, Los Angeles, Calif., a corporation of California. Renewed October 30, 1943.

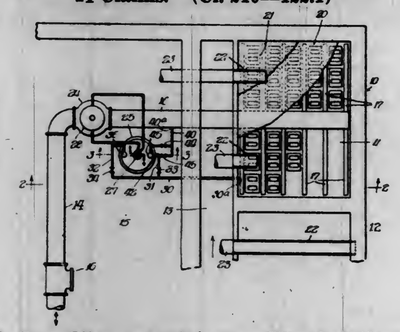
175,159. **NARCISSUS CREPE.** TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. Registered October 30, 1923. FORT HOWARD PAPER COMPANY, Green Bay, Wis., a corporation of Wisconsin. Renewed October 30, 1943.

175,201. **"BIG DEAL" AND DRAWING.** SOAP. Registered October 30, 1923. THE VAN CAMP PACKING COMPANY, INC., Indianapolis, Ind. Renewed October 30, 1943, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

REISSUES

JUNE 15, 1943

22,335
LIQUID FLOW CONTROL
Walter H. Green, Batavia, Ill., assignor to Infilco Incorporated, a corporation of Delaware
Original No. 2,296,247, dated September 22, 1942, Serial No. 204,994, April 29, 1938. Application for reissue October 30, 1942, Serial No. 464,153
11 Claims. (Cl. 210—122.1)



1. In a filter, a container, a filter bed therein, a flow system comprising a perforated underdrain underlying said bed and a conduit joined to said underdrain, a valve in said conduit, a power operated means for positioning said valve, a pressure differential sensitive member controlling the flow of power to said power operated means, and conduits for transmitting pressure joining said pressure differential sensitive member to said flow system between said valve and said filter bed and to said container.

PLANT PATENTS

GRANTED JUNE 15, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

590
ROSE PLANT
Alexander Dickson, Jr., Newtonards, Belfast, Ireland, assignor to Jackson & Perkins Company, Newark, N. Y.
Application December 31, 1942, Serial No. 470,793
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, of the Hybrid Tea Floribunda type, characterized as to novelty by its vigor of bush growth to large size and free flowering habit, continuously producing buds of deep rich golden yellow color, similar to "Lord Lonsdale," in great quantities of clusters and groups with dark green foliage settings, suited particularly for greenhouse cut flowers for corsage and basket work, substantially as shown and described.

591
ROSE PLANT
Francis Meilland, Tassin-les-Lyon, France, assignor to The Conard-Pyle Company, West Grove, Pa.
Application July 15, 1942, Serial No. 451,039
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, characterized as to novelty by its exceptionally vigorous growing habit and enduring quality of its foliage, size and perfection of form of the bloom, and their unusual blend of coloring, substantially as shown and described.

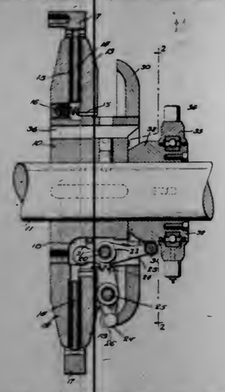
592
PEACH
John Stuart Leckie, Osoyoos, British Columbia, Canada
Application September 18, 1941, Serial No. 411,411
1 Claim. (Cl. 47—62)

The variety of peach herein described, characterized particularly by its early ripening date of between 15 and 20 days earlier than a Rochester peach, its bright yellow and gold colour overlaid with a very high red blush, and its smooth skin with comparatively little fuzz.

PATENTS

GRANTED JUNE 15, 1943

2,321,565
CLUTCH
John Hart Wilson, Wichita Falls, Tex.
Application July 15, 1940, Serial No. 345,665
3 Claims. (Cl. 192—68)



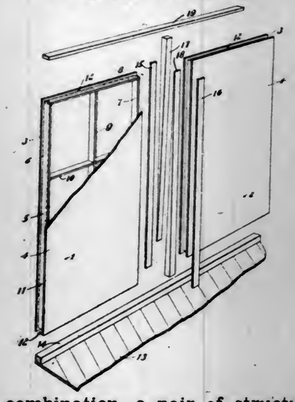
1. In a clutch construction, in combination, a hub mounted for rotation about an axis, parallel first and second annular members concentric with and disposed normally to said axis, said members being rigid with and projecting outwardly from the hub, a third member intermediate said first and second members and mounted on the hub for movement longitudinally thereof and rotation therewith, a plate to be clamped, said plate being positioned between said intermediate member and the first of said fixed annular members, a lever disposed radially of the hub and pivotally mounted on said intermediate member, one end of said lever being adapted to bear against said second member, said lever when actuated acting to move said intermediate member toward the first fixed member to clamp said plate.

2,321,566
STRUCTURAL UNIT
Winfred E. Wilson, Los Angeles, Calif.
Application March 24, 1939, Serial No. 264,554
3 Claims. (Cl. 20—92)



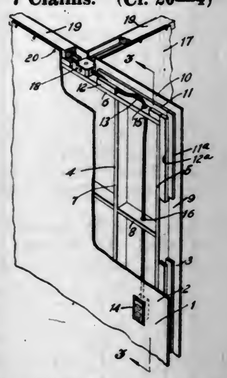
1. An interlocking structural unit formed with interlocking elements on the ends thereof to intermesh with like interlocking elements on the ends of adjoining units, means for interlocking said intermeshing interlocking elements, and interlocking elements on the corners of said unit to intermesh with interlocking elements on the corners of adjoining units and with interlocking elements on the sides of other units, and means for positively interlocking said intermeshing interlocking elements on said corners and said sides of said units for positively preventing lateral displacement of the units interlocked side-by-side.

2,321,567
STRUCTURAL UNIT
Winfred E. Wilson, Los Angeles, Calif.
Application November 17, 1941, Serial No. 419,391
2 Claims. (Cl. 20—4)



1. In combination, a pair of structural units each comprising a spaced pair of plywood sheathing and a cellular frame therebetween, the cellular frame being recessed inwardly from the edges of the sheathing, said structural units being in butt to butt relationship, a pair of fish plates overlapping and glued to the sheathing of each unit at the recessed portions thereof, and a pair of wedges interposed between said fish plates for maintaining said fish plates in pressure engagement with the sheathing.

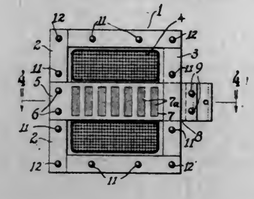
2,321,568
BUILDING STRUCTURE
Winfred E. Wilson, Los Angeles, Calif.
Application January 21, 1942, Serial No. 427,614
7 Claims. (Cl. 20—4)



1. In panel construction, a pair of spaced-apart

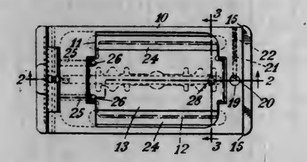
plywood sheathing, a framing interposed between and secured to said sheathing, said framing having an end member spaced inwardly from the edges of said sheathing to provide a groove, and a pair of spacer members within said groove and secured to the inner surface of both sheathing members and resting on said end member to provide a way for the reception of a conduit.

2,321,569
ELECTROMAGNET
Marion R. Winkler, Chicago, Ill.
Application October 10, 1940, Serial No. 360,545
8 Claims. (Cl. 175—341)



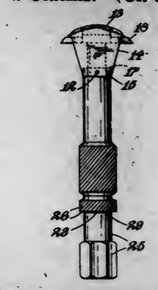
1. An electromagnet comprising two cooperative elongated polar members movable relatively in the direction of their major axis, and a magnetizing winding adapted to induce a magnetic flux in the direction of said axis, each of said members comprising a plurality of substantially similar units spaced apart from each other transversely to said axis and the units of one member alternating with the units of the other member, each unit comprising a non-magnetic solid support and a plurality of similar magnetic elements attached to said support and spaced from each other in the direction of said axis.

2,321,570
PACKAGING OF RAZOR BLADES
Noel Pemberton Billing, Kingston-on-Thames, England
Application January 25, 1941, Serial No. 375,965
In Great Britain February 1, 1940
1 Claim. (Cl. 206—16)



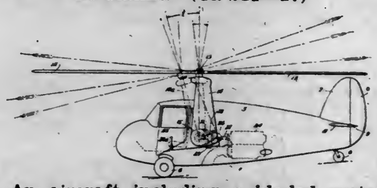
A razor blade package comprising a container shaped as to its upper part to afford a recess to receive a number of thin flat blades piled one on the other and below that space a compartment to receive a sliding tray, a sliding tray therein, bar magnets secured in the tray with their axes parallel to the direction of movement and located near opposite sides of the tray so as to lie beneath cutting edges of the pile of blades when charged into the package, a hinged cover, an absorbent oil-carrying pad secured to the cover so as to overlie the pile of blades when the cover is closed, locating pins extending across the tray compartment to support the rear edges of the blades, a recess in the blade-receiving surface of the tray to accommodate one blade and a pin on the tray to engage the lowermost blade near its forward end.

2,321,571
SAFETY RAZOR
Noel Pemberton Billing, Kingston-on-Thames, England
Application January 25, 1941, Serial No. 375,966
In Great Britain January 26, 1940
2 Claims. (Cl. 30—58)



1. A safety razor comprising a blade receiving frame having an outer blade-retaining member, and a pressure member movable towards and away from the blade retaining member, a handle on the frame perpendicular to the blade retaining member, means for forcing the pressure member towards the blade retaining member, a rod secured to the pressure member and extending through the handle and having an enlarged portion beyond the end of the handle, a collar between the handle and the enlarged portion of the rod and rotatable about the rod, the collar and the enlarged portion of the rod having on opposed faces cooperating abutments and grooves of varying depths whereby rotation of the collar will vary the distance between the blade retaining and pressure members.

2,321,572
ROTATIVE WINGED AIRCRAFT
Harris S. Campbell, Bryn Athyn, Pa., assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application March 16, 1940, Serial No. 324,387
32 Claims. (Cl. 244—17)



1. An aircraft including a bladed sustaining rotor, means for tiltably moving the rotor about a generally transverse axis approximately containing the center of gravity of the aircraft, and means for shifting the lift line of the rotor with respect to the center of gravity of the aircraft.

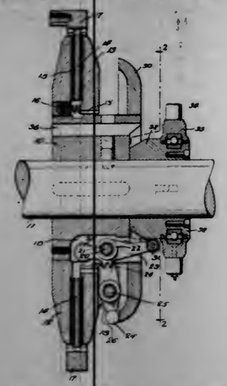
2,321,573
WASHING MACHINE
Thomas B. Chace, Winnetka, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application December 23, 1940, Serial No. 371,339
3 Claims. (Cl. 68—207)

1. A washing machine comprising a casing into which the material to be washed is placed, a mixing valve for mixing hot and cold water to be inserted in said casing, and an automatic flow control device connected with the mixing valve,

PATENTS
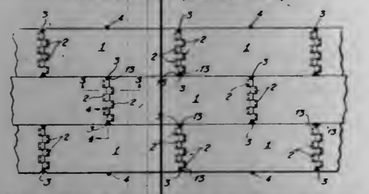
GRANTED JUNE 15, 1943

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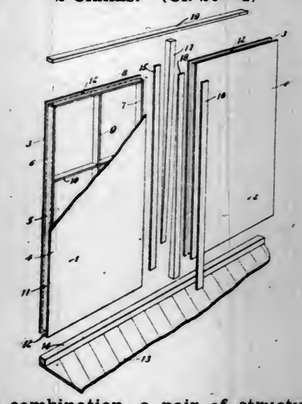
1. In a clutch construction, in combination, a hub mounted for rotation about an axis, parallel first and second annular members concentric with and disposed normally to said axis, said members being rigid with and projecting outwardly from the hub, a third member intermediate said first and second members and mounted on the hub for movement longitudinally thereof and rotation therewith, a plate to be clamped, said plate being positioned between said intermediate member and the first of said fixed annular members, a lever disposed radially of the hub and pivotally mounted on said intermediate member, one end of said lever being adapted to bear against said second member, said lever when actuated acting to move said intermediate member toward the first fixed member to clamp said plate.

2,321,566
STRUCTURAL UNIT
Winfred E. Wilson, Los Angeles, Calif.
Application March 28, 1939, Serial No. 264,554
3 Claims. (Cl. 20—92)



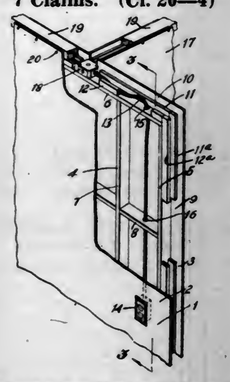
1. An interlocking structural unit formed with interlocking elements on the ends thereof to intermesh with like interlocking elements on the ends of adjoining units, means for interlocking said intermeshing interlocking elements, and interlocking elements on the corners of said unit to intermesh with interlocking elements on the corners of adjoining units and with interlocking elements on the sides of other units, and means for positively interlocking said intermeshing interlocking elements on said corners and said sides of said units for positively preventing lateral displacement of the units interlocked side-by-side.

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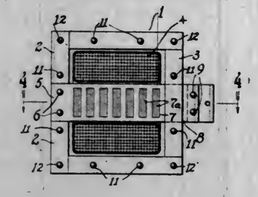
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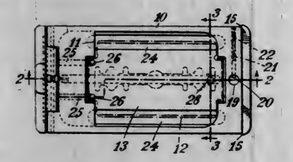
plywood sheathing, a framing interposed between and secured to said sheathing, said framing having an end member spaced inwardly from the edges of said sheathing to provide a groove, and a pair of spacer members within said groove and secured to the inner surface of both sheathing members and resting on said end member to provide a way for the reception of a conduit.

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Marion R. Winkler, Chicago, Ill.
Application October 10, 1940, Serial No. 360,545
8 Claims. (Cl. 175—341)



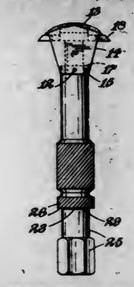
1. An electromagnet comprising two cooperative elongated polar members movable relatively in the direction of their major axis, and a magnetizing winding adapted to induce a magnetic flux in the direction of said axis, each of said members comprising a plurality of substantially similar units spaced apart from each other transversely to said axis and the units of one member alternating with the units of the other member, each unit comprising a non-magnetic solid support and a plurality of similar magnetic elements attached to said support and spaced from each other in the direction of said axis.

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PACKAGING OF RAZOR BLADES
Noel Pemberton Billing, Kingston-on-Thames, England
Application January 25, 1941, Serial No. 375,965
In Great Britain February 1, 1940
1 Claim. (Cl. 206—16)



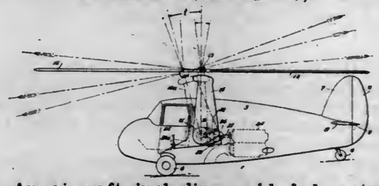
A razor blade package comprising a container shaped as to its upper part to afford a recess to receive a number of thin flat blades piled one on the other and below that space a compartment to receive a sliding tray, a sliding tray therein, bar magnets secured in the tray with their axes parallel to the direction of movement and located near opposite sides of the tray so as to lie beneath cutting edges of the pile of blades when charged into the package, a hinged cover, an absorbent oil-carrying pad secured to the cover so as to overlie the pile of blades when the cover is closed, locating pins extending across the tray compartment to support the rear edges of the blades, a recess in the blade-receiving surface of the tray to accommodate one blade and a pin on the tray to engage the lowermost blade near its forward end.

2,321,571
SAFETY RAZOR
Noel Pemberton Billing, Kingston-on-Thames, England
Application January 25, 1941, Serial No. 375,966
In Great Britain January 26, 1940
2 Claims. (Cl. 30—58)



1. A safety razor comprising a blade receiving frame having an outer blade-retaining member, and a pressure member movable towards and away from the blade retaining member, a handle on the frame perpendicular to the blade retaining member, means for forcing the pressure member towards the blade retaining member, a rod secured to the pressure member and extending through the handle and having an enlarged portion beyond the end of the handle, a collar between the handle and the enlarged portion of the rod and rotatable about the rod, the collar and the enlarged portion of the rod having on opposed faces cooperating abutments and grooves of varying depths whereby rotation of the collar will vary the distance between the blade retaining and pressure members.

2,321,572
ROTATIVE WINGED AIRCRAFT
Harris S. Campbell, Bryn Athyn, Pa., assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application March 16, 1940, Serial No. 324,387
32 Claims. (Cl. 244—17)

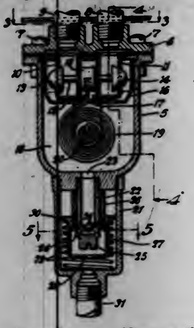


1. An aircraft including a bladed sustaining rotor, means for tiltably moving the rotor about a generally transverse axis approximately containing the center of gravity of the aircraft, and means for shifting the lift line of the rotor with respect to the center of gravity of the aircraft.

2,321,573
WASHING MACHINE
Thomas B. Chace, Winnetka, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application December 23, 1940, Serial No. 371,339
3 Claims. (Cl. 68—207)

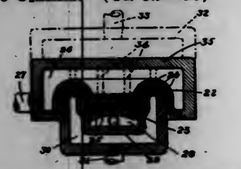
1. A washing machine comprising a casing into which the material to be washed is placed, a mixing valve for mixing hot and cold water to be inserted in said casing, and an automatic flow control device connected with the mixing valve,

the flow control device and the mixing valve forming a unitary construction for delivering



equal amounts of water to the casing in equal intervals of time.

2,321,574
METHOD OF PULP MOLDING
Charles J. Chaplin, South Portland, Maine, assignor to Chaplin Corporation, Portland, Maine, a corporation of Maine
Application April 19, 1937, Serial No. 137,618
6 Claims. (Cl. 92—56)



3. The method of producing a fibrous pulp article which comprises molding on a foraminous die, to its approximate final shape, a contoured, thin, relatively dense, compact sheet, forming on a second contoured die a thin, compact sheet of lesser area, and contoured to overlie and fit a portion only of the dense sheet formed on the first mentioned die, compacting the sheets with each other, and holding said sheets in compact condition until the water or other liquid contained therein has been removed.

2,321,575
COMPOUNDED HYDROCARBON OIL
James O. Clayton and Bruce B. Farrington, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 10, 1940, Serial No. 339,661
20 Claims. (Cl. 252—32)

1. A composition of matter comprising a hydrocarbon oil containing a metal salt of an organic acid in an amount sufficient substantially to increase the corrosivity of said oil, and a corrosion inhibitor comprising an ester having a divalent sulfur substituent attached to an alkyl carbon atom and no more than two carbon atoms removed from a carbonyl group of said ester.

2,321,576
COMPOUNDED LUBRICANT
James O. Clayton and Bruce B. Farrington, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 10, 1940, Serial No. 339,662
29 Claims. (Cl. 252—32)

1. A composition of matter comprising a hydrocarbon oil containing a metal salt of an organic acid in an amount sufficient substantially to increase the corrosivity of said oil, and a corrosion inhibitor for reducing said increased corrosivity comprising an ester having as a substituent an element of the phosphorus group in a trivalent state no more than two carbon atoms removed from a carbonyl group of said ester.

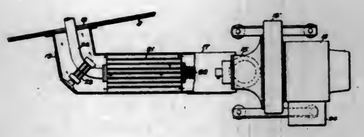
2,321,577
COMPOUNDED HYDROCARBON LUBRICANT
James O. Clayton and Bruce B. Farrington, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 10, 1940, Serial No. 339,663
16 Claims. (Cl. 252—32)

1. A compounded hydrocarbon oil containing a metal salt of an organic acid in an amount sufficient substantially to increase the corrosivity of said oil, and a corrosion inhibitor comprising an ester having a keto group no more than two carbon atoms from a carbonyl group of said ester.

2,321,578
COMPOUNDED LUBRICATING OIL
James O. Clayton and Bruce B. Farrington, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 10, 1940, Serial No. 339,664
22 Claims. (Cl. 252—32)

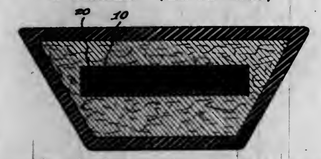
1. A compounded hydrocarbon oil containing a metal salt of an organic acid in an amount sufficient substantially to increase the corrosivity of said oil, and a corrosion inhibitor comprising an ester, said ester having a substituent comprising nitrogen with at least two bonds connected to a single atom, said substituent being directly attached to an alkyl carbon atom and no more than two carbon atoms removed from a carbonyl group of the ester.

2,321,579
COMBINATION HEATER AND GENERATING UNIT FOR ARMORED VEHICLES
Joseph M. Colby, United States Army, Lake Mills, Iowa
Application June 27, 1942, Serial No. 448,826
8 Claims. (Cl. 219—39)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



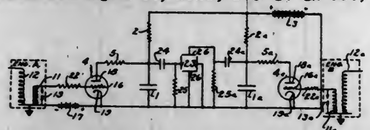
1. A heating unit for the main engine compartment of an automotive device comprising, a motor-generator set positioned outside of said compartment, a fan coupled to said set, a duct connecting said fan and said engine compartment, an electrical heater in said duct, and electrical connections between the generator and the heater.

2,321,580
POWER BELT CONSTRUCTION
Conrad M. Conradson, Detroit, Mich.; Frederick R. Walter, administrator of said Conrad M. Conradson, deceased, assignor, by mesne assignments, to Oscar Christianson, Madison, Wis., as trustee
Application November 20, 1939, Serial No. 305,267
3 Claims. (Cl. 74—233)



1. A mechanical unit for the transmission of rotary power comprising a thin metal strip wound longitudinally upon itself a plurality of times to form a laminated band, a thickness of soft, pliable material between one or more of the convolutions of said band firmly adhering to said convolutions, and a soft, pliable covering on said entire band serving to maintain the convolutions of said band in tight frictional contact.

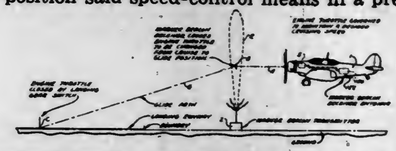
2,321,581
INDICATOR
Richard E. Conover, Dayton, Ohio
Application June 17, 1940, Serial No. 341,077
8 Claims. (Cl. 177—311)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



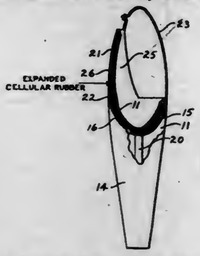
1. In an indicating device for comparing speed and phase relationships of two repeating functions, a pair of rotatable shafts; a first relay device normally maintained in nonconducting condition; a first condenser adapted to discharge through said relay device when said first relay device is rendered conductive; means associated with one of said shafts to render said relay device conductive periodically in proportion to the speed and phase angle of said one shaft; a cathode ray oscillograph having two pairs of deflecting plates, one of said pairs of plates having the potential of said first condenser applied thereacross; a second relay device normally maintained in nonconducting condition; a second condenser adapted to discharge through said second relay device when said second relay device is rendered conductive; means for charging and discharging each of said condensers under the control of its respective relay device; and means associated with the other of said shafts to render said second relay device conductive periodically in proportion to the speed and phase angle of said other shaft, the potential across said second condenser being applied across the other pair of said deflecting plates.

2,321,582
MARKER BEACON AND LANDING GEAR CONTROLLED THROTTLE ENGINE
Carl J. Crane and Raymond K. Stout, Dayton, Ohio
Application September 26, 1940, Serial No. 358,438
2 Claims. (Cl. 244—77)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a system for controlling an aircraft in the vertical plane by controlling the power output of the engine for propelling the aircraft, the combination with said engine of; an engine-speed-controlling means; a throttle engine operative to position said speed-controlling means in a plurality of predetermined positions, certain of said positions corresponding to the cruising, gliding, and idle speeds of said engine, respectively; means for causing said throttle engine to position said speed-control means in a predetermined cruising speed position; radio-signal-responsive means operative to cause said throttle engine to move said speed-control means from the cruising position to the gliding position, whereby said aircraft descends at a substantially constant rate; and means responsive to the contact of said aircraft with the ground to cause said throttle engine to change the position of said engine-speed-control means from the gliding position to the idle speed position.



2,321,583
BUOYANT INSULATING AND PROTECTIVE OVERALLS
Edward C. Craig, United States Navy, and Glen W. Leyde, Arlington, Va.
Application February 17, 1941, Serial No. 379,371
3 Claims. (Cl. 9—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Buoyant insulating protective overalls comprising an interlining of soft, light, flexible, buoyant form-retaining material, an inner lining and an outer lining, said interlining comprising a plurality of sections integrally secured together, said sections consisting of expanded cellular rubber, said sections consisting of four vertically extending sections, two front sections thereof being joined to form the front of the waist portion, two rear sections thereof being joined to form the rear of the waist portion, each of said front sections being joined to its corresponding said rear section below the crotch thereby providing leg portions, and separable fasteners extending along the outer edges of said joined front and rear leg portions making the leg portions snugly form-fitting.

2,321,584
COSTUME FOR USE IN MODELING DRESSES AND THE LIKE
Gertrude Ruth Cornell, Toronto, Ontario, Canada
Application March 25, 1941, Serial No. 385,210
4 Claims. (Cl. 35—56)

1. A costume for use in modeling clothes com-

prising, in combination, a facial mask formed of relatively rigid material, a resilient cloth-like garment shaped to cover said mask and enclose completely the head and upper body portion of the wearer in substantially form fitting relationship therewith, said face mask providing a rela-



tively rigid base for the front of the head portion of the resilient cloth-like garment in form fitting relationship therewith, and an opening in said resilient garment extending from the head to the lower extremity thereof, and means for closing said opening, and a wig detachably secured to the head portion of said garment.

2,321,585

BATHROOM SCALE

Earl M. Cummings, Rockford, Ill.

Application April 15, 1940, Serial No. 329,757
8 Claims. (Cl. 265—63)

1. In a weighing scale having a movable platform member, a base member, and counterpoising means for resisting movement of said platform member under load, a tape movable in response to movement of the platform member under weight to indicate the weight on the platform member, a guide for said tape fixed in relation to one of said members having a longitudinal slot for exposing a portion of the length of the tape, calibrations on said guide indicating units of weight in relation to which an index point on the tape is arranged to move in the movement of the tape, a rotatable drum adjacent one end of said guide to which one end of the said tape is attached, said drum being carried on one of the aforesaid base and platform members, means for operating said drum in response to movement of said platform under load, a rotatable rewind drum adjacent the other end of the guide on which the other end of the tape is attached and wound, said rewind drum being carried on one of the aforesaid base and platform members, and spring means for continuously urging the latter drum to revolve in a direction so as to wind the tape thereon.

2,321,586

REACTION PRODUCT OF A POLYMETHYLOL MELAMINE AND A HALOGENATED ACETAMIDE

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application February 14, 1941, Serial No. 378,933
14 Claims. (Cl. 260—42)

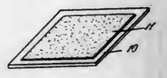
1. A composition comprising a reaction product of ingredients comprising a preformed polymethylol melamine and a halogenated acetamide.

2,321,587

ELECTRICAL CONDUCTIVE COATING

Preston Davie, New York, and Arthur L. Halvorsen, Purdy, N. Y.; said Halvorsen assignor to said Davie

Application May 10, 1940, Serial No. 334,462
1 Claim. (Cl. 117—93)



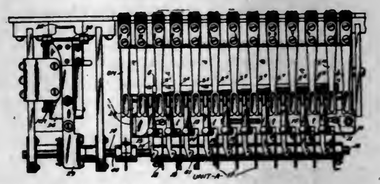
The method of forming an electrically conductive coating on a base which comprises applying to the base a coating of a coating composition comprising finely-divided particles of an electrically conductive material and a bonding medium, the applied coating being of relatively high electrical resistance, impressing a voltage between two conductors, placing said conductors in close proximity to separated areas of said applied coating to cause current to flow and thereby substantially reduce the electrical resistance of the coating between said separated areas, and passing at least one of said conductors over the surface of the applied coating to reduce the electrical resistance of substantially the whole of said surface.

2,321,588

AUTOMATIC TELEPHONE SYSTEM

George R. Eaton, Oak Park, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois

Application June 27, 1941, Serial No. 400,031
29 Claims. (Cl. 179—18)



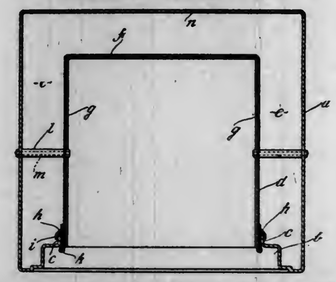
1. In a telephone system, a group of lines, a plurality of circuit controllers, sets of contacts in each circuit controller, each line terminating in contacts of a set of contacts in each of said circuit controllers, mechanism and circuits for controlling said circuit controllers whereby any idle one of said circuit controllers may be actuated automatically upon initiation of a call on one of said lines to seize the calling line, and means for transmitting directive impulses to said controlling mechanism, said circuits and mechanism being operative under control of said impulses to cause any idle one of said circuit controllers to establish connection to the line corresponding to the number of impulses transmitted.

2,321,589

MANUFACTURE OF CABINETS FOR REFRIGERATORS

Nils Erland af Kleen, Stockholm, Sweden

Application February 9, 1940, Serial No. 318,149
In Great Britain August 24, 1939
2 Claims. (Cl. 220—9)



1. In a refrigerator cabinet, inner and outer molded substantially cubical shells of plastic material spaced from one another to provide an insulation space therebetween, said inner shell having a straight edge portion defining an opening in the front thereof, said outer shell having a recessed front portion extending towards said inner shell across said insulation space and in alignment with the straight edge portion of said inner shell, said recessed front portion terminating in a rearwardly extending flange lying adjacent the outer surface of said inner shell and parallel to the latter adjacent said straight edge portion, an elastic packing element having a flat shank disposed between said flange and the adjacent outer surface of said inner shell, the flat surfaces of said shank extending along the adjacent surfaces of said flange and inner shell, said packing element having a hook portion adjacent the inner end of said shank overlapping the free edge of said flange, said packing element having an enlarged bead on the outer end of said shank projecting forwardly of the latter and overlying the straight edge portion of said inner shell and the recessed front portion of said outer shell, and a door hingedly mounted on said outer shell and having an inwardly extending inner portion conforming in shape substantially to the recessed front portion of said outer shell and adapted to compress said enlarged bead upon closure of the door to flatten said enlarged bead tightly against the straight edge portion of said inner shell and against the adjacent recessed front portion of said outer shell, whereby an air-tight seal is formed by one side of the flattened bead for the said insulation space between the inner and outer shells, and another air-tight seal is formed by the opposite side of the flattened bead for the door on closure of the latter.

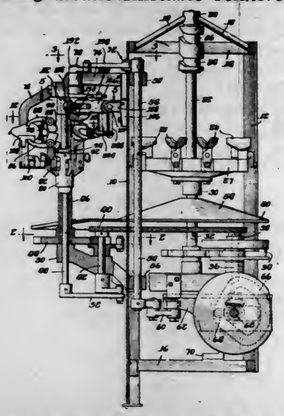
2,321,590

FRUIT BOBBING APPARATUS

Raymond L. Ewald, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon

Application May 10, 1938, Serial No. 207,039
27 Claims. (Cl. 146—81)

1. In a bobbing device for pears, the combination of means for holding the pear with its neck end extending in a predetermined direction, a tubular member, means for relatively shifting the pear and the tubular member to a position to cause the tubular member circularly to contact the neck of the pear adjacent the base of the stem, the free end of the stem projecting into the hollow of the tubular member, means for bobbing the neck of the pear while thus held, and stem ejecting means shiftable relatively to and



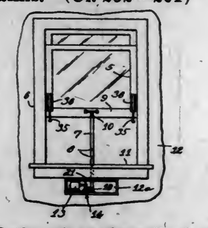
within said tubular member after the bobbing operation to eject the bobbed stem from the tubular member.

2,321,591

AUTOMATIC RELEASE MECHANISM FOR WINDOW SASHES OR THE LIKE

Clair C. Gardner, Rockford, Ill.

Application August 31, 1940, Serial No. 354,995
7 Claims. (Cl. 292—201)



5. A device of the class described, comprising a substantially vertical rod element adapted for attachment to a gravitating window sash movable in a window frame, said rod element disposed substantially vertically on the true longitudinal center line of the sash and frame and also in the central plane of the sash so that the longitudinal center line of the rod element when extended passes through the center of gravity of the sash, said rod element being attached to the lower end of the sash and arranged to be supported on the frame to hold the sash in an open position against its normal tendency to close, and mechanism for releasably gripping the rod whereby upon release of the rod the sash is allowed to return to normal position without tendency to chatter or bind in such movement.

2,321,592

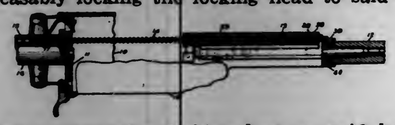
BACK PLATE AND DRIVING SPRING FOR MACHINE GUNS

Samuel G. Green, Gray, Ga., and Edward W. Hopkins, Enfield, Conn.

Application October 17, 1940, Serial No. 361,596
4 Claims. (Cl. 89—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a machine gun, a receiver, a back plate for the receiver, an extension secured to the back

plate and provided with a longitudinal bore communicating with the interior of the receiver, a driving spring rod, a driving spring on said rod, a locking head on the rear end of the driving spring rod, and means for releasably locking the locking head to said extension, said means for releasably locking the locking head to said ex-



tension comprising locking lugs on said head, coacting bayonet grooves within said bore of the extension, a stop pin secured to the extension for limiting rotary movement of the head in one direction and a plunger for normally limiting rotary movement of the head in a contra direction depressible to permit rotation of the head secured to said extension.

2,321,593
PREPARATION OF UNSYMMETRICAL ACETALS
William F. Gresham, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 22, 1940, Serial No. 353,658
3 Claims. (Cl. 260—615)

3. A process for the preparation of (methoxymethoxy) ethanol which comprises reacting under reflux ethylene glycol formal with methanol in the presence of an acidic catalyst, after the reaction is substantially complete, neutralizing the catalyst by the addition of sodium methoxide and subsequently recovering the (methoxymethoxy) ethanol by fractional distillation.

2,321,594
AMINO CARBOXYLIC ACID ESTERS OF HIGHER MOLECULAR WEIGHT CARBOXYLIC MONOESTERS OF GLYCOLS
Benjamin R. Harris, Chicago, Ill.
No Drawing. Application February 5, 1941, Serial No. 377,489
14 Claims. (Cl. 260—404)

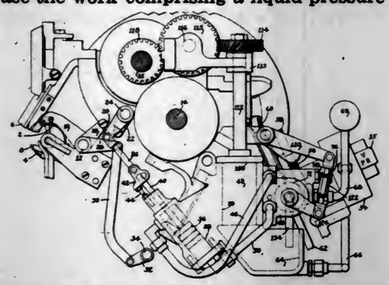
1. Primary amino-carboxylic acid esters of higher molecular weight carboxylic acid monoesters of glycols.

2,321,595
AMINO CARBOXYLIC ACID ESTERS
Benjamin R. Harris, Chicago, Ill.
No Drawing. Application February 5, 1941, Serial No. 377,490
12 Claims. (Cl. 260—404)

1. Primary amino-carboxylic acid esters of aliphatic polyhydroxy substances partially esterified with carboxylic acids, said aliphatic polyhydroxy substances containing at least four esterifiable hydroxy groups.

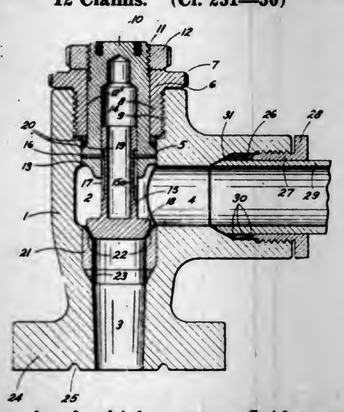
2,321,596
PRESSER FOOT MECHANISM FOR SHOE SEWING MACHINES
Otto R. Haas, North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 14, 1941, Serial No. 419,072
15 Claims. (Cl. 112—60)

1. A shoe sewing machine having, in combination, stitch forming devices, a presser foot, a work support and means for actuating the presser foot relatively to the work support to clamp and release the work comprising a liquid pressure re-



sponsive member and means for applying hydraulic pressure to and relieving the pressure from the responsive member during each sewing cycle of the stitch forming devices.

2,321,597
VALVE CONSTRUCTION
James Clarence Hobbs, Painesville, Ohio
Application February 23, 1940, Serial No. 320,476
12 Claims. (Cl. 251—50)

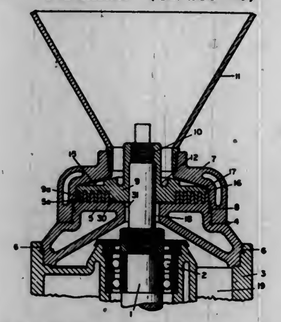


1. A valve for high pressure fluid comprising a metal body having a valve-receiving opening, outer and inner members in said opening having telescoped annular portions and axially opposed surfaces, annular packing means between said opposed surfaces and engaging the wall of said opening, said outer and inner members and packing being non-rotatable relative to each other, and a valve carrying stem freely slidable axially in said inner member.

2,321,598
PREPARATION OF DESOXYCHOLIC ACID
Willard M. Hoehn and Alexander W. Schneider, Kansas City, Mo., assignors to George A. Breon & Company, Inc., Kansas City, Mo., a corporation of Missouri
No Drawing. Application October 7, 1940, Serial No. 360,136
21 Claims. (Cl. 260—397.1)

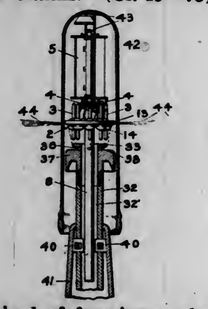
1. The process for the preparation of a dihydroxy cholanic acid which comprises oxidizing a trihydroxy cholanic acid having a free hydroxyl group in the 7 position, to form an intermediate ketone-containing compound, and substantially completely reducing the ketone group.

2,321,599
APPARATUS FOR MIXING
Maximillian P. Hofmann, Bay Village, Ohio, assignor to The C. O. Bartlett and Snow Company, Cleveland, Ohio, a corporation of Ohio
Application January 30, 1941, Serial No. 376,668
5 Claims. (Cl. 259—7)



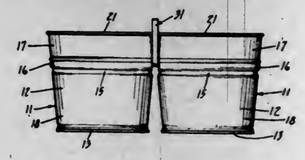
1. In apparatus of the character described, a mixing unit comprising a support, and a rotor and a two part stator carried by said support, one of said stator parts cooperating with one side of said rotor to provide a mixer inlet side, a plurality of impeller blades on the inlet side of said rotor, the peripheral portion of said rotor being operatively arranged with respect to said stator to effect a shearing action on material force therebetween by said impeller blades, the other of said stator parts cooperating with the other side of said rotor to provide a mixer outlet side and respectively provided with a plurality of annular intermeshing ribs, said impeller blades being operative to force material radially inwardly through said outlet side under pressure against the action of centrifugal force encountered therein, said stator and the outlet rotor side having facing flat annular surfaces positioned radially inwardly of said intermeshing ribs for effecting a final shearing action on the material being treated.

2,321,600
METHOD OF MAKING MOLDED STEMS
Clarence A. Horn, Newton, Mass., assignor to Raytheon Production Corporation, Newton, Mass., a corporation of Delaware
Original application February 24, 1939, Serial No. 258,263. Divided and this application April 25, 1939, Serial No. 269,871
5 Claims. (Cl. 49—78)



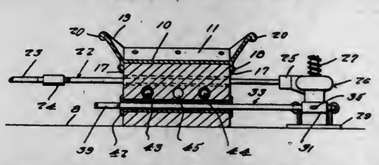
1. The method of forming a glass seal which comprises forming a relatively thick substantially flat glass wall member with a relatively thin glass sealing lip projecting from said wall member, and a plurality of lead-in conductors sealed into said wall member, heating the side wall of a glass envelope and said sealing lip to sealing plasticity without appreciably plasticizing said wall member, sealing the outer perimeter only of said sealing lip to the inner plasticized wall of said envelope, cooling said flat wall member while said lip is heated to insure rigidity of said wall member, and producing a pull-down between said flat wall member and said envelope.

2,321,601
CONTAINER
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 23, 1940, Serial No. 325,626
3 Claims. (Cl. 220—94)



1. A double bucket unit comprising individual tubular pail members arranged in juxtaposition and having a part of their contiguous walls riveted together, the body wall of each pail member being curled at its top edge, and a ring-like handle member loosely disposed between and surrounding the riveted contiguous walls of said pail members, said handle member being confined against displacement between said pail members by said riveted contiguous walls, said handle member being freely and bodily vertically movable from a non-carrying position where it is supported on said curled top edges of the pail members into a raised carrying position for supporting the two pail members as a single unit with sufficient clearance space for the fingers above the curled edge, the lower portion of said handle member when in carrying position engaging said contiguous riveted wall portions of each pail member.

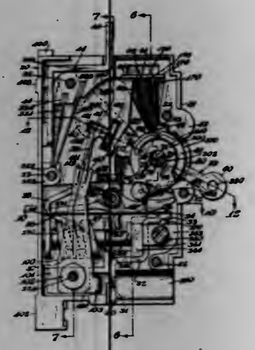
2,321,602
AUTOMOBILE JACK
Marthinus Jensen, Greenwich, Conn.
Application August 26, 1941, Serial No. 408,396
1 Claim. (Cl. 254—88)



Vehicle wheel jacking apparatus comprising a ramp onto which the selected wheel of the vehicle is to be run to elevate the wheel and its axle or equivalent above the road surface on which the ramp rests, a jack to rest on said road surface at a point inboard of the wheel and having a vertically movable element to engage and lift said axle or equivalent, jack aligning and holding means operatively connected between said ramp and said jack to cause the vertically movable element of the jack to be in alignment with said axle or equivalent when the said vehicle wheel is in position on the ramp, said jack aligning and holding means comprising split re-

silient rods extending through said ramp to said jack and frictionally interlocking with said ramp.

2,321,603
CIRCUIT BREAKER
Otto Jensen, Glenside, Pa., assignor to I.-T.-E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 27, 1940, Serial No. 331,967
8 Claims. (Cl. 200—88)

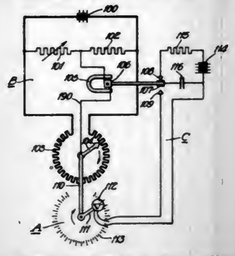


1. In a circuit interrupter, a support, a solenoid coil formed by a rigid conductor having a plurality of turns about an axis, an extension of said conductor substantially normal to said axis, a contact on said support for connection to an electrical circuit, a corresponding contact on said extension, means for connecting said solenoid in said same circuit and operating means for rotating said conductor and said entire solenoid coil about said axis to move said contacts into and out of engagement, said operating means being controlled in accordance with the degree of energization of the solenoid.

2,321,604
METHOD OF HYDROCARBON CONVERSION
Vladimir A. Kalichevsky and George F. Hornaday, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application December 22, 1939, Serial No. 310,568
2 Claims. (Cl. 196—52)

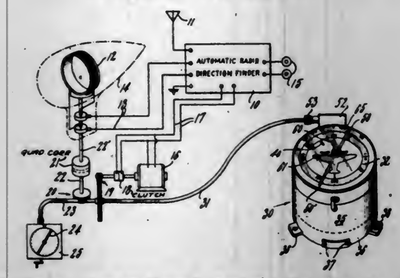
1. That method for the conversion of petroleum hydrocarbons comprising vaporizing hydrocarbons of high boiling point without substantial cracking during vaporization, superheating said vapors to a temperature appropriate for catalytic cracking to gasoline without substantial cracking of said vapors during said heating, adding a small amount of ammonia to said vapors, then passing said vapors into contact with a clay-like catalytic contact mass to accomplish a substantial cracking of the high boiling hydrocarbons to gasoline, and fractionating the products of cracking to separate therefrom the gasoline and a heavier oil of light gas oil nature, whereby, without substantial change in the physical properties or yields of gasoline and gas oil produced, an increase in cetane number of the gas oil over that produced in the absence of said ammonia is brought about.

2,321,605
MEASURING SYSTEM
George Keinath, Larchmont, N. Y.
Application March 21, 1941, Serial No. 384,489
15 Claims. (Cl. 171—95)



1. In an electric system for effecting an indication in accordance with a variable control magnitude, a balanceable network comprising variable circuit means for supplying said control magnitude, an adjustable impedance member to establish balance conditions, and a balance-responsive control device, in combination with an indicating mechanism comprising a stationary scale and an indicator member movable relative to said scale and having illuminating means for producing flashes of light, drive means for periodically and simultaneously varying the adjustments of said impedance member and said indicator member in a given relation to each other and over a range including the balance adjustment of said network, and a control circuit controlled by said balance-responsive member and connecting it with said illuminating means to produce during the periodic travel of said indicator member a light flash at the point of said scale which corresponds to the position of balance of said impedance member.

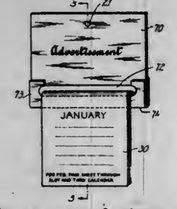
2,321,606
AIRCRAFT NAVIGATION INSTRUMENT
William P. Lear, Dayton, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois
Application May 15, 1940, Serial No. 335,229
17 Claims. (Cl. 250—11)



8. In a navigational system having a unidirectional automatic radio direction finder including motor means operable in accordance with the bearing direction of received radio signals, and a directional compass: a composite indicator of the character described comprising a radio track index for coupling with said motor means to indicate the bearing to a radio transmitter over 360° of arc, a 360° scale concentric with said radio track index, a desired track index rotatably arranged coaxially with respect to said scale, a telemetering arrangement including a repeater unit connected to said desired track index and

responsive to a transmitter unit coupled to the compass to spatially orient the desired track index in correspondence with indications of the compass; said telemetering arrangement having means for effecting a preferred angular displacement of indications of said desired track index with respect to said scale, and a second 360° scale attached to said means for angular displacement thereby in accordance with that effected between said units, said second scale being arranged to be visible with and concentric with said indices and positioned between said first mentioned 360° scale and said desired track index to constitute a compass bearing reference therefor.

2,321,607
CALENDAR
Malvin Lichter, New Rochelle, N. Y.
Application March 14, 1941, Serial No. 383,312
1 Claim. (Cl. 40—119)



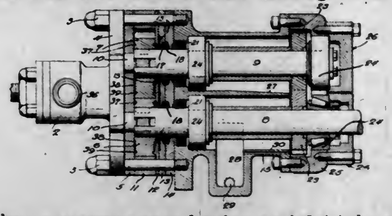
As an article of manufacture, a calendar having a support card, means at the upper end of said support card for suspending the same, and a slot near the lower end of said support card; a calendar pad secured to the portion of the support card beneath the slot, the free ends of the pages of said calendar being movable through said slot, the means for securing said pad to said card comprising an adhesive strip bendable over the lower edge of said card and securable in surface-to-surface relation with each surface of said card, said adhesive strip engaging the bound end of the pad, said adhesive strip being also formed to define the slot at the lower end of said card.

2,321,608
HYDROGENATION OF ALKOXY-SUBSTITUTED ESTERS AND PRODUCTS
Donald J. Loder, William F. Gresham, and Donald B. Killian, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1939, Serial No. 258,180
4 Claims. (Cl. 260—615)

3. An (alkoxymethoxy) monohydric aliphatic alcohol.

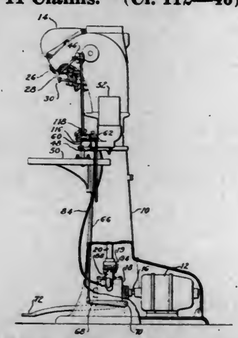
2,321,609
ROTARY PUMP
John Marco, Philadelphia, Pa., assignor to Marco Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 16, 1939, Serial No. 309,661
15 Claims. (Cl. 103—126)

1. In a pump of the character described, a rotor housing, a front wall for said housing formed with an inlet and an outlet, a transmission casing back of said rotor housing having a wall at its front end, a partition between the rotor housing and the transmission casing constituting a rear wall for said rotor housing, shafts rotatably mounted in said transmission casing and extending through the partition into said rotor housing, rotors carried by said shafts within the rotor housing and cooperating with each other to force material under pressure out of the rotor housing through the outlet, said partition being formed with an opening communicating with the outlet, the transmission casing being formed with a pocket registering with the opening in the partition and also with a duct leading from the



pocket, a pressure gage having an inlet tube communicating with a rear end of said duct, and a diaphragm mounted between the partition and the front wall of the transmission casing and separating the opening from the pocket and adapted to be flexed in response to variations in pressure within the rotor housing and act upon fluid in the pocket and the tube to actuate the gage.

2,321,610
WELT FEEDING DEVICE
Alfred R. Morrill, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 6, 1941, Serial No. 373,206
11 Claims. (Cl. 112—46)

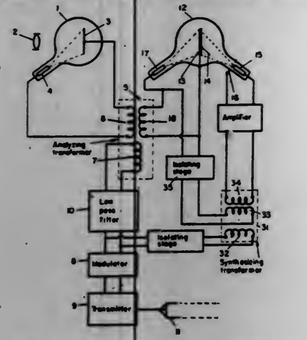


1. A welt feeding device for use in a shoe machine having mechanism for securing together parts of a shoe including a welt, and for feeding the work, which comprises a welt feeding element, and means for actuating said element at a rate for feeding the welt which is in excess of the rate at which the work is advanced by the feeding mechanism, and means responsive to a light pull exerted on the welt by the feeding mechanism to cause the welt feeding element to feed the welt, and by a slackening of that pull to discontinue the feeding of the welt.

2,321,611
TELEVISION
John J. Moynihan, Cleveland, Ohio, assignor of one-half to Joseph B. Brennan, Cleveland, Ohio
Application February 12, 1942, Serial No. 430,596
9 Claims. (Cl. 178—7.2)

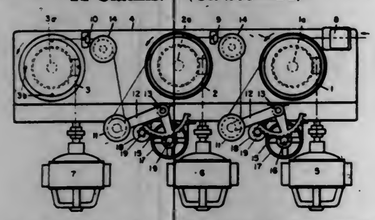
1. The method of generating television signals which includes the steps of scanning a succes-

sion of image frames, comparing the signal due to the scansion of each frame with the signal due to the scansion of a preceding frame, and
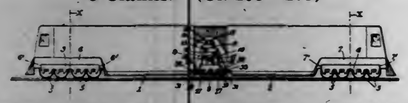


utilizing the signal differences between successive frames for transmission as the television signal.

2,321,612
WIRE DRAWING APPARATUS
Norman H. Nye, Cuyahoga Falls, Ohio, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio
Application August 28, 1940, Serial No. 354,550
11 Claims. (Cl. 205—14)



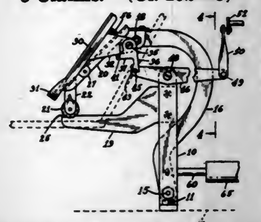
1. In wire drawing mechanism, the combination of a die with an electric motor driven wire drawing drum arranged forwardly thereof for drawing wire therethrough, and a movable tensioning sheave arranged rearwardly thereof for placing a back tension on the wire being drawn, power means comprising an electric tensioning motor connected to said sheave for biasing the same against movement under the influence of the back tension of the wire being drawn, and means responsive to the pull of said drawing drum for varying the force exerted by said electric tensioning motor in accordance with variations in the pull of said drawing drum.

2,321,613
LOCOMOTIVE
Rudolf M. Ostermann, Kenilworth, Ill.
Application August 28, 1940, Serial No. 354,553
9 Claims. (Cl. 105—175)



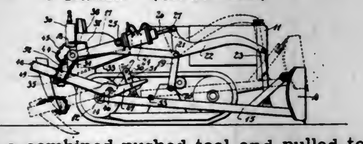
9. In combination a locomotive, a pair of frame sections, swivel trucks secured one to each of said sections and supporting it, and means joining said sections together for relative movement, said joining means shaped to prevent downward movement of the joined ends of said frame sections.

2,321,614
VEHICLE CONTROL MECHANISM
Clinton D. Palmer and William N. Lowe, River Forest, Ill.
Application April 20, 1940, Serial No. 330,742
5 Claims. (Cl. 192—3)



1. In combination with a moving device having means for feeding power to maintain and accelerate the speed of said device and means for braking the latter, a support, an arm pivotally carried by said support and a track member fixed thereto, a foot engaging element pivoted to said arm and supported by said track for translatory movement, means connected to said arm and operable by translation of the foot member for transmitting motion to said brake, and means operable by pivotal movement of the foot member for transmitting motion to the power feed, the latter transmission including an element which is automatically disengaged when the foot member is translated.

2,321,615
BULLDOZER
Thomas R. Paulsen, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Application August 9, 1941, Serial No. 406,090
4 Claims. (Cl. 37—145)

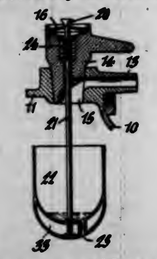


4. In a combined pushed tool and pulled tool, for attachment to a tractor, the combination of: a pushed tool; means for attaching this tool to a tractor so that it may be pushed thereby; a pulled tool; means whereby this pulled tool may be pulled by the tractor; means, carried by the tractor, for moving one tool into and out of operative position; means, whereby sa'd one tool can be operatively connected to the other tool so as to be moved into and out of operative position by the motion of the other tool; and means whereby said one tool, although still maintaining its operative connection to the tractor, but operatively disconnected from the other tool, can be locked in raised position, inactive in spite of motion of the other tool.

2,321,616
MILK-FLOW INDICATOR FOR MILKING MACHINES
Albert G. Perkins, Warsaw, N. Y.
Application May 5, 1941, Serial No. 392,019
14 Claims. (Cl. 31—86)

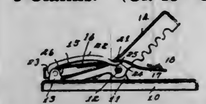
1. The combination with a vacuum milking machine, of a receptacle adapted for suspension from the cover of a milk-receiving can in communication with the flow of milk thereto and from which receptacle the milk is discharged at

a predetermined rate, a yieldingly-suspended member guided on said cover and rising from the receptacle for elevating it when substantially empty, and a vacuum-operated, audible signal device applied exteriorly of the cover in opera-



tive-governed relation to said receptacle-member and rendered operative thereby when the receptacle is drained of its milk content by reason of the flow of milk delivered by the machine being less than the rate of discharge of the milk from the receptacle.

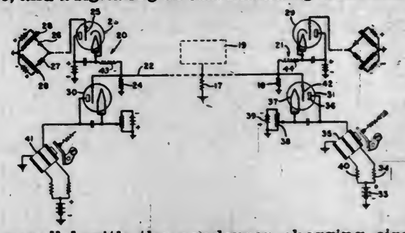
2,321,617
MOUSETRAP
Henry J. Peterson, Webster City, Iowa
Application November 21, 1941, Serial No. 419,927
5 Claims. (Cl. 43—83.5)



1. A mouse trap, comprising a base, a combined jaw and handle member pivoted to the base, a spring for urging the jaw toward the base, a combined trigger and bait holder pivotally supported and capable of limited movement toward and from the base at its pivotal center, a latch pivoted to the base and having a latch operating arm near its pivotal center and shaped to engage the under surface of the jaw handle member when the latter is fully depressed, and at the same time to hold the free end of the latch in position under that part of the trigger which is engaged by the latch, the trigger and bait holder having such degree of movement toward and from the base that when the latch is under the trigger the jaw handle may be moved upwardly by the spring to position out of engagement with the latch setting arm, leaving the latch free of frictional engagement with any part of the jaw handle or the trigger and whereby as the latch approaches setting position relative to the trigger, the outer end is free to adjust itself into firmly engaging position relative to the trigger.

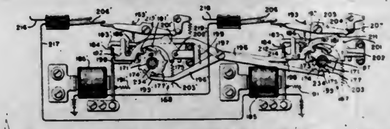
2,321,618
SPACE DISCHARGE OSCILLATING RELAY
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application September 18, 1939, Serial No. 295,414
16 Claims. (Cl. 178—58)

14. In a telegraph system, a transmitter, a receiver, and a repeater, said repeater including a gas tube having a cathode, anode, a grid, an oscillatory circuit in said repeater including the cathode, anode, and a condenser, a circuit for charging said condenser, a line conductor connecting said transmitter to said grid for impressing signal impulses on the grid to cause the oscillatory circuit to oscillate, which oscillations continue at the same amplitude provided the grid remains positive, and a signaling circuit including said receiver



in parallel with the condenser charging circuit whereby current is supplied to said receiver during said oscillation of said oscillatory circuit.

2,321,619
START-STOP REPEATER APPARATUS
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application November 30, 1934, Serial No. 755,253, now Patent No. 2,262,856, dated November 18, 1941. Divided and this application March 3, 1941, Serial No. 381,461
10 Claims. (Cl. 178—72)



1. In a telegraph repeating system, two line sections, two regenerative repeaters each comprising a cyclically rotatable signal pattern outlining member, one of said repeaters associated with each of said line sections to repeat impulses into the other of said line sections, and mechanical interlocking means interengaging said two members to prevent concurrent operation of said two members.

2,321,620
PHENOLIC COMPOUNDS
Burt Carlton Pratt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 10, 1940, Serial No. 360,678
9 Claims. (Cl. 260—619)

1. A di(hydroxyaryl)alkane in which two mononuclear, monohydroxyaryl groups are connected by a bivalent acyclic saturated hydrocarbon radical having a chain length of at least ten and not more than 14 carbon atoms between the monohydroxyaryl groups, and having not more than 34 carbon atoms.

2,321,621
TREATING ANIMAL TISSUE
John M. Ramsbottom, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 10, 1941, Serial No. 382,588
19 Claims. (Cl. 99—175)

1. The process for the treatment of animal tissues, which comprises subjecting the tissue to the action of ficin in sufficient amount to cause tenderizing of the tissue for a time sufficient to

obtain substantial tenderization without material disintegration of the tissue, maintaining the temperature during the treatment within the range of active enzymic action of ficin, and then arresting the action of said enzyme.

2,321,622
TREATMENT OF ANIMAL TISSUE
John M. Ramsbottom and Levi S. Paddock, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 10, 1941, Serial No. 382,589
17 Claims. (Cl. 99—175)

1. The process for the treatment of animal tissues, which comprises subjecting the tissue to the action of bromelin in sufficient amount to cause tenderizing of the tissue for a time sufficient to obtain substantial tenderization without material disintegration of the tissue, maintaining the temperature during the treatment within the range of active enzymic action of the bromelin, and then arresting the action of said enzyme.

2,321,623
TREATING ANIMAL TISSUE
John M. Ramsbottom and Levi S. Paddock, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 10, 1941, Serial No. 382,590
29 Claims. (Cl. 99—107)

1. A process for tenderizing animal tissue which comprises the steps of: subjecting the tissue to treatment with a proteolytic enzyme capable of tenderizing said tissue while maintaining a temperature within a range of active enzymic action for a period of time sufficient to allow enzymic action of the enzyme upon said tissue to substantially tender the same, but insufficient to cause material disintegration of said tissue; and then arresting the action of said enzyme to prevent further disintegration of said tissue.

2,321,624
TREATMENT OF ANIMAL TISSUE
John M. Ramsbottom and Levi S. Paddock, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 10, 1941, Serial No. 382,591
14 Claims. (Cl. 99—175)

1. The process for the treatment of natural casings which comprises subjecting the casings to the action of an animal proteolytic enzyme in sufficient amount to cause tenderizing of the casings, maintaining the temperature within the range of active enzymic action for sufficient time to cause substantial tenderization without material disintegration of the casings and then arresting the action of said enzyme.

2,321,625
TREATING ANIMAL TISSUE
John M. Ramsbottom and Levi Scott Paddock, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Original application March 10, 1941, Serial No. 382,590. Divided and this application December 31, 1941, Serial No. 425,208
15 Claims. (Cl. 99—107)

2. As a new article of commerce, an enzyme tenderized natural casing for use in making sausages and the like and characterized further by substantial increased stretchability as compared with an identical untenderized casing.

13. Enzyme tenderized, normally tough animal tissue characterized by substantially increased tenderness of the connective tissue component thereof and by a substantially increased moisture content, as compared with an identical but untreated animal tissue, said animal tissue having been subjected to the action of an added proteolytic enzyme for a sufficient time and at a temperature within the active range of said proteolytic enzyme but above refrigeration temperature to cause such tenderization, but without materially disintegrating said tissues, whereby said animal tissues are rendered capable of handling and shipment over prolonged periods of time without continued and complete enzymic disintegration of said tissues.

2,321,626
OIL-SOLUBLE PHENOLIC RESIN AND METHOD OF PREPARING SAME
Israel Rosenblum, New York, N. Y.
No Drawing. Application August 19, 1938, Serial No. 225,722
12 Claims. (Cl. 260—25)

1. The method which comprises condensing phenol and formaldehyde in the presence of pine oil and of an organic salt of zinc until a fusible, soluble resin is obtained.

3. The method which comprises condensing a phenol and a reactive methylene-containing body in the presence of a terpene alcohol, a catalyst and a member of the group consisting of natural resins and their esters and a mixture of a natural resin and its ester, until a fusible, soluble, homogeneous resin is obtained.

2,321,627
PHENOL-FORMALDEHYDE RESIN
Henry S. Rothrock, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 10, 1940, Serial No. 360,680
5 Claims. (Cl. 260—51)

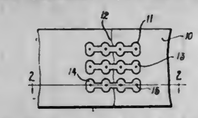
1. A resin comprising the reaction product of an aldehyde and bis-(hydroxyphenyl)-octadecane in which the hydroxyphenol nuclei are separated by a chain of more than 5 carbon atoms.

2,321,628
FLUID SEPARATOR
Will H. Rowand, Plainfield, N. J., and Ernest C. Huge, Barberton, Ohio, assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application July 6, 1940, Serial No. 344,200
1 Claim. (Cl. 183—83)



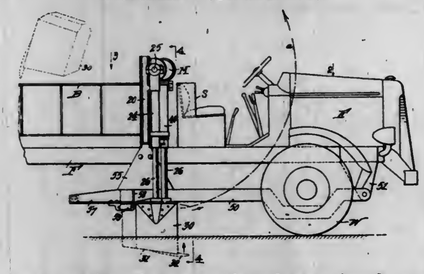
In a steam and water separator adapted for use in a steam and water drum under high pressure, means forming an upright frusto-conical whirl chamber into which a steam and water mixture with a high water to steam weight ratio is discharged so that it will have a whirling motion within the whirl chamber, means forming a separate steam opening communicating with the top of the whirl chamber, means forming a separated water outlet at the bottom of the whirl chamber and in a circumferential zone adjacent the maximum perimeter of the whirl chamber, steam and water inlet means secured to and associated with the smaller end of the whirl chamber and having its outer wall forming a surface in the nature of a helical scroll directed downwardly toward the whirl chamber outlet for separated water, the outer wall of the inlet including upright elements in successive radial planes with successive elements having their upper ends displaced progressively more toward the longitudinal axis of the whirl chamber until an element merges with an element of the frusto-conical surface of the whirl chamber.

2,321,629
MEANS FOR REPAIRING FRACTURED CASTINGS
Lawrence B. Scott, Houston, Tex.
Application November 28, 1940, Serial No. 367,540
10 Claims. (Cl. 189—36)



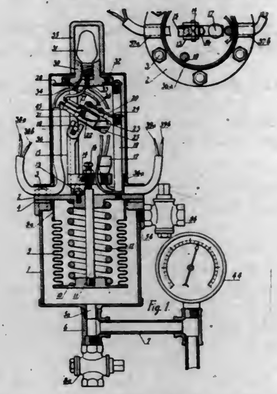
1. The combination with a casting of a reinforcing member including, an elongate integral element having its longitudinal axis disposed parallel to the surface of the casting and within a recess formed in said casting, and a wedge member having its base portion bearing against the bottom of the recess adapted to expand the element into snug engagement with the walls of said recess.

2,321,630
COMBINED POWER SHOVEL AND TRUCK
Charles W. Shippee, Worcester, Mass.
Application February 9, 1942, Serial No. 430,063
5 Claims. (Cl. 214—78)



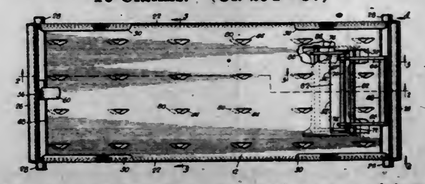
1. A combined power shovel and truck comprising a truck body, a truck frame, front and rear wheels for said frame, buckets at each side of said frome positioned between the front and rear wheels when in working position and mounted to swing in fixed vertical planes converging rearwardly with respect to the truck body and parts of said buckets when in operative position being positioned beyond the sides of said body, means to raise and lower said buckets in said fixed planes, and means to swing said buckets upward and rearward in said fixed planes to dumping position over said truck body and simultaneously inward between the sides of said body and toward the longitudinal center line thereof.

2,321,631
FLUID PRESSURE CONTROLLING APPARATUS
Ludvik Sibal, Long Island City, N. Y.
Application March 4, 1941, Serial No. 381,652
3 Claims. (Cl. 177—311)



3. A pressure regulating apparatus of the class described, incorporating a bellows, a housing encasing the bellows, a magnetically operated electric switch, a mechanism which actuates the switch with the slightest changes of pressure to which the bellows is subjected, a cover closing the housing and having the bellows tightly secured to itself, a number of pillars extending upward from the cover and fastened securely to it, a ring fastened to the upper ends of the pillars, an insulated socket fastened to the ring in a suitable manner, the socket being provided on its outside with threads, a cap threaded on the inside fitting over the socket, a shell of preferably tubular form as a closure over the switching mechanism, the bottom part of the shell fitting over a correspondingly formed protruding part of the cover of the housing, the upper part of the shell being provided with a hole in its center which fits over the threaded part of the socket, the shell being held tightly against the cover of the housing by the threaded cap made preferably of transparent material to make it possible to observe the glow of the bulb inserted in the socket.

2,321,632
STICK HANDLING MECHANISM
Herman Siemund, Chicago, Ill., assignor to Greenview Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application May 10, 1941, Serial No. 392,855
16 Claims. (Cl. 294—87)



11. A stick handling apparatus comprising a main structure having a plurality of spaced stick receiving means, a separable secondary structure consisting of a plurality of separable members each of which is provided with a plurality of correspondingly spaced stick receiving means, and actuating mechanism carried by said sec-

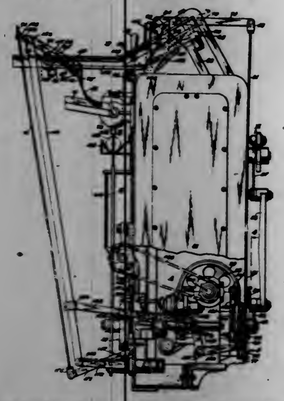
ondary structure, said actuating mechanism being readily separable from said secondary structure whereupon its members are released for cleaning purposes.

2,321,633
ALTIMETER OR BAROMETER
Raymond K. Stout and Charles L. Paulus, Dayton, Ohio
Application June 15, 1940, Serial No. 340,703
4 Claims. (Cl. 73—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



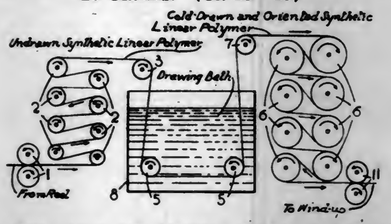
3. A pocket-sized atmospheric pressure measuring device of the type utilizing a partial vacuum above the indicating fluid, comprising a tubular element having enlarged end portions connected by an intermediate portion of reduced diameter, a reentrant surface formed in the end of one of said end portions, a resilient diaphragm located over the mouth of said reentrant surface, a protective sleeve surrounding said element and having a longitudinally extending slot with scale markings provided along said slot, said sleeve being adjustably retained upon said tubular element so as to enable said markings to be adjusted relative to said tubular element, and an end cap covering the end of said tubular element which contains said reentrant surface for the purpose of protecting said diaphragm from injury or disturbance.

2,321,634
MACHINE FOR MAKING AND SHAPING CAKES
Harry G. Tatosian and Robert A. Yohai, New York, N. Y.
Original application November 2, 1939, Serial No. 302,532. Divided and this application December 30, 1940, Serial No. 372,314
20 Claims. (Cl. 107—58)



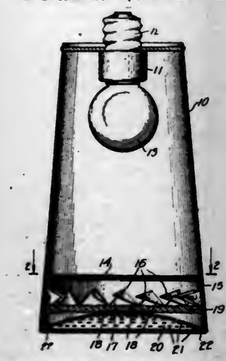
10. A transferring mechanism for removing and delivering flat cakes from a traveling baking machine to a cake receiver comprising a pair of jaws for gripping said cake on the cake adhering face of its respective baking unit, means for reciprocating said jaws between the discharge position of the baking unit and the cake receiver, and means for guiding said jaws along a predetermined path during their reciprocating movement including a trackway having successive sections, one of said sections extending towards said baking unit transversely to its cake adhering face in discharge position thereof, a second section extending from the forward end of said first section substantially parallel to said face, and a third section extending away from said face transversely thereof.

2,321,635
TREATMENT OF POLYAMIDE FILMS
Guy B. Taylor, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 26, 1940, Serial No. 367,289
10 Claims. (Cl. 18—15)



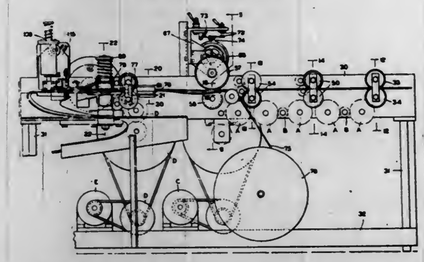
7. Apparatus for drawing films of polymeric material capable of being cold drawn to permanent and substantial increase in length, said apparatus comprising a vessel adapted to contain a fluid medium to facilitate drawing of the film, two series of driven rolls arranged to convey the film through said vessel, one of said series of rolls being adapted to lead the film into said vessel, means for driving said last mentioned rolls at such successively increasing speeds which will build up the tension of the film passing through the rollers and into the vessel to the extent required to draw the film in the vessel, the other of said series of driven rolls being adapted to lead the film from said vessel, means for driving said last mentioned rolls at successively decreasing speeds and at an average peripheral speed substantially greater than that of the first mentioned series of rolls.

2,321,636
BLACK-OUT LAMP
John Philip Todd, Mamaroneck, N. Y.
Application February 5, 1942, Serial No. 429,592
4 Claims. (Cl. 240—108)



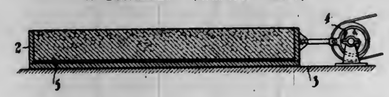
1. A lamp comprising an opaque shade, a lamp bulb mounted therein, means for filtering said light so as to permit the passage therefrom of light of a color of low visibility only and for diffusing said light, a wire mesh screen positioned between and spaced apart from both said lamp bulb and said light diffusing and filtering means and a perforated disc positioned on the outside of said light diffusing and filtering means.

2,321,637
CONTOURING MACHINE
Felix J. Watts, Detroit, Mich., assignor to The Standard Products Company, Port Clinton, Ohio, a corporation of Ohio
Application August 26, 1940, Serial No. 354,149
5 Claims. (Cl. 153—2)



1. Apparatus for producing polygonal shapes from continuous strip comprising means for continuously advancing said strip, shaping means including a swinging arm, a clutch member operatively connected thereto, the circumferential extent of swing of said arm being determined by the period of engagement of said clutch member, said swinging arm being disposed to intermittently engage said strip and bend it in contact with a curved anvil member, and timing means for determining the period and duration of engagement of said swinging arm.

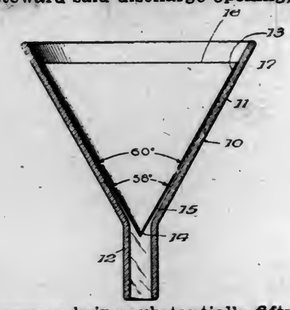
2,321,638
COATED MOLD AND METHOD OF MOLDING CONCRETE
Francis A. Williams, Toronto, Ontario, Canada
Application August 23, 1940, Serial No. 353,820
2 Claims. (Cl. 25—122)



1. A method of forming a structure of an ordinary hydraulic cement concrete having a glossy or glazed face, which comprises placing said concrete in a form having a covering of hydrochloride of rubber; compacting the concrete to ensure intimate contact with said covering; allowing the covering to remain in contact with said concrete until the concrete has sufficiently hardened to obtain the desired height of gloss; and finally separating the covering from the hardened concrete.

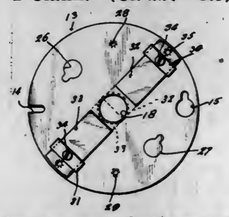
2,321,639
FUNNEL AND METHOD OF FILTERING
George Zarbo, Vineland, N. J., assignor to Kimble Glass Company, Vineland, N. J., a corporation of Illinois
Application September 7, 1939, Serial No. 293,847
3 Claims. (Cl. 210—160)

1. A funnel having a cone-shaped body portion having a discharge opening at its apex and a wide mouth, the inner surface of the funnel converging toward said discharge opening, the angle



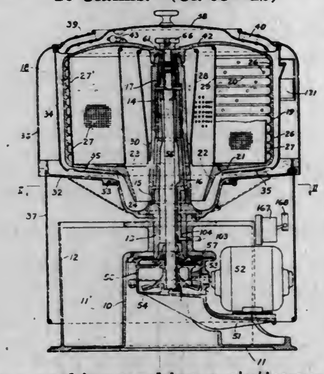
of convergence being substantially fifty-eight degrees.

2,321,640
OUTLET BOX COVER AND FIXTURE SUPPORT
Glen O. Adkins, Hamlin, W. Va.
Application March 22, 1940, Serial No. 325,459
1 Claim. (Cl. 220—3.8)



A cover for an open bottom outlet box, said cover comprising a disk having a central access opening therein, means adapting said disk for attachment to said bottom, a pair of flat bar slides on the under side of said disk endwise adjustable toward and from each other to close and open said access opening, respectively, and adjustable from each other to extend outwardly beyond the edge of the disk, U-shaped saddles formed integrally with said disk for slidably maintaining the slides in place, and set screws in said saddles for engaging and locking said slides in adjusted position.

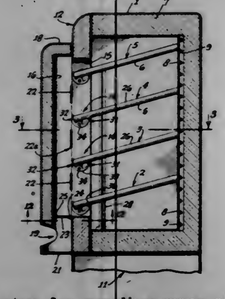
2,321,641
WASHING MACHINE
Ludvig Andersen, Wauwatosa, Wis.
Application April 22, 1940, Serial No. 330,938
16 Claims. (Cl. 68—12)



1. In a washing machine, a stationary support

comprising a hollow standard; a drum comprising a hub mounted for rotation on bearings on said standard, a substantially cylindrical wall and a bottom provided with an annular central aperture surrounding said hub; an annular chamber between said standard and said hub and extending between said bearings; an annular skirt surrounding said aperture and depending from said bottom; a plurality of radial vanes connecting said skirt and said hub; and means for introducing washing fluid into said annular chamber for lubricating said bearings.

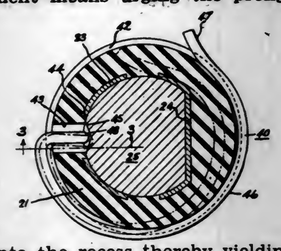
2,321,642
VENDING MACHINE
Howard E. Anthony, Los Angeles, Calif.
Application August 2, 1941, Serial No. 405,205
7 Claims. (Cl. 312—44)



1. Apparatus for vending cups of ice cream or the like, comprising a casing; a plurality of vertically spaced cup-supporting racks located within the casing and sloping downward and forward toward one side wall of the casing for feeding cups forward in a direction toward said wall; wall means defining a downward extending delivery chute having a delivery opening at its lower end at a position below the racks; guide means adjacent the lower end of each rack for guiding the cups one at a time toward the delivery chute; delivery means for each rack pivotally mounted adjacent the delivery chute, and comprising a pair of fingers spaced from one another in the direction of cup movement, one of said fingers normally engaging a cup to prevent discharge thereof into the delivery chute, said delivery means being pivotally movable from said normal position to another position in which said one finger is out of the path of travel of a cup and the other finger engages the other side of said cup to move said cup into the delivery chute and prevents delivery of other cups from said rack into said delivery chute; and means operable from the outside of the casing for selectively operating the delivery means.

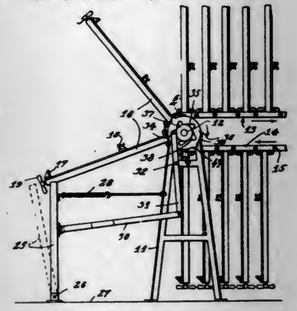
2,321,643
DISTRIBUTOR ROTOR LOCK
James L. Arthur and William D. Schrope, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 20, 1941, Serial No. 407,645
7 Claims. (Cl. 200—19)

1. A coupling device comprising a removable member having a recess adapted to be mounted on a shaft; a body carried by the removable member, said body having a boss provided with a permetrical groove and a radial opening in communication with the groove and in substantial alignment with the recess; a prong extending through the opening; and resilient means associated with the prong embracing the groove, said resilient means urging the prong radially



inward into the recess thereby yieldingly holding the body against accidental axial movement in respect to the shaft.

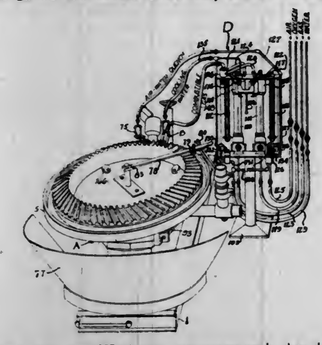
2,321,644
GLUE CLAMP CARRIER
Edwin J. Billstrom and Andrew W. Redin, Rockford, Ill., assignors to Nels J. Billstrom, Inc., Rockford, Ill., a corporation of Illinois
Application March 26, 1942, Serial No. 436,288
33 Claims. (Cl. 144—289)



18. Automatic control mechanism for controlling the forward and reverse movements of a motor operated device, comprising in combination with a reversible electric motor for driving said device in either direction, a motor reversing electrical switch mechanism between a source of electric current supply and said motor to control the operation of the latter, manually operable means for moving said switch mechanism from neutral to one position to start a forward movement of said device, means operable at a predetermined point in the movement of said device to move said switch mechanism to another position to reverse the movement of said device, and another means operated in timed relation with said device to move said switch mechanism to neutral again at a predetermined point in the reverse movement of said device.

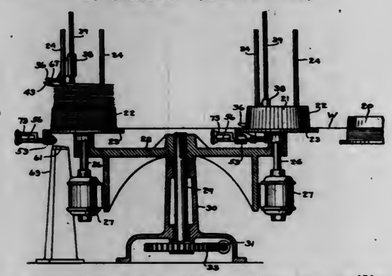
2,321,645
APPARATUS FOR FLAME HARDENING OF ARTICLES
James O. Bishop, Torrance, and Lloyd L. Babcock, Compton, Calif., assignors to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 3, 1940, Serial No. 350,196
11 Claims. (Cl. 266—4)

1. In a device for heat treating the teeth of a gear, the combination of, a torch positioned adjacent the flank of a tooth and extending along the flank for substantially the full length thereof, means on the torch for directing a mat flame at right angles against the entire flank surface which is to be heat treated, and means for im-



parting an oscillatory movement to the torch, both laterally and longitudinally of the flank surface.

2,321,646
APPARATUS FOR COILING WIRE
Albert G. Blodgett, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application December 10, 1940, Serial No. 369,465
19 Claims. (Cl. 242—80)



13. Apparatus for the continuous coiling of wire comprising two elements rotatable about spaced parallel axes, the first element being arranged to serve as a rotating wire-guiding pulley about which the wire travels in an arcuate path on its way to the second element, the wire being wound on the second element, means associated with the first element to grip and sever the portion of the wire traveling in said arcuate path, thereby starting to wind the wire on the first element, means to exchange the positions of the elements so that the second element will serve as a rotating wire-guiding pulley about which wire will travel in an arcuate path on its way to the first element, and means associated with the second element to grip and sever the portion of the wire traveling in the arcuate path about the same, thereby starting to wind the wire on the second element.

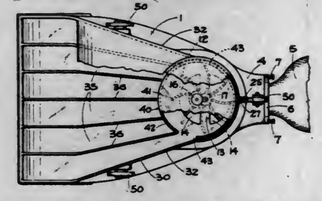
2,321,647
APPARATUS FOR MAKING CONTAINERS
Frank O. Brougham and Edmond E. Poulin, Springfield, Mass., assignors to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application September 21, 1939, Serial No. 295,938
3 Claims. (Cl. 93—19)

1. A bag machine for making open-mouthed bags comprising means for rotatably mounting a supply roll of heat-fusible material so that the web of said heat-fusible material may be drawn through the machine, a pair of opposed draw rolls for drawing the web through the machine, a web forming element mounted between said draw rolls and the web supply roll arranged to engage said web along a line longitudinally thereof and intermediate its side edges and operable to cause the web to be folded lengthwise thereof into a doubled web with the free edges of the web residing adjacent one side of said doubled web and defining therebetween the open



mouth of the bags, a sealing mechanism disposed at the other side of said draw rolls from said forming element and including relatively narrow closely spaced parallel heated portions arranged to engage periodically the doubled web transversely of said web to fuse together the double web portions thereof in paired groups of relatively narrow closely spaced transverse zones at intervals therealong, and cutting means operable in timed relation with said seam sealing means to sever sections from the web transversely thereof on lines intermediate each paired group of said narrow closely spaced transverse fused zones therein.

2,321,648
SUCTION CLEANER
David J. Brunner, Jr., Shaker Heights, Ohio
Application October 11, 1940, Serial No. 360,794
3 Claims. (Cl. 15—16)

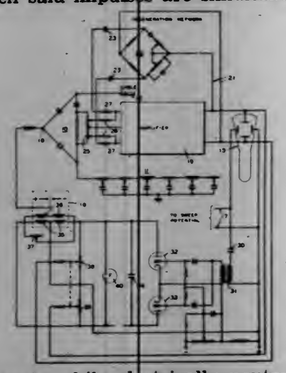


1. In apparatus of the class described, the combination of a suction chamber having a cylindrical peripheral wall, a nozzle including a plurality of ducts that open into the suction chamber through said wall, the outlet ends of the ducts being arranged in series about the wall, a shutter including a cylindrical wall of slightly less diameter than the peripheral wall of the chamber, the cylindrical wall of the shutter having openings spaced apart considerably further than the outlet ends of the ducts, the shutter being rotatably supported within the chamber with its axis coincident with that of the chamber, a fan chamber whose inlet communicates with the suction chamber through an end wall of the latter, a fan in said chamber, means for rotating the fan, and operative connection between the same and said shutter.

2,321,649
CABLE BALANCING METHOD AND APPARATUS
William D. Buckingham, Southampton, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 351,025
6 Claims. (Cl. 178—69)

1. The method of balancing a circuit and an

artificial line which consists in impressing cyclic current impulses on said circuit and artificial line, selectively amplifying a single frequency component of the unbalance current resulting from mismatching of said circuit and artificial line when said impulses are simultaneously ap-



plied thereto while electrically neutralizing the other frequency components resulting from said mismatching, producing a visual indication of the magnitude of said single frequency component and adjusting the elements of the artificial line to reduce the magnitude of said component.

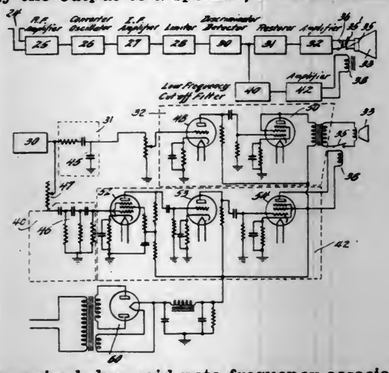
2,321,650
FISHING REEL
Frank Burdick, Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich., a corporation of Michigan
Application May 1, 1941, Serial No. 391,322
6 Claims. (Cl. 242—84.4)



6. In combination with an automatic fishing reel, including a frame assembly of substantially circular formation comprising end walls and a peripheral portion extending therebetween, said peripheral portion having an elongated opening formed therein, line level winding means curved throughout the length of the same to substantially conform with the curvature of said peripheral portion spanning said elongated opening and having opposite ends movably mounted on portions of said peripheral portion in proximity to the opposite ends of said elongated opening, and means connected to the line level winding means for imparting motion thereto.

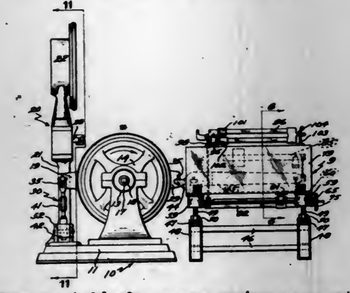
2,321,651
RADIO SIGNALING SYSTEM
John B. Caraway, Jr., Newark, N. J., assignor to Evansville on the Air, Inc., Evansville, Ind., a corporation of Indiana
Application April 20, 1942, Serial No. 439,762
9 Claims. (Cl. 250—2)

1. In a frequency modulated radio system, in combination, a transmitter including a speech frequency predistorter arranged to amplify the speech frequency spectrum at progressively increasing rates toward the high frequency end, means to modulate the transmitter with such distorted broadcast programs, means to separately apply to the predistorter a note of constant frequency near the peak of the audible range, a conventional frequency modulated receiver including a restorer to correct said predistortion and apply the output to a speaker, a filter excluding



frequencies below said note frequency associated with said receiver ahead of said restorer, means to amplify said note frequency from said filter, a normally open relay switch in the speaker circuit, said amplified note frequency current being arranged to close said relay switch.

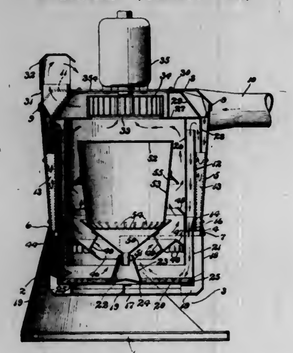
2,321,652
PORTABLE FORCE MEASURING APPARATUS
Oswald S. Carliss, Fairfield, Conn., assignor to The Kron Company, Bridgeport, Conn., a corporation of Connecticut
Application March 12, 1940, Serial No. 323,569
12 Claims. (Cl. 265—24)



5. In a portable force measuring apparatus for checking the indicating reading of a torque measuring and indicating instrument operatively associated with a dynamometer having a force transmitting device pivotally mounted for swinging movement past the level of its pivotal axis, the combination of, a transportable base structurally independent of said dynamometer and adapted to be moved bodily to and from proximity thereto, an elevatable frame section carried by said base, a plurality of interlinked levers respectively rockable on a plurality of fulcrums on said frame section, one of said levers projecting laterally from said frame section sufficiently to reach into the path of said swinging movement of said force transmitting device when said base is appropriately maneuvered and placed in relation to said dynamometer, a plurality of horizontally spaced lifting and lowering instrumentalities supported by said base and engaging with said frame section constructed and arranged to

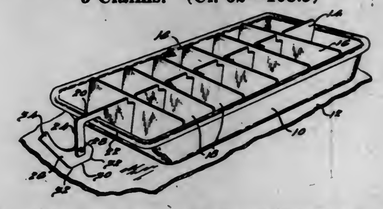
elevate the latter with respect to the former in a manner to prevent tilting of said frame section relative to said base thereby to cause said lever to meet said force transmitting device on the said level without disturbing the relative heights of said fulcrums, and manipulative counterbalancing and measuring devices carried by said frame section operatively connected through said interlinked levers to said projecting lever for biasing the same to a known degree indicated by said devices for test comparison with the force indictaing reading of said measuring and indicating instrument.

2,321,653
AIR CLEANER
Albin A. Carlson, Muskegon, Mich.
Application July 29, 1941, Serial No. 404,492
1 Claim. (Cl. 183—21)



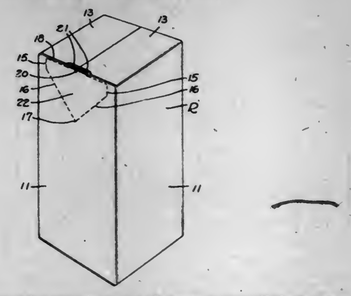
In a construction of the class described, an outer substantially vertical casing having a closed top and provided with air inlet means adjacent the top, a vertical cylindrical member within and spaced from the walls of the outer casing, transverse means securing said cylindrical member to the outer casing, a receptacle having a bottom and substantially vertical side walls open at its upper end releasably connected at said upper end to the lower end of said casing, a second receptacle having a bottom and substantially vertical walls carried by and within and spaced from the first receptacle, said second receptacle being opened at its upper end, means for releasably holding the upper edges of the second receptacle in engagement with said cylindrical member providing a substantially air-tight joint, a cylindrical sleeve within the cylindrical member and spaced therefrom provided with a horizontal top at its upper end having a central opening therein, said top extending beyond the first mentioned cylindrical member and at its edges having a downwardly extending cylindrical apron resting upon said transverse means connecting the first mentioned cylindrical member and outer casing, a dome over said top engaging against the top closure of the casing, a suction fan mounted within said dome, means for driving said fan mounted on and above the casing, said dome having an air outlet, and means connected and associated with and extending below said cylindrical sleeve and upwardly therein whereby air drawn into the casing through said inlet means is directed downwardly into said inner receptacle and thence upwardly around said last mentioned means to said fan, the liquid in said inner receptacle against which the air impinges being agitated and a portion thereof carried in suspension in the air to collect dust from the air, said last mentioned means having a plurality of surfaces against which said liquid and dust laden air contacts, the liquid with the dust collected thereby adhering to said surfaces and draining by gravity back to the body of liquid in the inner receptacle.

2,321,654
ICE TRAY
Clifford R. Carney, Dearborn, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 9, 1940, Serial No. 369,153
5 Claims. (Cl. 62—108.5)



5. In an ice tray grid having cooperating longitudinally and transversely extending separator members adapted to fit within a pan to divide the space within the pan into a plurality of ice block compartments, a projection carried by the longitudinal separator member of the grid and adapted to overlie and extend beyond the front edge portion of the pan free of contact therewith, said projection terminating in a portion positioned outside of the pan and directed downwardly towards the bottom of the pan, and manually operable camming means spaced from the pan and pivoted to said portion of the projection which is positioned outside of the pan to release the pan.

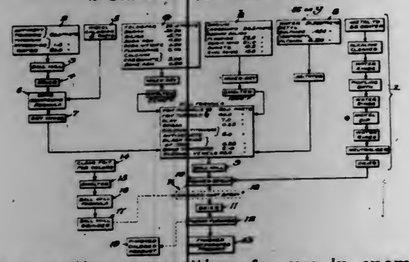
2,321,655
DISPENSING PACKAGE
Trem Carr, Los Angeles, Calif.
Application September 25, 1939, Serial No. 296,354
5 Claims. (Cl. 229—7)



1. A liquid dispensing package comprising: an inner flexible and sealed container having a hollow and generally triangular flap at one end through which the fluid contents of the container can be poured; a carrier receptacle enclosing the container and confining said flap flatwise between the latter and a wall of the receptacle; a closure forming a part of said wall of the receptacle and tearable therefrom along a predefined line a portion of which extends along the junction of said wall with another wall, to leave a generally triangular opening in said wall through which said flap will be exposed for operation as a pouring spout having a flat top side extending along the junction of said wall with

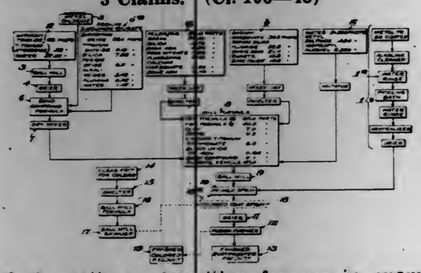
said another wall and with the apex of the spout at the bottom thereof; and a finger piece projecting from an edge of said closure sufficiently beyond an end of said wall to be engageable by a finger in opening the closure.

2,321,656
ENAMEL COATING FOR FERROUS METALS
Allan E. Chester, Chicago, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware
Application June 19, 1941, Serial No. 398,842
2 Claims. (Cl. 106—48)



1. A coating composition, for use in enamel coating process, consisting of a mill formula including an aqueous alcohol vehicle, a bonding compound formula composed of antimony trioxide, titanium hydroxide and nickel chloride, and a blend of a raw glass batch of relatively high maturing temperature with an eutectic frit of a relatively low maturing temperature.

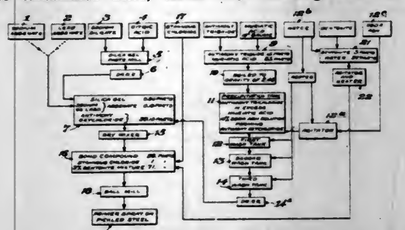
2,321,657
ENAMEL COATING FOR FERROUS METALS
Allan E. Chester, Chicago, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware
Application June 23, 1941, Serial No. 399,384
3 Claims. (Cl. 106—48)



1. A coating composition for use in enamel coating processes, consisting of a mill formula including an aqueous alcohol vehicle, a bonding compound having a base of antimony trioxide and titanium hydroxide and including sodium zirconium silicate, and a blend of a raw glass batch of relatively high maturing temperature with an eutectic frit of a relatively low maturing temperature.

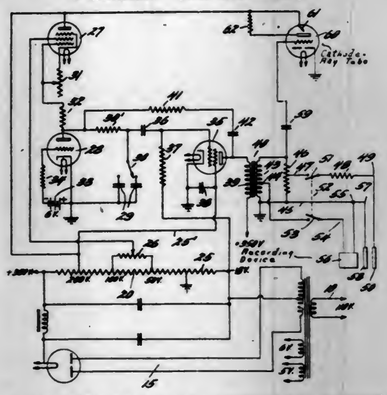
2,321,658
PROCESS FOR USE IN COATING METAL SURFACES
Allan E. Chester, Chicago, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware
Application June 27, 1941, Serial No. 400,102
1 Claim. (Cl. 148—7)

A process of preparing a bonding compound for use in enamel-coating processes, which consists in first preparing a basic mixture composed of antimony oxychloride, silica gel, and an alkaline arsenate salt, then dry mixing said basic



mixture and subsequently combining the same in an aqueous colloid with stannous chloride and bentonite to complete the composition, and finally grinding the said complete composition to a fineness for use as a spray.

2,321,659
VARIABLE FREQUENCY STIMULATOR
Harold V. Connerty and Walter Henry Johnson, Washington, D. C.
Application February 3, 1941, Serial No. 377,272
5 Claims. (Cl. 128—422)

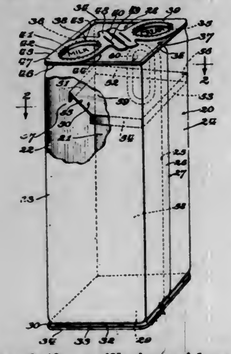


1. A variable frequency stimulator comprising a source of direct current, a variable oscillator circuit comprising a current limiting tube connected between said current source and a relaxation oscillator tube, an electron amplifying tube, an output transformer, said amplifying tube being coupled to the output of said oscillator tube, the primary coil of said transformer being connected in series between the anode of said amplifier tube and said voltage source, a resistor and condenser connected in series with each other and in series between the anodes of the amplifier and oscillator tubes to act as a negative feed back in the circuit to stabilize the same, and a pair of applicator electrodes connected to the secondary coil of said transformer.

2,321,660
MILK CONTAINER
Joseph F. Courtney, Chicago, Ill., assignor of one-half to Theron L. Hedgpeth, River Forest, Ill.
Application November 14, 1940, Serial No. 365,579
1 Claim. (Cl. 229—15)

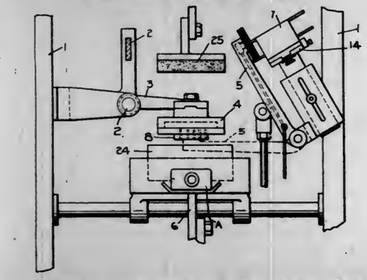
A milk container comprising a member having substantially rectangular sides, top, and bottom,

said container being provided on one of its sides with a longitudinally extending opening located to extend above and below the cream line in said container, and said opening being covered by a layer of transparent resin cemented to the wall of said container on said side, said container being provided on its inside with a transversely extending partition of substantially rectangular shape, with one corner cut away, said partition having a depending attaching flange on each of the four sides of said partition, and said flange engaging the inside of the walls of said container and being secured thereto, said partition being located substantially at the division line between



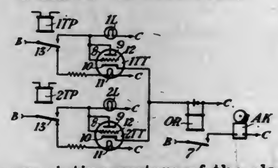
the cream and the milk in said container, and said partition sloping upwardly from the corner opposite to said cut-away corner, toward the diagonal edge of the corner which is cut away, and said member having in its upper wall a pair of apertures provided with closures, said apertures being located in two opposite corners of said upper wall, and one of said apertures being located above the cut-away portion of said partition, the latter aperture being provided with indicia indicating that milk may be poured out of said latter aperture, and the other aperture being provided with indicia indicating that cream may be poured out of said other aperture.

2,321,661
ADJUSTABLE LABELING MACHINE
Francis A. Craig, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a corporation of Massachusetts
Application July 5, 1941, Serial No. 401,249
1 Claim. (Cl. 216—55)



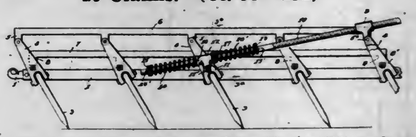
In a labeling machine of the class described, a label magazine wherein the labels stand substantially upright on edge in stack formation, said magazine having adjustable sides in opposition to the two upright edges of each label in said stack, inturned spurs on said sides in overlapping relation to the endmost label of said stack, the bottom of said magazine being vertically adjustable, to maintain the center line of said stack, for different sizes and shapes of labels at substantially the level defined by the engagement of said spurs with said endmost label.

2,321,662
ELECTRICAL APPARATUS
Arthur E. Dodd, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 7, 1941, Serial No. 405,809
1 Claim. (Cl. 177—311)



In an annunciating system of the class wherein a plurality of relays each governed by a condition control a plurality of first indicating devices one for each of said plurality of conditions and a second indicating device common to all of said conditions to provide a continuous first indication relating to each of said conditions and a momentary second indication each time one of said conditions changes from its normal to another condition, the combination with said relays and said indicating devices of a plurality of thermionic tubes one for each of said relays, a plurality of circuits one for each relay and each including a normally closed contact of said relay for supplying heating energy to the cathode of the associated thermionic tube, and a plurality of circuits one for each relay and each including a normally open contact of said relay for supplying energy to the associated first indicating device and for impressing energy across the anode and cathode elements of the associated thermionic tube in series with said second indicating device, each of said thermionic tubes functioning as a time limiting device to pass current to said second indicating device only during the cooling off interval of the associated cathode and as an asymmetrical device to prevent feed-back of current from said second indicating device to the first indicating device associated with such tube when another tube is passing current to said second indicating device.

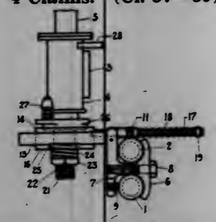
2,321,663
HARROW
Patrick L. Donovan, Kewanee, Ill.
Application October 7, 1940, Serial No. 360,120
19 Claims. (Cl. 55—131)



1. In a harrow, the combination with a framing and tooth carrying bars rockably mounted therein, of a structure including a pair of levers each separately and rigidly connected with and extending laterally from a bar, a guide swiveled on one of the levers, a part swiveled on another of the levers, a bar shiftable within the guide and shiftable with respect to the said part, coacting means on the last named bar and on the said part to engage each other for maintaining

a given adjustment of said bar through said part, a stop carried by the said last named bar spaced from the guide, and a compressible spring on the bar interposed between the said stop and said guide.

2,321,664
SPINDLE SUPPORT
William J. Elvin, Frostburg, and Charles Leo Hivick, Cresaptown, Md., assignors to Celanese Corporation of America, a corporation of Delaware
Application June 20, 1942, Serial No. 447,862
4 Claims. (Cl. 57—89)



1. In a yarn packaging device, the combination with a spindle and whorl assembly, a frame and a spindle driving belt, of a support for the spindle and whorl assembly to hold same in driving relationship to the driving belt including jaws for clamping the support on to the frame, a slideway extending from one of said jaws and a table supporting the spindle and whorl assembly adapted to slide on said slideway for positioning the spindle and whorl assembly relative to said driving belt.

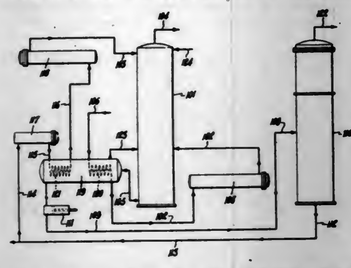
2,321,665
ELECTRIC INCANDESCENT LAMP
Charles L. Fantur, Hanover, N. H., and Erwin E. Lehmann, East Cleveland, Ohio, assignors to General Electric Company, a corporation of New York
Application November 5, 1942, Serial No. 464,566
4 Claims. (Cl. 176—26)



1. A device of the character described comprising a bulb with a seal, filament mounts in said bulb comprising pairs of leads sealed through said seal and an insulative bead mechanically connecting the leads of each pair while electrically insulating them from each other, each of said beads being of a size to engage another mount and prevent short circuiting contact between the mounts, and leads of said mounts being connected together behind their beads, so as to place the filaments of said mounts in series electrically between the other leads of said mounts.

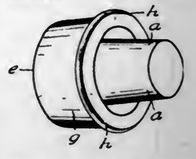
2,321,666
PROCESS FOR GAS SEPARATION
George T. Felbeck, Altadena, Calif., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application February 8, 1940, Serial No. 318,007
5 Claims. (Cl. 62—175.5)

1. The continuous process for the separation of a non-acetylenic hydrocarbon having two carbon atoms to the molecule from gaseous mixtures additionally containing methane, which comprises bringing the gas mixture into contact with a volatile hydrocarbon liquid comprising mainly non-acetylenic hydrocarbon having three carbon atoms to the molecule and substantially free of hydrocarbon having less than three carbon atoms to the molecule, said contact taking place at a superatmospheric pressure less than the critical pressure of methane and at a temperature not higher than about 30° C.; converting said hydrocarbon having two carbon atoms to the molecule



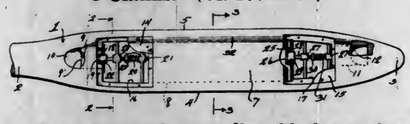
from the gas mixture to the liquid phase and forming with the volatile hydrocarbon liquid a liquid hydrocarbon product during said contact; simultaneously withdrawing heat from said hydrocarbon having two carbon atoms to the molecule while thus converting it to the liquid phase; separating said product from the gas mixture and rectifying it to recover therefrom hydrocarbon having two carbon atoms to the molecule; and, after rectification, bringing the liquid residue of said product into contact with a gaseous hydrocarbon mixture for separation of a normally gaseous component therefrom.

2,321,667
SERVICE STOPPER FOR GAS MAINS, BRANCH PIPE CONNECTIONS, AND THE LIKE
Arthur Sydney Foster, Stourport on Severn, England, assignor to Underpressure Engineering Company Limited, Mansfield, England, a company of England
Application June 2, 1942, Serial No. 445,488
In Great Britain May 28, 1941
2 Claims. (Cl. 138—89)



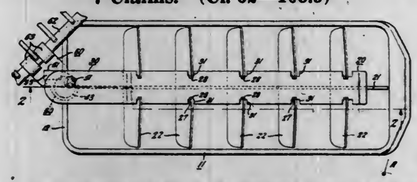
1. Service stopper for gas mains, branch pipe connections and the like comprising a generally cylindrical resilient plug part adapted to be inserted in the bore of a pipe and having an axial cavity therein opening at the following end of the plug part and terminating short of the leading end thereof and being of such length and diameter that the surrounding walls of the plug part are forced thereinto when the plug part is inserted in the bore of a pipe, said plug part having an outer surface which is cylindrical adjacent the following end of the stopper and which tapers from said cylindrical surface to the leading end of the plug part, and a radially extending collar connected to and surrounding said plug part at the following end thereof.

2,321,668
AIRPLANE PROPELLER
Cleo James Gentry, Porterville, Calif., assignor of one-half to Frederick E. Stone, Porterville, Calif.
Application February 28, 1941, Serial No. 381,144
8 Claims. (Cl. 170—172)



1. The improved propeller blade as herein described, comprising a blade body having a longitudinally extending chamber therein and having an air inlet port leading to the chamber through the face of the blade adjacent the root end thereof and an air outlet port leading from the chamber through the back of the blade and adjacent the tip thereof, the front and back faces of the body being imperforate between said ports and valve means adjacent the inner and outer ends of said chamber for controlling movement of air longitudinally therethrough and opening toward the outer end of the blade and functioning to control the admission of air to the chamber through the inlet port and the exhaustion of air from the chamber through the outlet port.

2,321,669
FREEZING TRAY
Harvey D. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 10, 1939, Serial No. 260,909
7 Claims. (Cl. 62—108.5)



1. In combination, a freezing tray having a container pan and a removable grid for said pan, said grid having relatively movable division walls forming ice block compartments when the grid is within the pan, a stationary retaining means located apart from said pan and grid during freezing, and force-multiplying means carried by said grid for moving said division walls relative to each other to loosen the frozen ice blocks therefrom, said force-multiplying means having a projecting member adapted to be held stationary by said retaining means upon the removal thereto of the pan and grid and frozen contents, said force-multiplying means being thereafter operable to loosen the ice from said grid upon manually moving said grid relative to said stationary retaining means.

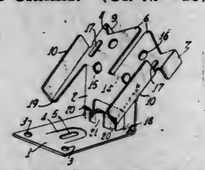
2,321,670
HIGH CHAIR BIB
Eleanor W. Gibson, Detroit, Mich.
Application November 14, 1939, Serial No. 304,375
6 Claims. (Cl. 2—49)

1. In a high chair bib, a bodice portion, an apron extending therefrom, said apron being provided along its lateral edges with means for attaching said edges along the side arms of a high chair, said apron having a straight edge between the forward ends of said means and being narrower at said straight edge than elsewhere between said lateral edges, whereby to shape said



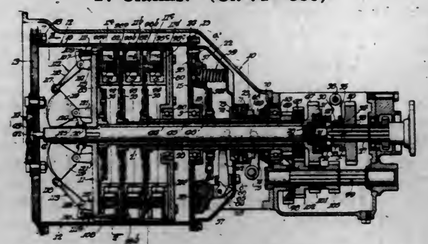
apron into the form of a trough between said arms.

2,321,671
WALL CLIP
Frank La Grotta, New York, N. Y., assignor to Conver Steel & Wire Co., Incorporated, a corporation of New York
Application January 31, 1941, Serial No. 376,819
15 Claims. (Cl. 72—46)



1. A clip for wall base boards that have flanges at their top and bottom edges, which includes a web adapted to be secured to the floor or similar support, ears integral with and extending away from said web, the area of the joint between the ears and the web being weakened whereby it is more susceptible to being bent than the web or ears, wall base board supporting flanges carried by the ears and extending outwardly therefrom and adapted to engage beneath the flanges at the upper edges of the wall base boards, and locking flanges carried by the ears and adapted to engage the opposite flanges of the wall base boards.

2,321,672
CHANGE SPEED MECHANISM
Joseph M. Hall and Herbert E. Tucker, Chicago, Ill.
Application April 6, 1940, Serial No. 328,184
17 Claims. (Cl. 74—336)



1. In a change speed mechanism, a driving shaft, a driven shaft, a plurality of concentrically arranged auxiliary driven shafts, change speed means for operating said driven shaft from said driving shaft through each of said auxiliary shafts, said means comprising a service clutch for operatively disconnecting the driving shaft from the driven shaft at any speed ratio, at will, a spring pressed clutch for each of said driven shafts, speed controlled means for operating said last-named clutches progressively as the speed of the driven shaft increases, said last-named means comprising a plurality of sets of pivoted weights rotatable about said driven shaft, a set

of curved roller tracks on the periphery of each of said weights, each roller track having a cam zone at a relative steep angle, an adjacent cam zone at a moderate angle and a zone concentric with the pivot of said weight, the cam zone of one being opposite the concentric zone of the adjacent track, means engaging said tracks and so constructed as to progressively operate said spring pressed clutches for selectively driving said driven shaft through said auxiliary shafts for obtaining different speed ratios between said driving and driven shafts.

2,321,673
YEAST FOOD
Lloyd A. Hall, Chicago, Ill., assignor to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application October 11, 1941, Serial No. 414,612
11 Claims. (Cl. 99—91)

5. A yeast food in dry solid form which is stable against deterioration of halogenate salt contained therein, which comprises in particle form halogenate salt selected from the group consisting of iodates and bromates, ammonium chloride, and moisture-imparting content including in such content particles selected from the group consisting of starch and sodium chloride, said yeast food also comprising oleaginous material as coatings on the particles of said moisture-imparting ingredients and on the particles of said ammonium chloride, said coatings insulating all of the particles of said halogenate salt from direct contact with said moisture-imparting ingredients and with said ammonium chloride, the particles of said halogenate salt being uncoated.

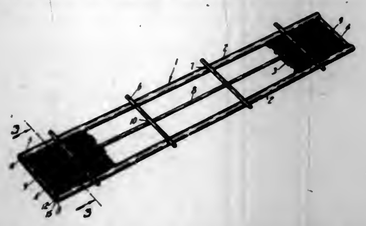
2,321,674
ROOFING AND SIDING GRANULES AND THE LIKE
Norman P. Harshberger, Scarsdale, N. Y., assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y., a corporation of New York
No Drawing. Application May 28, 1940, Serial No. 337,578
10 Claims. (Cl. 117—100)

1. As an article of manufacture, an individual granule having a hardened cement surface comprising an aluminate cement and having on the exterior thereof a hardened coating comprising a thermo-setting resin.

6. A process of producing cement coated surfacing elements comprising coating core particles with coating material comprising cement, and prior to full setting thereof forming on said cement a hardening control film comprising a water emulsion of a water-insoluble waterproofing agglutinant.

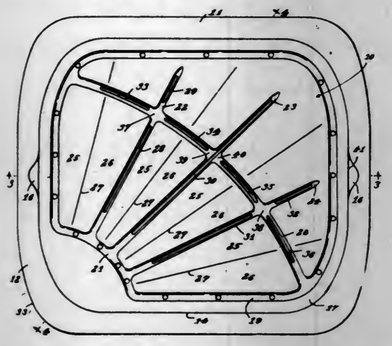
2,321,675
SCREEN UNIT
Andrew Hauge, Claremont, N. H., assignor to Claremont Waste Manufacturing Company, a corporation of New Hampshire
Application February 8, 1941, Serial No. 377,952
10 Claims. (Cl. 209—403)

1. In a screen supporting mechanism, a frame having two rigidly connected side members forming a bottom screen cloth supporting surface, one of said members being hollow and having a longitudinal slit therein above its bottom screen cloth supporting surface and on the side thereof remote from the other member, screen cloth stretched across the bottom of said frame and secured to said other member at one edge, the other edge of said cloth adjacent said slitted member being folded and having its fold extended through said slit and forming a loop within said



hollow member, and means insertable longitudinally in said hollow member for securing said other edge and laterally tensioning said cloth, the longitudinally insertable means and the cloth surrounding the same substantially filling the interior of said hollow member.

2,321,676
BROILER GRILL
John F. Hennessy, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application June 9, 1941, Serial No. 397,229
6 Claims. (Cl. 53—5)



1. A broiler grill comprising a substantially flat sheet metal body of generally rectangular form, the sheet metal of said body being formed to provide a plurality of substantially radial groove portions radiating from one corner of the body, and a substantially diagonally extending groove portion in crisscross relation to the radial groove portions, the sheet metal in the groove portions being substantially C-shaped in cross-section and relatively thin and flexible, whereby to minimize over-all distortion of the grill in the event of difference in expansion and contraction of different portions thereof.

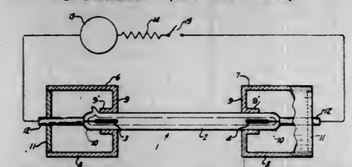
2,321,677
AMPHIBIAN BRIDGE
Andrew Jackson Higgins, New Orleans, La.
Application February 24, 1942, Serial No. 432,138
11 Claims. (Cl. 14—27)

1. Amphibian bridge comprising a train of wheeled pontoons serially connected end to end and an amphibian automotive unit having a power driven winch, a cable on said winch connected to the head of said train whereby said automotive unit can travel close coupled to said



train or move away therefrom while still connected to said train.

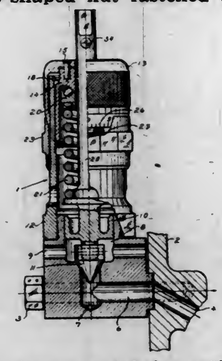
2,321,678
FLUID COOLED ELECTRIC DISCHARGE DEVICE
Donald D. Hinman, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application March 28, 1941, Serial No. 385,721
5 Claims. (Cl. 176—124)



1. In combination, an electrical discharge device comprising an elongated tubular envelope, an electrode sealed in each end of said envelope and projecting a substantial distance inwardly from the adjacent end wall of the envelope, said electrode being of smaller diameter than the surrounding envelope wall which thereby forms an electrode chamber extending a substantial distance behind the tip of the electrode, an ionizable medium in said envelope comprising mercury, means for supplying to said device an energy loading sufficient to soften the envelope in the absence of vigorous artificial cooling, means for directing a concentrated compressed air blast at said envelope substantially midway between said electrodes at a pressure sufficient to maintain the envelope at a temperature below its softening point, and tubular shield members surrounding said electrode chambers and having closed front ends located closely adjacent to the tips of the said electrodes to prevent cooling of said end chambers by said air blast with resultant condensation of mercury in said end chambers.

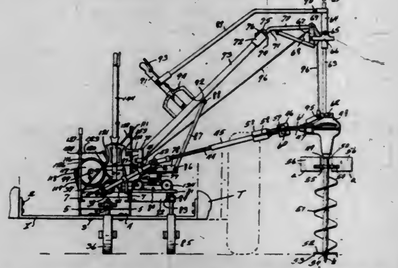
2,321,679
INDICATOR VALVE
George F. Houston, Alexandria, Va.
Application March 10, 1942, Serial No. 434,153
4 Claims. (Cl. 137—53)

1. A valve device for relieving and indicating the pressure in the combustion chamber of an internal combustion engine, comprising a base portion having a chamber therein which is open to atmosphere and having a passage therethrough adapted to connect the chamber to a combustion chamber, a valve in said valve chamber which is operable to control said passage, a casing arranged above said base and connected thereto, means within said casing constantly urging said valve to closed position, a piston disposed within the valve chamber and connected to said valve, a cup-shaped closure for the upper end of the casing, registering graduations on said closure and casing for indicating pressure, an inverted cup-shaped nut fastened to the inner



part of the closure and being adjustably connected within the casing at the upper part thereof, and an annular seat positioned within the inner upper end of the cup-shaped nut to provide a seat for the means urging the valve to closed position.

2,321,680
POST HOLE DIGGER
John W. Houston, Tama, Iowa
Application March 10, 1942, Serial No. 434,117
10 Claims. (Cl. 255—19)

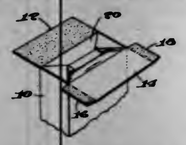


1. An earth boring apparatus comprising a supporting structure, a carriage mounted on the structure for back and forth movement, a turntable mounted on the carriage, a boom carried by the turntable and extending upwardly and outwardly therefrom, an auger, means for supporting said auger by the boom for up and down movement, and means for rotating the auger.

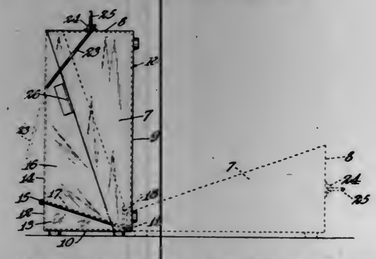
2,321,681
PACKAGE
Oscar H. Hultin, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application August 16, 1941, Serial No. 407,165
2 Claims. (Cl. 229—14)

1. As a new article of manufacture, a lined package containing a commodity comprising a carton having but two top closing flaps formed as extensions of two opposed walls of the carton, a lining bag within the carton having its mouth portion closed to confine the commodity therein, one of said top closing flaps being provided with

laterally extended sealing wings arranged to be folded down and adhesively secured to the remaining two opposed walls of the carton, the remaining top closing flap being adhesively secured to the top of said first top closing flap.

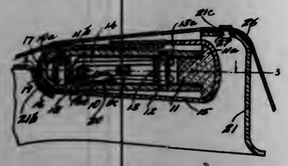


2,321,682
LETTER FILE
Joseph M. Hurley, St. Paul, Minn.
Original application May 27, 1940, Serial No. 337,453. Divided and this application September 14, 1942, Serial No. 458,208
7 Claims. (Cl. 129—43)



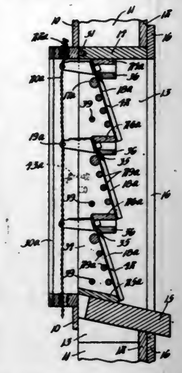
1. A card file comprising a box-like receptacle having a hinged end wall adapted to swing inwardly between adjacent receptacle walls, and a closure adapted to fit between adjacent receptacle walls and hingedly connected to said hinged end wall.

2,321,683
DEVICE FOR INDICATING ENURESIS TO PREVENT BED WETTING
Frank H. Jacobson, Minneapolis, Minn.
Application November 17, 1941, Serial No. 419,419
6 Claims. (Cl. 118—138.1)



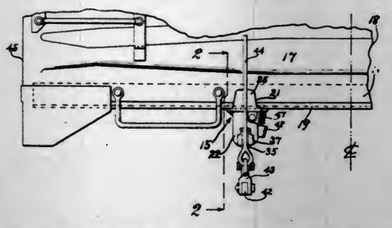
1. A device for preventing bed wetting having in combination, a frame, a member reciprocable longitudinally in said frame, a piece of flexible sheet material having substantial tensile strength when dry but having substantially no tensile strength when wet extending about said member and a portion of said frame, a resilient means engaging said frame and member acting to move said member longitudinally and against the resistance of said material, an electrical contact on said frame, a second electrical contact movable into engagement with said contact by movement of said member, means for supporting said device on the body of the patient with said material adjacent the urinating organ so that when said material is wet or moistened said member will be reciprocated and will rupture said material and engage said contacts to sound an alarm.

2,321,684
ADJUSTABLE LOUVER ASSEMBLY
Pete Johnson, Rutland, N. Dak.
Application March 20, 1941, Serial No. 384,246
3 Claims. (Cl. 98—110)



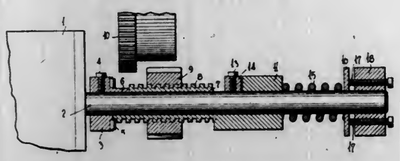
1. In an adjustable louver assembly for windows and the like, an open frame, a plurality of louver panels extending across said frame and being pivoted relative to said frame, said louvers being swingable through arcs intersecting the arcs of swinging movement of next adjacent louvers, stops intermediate adjacent louver edges and engageable with edge faces of two adjacent louvers, said stops extending across said open frame to form a seal between the adjacent edges of adjacent louvers, and groups of spaced bars lying in planes parallel to and immediately adjacent said louvers when the latter are closed to permit said louvers to contact said bars and stops simultaneously.

2,321,685
YIELDABLE BRACKET MEANS FOR THE LOWER UNITS OF RAILWAY CAR BRAKES
Augustus F. Klasing, Joliet, Ill.
Application August 28, 1941, Serial No. 408,644
12 Claims. (Cl. 188—205)



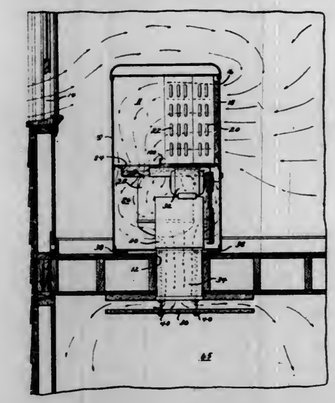
1. In a railway car brake mechanism having a lower unit positioned at the lower end part of the car and including a lower brake actuating member and means attached thereto and extending therefrom to an upper unit whereby to operate said member, a bracket device for supporting said member and including companion bracket portions one of which is secured firmly to the lower part of the car and another of which is carried yieldably by said secured portion and positioned to normally depend therefrom but to be yieldable thereon if accidentally struck by a wheel of the car, and means on said yieldable portion for operably supporting said lower member thereon.

2,321,686
ENGINE STARTER
Joseph F. Koepfle, Detroit, Mich., assignor of one-half to Leo G. Koepfle, Silver Spring, Md.
Application January 2, 1941, Serial No. 372,928
8 Claims. (Cl. 74—7)



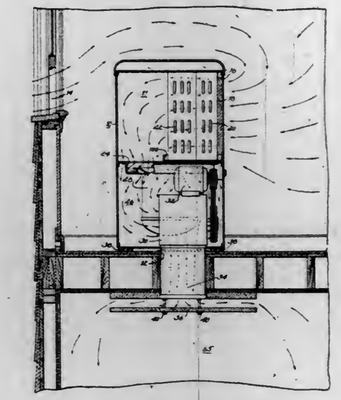
1. An engine starter drive comprising a drive shaft, a threaded sleeve longitudinally slidable on said shaft, a thrust block fixed on the shaft, means on the block and on one end of the sleeve for sliding interengagement, a drive member fixed on the shaft, means for providing relative sliding engagement between the second end of the sleeve and said drive member, resilient means resisting the sliding movement of the sleeve away from said block, and a pinion carried on said sleeve.

2,321,687
REFRIGERATING APPARATUS
Andrew A. Kucher, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 30, 1939, Serial No. 301,865
8 Claims. (Cl. 62—129)



1. In combination, a dwelling having a plurality of rooms, a hallway having openings leading to said rooms, windows in said rooms, a chamber adjoining said hallway and having an opening communicating with said hallway, means for admitting fresh air into said chamber, a self-contained air conditioning unit disposed within said chamber, said unit comprising a casing, an air inlet in said casing, attemperating means within said casing, an air outlet communicating with said opening, and blower means for flowing fresh air itno said chamber, through said inlet, in thermal exchange with said attemperating means, into said hallway, into said rooms and thereafter out through said windows, said blower means comprising a first fan unit within said casing and a second fan unit in one of said windows.

2,321,688
REFRIGERATING APPARATUS
Andrew A. Kucher, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Original application October 30, 1939, Serial No. 301,865. Divided and this application August 27, 1941, Serial No. 408,501
8 Claims. (Cl. 62—129)

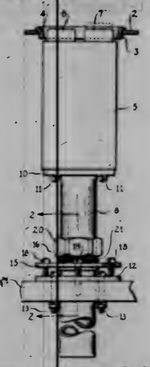


1. A self-contained refrigerating system adapted to be supported by the ceiling of an enclosure to be conditioned comprising in combination, a cabinet supported on the upper side of said ceiling and having an air inlet opening and an air outlet opening, means for directing the air leaving said outlet opening downwardly into the enclosure to be conditioned, an evaporator in said casing, a sealed motor-compressor-condenser unit in said casing connected in refrigerant flow relationship to said evaporator, means for flowing condenser cooling water in thermal exchange relationship with said motor-compressor-condenser unit, and blower means for passing air in thermal exchange relationship with said evaporator and thereafter in thermal exchange relationship with said motor-compressor-condenser unit so as to partially reheat said air before discharging the air through said outlet.

2,321,689
MOUNTING FOR ELECTRICAL AND OTHER DEVICES
Edwin N. Lightfoot and Edwin W. Seeger, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application March 15, 1941, Serial No. 383,648
5 Claims. (Cl. 248—27)

5. In combination, a device to be supported on one of two opposed and spaced walls and to have a part thereof projected into an opening provided in the other wall, a post to one end of which said device is attached, and means to attach said post to said supporting wall, said means comprising two plates, one to be fixed to said supporting wall and the other carrying said post, the former plate having threaded into the same a pair of screws passing loosely through the latter plate at points between which and in line with which the axis of said post lies and the latter plate having threaded engagement with a pair of screws bearing on said former plate at points between which the axis of said post lies and approximately

midway between the first mentioned screws, said two pairs of screws affording tilting of said post



in different directions and fixing of the angular position thereof.

2,321,690

MANUFACTURE OF COMPOUNDS OF THE CYCLOPENTANO - POLYHYDROPHENAN - THRENE SERIES

Willy Logemann, Berlin-Charlottenburg, Germany, assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application June 21, 1938, Serial No. 214,957. In Germany July 7, 1937
19 Claims. (Cl. 260—397.3)

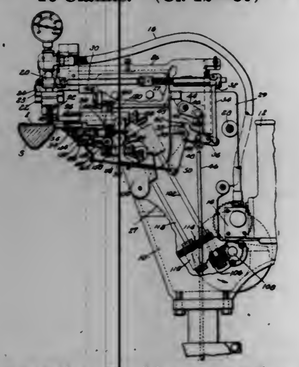
1. A process for the manufacture of an aetiocholyl-glyoxal comprising condensing a steroid compound having attached to the 17 carbon atom a side chain containing a reactive methylenic group with a compound containing a carbonyl group capable of reacting with a reactive methylenic group, and subjecting the resulting condensation product to an oxidation process.

2,321,691

SHOE BOTTOM COATING MACHINE

Wilbur L. MacKenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application July 9, 1941, Serial No. 401,678
16 Claims. (Cl. 12—80)



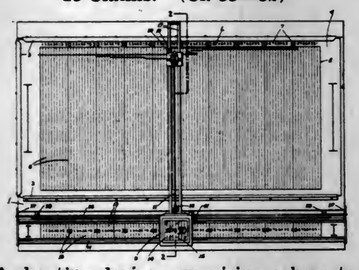
1. In a coating machine, a coating applying nozzle having yieldable sections, the downwardly extending terminals of which have outlet openings, and a work contact member rotatable between the nozzle sections adjacent to said outlet openings, said member serving to limit upward movement of the work toward the terminals such as would tend to cause undue displacement of said sections.

2,321,692

GAME CHARTING DEVICE

Joseph A. McPhee, Pittsburg, Calif.

Application November 14, 1941, Serial No. 419,153
13 Claims. (Cl. 33—32)



1. A charting device comprising a base to support a chart sheet, an arm overhanging the base from one edge, a stylus mounted on the arm for movement therealong, means mounting the arm for back and forth horizontal movement between opposite edges of the sheet and for vertical movement between a normally up and a lowered position, the stylus engaging the sheet only when the arm is lowered, and means to impart step by step movement of the stylus along the arm.

2,321,693

EMULSION POLYMERIZATION OF HALOGEN-2-BUTADIENES-1,3

Kurt Meisenburg and Ingofroh Dennstedt, Leverkusen I. G.-Werk, and Ewald Zaucker, Halle-on-the-Saale, Germany; vested in the Alien Property Custodian

No Drawing. Original application February 28, 1938, Serial No. 193,060. Divided and this application October 17, 1940, Serial No. 361,582. In Germany March 2, 1937
11 Claims. (Cl. 260—92.7)

1. The process which comprises the emulsion polymerization of halogen-2-butadienes-1.3 in the presence of such organic sulfur-containing compounds as contain at least two carbon atoms directly connected to each other and are soluble in the monomers to be polymerized, said compounds being selected from the class consisting of dialkylxanthogendisulfides, di(benzoic acid ester)-tetrasulfides, tolyldisulfide and tolyltrisulfide.

2,321,694

SUPPOSITORY OR BOUGIE

Grover C. Miller, San Gabriel, Calif., assignor to Gromiller, Inc., Los Angeles, Calif., a corporation of California

No Drawing. Application October 30, 1939, Serial No. 301,952
7 Claims. (Cl. 167—64)

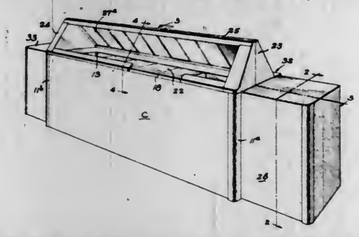
1. A solid base material for suppositories, bougies or the like, which is substantially unaffected by heat at body temperature but which will abstract moisture from surrounding tissue and release a medicament in the presence of said abstracted moisture at a desired rate, consisting of a water absorbing agent selected from the group consisting of powdered agar, elm, cinnamon bark, cornmeal, thyme, kaolin, psyllium seeds, bentonite clay, okra and pectin; a water absorption retarding agent selected from the group consisting of petroleum jelly, carnauba wax, and powdered stearic acid; and a water abstracting agent selected from the group consisting of glycerine and potassium acetate.

2,321,695

REFRIGERATING APPARATUS

Lotus F. Miller, Cambridge City, Ind.

Application November 6, 1940, Serial No. 364,577
9 Claims. (Cl. 62—89.5)



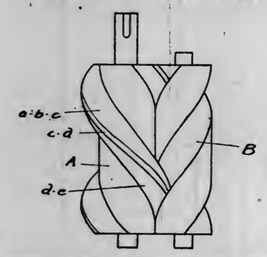
1. Refrigeration apparatus for the storage, preservation and vending of frozen confection, refrigerated food products and the like comprising a cabinet having insulated walls defining an elongated main storage compartment, a top closure overlying said storage compartment, there being a space between said compartment and closure, a series of evaporator sections having closed shells or covers disposed transversely of the main storage compartment to thereby provide baffles which hinder the circulation of air in said compartment, a transparent window rendering the contents of the cabinet visible, the refrigeration apparatus including a warm fluid refrigerant line in heat exchange relation with said window to thereby extract heat from the refrigerant in said line and also raise the temperature of the window and avoid clouding of the latter.

2,321,696

SCREW ROTOR

Carl Oscar Josef Montelius, Stockholm Sweden, assignor to Aktiebolaget Imo-Industri, Stockholm, Sweden, a corporation of Sweden

Application July 23, 1941, Serial No. 403,669
In Sweden February 6, 1940
4 Claims. (Cl. 74—466)



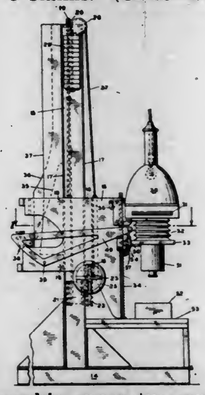
1. A mechanism of the type described comprising a pair of interengaging screw rotors, one of said rotors being provided with threads having convex side faces and the other of said rotors being provided with threads having concave side faces, the inner part of one thread side face and the whole of the opposite thread side face of each thread of the first rotor comprising surfaces generated by the outer edges of the threads of the second rotor during uniform relative rotation of the rotors, the remaining outer part of the first mentioned thread side face of the first rotor having, in every cross-section taken perpendicular to its axis of rotation, a circular arc profile, and the concave side faces of the threads of the second rotor comprising surfaces fitting the threads of the first rotor during uniform relative rotation of the rotors.

2,321,697

PHOTOGRAPHIC APPARATUS

Irving Victor Moulin, San Francisco, Calif.

Application August 2, 1940, Serial No. 349,678
3 Claims. (Cl. 88—24)



3. Photographic apparatus comprising a rigid support provided with a fixed cam extending longitudinally along one side thereof, a carriage movable longitudinally on said support, said carriage including a negative holder and a lens holder positioned on the opposite side of said support from said cam, and a generally U-shaped lever member pivotally mounted on said carriage and surrounding said support with the closed end of said U-shaped lever member being in juxtaposition to and guided by said cam, and the opposite end of said U-shaped lever member being connected to one of said holders to change the distance between said negative holder and said lens holder upon longitudinal movement of said carriage along said support.

2,321,698

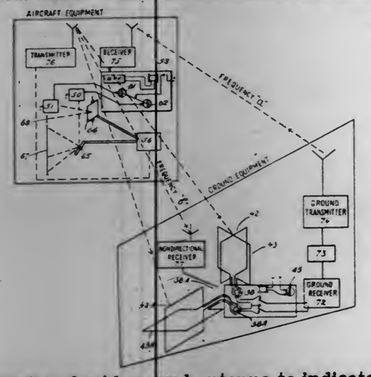
NAVIGATIONAL GUIDE SYSTEM

George V. Nolde, Berkeley, Calif.

Application June 6, 1940, Serial No. 339,160
5 Claims. (Cl. 250—11)

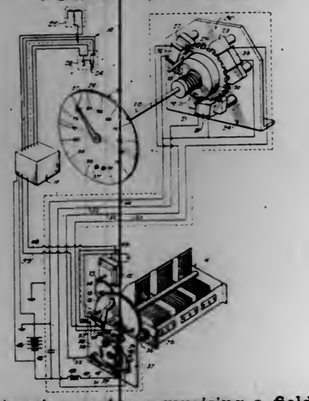
2. In an aircraft course directing system, the combination of; a source of radiant energy at an aircraft, an antenna on the ground having a directionally oriented zone of sensitivity of reception, a master receiver on the ground for receiving radiant energy from said source through said directionally sensitive antenna, means for effecting periodically recurrent motion of said zone to thereby effect a corresponding periodic output of said receiver, a ground transmitter controlled by said master receiver for transmitting signals in response to said periodic output of the ground receiver, a receiver aboard said aircraft for receiving said signals, a screen on the aircraft, means for projecting an indicating beam on said screen including, a beam emitting means controlled by said aircraft receiver, and a beam directing means, a device for causing said

beam directing means to move said beam across said screen, means for synchronizing the action of said device with the motion of the zone of



sensitivity of said ground antenna to indicate the course of the aircraft in response to the coordinated action of said beam emitting means and said beam directing means.
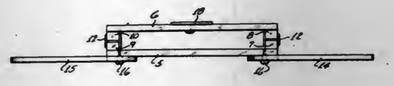
2,321,699
REMOTE INDICATOR AND CONTROL DEVICE
William J. O'Brien, Chicago, Ill., assignor to Edward F. Andrews, Chicago, Ill.
Application October 1, 1940, Serial No. 359,270
6 Claims. (Cl. 250—40)



5. A stepping motor comprising a field frame having at least three radial arms, the outer end of each arm extending at an angle relative to the radial portion to form a pole piece, a winding on each arm, a magnetic rotor mounted in the center of said field frame, said rotor having a series of peripheral teeth in close proximity to said pole pieces, said teeth being out of phase relative to said pole pieces by progressive increments in both directions, and complementary bearing means on said frame and rotor providing a narrow air gap for the passage of magnetic flux induced by said windings between the center of the field frame and the rotor.

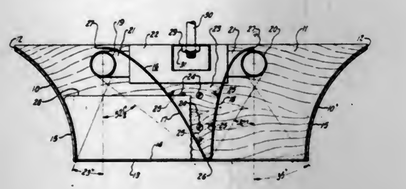
2,321,700
GARMENT HANGER
Emil E. Pfeiffer, Pensacola, Fla.
Application December 7, 1942, Serial No. 468,033
2 Claims. (Cl. 223—90)

1. In a device of the kind described, a pair of flat, oblong frame members spaced apart side by side, pairs of trouser jaws secured at one end perpendicularly to the ends of the frame members, one jaw to each member at each end thereof in cooperative alignment, springs connected to the pairs of jaws for supporting them in cooperative alignment and normally resiliently



closing them together at their working ends for engaging trouser legs, a pair of flat, arcuate arms each pivoted at one end to the outer side of one of the ends of one of the frame members and arranged to open longitudinally outward for receiving a garment thereover, and to fold inwardly upon one another for storage.

2,321,701
LIGHTING FIXTURE
Wentworth M. Potter, Lyndhurst, Ohio, assignor to General Electric Company, a corporation of New York
Application November 9, 1940, Serial No. 364,989
2 Claims. (Cl. 240—78)

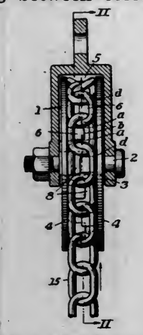


1. A lighting unit comprising a pair of elongated side plate members, a pair of elongated reflecting segments arranged longitudinally between said side plate members and each shaped as a light-concentrating surface of reflection in transverse section, said reflecting segments being arranged back to back with their concave reflecting surfaces facing downwardly and with their lower longitudinal edges juxtapositioned, and elongated light sources disposed with their longitudinal axes coincident with the focal axes of said reflecting segments, the upper edge of each reflecting segment being vertically above the focal axis of said segment, said side plate members being arranged laterally opposite said light sources and being spaced from the upper and lower longitudinal edges of said segments to provide opposed openings for the passage of light upward and downward from said unit.

2,321,702
CHAIN WHEEL
Samuel M. Renkin, Pittsburgh, Pa.
Application November 19, 1942, Serial No. 466,205
5 Claims. (Cl. 74—243)

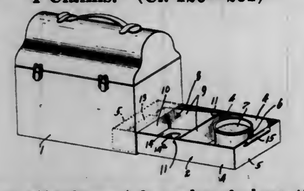
1. Means for interengagement with a chain composed of interlooped links, the said means comprising spaced walls enclosing a channel, and projections extended alternately from the opposite walls and extended partially across the channel for supporting adjacent links of a chain in oppositely tilted positions, the respective projections having corresponding surfaces spaced

longitudinally of the channel at distances equal to the spacing between corresponding surfaces



of the end reaches of links in a chain with which the means is to be used.

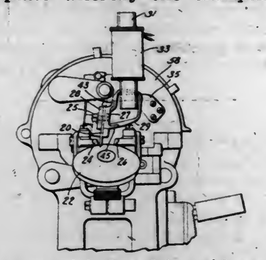
2,321,703
ATTACHMENT FOR LUNCH BOXES
Alfred G. Rivard, Los Angeles, Calif., assignor of one-third to Fernando C. Marzo
Application May 21, 1940, Serial No. 336,398
4 Claims. (Cl. 126—261)



3. In an attachment for a lunch-box, the combination of an open tray in the form of a drawer mounted so as to slide out from the same, a burner carried in the tray at the end thereof remote from the box, a cover open on its bottom side having side walls pivotally attached to the side walls of the tray and having a top wall, said cover capable of assuming a position to overlie the burner with its outer end supported adjacent the outer wall of the tray for supporting a cooking or heating vessel over the burner, when the tray has been withdrawn from the lunch-box, said cover also being capable of swinging on its pivotal connection so as to fold down into the tray with the open bottom of the cover uppermost to provide a packing space within the cover.

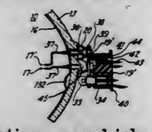
2,321,704
HEATING MEANS FOR SHOE MACHINE TOOLS
William Selwyn Robson, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 31, 1940, Serial No. 363,751
In Great Britain November 21, 1939
5 Claims. (Cl. 12—41)

1. A machine for operating upon shoe parts having, in combination, a frame, a tool assembly including a tool, a holder for the tool and a clamping plate, said assembly being mounted on the frame for movement in a plurality of directions, a transformer supported on the frame having a core portion adjacent to said assembly, and a conductor surrounding the core portion and forming the secondary coil of the transformer, said conductor being spaced from the core portion sufficiently to accommodate all movements of said assembly and connected at each end to said clamping plate whereby the clamping plate is



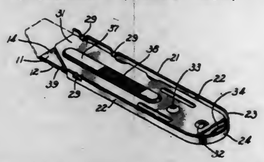
heated by current induced in said secondary coil to heat the tool during the operation of the machine.

2,321,705
VEHICLE HEADLAMP UNIT
Val J. Roper, South Euclid, Ohio, assignor to General Electric Company, a corporation of New York
Application August 24, 1940, Serial No. 354,134
6 Claims. (Cl. 240—7.1)



6. In combination, a vehicle headlamp comprising a unitary sealed reflector and cover glass assembly containing a light source, said reflector having a window portion therein, current supply connection means comprising contact terminals at the exterior of said headlamp adjacent to said window portion and a connector for mounting on said terminals and making electrical connection thereto, and a parking lamp carried by said connection means so as to be located adjacent said window at the exterior of said headlamp to project light through said headlamp.

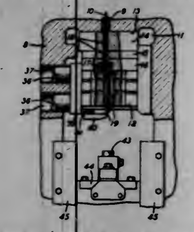
2,321,706
KNIFE
Hubert I. Salsbury, Oakland, Calif.
Application August 2, 1941, Serial No. 405,200
3 Claims. (Cl. 30—151)



2. In a knife, the combination of: a flat backing plate; projections projecting upwardly from the top of said plate for engaging and holding in position with relation to said plate a perforated safety razor blade; a cover plate adapted to slide over said projections and to hold said blade in position on said projections; two flanges, one on each longitudinal edge of said backing plate, said cover plate sliding freely in a longitudinal direction between said flanges; ears formed on said flanges projecting inwardly from each of said flanges in such a manner as to project over the cover plate and thus retain it in a position in which it holds said blade in engagement with said projections, the cover plate being so notched that when pushed into an extreme

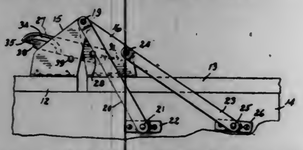
position said cover plate may be removed from between the flanges, the ears passing through said notches; and a rounded projection extending upwardly from said backing plate and frictionally engaging a depression in the cover plate with the cover plate in position to expose a corner of said knife.

2,321,707
MATERIAL WORKING APPARATUS
Carlisle Shannon, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 28, 1940, Serial No. 337,618
8 Claims. (Cl. 29—34)



1. In a material working apparatus having a locating surface and an abutting surface, a pair of material working dies selected from a plurality of pairs of dies varying in length disposed adjacent the locating surface and spaced from the abutting surface a distance variable dependent upon the length of the selected dies, a cut-off die disposed adjacent the material working dies, and packing members selected from a plurality of packing members varying in size disposed between the cut-off die and the abutting surface.

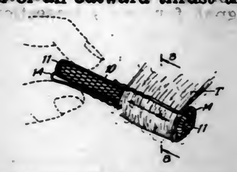
2,321,708
SUPPORT FOR RELATIVELY MOVABLE PARTS
Harry B. Sklar, Los Angeles, Calif.
Application September 27, 1941, Serial No. 412,544
8 Claims. (Cl. 16—146)



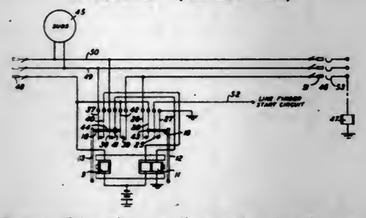
6. In a latch for two relatively movable members, the combination of latch engaging means on one of the members, and pivoted latching means on the other member, said latching means comprising a seat for said latch engaging means to restrain movement of the movable members in one direction and a guideway for by-passing around said seat having an entrance on one side of said seat and an exit on the other side of said seat, said guideway being of gradually decreased depth from the entrance to the exit.

2,321,709
FEATHERWEIGHT HAIR CURLER
Nathan L. Solomon, Mount Vernon, N. Y.
Application October 29, 1942, Serial No. 463,801
6 Claims. (Cl. 132—31)

1. In a hair curler, a one piece relatively thin shell having an interstitial body provided with reinforced ends, said body comprising netted means normally diametrically expanded and relatively foreshortened lengthwise and adapted on application of an outward thrust thereon to attenuate longitudinally and become smaller cross sectionally.

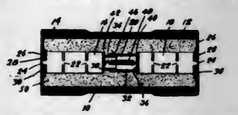


2,321,710
RELAY
Hugh M. Stoller, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 26, 1941, Serial No. 412,360
5 Claims. (Cl. 179—18)



1. In combination, a line relay having a magnetic circuit including a core and an armature attractable thereto, contact springs operable by said armature and a cut-off relay having a magnetic circuit including a core and an armature attractable thereto, contact springs operable by said armature, and a copper sleeve on the cut-off relay core to enable a quick build-up of current in the cut-off relay coil.

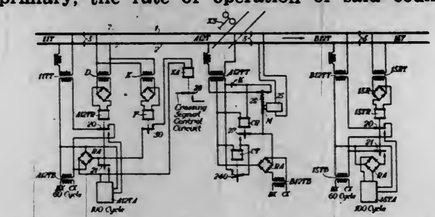
2,321,711
FUSIBLE ELECTRIC PROTECTIVE DEVICE
Elmer H. Taylor, Newburyport, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application May 12, 1939, Serial No. 273,253
17 Claims. (Cl. 200—123)



1. A fusible electrical protective device including an enclosing casing, separable circuit interrupting elements within said casing, means including a fusible mass operable when fused to permit the separation of said elements, a spring within said casing operative to effect the separation of said elements in response to the fusing of said fusible mass, a filler within said casing, and a spring housing embedded in said filler and enclosing said spring and isolating it from said filler.

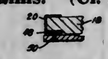
2,321,712
RAILWAY SIGNALING SYSTEM
Howard A. Thompson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 25, 1941, Serial No. 385,039
1 Claim. (Cl. 246—130)

In combination, a stretch of railway track intersected by a highway and comprising a signal approach section and a signal clearing section, a crossing signal for the intersection, means governed by traffic conditions in advance of said clearing section for supplying to the rails of said clearing section train governing energy comprising continuous alternating current of a first or a second frequency, a track transformer having its secondary winding connected across the rails of said approach section, a source of unidirectional current, a control relay, an electroresponsive device having a winding receiving energy over the rails of said clearing section and having a member operated at a rate determined by the frequency of the energy supplied to the winding of said device, said member controlling circuits for supplying energy from said source of unidirectional current to the primary winding of said track transformer and to said control relay, a coding device having a contact effective when the device is energized to periodically establish a circuit to supply energy from said source of unidirectional current to said track transformer primary, the rate of operation of said coding



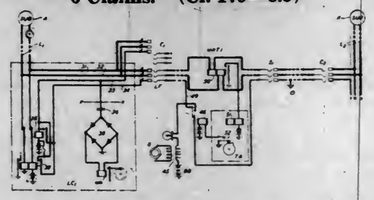
device contact being such that the frequency of the energy induced in the track transformer secondary winding when current is supplied to the transformer primary winding over the circuit controlled by said coding device is substantially lower than that of the train governing energy, said control relay being effective when released to establish a circuit to supply energy to said coding device, a first track relay receiving energy over the rails of said approach section through a first transformer and a second track relay receiving energy over the rails of said approach section through a second transformer, the first relay and transformer being proportioned so that said relay is picked up when and only when energy of the train governing frequencies is supplied to said transformer, the second relay and transformer being proportioned so that the relay is picked up when energy of either train governing frequency or said lower frequency is supplied to said transformer, said first relay controlling the supply of train governing energy to the rails of the adjacent section in the rear, said second relay controlling said crossing signal.

2,321,713
SHOE AND SHOE BOTTOM UNIT AND METHOD OF MAKING THE SAME
Chester D. Turner, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 8, 1941, Serial No. 392,440
10 Claims. (Cl. 12—146)



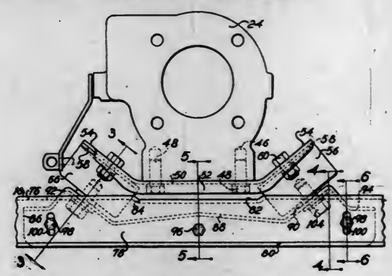
1. That improvement in the manufacture of bottom units for platform shoes which consists in disposing in superimposed face-to-face relation an outsole, a welt and one lateral marginal portion of an edge binding strip and securing said parts together by means of stitches extending through the welt from its upper to its lower side, disposing a platform sole in superimposed relation to said outsole, and securing said strip to said platform sole by means of adhesive to cover the edge and the upper marginal surface portion of the latter and to secure said soles together.

2,321,714
TELEPHONE SYSTEM
Edward Vroom, Ossining, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 28, 1940, Serial No. 358,821
6 Claims. (Cl. 179—8.5)



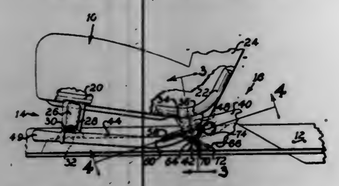
1. In a telephone system, a line circuit comprising a control conductor, a line cut-off relay, means connecting said relay to said conductor, a message register, a condenser, a rectifier, and means comprising said condenser connecting said register and rectifier to said conductor, grounded sources of direct current including a booster battery, and a source of alternating current, said relay being operatively energized upon application of either ground or booster battery potential to said conductor and said register being operatively energized upon application of an alternating potential to said conductor.

2,321,715
MOTOR MOUNT
Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application March 22, 1941, Serial No. 384,609
11 Claims. (Cl. 248—7)



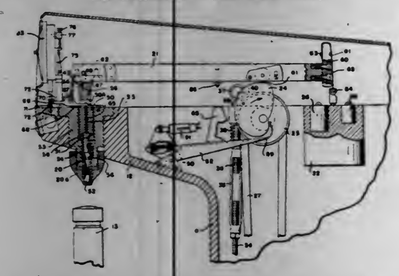
1. In an automobile having load carrying members, a power unit, a cross member extending between two of said load carrying members, mounting brackets capable of supporting vertical loads and transmitting longitudinal thrusts secured to said power unit, connectors carried by said brackets and insulated therefrom by deformable material, a sub-member pivotally supported on said cross member and arranged to transmit longitudinal thrust force thereto, means securing said connectors to said sub-member, and means for rigidly clamping said sub-member to said cross member to prevent pivotal movement therebetween.

2,321,716
ADJUSTABLE SEAT
Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application April 28, 1941, Serial No. 390,663
3 Claims. (Cl. 155—116)



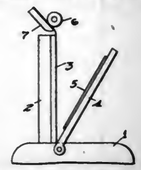
3. In combination with a base, a seat having a pivotal support on said base along one edge of said seat, transversely aligned brackets carried by said seat along the opposite edge thereof from said pivotal support, a transverse bar pivotally supported in said brackets, cam plates secured to said bar and arranged to engage portions of said base in a plurality of positions, a ratchet wheel secured to one end of said bar and having a pin extending from the center thereof, a lever defining a slot in one end thereof, said lever being supported with said pin in said slot, a retaining member secured to the end of said pin and retaining said lever between itself and said ratchet wheel, a second pin carried by said lever and engageable with said ratchet wheel, a release bar slideably supported relative to said lever and anchored to said retaining member, a spring carried by said release bar and engaging a portion of said lever to urge said lever to engage said ratchet wheel, and a handle portion for said lever arranged adjacent to the end of said release bar.

2,321,717
HARDNESS TESTING MACHINE
William Donald Wallace, Wayne, Mich., assignor, by direct and mesne assignments, of forty-six and two-thirds per cent to Denes Pataki, thirty-three and one-third per cent to Carl Ross, and twenty per cent to Elmer Strasser
Application October 23, 1939, Serial No. 300,849
15 Claims. (Cl. 265—12)



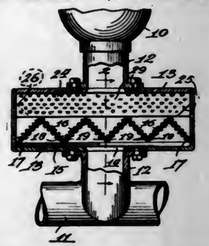
1. A hardness testing machine comprising a work supporting member and a penetrator member movable one toward the other so as to bring the work and penetrator into contact, an oscillatory member of predetermined mass, a constant ratio power multiplying leverage between said oscillatory member and one of the aforesaid members, and means for maintaining substantially constant velocity in said oscillatory member during the relative movement of said penetrator and work toward each other into contact.

2,321,718
PRINTING APPARATUS
Marcus A. Wells, Worcester, Mass.
Application February 27, 1941, Serial No. 380,803
8 Claims. (Cl. 101—204)



1. In a printing mechanism, an inking roller, a chase having imprinting means therein over which the roller is moved, and means in said chase for delivering ink to said roller.

2,321,719
GASEOUS FUEL MIXER
William R. West, Montebello, Calif.
Application June 27, 1941, Serial No. 400,139
2 Claims. (Cl. 48—180)

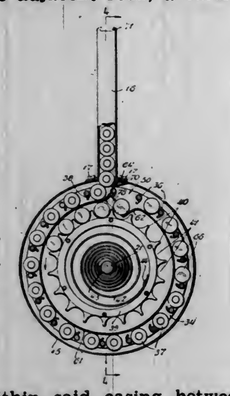


1. In a gaseous fuel mixing device, a housing provided with inlet and outlet openings, a plurality of inverted V-shaped members transversely disposed within the lower portion of the chamber within said housing each inverted V-shaped member comprising a pair of identical walls disposed one above and in direct contact with the other, the lower edges of which members are elevated with respect to the bottom of the housing, the upper wall of each inverted V-shaped member being provided with apertures, upwardly projecting burrs surrounding said apertures the lower wall of each inverted V-shaped member being provided with apertures and with downwardly projecting burrs surrounding said apertures, an inverted V-shaped member within the upper portion of the chamber within said housing and disposed at right angles to the first mentioned inverted V-shaped members said last mentioned inverted V-shaped member comprising a pair of identical walls, one disposed above and in direct contact with the other, the upper wall of said last mentioned upper inverted V-shaped member being provided with perforations and upwardly projecting burrs surrounding said perforations and the lower wall of said last mentioned inverted V-shaped member being provided with perforations and with downwardly projecting burrs surrounding said perforations.

2,321,720
MAGAZINE FOR FIREARMS
John R. Whittaker, Babylon, N. Y., assignor to Automatic Appliance Corporation, New York, N. Y., a corporation of New Jersey
Application May 13, 1941, Serial No. 393,166
5 Claims. (Cl. 42—50)

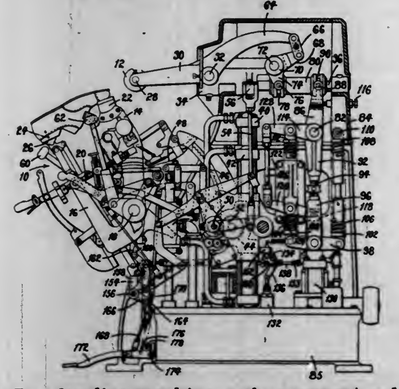
1. A cartridge-containing magazine for fire-

arms, comprising a cylindrical casing, a cartridge clip communicating with said casing and having an opening formed therein for the insertion and withdrawal of cartridges, a rotary cartridge carrier within said casing, a cartridge-supplying frame having the form of a squirrel cage and comprising a plate firmly connected with said cartridge carrier, a ring, and a plurality of circularly disposed rods having ends connected with said plate and said ring and being spaced in relation to each other to enable the insertion of a cartridge between two adjacent rods; a cartridge support



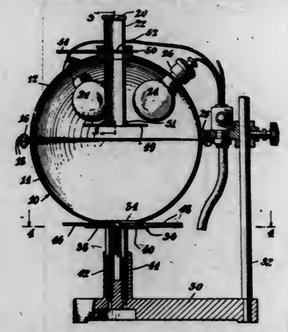
situated within said casing between said cartridge carrier and said rods, and means firmly connecting said cartridge support to said casing, said cartridge support being adapted to carry cartridges situated between said rods and having an end portion situated close to said cartridge carrier for receiving cartridges from said cartridge carrier when the latter is rotated, and another end portion situated close to said cartridge clip, whereby said rods move the cartridges carried by said cartridge support from said cartridge carrier and toward said clip.

2,321,721
LEVELING MACHINE
Erastus E. Winkley, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 22, 1941, Serial No. 384,717
31 Claims. (Cl. 12—34)



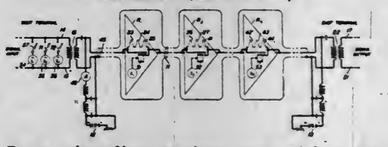
1. In a leveling machine, a shoe support, a leveling tool, means for effecting relative movement of the shoe support and said leveling tool in directions lengthwise of a shoe on the support to cause the tool to operate progressively along either the forepart or the shank portions of the shoe bottom, and automatic means for terminating said relative movement each time in the operation of the machine when the tool is located nearly at the junction of the forepart and shank portions of the shoe bottom.

2,321,722
VISUAL COLOR COMPARATOR
Emanuel M. Zelony, New York, N. Y.
Application October 4, 1940, Serial No. 359,679
5 Claims. (Cl. 88—14)



5. In a visual color comparator for comparing a sample and a standard, a light diffusing enclosure having a highly reflective interior surface, a source of illumination for the interior of said enclosure, an eye-port at one side of the enclosure aligned with an aperture at the other side of the enclosure, and two independently retractable platform members of substantially equal size and together at least equalling the size of said aperture and positioned therebelow for holding a sample and a standard for observation, said platform members being directly adjacent one another.

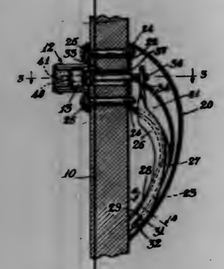
2,321,723
SPEECH TRANSMISSION SYSTEM
Manvel K. Zinn, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 26, 1942, Serial No. 448,547
5 Claims. (Cl. 179—1)



1. In a signaling system comprising an attended repeater station and a plurality of unattended repeater stations geographically separated from the attended station and from each other and having a transmission line joining the attended station and the unattended stations and including an amplifier in said line at each of said unattended stations, each of said amplifiers including a filament heater circuit, an energizing source for said heater circuits, means at each of said unattended stations operative if the respective amplifier be in operative conditon and effective when operated to short-circuit the filament heater circuit of the respective amplifier so far as said energizing source is concerned,

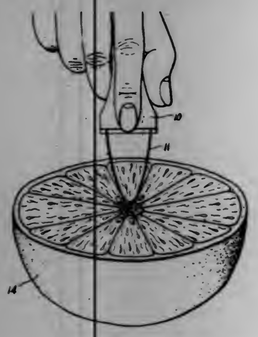
means at said attended station for selectively operating said short-circuiting means one at a time and means at said attended station for observing changes in the current flow of the line, said shorting means being ineffective with respect to inoperative amplifiers.

2,321,724
CATCH OPERATOR
Gedor W. Aldeen and Earl Borchers, Rockford, Ill., assignors to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application January 31, 1941, Serial No. 376,794
8 Claims. (Cl. 292—166)



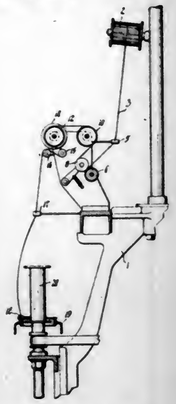
1. A catch operator of the character described comprising, in combination, a handle portion in the form of a shell, a base plate mounted therein having a longitudinal slot and a transverse bar at one end of said slot, a movable member mounted edgewise in said slot and having a hooked end engaging said bar to pivotally support said member, and means connecting the other end of said member with the catch.

2,321,725
CUTTER FOR CITRUS FRUITS
Sterling W. Alderfer, Akron, Ohio
Application May 23, 1941, Serial No. 394,872
2 Claims. (Cl. 30—24)



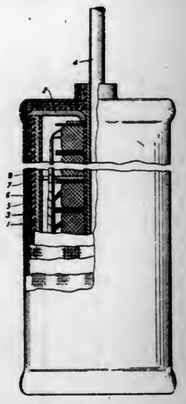
1. A cutter for separating the pulp of citrus fruit from the natural integuments that surround the pulp segments of the fruit, said cutter comprising a handle, and a blade consisting of a flat metal wire formed with a cutting edge, said blade having its respective ends mounted in one end of the handle in spaced apart relation, and formed intermediate its ends in a loop, the sides of which converge toward a rounded nose.

2,321,726
METHOD OF MANUFACTURING THREAD
Sterling W. Alderfer, Akron, Ohio, assignor of one-half to Edward D. Andrews, Akron, Ohio
Application October 23, 1941, Serial No. 416,199
9 Claims. (Cl. 57—168)



1. A process of making thread comprising forming a ribbon of a rubber-like material, rolling said ribbon upon itself to form a strand, and twisting the strand upon itself to form the thread.

2,321,727
INSULATING FINISH FOR APPARATUS CASES
Joseph R. Bardsley, Yonkers, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 15, 1942, Serial No. 439,089
1 Claim. (Cl. 174—50)

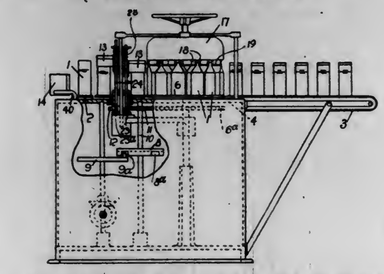


A loading coil housing for underground installation in direct contact with the soil including a metallic container in which the loading coils are adapted to be disposed, and protecting means for said container, said protecting means comprising a layer of electrically insulating thermoplastic compound applied directly to substantially all the external surface of said container, a layer of wire cloth extending over substantially all portions of said thermoplastic layer, and a layer of a bituminous product in which said wire cloth is completely embedded.

2,321,728
INTERPOLYMERIZED SUBSTANCE CONTAINING UNSATURATED METHYLENE GROUPS
Carl E. Barnes, Worcester, Mass., assignor, by mesne assingments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 11, 1939, Serial No. 308,646
4 Claims. (Cl. 260—84)

1. An interpolymer of a base substance selected from the group consisting of the methyl and ethyl esters of acrylic and methacrylic acids, copolymerized with not over 10% of a substance from the group consisting of acrylic and methacrylic anhydrides, and with not over 50% of a substance from the group consisting of the vinyl esters of acrylic and methacrylic acids.

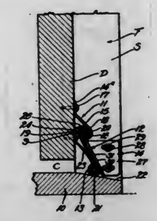
2,321,729
SEALING OF CARTONS
Harold Holmyard Beasley, Ashton Gate, Bristol, England
Application January 27, 1941, Serial No. 376,207
In Great Britain February 6, 1940
9 Claims. (Cl. 93—6)



1. A carton sealing machine comprising a number of rotary carriers each having associated therewith distinctive carton treating means, a supply conveyor for delivering open cartons successively to one of the carriers, and a discharge conveyor for conveying away the sealed cartons from another of the carriers, hoods located above the carrier which receives the open cartons so as to be aligned with the open upper ends of the cartons, means to depress the hoods to fold the cartons into a closed or wedge-like form, means to engage and push the cartons from under such hoods to another of the rotary carriers, heating means located above said latter rotary carrier for softening the wax or other sealing medium of the cartons, means to engage and push the upper parts of the cartons from this heating means to a further one of the said carriers, pinching devices above said further one of said carriers for pinching together the mouthparts of the cartons to effect a final sealing operation, means discharging the cartons successively from the latter carrier to said discharge conveyor, means rotating the carriers simultaneously in an intermittent manner and mechanism for operating all of the said carton pushing and discharging means simultaneously during the stationary periods of the carriers.

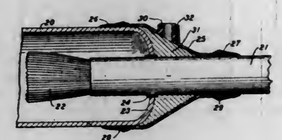
2,321,730
WEATHER STRIP
John S. Benson, Culver City, Calif.
Application December 2, 1940, Serial No. 368,204
5 Claims. (Cl. 20—67)

1. A weather strip for sealing between a movable closure and a surface of a building structure comprising a supporting member to be secured to the closure to project from a face thereof, a curl on the member, a sealing member, a curl on the sealing member engaged with the first named curl to support the sealing member for swinging movement between a raised position and a sealing position in sealing engagement with



said surface, a cam attachable to the building structure to be engaged by the sealing member to swing the same to said sealing position when the closure is moved to the closed position, and a single spring attachable to the closure for swinging the sealing member to the retracted position when the closure is opened and acting on the curl of the member to resist bodily shifting of the member.

2,321,731
METHOD OF MAKING REPAIRS AND JOINTS IN CABLE SHEATHS
George M. Bouton, Madison, George S. Phipps, Chatham, and Earle E. Schumacher, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 18, 1941, Serial No. 423,414
2 Claims. (Cl. 22—203)

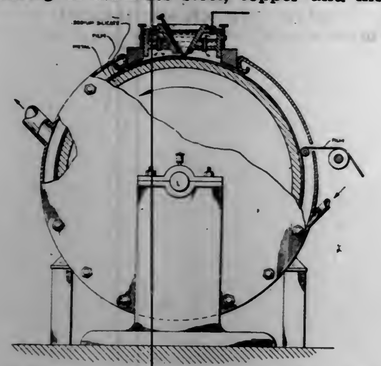


1. A method of making joints or repairs in dispersion hardened lead cable sheaths which consists in securing a preformed flexible mold to the cable where the joint or repair is to be made, pouring into said mold, a molten solder comprising 30 to 34 per cent lead, 16 to 20 per cent cadmium and 48 to 52 per cent tin, said solder having a melting point low enough to permit fluid casting without heating the sheath at the edge of the joint above the temperature which would cause appreciable quantities of the precipitated and partially coalesced antimony particles in the lead sheath to go into solution.

2,321,732
APPARATUS FOR EVAPORATIVE CASTINGS
Gilbert W. Brant, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 5, 1941, Serial No. 401,289
9 Claims. (Cl. 18—47)

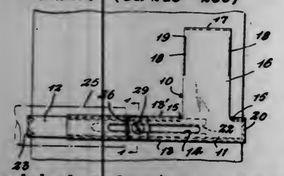
1. A metallic casting surface from the group

consisting of stainless steel, copper and nickel,



having a thin coating of dried and baked alkali metal silicate.

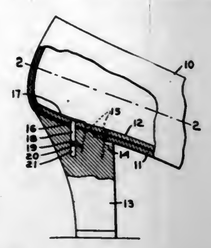
2,321,733
COMBINED CURTAIN AND SHADE BRACKET
Jose Borges Cabral, New Bedford, Mass.
Application June 4, 1942, Serial No. 445,783
1 Claim. (Cl. 248—259)



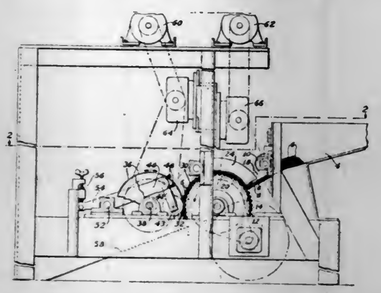
A combined shade and curtain bracket comprising a pair of sections, one of the sections consisting of an elongated portion having inturned longitudinal flanges and a right angular extension upon one of the sides of the elongated portion, said extension having a flange at its end of a depth the same as the first named flanges, the flanges forming a footing for engaging a window frame, and said extension further having ear members for support of a curtain rod, said elongated portion having a slot intermediate its length, the other of said sections being a flat strip member of a width to be slidably engaged between the longitudinal inturned flanges of the first named section, the flat strip member having a slot aligned with the first slot, a shade bracket having an apertured base aligned with the slots of the sections, a threaded fastener engaged through the aperture and aligned slots whereby to secure the bracket upon the sections and to further hold the sections in a desired adjusted position, and each of said sections having prong members arranged in opposed relation to each other for penetration of a window framing for support of the bracket.

2,321,734
SHOE AND HEEL CONSTRUCTION
Walter Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation
Application August 10, 1940, Serial No. 352,070
6 Claims. (Cl. 36—34)

1. In a shoe comprising an upper structure and a heel, a nail-like heel attaching member having a shank which is driven downward through the shoe bottom element adjacent the rearmost extremity thereof and into the heel, said shank having a relatively thin flexible chisel shaped point of such construction that when the attaching member is driven, the point of the shank will automatically be forced into clinching position and an enlarged head on said attaching member which overlies the rearmost extremity of the heel portion of the shoe bottom and rigidly clamps it to the heel.



2,321,735
METHOD AND MACHINE FOR SEVERING TUBES
Walter B. Clifford, Boston, Mass., assignor to Clifford Manufacturing Company, Boston, Mass., a corporation of Delaware
Application January 12, 1942, Serial No. 426,378
11 Claims. (Cl. 164—61)

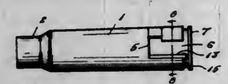


5. A machine for severing thin-wall tubes comprising a feeding member, anti-friction rotating members carried by the feeding member and arranged to support the tubes, a rotating driving wheel having a surface to frictionally engage and rotate the tubes, a cutter to which the tubes are successively presented, means for mounting the cutter whereby the edge thereof penetrates only the wall of the tube, and means for operating the cutter at substantially the same peripheral speed as the tubes.

2,321,736
METHOD OF STIMULATING PLANTS
Robert N. Du Puis, Chicago, and Charles William Lenth, Wilmette, Ill., assignors to Association of American Soap & Glycerine Producers, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application February 16, 1940, Serial No. 319,352
16 Claims. (Cl. 47—58)

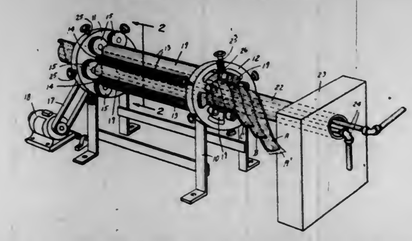
1. The method of maintaining viability of plant material during storage and shipment which consists in placing in contact with assimilative parts thereof which are normally below ground a water solution containing polyhydric alcohol in a concentration from .1 to 10%.

2,321,737
CONVERTER CARTRIDGE
Ralph C. Engel, Ida, Mich.
Application June 25, 1941, Serial No. 399,709
1 Claim. (Cl. 102—41)



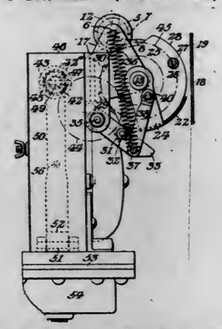
A converter cartridge adapted to be loaded with a smaller cartridge having an edge rim, said converter cartridge comprising a shell embodying an enlarged rear end chamber forming an internal shoulder adjacent the rear end of the shell for coaction with the rim of the smaller cartridge to establish the loaded position thereof, said shell being provided with a bayonet slot therein opening into said chamber and onto the rear end of the shell, a cylindrical breech block endwise slidable in said chamber and rotatable therein and adapted to engage the rim of said smaller cartridge, a circumferential lug on said block for coaction with said slot under sliding and rotation of the block in one direction to lock said block, and means coacting with one edge of the slot to lock the block against rotation in the opposite direction and comprising a substantially right-angled pin including a leg extending crosswise through said block in circumferentially spaced relation to said lug and a resilient leg extending lengthwise along said block, and provided with an upwardly bent end, said block having a groove therein parallel with said one edge of said slot and having a deepened portion into which the upwardly bent end of the resilient leg is adapted to be depressed to unlock said block for rotation in said opposite direction.

2,321,738
APPARATUS FOR PRODUCING MULTIPLY TUBING
Cyril Farny, St. Charles, Ill., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application March 20, 1941, Serial No. 384,249
7 Claims. (Cl. 144—268)



1. An apparatus for continuously forming multi-ply tubing comprising a cylindrical mandrel about which a plurality of strips of flexible material are spirally wound, means for supporting said mandrel, a plurality of cylindrical screw feeding members supported about the periphery of said mandrel and extending longitudinally thereof, said members being provided with peripherally disposed screw threads, means adapted to effect operative engagement of said screw threads with the exterior surface of the formed tubing, and means operable to cause relative rotation between said screw feeding members and formed tubing, whereby said members will act to slide said tubing longitudinally of said mandrel.

2,321,739
REGISTERING MECHANISM
Joseph E. Fernly, Conshohocken, Pa., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa., a corporation of Delaware
Application September 17, 1940, Serial No. 357,089
3 Claims. (Cl. 40—61)



1. In registering mechanism; the combination with a member having freedom for rotation and carrying a circular series of indicia; of means for turning said member, in alternately opposite directions; means forming a window opening at which a character of said series may be registered and displayed, by turning movement of said member; shutter means for closing said opening; and means connecting said member with said shutter means, for closing said opening at a predetermined point in the turning movement of said member, including a cam, a cam lever, a roller carried by the lever, and a spring continually stressing the lever and holding the roller in cooperative relation with the cam.

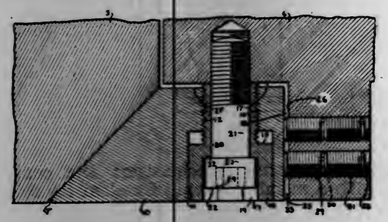
2,321,740
ARTICLE AND A METHOD OF MOUNTING CHARACTERS OF WOOD, OR THE LIKE, ON A BACKGROUND OF WOOD, OR SIMILAR MATERIALS
Arthur W. Flint, Toronto, Ontario, Canada
Application June 15, 1940, Serial No. 340,692
In Canada June 15, 1939
8 Claims. (Cl. 41—34)



1. A method of mounting characters of wood veneer on a base of wood and the like material which consists in, first using a coat of glue having a comparatively high melting point to mount a sheet of paper on a sheet of wood veneer, to form a backing therefor and prevent cracking and splitting of the veneer when the same is cut by a die; then applying a coat of glue having a comparatively low melting point, and mixed with glycerine and water to the exterior surface of the said paper sheet; next placing the prepared sheet of veneer and paper on top of the base material, with the coated exterior surface of the paper sheet adjacent to the basic material; next applying a cutting-die having characters formed thereon, to the upper surface of the veneer, said die being heated to a temperature sufficient to melt and soften the glue having the low melting point, but less than that required to melt the glue having the higher melting point; and then using pressure on the die sufficient to make the cutting edges of the die penetrate through the wood veneer, the paper backing, and somewhat

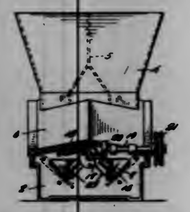
into the surface of the base material, for the purpose of embedding the edges of the characters cut out by the die into the said base, while the under surface of the paper characters and the top surface of the base material are being securely glued together.

2,321,741
GUIDING MEANS FOR PRESS PLATENS
Paul E. Flowers, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application April 12, 1941, Serial No. 388,213
7 Claims. (Cl. 308—3)



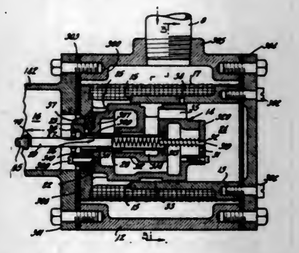
1. In combination, a reciprocatory element and a guiding gib therefor, guiding means for slidable engagement with said gib, combined locating and locking means for locating said gib and locking the same to said reciprocatory element without impeding relative sliding movement between said gib and said guiding means, and supporting means independent of said combined locating and locking means and adjustably mounted in said element at an angle to said combined locating and locking means and abutting said gib for taking up bending and shearing forces exerted upon said locating and locking means.

2,321,742
GRADING AND SEPARATING MACHINE
Henry V. Garcia, San Antonio, Tex., assignor to Southern Pecan Shelling Company, San Antonio, Tex., a corporation of Texas
Application September 11, 1941, Serial No. 410,473
2 Claims. (Cl. 209—99)



1. In a separating machine, a frame sloping from one end to the other end thereof, a pair of longitudinally extending downwardly converging plates pivotally supported in the frame at their upper edges, an inverted V-shaped member extending longitudinally in the machine between the plates with its edges spaced from the lower edges of the plates above the same, means for oscillating the V-shaped member to agitate the material being separated and means for adjusting the lower edges of the plates vertically toward and away from the edges of the V-shaped member to regulate the size of the openings between such edges of the V-shaped member and the adjacent parts of the plates.

2,321,743
VALVE
Francis W. Guibert, Beverly Hills, and Frederic B. Fuller, Whittier, Calif.; said Fuller assignor to said Guibert
Original application December 27, 1938, Serial No. 247,966. Divided and this application August 14, 1939, Serial No. 290,009
6 Claims. (Cl. 137—139)



4. In a valve, a housing including a side wall, means forming a sump in the lower portion of the housing, and an end wall, there being an inlet in the side wall and an outlet in the end wall intermediate the side wall and the sump, means forming a valve seat about the outlet, a closure member in the housing adapted to cooperate with said seat, means for optionally causing said member to move toward or away from said seat, an annular screen surrounding said closure member so as to be interposed between the inlet and the outlet, and means to drain the sump.

2,321,744
SHEET ABRASIVE
Robert W. Hackett, East Braintree, Mass., assignor to Abrasive Products, Inc., South Braintree, Mass., a corporation of Massachusetts
No Drawing. Application September 22, 1941, Serial No. 411,850
7 Claims. (Cl. 51—295)

1. A flexible abrasive sheet comprising a flexible backing of water-absorbent sheet material, a coating consisting essentially of diethylene glycol diabietate applied to said backing, a layer of an abrasive grit-binding adhesive applied to one surface of said coated backing, and abrasive grit embedded in said adhesive layer and bonded to the backing thereby.

2,321,745
GAS TREATING APPARATUS
William J. Harshaw, Shaker Heights, Ohio, assignor to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
Application April 30, 1941, Serial No. 391,190
6 Claims. (Cl. 183—4)

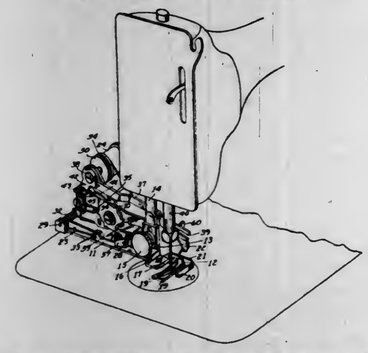


1. In apparatus for the removal of vapors from gases, a plurality of absorptive bodies capable of absorbing such vapors, each of said bodies having a thickened portion within its circumference and an opening through the thickened portion thereof and an elongated heating element on which said absorptive bodies are received in a beadlike series, said heating element passing through said openings.

2,321,746
PRODUCTION OF MONO-FILAMENTS
Karl Heymann, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 1, 1941, Serial No. 413,242
19 Claims. (Cl. 57—157)

1. In the method of forming a unitary filament from a bundle comprising thermoplastic vinyl resin filaments stretched in excess of 50%, the steps of twisting said bundle and effecting fusion of said filamentary material into a unitary filament by heating said bundle while preventing longitudinal contraction thereof.

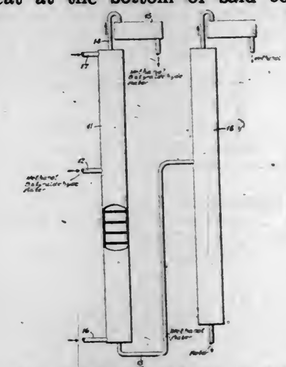
2,321,747
OVERCASTING DEVICE FOR SEWING MACHINES
James Hickey, Portland, Oreg.
Application July 5, 1941, Serial No. 401,074
10 Claims. (Cl. 112—162)



1. An overcasting device adapted to be used on an ordinary sewing machine comprising a frame, means for attaching said frame to the bar of the pressure foot of the sewing machine, a bell crank rotatably mounted on said frame, means for connecting said bell crank to the needle spindle of the sewing machine, a cam disc rotatably mounted on said frame, said cam disc rotated by said bell crank, a positioning arm pivotally mounted on said frame below said disc for up and down movement, a spring pressing said arm upwardly against the bottom of the perimeter of said cam disc, whereby said spring and said cam disc will operate to produce vertical reciprocation of said arm when said cam disc is rotated, an overcasting thread feeder, one end of said feeder supported on said arm and mounted to permit the other end to oscillate in a substantially horizontal arc, means connected with said bell crank for causing the free end of said feeder to oscillate, whereby said free end will swing into position alternately above and below the material being stitched when said positioning arm is raised or lowered.

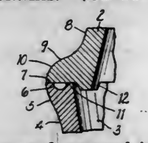
2,321,748
SEPARATION OF MIXTURES OF METHANOL AND BUTYRALDEHYDE
John H. Hopkins, Arlington, and Barnard M. Marks, Upper Montclair, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 4, 1940, Serial No. 333,306
4 Claims. (Cl. 202—41)

1. Process of separating from an aqueous mixture of methanol and butyraldehyde, a mixture of methanol and water substantially free from butyraldehyde, and a mixture of methanol, butyraldehyde, and water containing substantially all of the butyraldehyde contained in said original mixture, which process comprises introducing said original mixture into a fractionating column at an intermediate point thereof, applying heat at the bottom of said column to



volatilize said original mixture, maintaining a reflux ratio of less than about 2:1 at the top of said column, introducing water, in excess of the water contained in said original mixture, into said fractionating column to the extent necessary to maintain a water content of at least 77.5% in the liquid at the bottom of said column, and maintaining a water vapor concentration of about 7% to 15% by weight of the butyraldehyde vapor at the top of said column.

2,321,749
CULINARY UTENSIL
Lewis G. Howlett, Hartford, Mich., assignor to Burnette Castings Company, Hartford, Mich.
Application January 25, 1943, Serial No. 473,485
3 Claims. (Cl. 53—1)



1. A cooking vessel comprising a pair of coacting annular molded metal top and bottom utensil members each of which is flared outwardly to a substantial extent at the open extremity thereof to provide relatively massive annular reinforced joint portions presenting coacting joint surfaces of substantial radial width, said surfaces having flush sealing engagement throughout the periphery of the vessel and the lowermost thereof being provided with an annular groove of semi-circular section extending around the entire periphery of the lower member, said groove being disposed intermediate the inner and outer sides of the lower member surface and coacting with the corresponding or juxtaposed surface of the top member in providing a water seal channel, the outward flaring of said upper member joint portion being relatively sharp to provide a substantial mass of metal above said channel remote from the interior of the vessel and at a relatively low temperature to insure quick conduction and radiation of heat from the channel and thereby facilitate condensation of vapor entering the channel.

2,321,750

RESINOUS COMPOSITIONS AND METHOD OF THEIR PRODUCTION

Irvin W. Humphrey, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 18, 1938, Serial No. 185,513
13 Claims. (Cl. 260—78)

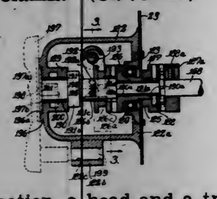
1. The product of the reaction of maleic anhydride and a polymerized terpene composed largely of a diterpene of formula $(C_{10}H_{16})_2$.

2,321,751

POWER TAKE-OFF

Edward J. Karp, Cicero, Ill., assignor to G. S. Blakeslee & Co., Cicero, Ill., a corporation of Illinois

Original application April 25, 1941, Serial No. 390,229. Divided and this application July 23, 1942, Serial No. 452,064
4 Claims. (Cl. 74—11)



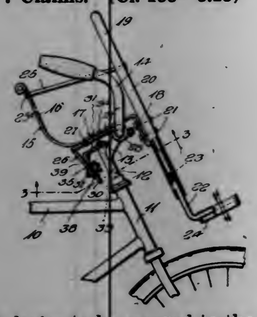
1. In combination, a head and a transmission unit mounted therein having a take-off shaft extending therefrom toward a wall of said head, said wall having an opening therethrough, a housing removably mounted on the outer face of said wall over said opening, a driven shaft mounted in said housing substantially coaxial with said take-off shaft, a sleeve extending about said driven shaft mounted for rotation therewith and relative thereto, means for clutching and declutching said sleeve to and from said driven shaft, and means establishing driving connection between said take-off shaft and said sleeve disconnectible by endwise movement of said sleeve away from said take-off shaft.

2,321,752

BICYCLE HANDLE-BAR SEAT

Joseph J. Kerr, Dillon, S. C.

Application August 27, 1941, Serial No. 408,513
7 Claims. (Cl. 155—5.13)



6. A seat device to be secured to the handlebar of a bicycle, said seat device comprising a connected back and seat, upstanding arms secured to the seat adjacent to its forward end and extending above and below the seat for substantial distances, side elements connected with the upstanding arms and the back, a foot rest carried by the lower ends of the upstanding arms, and means to secure the seat and back to the handlebars.

2,321,753

COVER FOR COOLER CABINETS

Harold D. King, Medina, Ohio, assignor to American Hard Rubber Company, New York, N. Y., a corporation of New York

Application June 7, 1941, Serial No. 396,978
4 Claims. (Cl. 220—30)



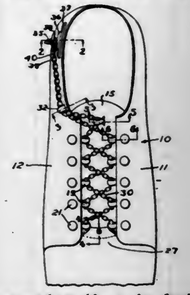
1. A cooler cabinet structure comprising two covers of substantially the same size and shape having inner straight edges arranged adjacent each other, and a hinge for connecting the covers at their inner edges consisting of flexible liquid-imperious material as long as the covers are wide and wide enough to extend laterally a substantial distance onto the covers from the inner edges thereof, the top surface of the inner ends of each cover being provided with a plurality of parallelly arranged slots, said hinge having two parallelly extending enlarged lateral sides with downwardly projecting portions received within the slots in the cover, the lateral enlargements of the hinge being connected by a relatively thin web the middle portion of which lies over the joint between the inner edges of the covers, each lateral enlargement of the hinge being provided with a longitudinally and laterally extending recess terminating short of the ends and side edges of the enlargement and having a slot opening downwardly from the bottom of the recess and bound laterally by the inner edges of the downwardly projecting parts of the enlargement, a metal strip received within the recess and means connected with the metal strip for securing the lateral enlargements of the hinge to the top walls of the covers.

2,321,754

FLEXIBLE CHAIN CLOSURE FOR SHOES

Arthur W. Koehler, Pasadena, Calif.

Application September 1, 1942, Serial No. 456,877
6 Claims. (Cl. 24—140)



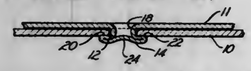
5. A shoe construction including an upper having a pair of opposed side portions, each of the side portions having an inwardly turned flap thereon, each side portion having a plurality of apertures arranged in opposed pairs along the line on which the flaps join the side portions, a plurality of eyelets, each eyelet including a body portion arranged between the flaps and the side portions, and a neck, the necks extending through said apertures, said side portions having a plurality of holes therein, each hole being aligned with an aperture, the eyelet bodies having heads passing through the holes and riveted upon the upper face of the side portions, each eyelet neck having an eye portion secured thereto, said eyes having their axes disposed at right angles to the axes of said heads, a chain member passing through said eyes, said shoe having a tongue thereon, an eyelet disposed on said tongue above the uppermost pair of eyelets, and intermediate said side portions, said tongue having an aperture receiving the neck of said tongue eyelet, one portion of said chain extending through said tongue eyelet, said shoe at the lower end of said tongue having a tongue flap thereon and means on said flap engaging said chain to prevent movement of that portion of the chain which is adjacent to the tongue flap.

2,321,755

DEVICE FOR CONNECTING SHEET METAL PANELS

Harold W. Kost, Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application August 5, 1939, Serial No. 288,606
1 Claim. (Cl. 85—40)



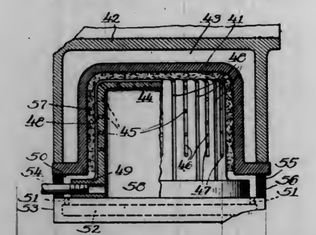
A device for connecting a pair of substantially flat metal panels in face to face juxtaposed relation, one of said panels having an aperture, said device comprising a tube-like imperforate boss integral with and projecting at substantially right angles from the other panel through said aperture, a disc-like head formed on said boss with the sides thereof pressed into intimate sealing engagement with the outer side of said other panel for effecting a substantally water-tight joint, and the side of said boss being expanded laterally within said aperture.

2,321,756

APPARATUS FOR DRYING ACCRETED FIBROUS ARTICLES

Colin Kyle, Geneva, Ill., assignor to Jesse B. Hawley, Geneva, Ill.

Application September 9, 1940, Serial No. 355,915
6 Claims. (Cl. 34—145)



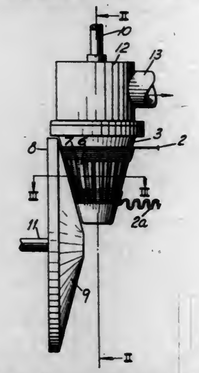
1. In apparatus for drying wet accreted fibrous pulp articles, a pair of pressing dies for pressing said article therebetween, one of said dies being hollow and having grooves in and perforations through its pressing wall, some of said grooves having closed ends and some of them having open ends, the closed-ended grooves being in communication with said perforations, the open ended grooves in said face being alternately positioned between the closed-ended grooves, and means for applying heated air through said perforations and grooves and into and through interstices between the fibers in the article being dried.

2,321,757

METHOD AND APPARATUS FOR CRIMPING TEXTILE FIBROUS MATERIAL

Alvin Lodge, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application July 22, 1941, Serial No. 403,527
14 Claims. (Cl. 28—1)



1. In a method of crimping textile fibrous material, the steps of distributing the material generally in configuration of a tapered helix, applying pressure against said material successively at a plurality of spaced portions of the convolutions in the helix and reducing the mean diameter of each convolution of the material in said helix by progressively forcing said convolutions into the space occupied by each smaller convolution adjacent thereto whereby the circumferential crowding of said material causes distortion thereof and forcing the material intermediate said portions to bend inwardly of said winding.

5. In an apparatus for crimping textile fibrous material, means for winding a textile fibrous material into the general form of a tapered helix, said means having an apicad ribbed winding surface, means for pressing said winding upon its external surface with a force tending to slide a portion of each of the convolutions of said winding toward the smaller end of the tapered helix and means arranged to cause pressure to be applied to the exterior of the convolutions for forcing excess length of the material in the convolutions of smaller diameter inwardly of the winding.

2,321,758

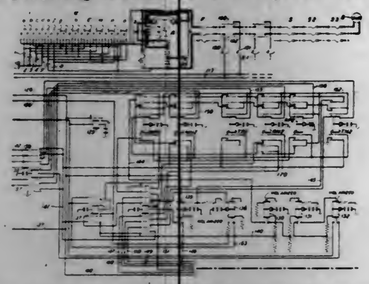
TELEPHONE SYSTEM

Mason A. Logan, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 26, 1941, Serial No. 412,402
21 Claims. (Cl. 179—18)

1. The combination in a telephone signaling system, of a control station, a receiving station, a signal transmission channel interconnecting said stations and including two wires and a ground connection, a source of three-phase alternating current at the receiving station, means at the control station for converting the alternating

current from said source into positive and negative direct current impulses and for selectively applying the impulses to one or the other, or simultaneously to both of the wires of said channel, receiving means for the impulses compris-



ing a three-phase connected network terminating said channel at the receiving station, and means included in each branch of the three-phase termination selectively responsive to the impulses applied to said channel.

2,321,759
MOLDING COMPOUNDS
Maurice L. Macht, Jersey City, and David A. Fletcher, Bloomfield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 30, 1940, Serial No. 326,964
12 Claims. (Cl. 260—84)

1. Process of preparing a molding compound which comprises polymerizing together 100 parts of methyl methacrylate and 5–25 parts of a compound from the group consisting of styrene, vinyl acetate, and methyl acrylate, to obtain a copolymer having an average molecular weight in excess of 32,000 and malaxating said copolymer at an elevated temperature, the extent and character of said malaxation being such as to give a copolymer having an average molecular weight between about 15,000 and 32,000.

2,321,760
PREPARATION OF COLOR PRINTING PLATES
Walter Martin, Orange, N. J.
Application April 24, 1941, Serial No. 390,028
5 Claims. (Cl. 95—5)



1. A method in the preparation of negatives for photo-printing in color which comprises outlining with boundary lines the respective color areas in an original to be reproduced, covering said outlined original with successive transparent sheets, one for each plate to be made, blacking the areas of said transparent sheet within said boundary lines corresponding to the selected color of said sheet and photographing negatives from assemblies of said transparent sheets and "copy" to reproduce transparent areas corresponding to the black area of said transparent sheet and "copy" including the width of said margin lines.

2,321,761
PROCESS FOR PLUGGING FORMATIONS
Clyde H. Mathis and Carl Rampacek, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application August 5, 1940, Serial No. 351,544
10 Claims. (Cl. 166—22)

7. A method of plugging limestone formations in wells including the step of impregnating the formation with a mixture of furfural, a urethane and a hydrochloric acid catalyst, the mixture being non-reactive toward limestone, and controlling the time of setting of the mixture by the amount of hydrochloric acid catalyst used.

2,321,762
ARTICLE OF MANUFACTURE
Frank A. McDermott, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 26, 1940, Serial No. 347,771
12 Claims. (Cl. 21—2)

3. A non-fibrous cellulosic gel band containing water, softener and isopropanol.

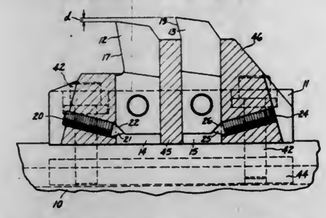
2,321,763
PORCELAIN ENAMEL GROUND COAT
Glenn H. McIntyre, Cleveland Heights, and Eugene E. Bryant, Bedford, Ohio, assignors to Ferro Enamel Corporation, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application May 9, 1939, Serial No. 272,726
11 Claims. (Cl. 117—129)

10. In the art of porcelain enameling, the process of providing a coat of porcelain enamel applied directly to a ferrous surface, which comprises providing a plurality of porcelain enamel frits of compositions suitable for direct application to the work and differing in the limits of their respective fusion ranges by temperatures of from 25° F. to 100 F., preparing a slip comprising a mixture of from about 1 to 4 to about 4 to 1 parts of said different frits, the frit of the relatively high fusing range reduced to a fineness such that from about 85% to about 95% will pass through a 325 mesh screen and the frit of the relatively lower fusion range reduced to a fineness such that from about 85% to about 98% will pass through a 200 mesh screen, and from about 5% to about 50%, based on the total amount of frit, of a material selected from the class consisting of silica, quartz and feldspar and of a particle size substantially larger than colloidal but generally smaller than that of the frit, applying such slip to the work and firing the same at a temperature between the limits of the fusion ranges of the frits.

2,321,764
ARTICLE OF MANUFACTURE
James A. Mitchell, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 6, 1941, Serial No. 421,963
3 Claims. (Cl. 260—734)

1. Moistureproofing coating composition comprising essentially a 12% solution in toluene of 10 parts wax, 90 parts cyclized rubber and 2 parts tetraethyl diamino diphenyl methane, said cyclized rubber having been prepared by heating rubber with an amphoteric metal halide.

2,321,765
TOOL MECHANISM FOR GEAR-CUTTING MACHINES
Richard E. Moyer, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application October 18, 1940, Serial No. 361,758
3 Claims. (Cl. 29—97)



1. A tool mechanism for gear cutting machines comprising a reciprocatory tool slide, a side-cutting part and a slotting part arranged on said slide one behind the other in the direction of reciprocation of said slide, said side-cutting part preceding the slotting part in the cutting direction, said slotting part projecting in height beyond the side-cutting part and having side edges of smaller positive pressure angle than the corresponding side edges of the side-cutting part.

2,321,766
PHENOL ALDEHYDE RESIN
Frederick M. Murdock, Chicopee Falls, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application February 1, 1940, Serial No. 316,764
19 Claims. (Cl. 260—34)

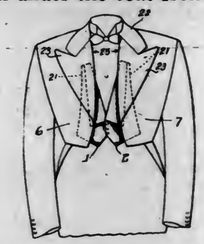
1. In the process of manufacturing resins of the casting type the step comprising completely neutralizing the alkaline reaction product of phenol and formaldehyde by the addition thereto of methyl phthalyl ethyl glycollate.

2,321,767
MANUFACTURE OF AMINOANTHRAQUINONE COMPOUNDS
James Ogilvie, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application June 26, 1940, Serial No. 342,439
10 Claims. (Cl. 260—378)

1. In the production of a 1,4-diamino-anthraquinone by the desulfonation of a para-diamino-ortho-sulfo-anthraquinone with an alkaline reducing agent, the improvement which comprises reacting the para-diamino-ortho-sulfo-anthraquinone with a furane aldehyde and aqueous alkali.

2,321,768
WAISTCOAT ATTACHMENT FOR DRESS COATS
Adam Osth, Chicago, Ill., assignor to Alfred Decker & Cohn, Inc., Chicago, Ill., a corporation of Illinois
Continuation of application Serial No. 186,607, January 24, 1938. This application May 27, 1940, Serial No. 337,342
1 Claim. (Cl. 2—95)

A dress coat having an inside facing for the two coat fronts, said facing terminating on a curved line where it meets the edge of the lining of the coat, longitudinally disposed fastening means secured to each facing, each row being close to said curved line at its lower end but veering away from said line at its upper end, a pair of waistcoat fronts each tapered upwardly for substantially more than half its length, but with their narrow upper ends stopping short well below the coat collar and concealed for their full narrow width under the coat fronts, each waist-



coat front having cooperative fastening means, spaced a uniform distance from the inner edge of the front, and means for buttoning the relatively short but relatively wide lower portions of the waistcoat fronts together, so that the waistcoat constitutes the only means provided for drawing the coat snugly around the body of the wearer, and whereby said narrow upper ends are held flatwise against the shirt front by said facing.

2,321,769
TESTING APPARATUS
Henry Persson, Bloomfield, N. J.
Application December 31, 1941, Serial No. 425,173
8 Claims. (Cl. 73—51)



1. The combination in apparatus for testing by rotation a fuze device having an arming member radially movable by rotation, of a rotatable receiver for a fuze device, a closure for overlying a fuze device in the receiver having an opening on the axis of rotation of the receiver through which the arming member thereof is visible, means to rotate said receiver, and releasable engaging means associated with said receiver and closure.

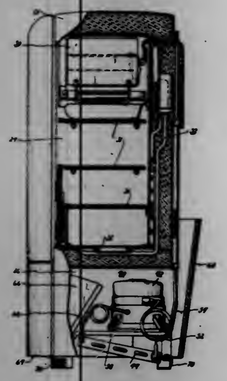
2,321,770
LOADING TOOL
Henry Persson, Bloomfield, N. J.
Application March 17, 1942, Serial No. 435,033
5 Claims. (Cl. 86—30)



1. A tool of the class described comprising in

combination, a barrel having a bore therein, a plunger having an upper end slidable in said bore and a lower end for pressing on material, a spring in said bore resisting movements of said plunger relative to the barrel in one direction, and a pointed part on the upper end of the plunger in the upper end of the bore normally below the upper end of the barrel adapted when the plunger is moved in an opposite direction relative to the barrel to protrude beyond the end thereof.

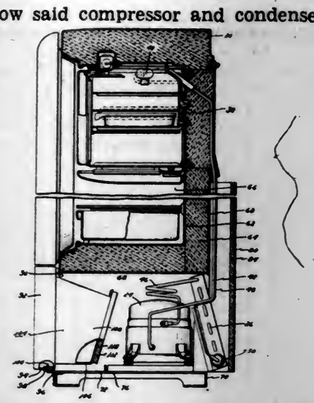
2,321,771
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Original application August 23, 1940, Serial No. 353,924. Divided and this application July 18, 1941, Serial No. 403,026
2 Claims. (Cl. 62—89)



1. Refrigerating apparatus comprising a cabinet having a machine compartment open at its rear and bottom, a refrigerant condenser positioned in the lower portion of said compartment, a compressor positioned above said condenser, a sound insulated panel at the rear of said compartment, and a sound insulated tilted panel at the front of said compartment.

2,321,772
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Original application August 8, 1940, Serial No. 351,834. Divided and this application November 12, 1942, Serial No. 465,297
2 Claims. (Cl. 62—116)

1. Refrigerating apparatus comprising a cabinet having a machine compartment, a flue at the rear of the cabinet and being arranged so that its lower end is open to the atmosphere, a refrigerant compressor positioned in said machine compartment, a refrigerant condenser having a portion positioned in said compartment and a portion in said flue, an insulated panel of sound absorbing material in said flue, and an insulated panel of sound absorbing material positioned in said compartment on an angle on the opposite side of said compressor from said flue and being arranged so that the upper portion thereof is tilted toward said flue and said cabinet being open below said compressor and condenser and



the panel on an angle to receive air to pass over the heat emitting part and into said flue.

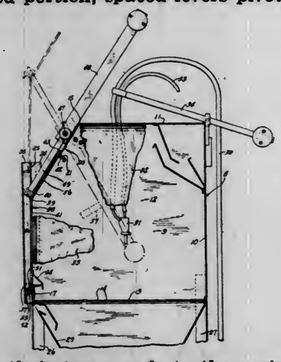
2,321,773
GOLFER'S PUTTER
Richard Ruemelin, Milwaukee, Wis.
Application November 13, 1941, Serial No. 418,923
10 Claims. (Cl. 273—81)



1. In a golfer's putter having a shaft with a head connected to the lower end thereof, a handle portion at the upper end of said shaft, a gripping member which is circular in cross-section extending transversely of the handle portion, there being a flattened area below said gripping member and extending transversely of the gripping member and transversely of the club head, said flattened area being insertable between two fingers of one hand of the player with the gripping member seated in the curve of said fingers to rock therein and the flattened area being sufficiently thin to swing between said fingers without wedging while the gripping member is rocking, said handle also having a correspondingly extending flattened area spaced below said first flattened area and insertable between the fingers of the other hand of the player, and a gripping member which is circular in cross-section to fit in the curve of the fingers of said other hand immediately above said second flattened area and spaced below said first flattened area.

2,321,774
SANDBLAST CABINET
Richard Ruemelin, Milwaukee, Wis.
Application January 28, 1943, Serial No. 473,799
15 Claims. (Cl. 51—8)

1. In a sand blast cabinet, a casing for receiving an article to be cleaned and having a front opening, a door for closing said opening, means for guiding the lower portion of the door during opening and closing movement to cause said portion to move approximately straight upwardly and downwardly close to the front of the casing, the door being pivotal on the horizontal axis of said guided portion, spaced levers pivotally con-

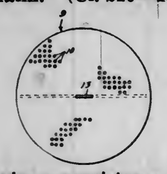


nected at their inner ends to the casing and at their outer ends to upper side portions of the door so that the upper portion of the door may swing between said levers when the door is operated, said levers being so positioned as to cause the upper portion of the door to move in an arc forwardly and upwardly and then rearwardly while the lower portion of the door is being moved straight upwardly in an approximately vertical direction.

2,321,775
DRY CARROTING FUR
Jack D. Sartakoff, Douglaston, Long Island, N. Y., assignor to No-Mercury Felt Corporation, a corporation of New York
No Drawing. Application June 2, 1942, Serial No. 445,454
8 Claims. (Cl. 8—112)

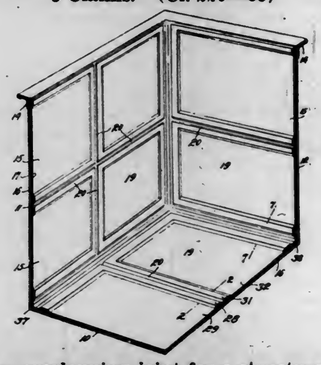
7. The process of carroting fur on the pelt which comprises: tumbling the pelts with a relatively large bulk of pieces of substantially acid proof attrition material substantially free from abrasive properties and dust and carrying a substantially imperceptible coating of adsorbed highly active concentrated carroting solution, and thereafter separating the attrition material from the pelts.

2,321,776
FILTER FOR MILK AND THE LIKE
Henry Schriever, Douglas, Minn.
Application May 16, 1942, Serial No. 443,251
1 Claim. (Cl. 210—158)



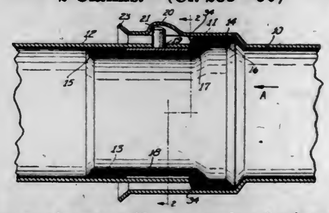
A filtering device comprising a receptacle having a cylindrical lower end provided with a perforated bottom, a filtering disk in said end resting on said bottom, a shallow open bottomed cylindrical member in said end resting on said disk and having an upper perforated screening end spaced above the disk, a second filtering disk resting on the perforated end of the member, and a second screen of dished form inverted on said second disk and having the major portion thereof perforated for screening and raised above the second disk, said filtering disks and said members being of the same diameter as the internal diameter of the lower end of the receptacle to fit snugly therein.

2,321,777
HARD RUBBER LINING FOR RECEPTACLES
Herman J. Schelhammer, Whitestone, and Walter Hiemann, New York, N. Y., assignors to American Hard Rubber Company, New York, N. Y., a corporation of New York
Application July 9, 1940, Serial No. 344,540
5 Claims. (Cl. 220—63)



1. An overlapping joint for a structure including a supporting wall and a layer of soft rubber adhering to the wall, comprising two hard rubber panels superposed for at least a part of their width on the layer of soft rubber and having adjacent margins the inner edges of which are spaced apart, an auxiliary strip of hard rubber overlapping said margins and spaced apart therefrom, a lap of soft rubber integral at one end with the layer of soft rubber and free at the other end interposed between the margin of one of said hard rubber panels and one end of said auxiliary strip, a second lap of soft rubber integral at one end with the soft rubber layer and free at the other end interposed between the margin of the second hard rubber panel and the other end of the auxiliary strip, and a relatively thin strip of hard rubber covering the free end of each soft rubber lap.

2,321,778
PIPE COUPLING MEANS
William H. Stout, Eugene, Oreg.
Application November 12, 1941, Serial No. 418,709
2 Claims. (Cl. 285—90)



1. In a pipe coupling, a pair of pipe sections of the same internal diameter throughout their major portions, said pipe sections disposed in adjacent end to end and alined relation, a bell formed in the end of one pipe section, the other pipe section inserted part way in said bell and constituting a spigot member, the interior diameter of said bell being considerably greater than

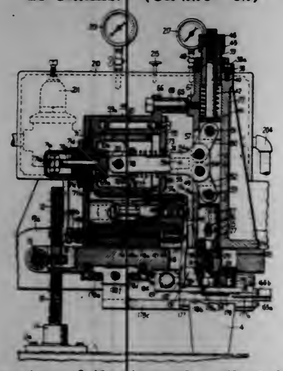
the exterior diameter of said spigot member, an internal tubular and expansible gasket extending from said bell into said spigot, said gasket having a smaller internal and external diameter portion adapted to be inserted in said spigot and a larger internal and external diameter portion adapted to fit in said bell beyond the end of said spigot, the internal diameter of said larger portion of said gasket being not less than the external diameter of said smaller portion, a shoulder on the outer surface of said gasket between said smaller and larger diameter portions, said shoulder engaging the end of said spigot to prevent said gasket from sliding too far into said spigot, and means for holding said pipe sections against separate longitudinal movement with respect to each other.

2,321,779

APPARATUS FOR SEALING CONTAINERS

Harry E. Stover, Leonia, N. J., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware

Application August 2, 1940, Serial No. 349,655
13 Claims. (Cl. 226—82)



1. Apparatus of the type described for sealing containers comprising means for applying a cap loosely on a container, a sealing member adapted to be moved to seal the cap on the container, means for moving said sealing member, said means comprising a fluid-operated cylinder and piston unit including a piston rod extending through both ends of the cylinder, and a mechanical connection between one end of said rod and said sealing member, said mechanical connection including a toggle joint which serves to transmit the pressure developed by said unit to said sealing member, and means associated with said cylinder and piston unit to limit movement of the piston so as to prevent movement of the toggle joint past center, said means comprising a stop member carried by the opposite end of said rod and adapted to contact with the end of said cylinder.

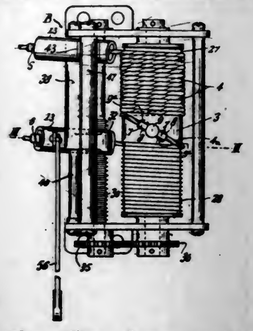
2,321,780

REMOTE CONTROL OF PARTS ACTUATED THROUGH FLEXIBLE POWER TRANSMISSION MECHANISMS

Rene Tondeur, Lechdale, England, assignor to Bowden (Engineers) Limited, Willesden Junction, London, England, a British company

Application September 10, 1940, Serial No. 356,162
In Great Britain July 10, 1940
12 Claims. (Cl. 74—501)

1. A distant control device comprising a pair of winding drums and Bowden mechanisms, abutments near said drums for the outer members of said Bowden mechanisms, the inner cables of said mechanisms being operatively mounted on the drums so that one is adapted to make and the other to unmake several convolutions along each drum in whichever direction one drum is rotated, so as thereby to transmit considerable rotary



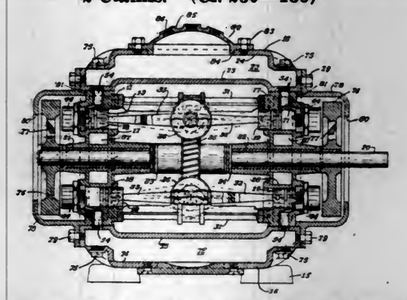
motion to the other drum, means operative through the rotation of said drums for relatively displacing said drums and said abutments in the direction of the axis of the respective drum while the several convolutions of the cable are coiling or uncoiling along the drums so as to keep the abutments substantially aligned with the portions of the cables between the abutments and the drums.

2,321,781

COMPRESSOR

Warren C. Tyler, Huntington Park, Calif.

Application August 8, 1938, Serial No. 223,613
2 Claims. (Cl. 230—186)



1. In a machine for compressing a gas, the combination of: a housing including an inner member enclosing an inner space and including an outer member defining between said outer and inner members an outer space for the storage of gas; a plurality of gas compressing mechanisms enclosed within said inner space; and gas conducting means extending from said mechanisms into said outer space for conducting thereto gas compressed by said mechanisms.

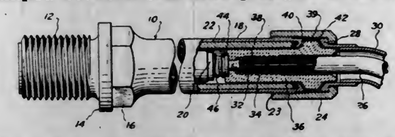
2,321,782

SPARK PLUG WIRE TERMINAL

Ernest K. von Mertens, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application January 29, 1941, Serial No. 376,490
4 Claims. (Cl. 173—269)

1. In an electrical connection between a spark plug and an ignition cable having an insulated electrical conductor, a sheath surrounding said conductor, an insulating sleeve receiving said insulated conductor through one end thereof, a metal plug sealing the other end of said sleeve, means including an electrode for said spark plug, said means being in abutting relationship with said plug for electrically connecting said plug and electrode, a casing connected to said spark plug, an annular flange integral with said sleeve clamped between said casing and said sheath to



form a gas tight closure for said casing and maintaining said electrical connection between said metal plug and said spark plug electrode, and means for retaining said insulated conductor in said insulating sleeve with the conductor in compressive electrical contact with said metal plug, whereby said electrical connection between said conductor and said metal plug is maintained free of mechanical separating forces and from the effects of exposure to the atmosphere or gases leaking through said spark plug.

2,321,783

MANUFACTURE OF CAST PHENOLIC RESINS

Charles S. Webber and Stewart B. Luce, Springfield, and Frederick M. Murdock, Chicopee Falls, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 31, 1939, Serial No. 265,344
18 Claims. (Cl. 260—34)

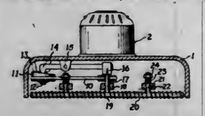
2. In the method of making phenolic resins suitable for casting, the steps which comprise reacting substantially one molecular proportion of phenol with a large excess over one molecular proportion of formaldehyde under alkaline conditions, acidifying the liquid reaction mixture, and then adding an ester of phthalyl glycollic acid made from a monohydric alcohol with not more than three carbon atoms, and increasing the toughness and workability of the cured resin while maintaining hardness and high water resistance by combining with the liquid reaction mixture a phenolic body selected from the group consisting of phenol and phenol reacted with formaldehyde to form a resin of the Novolak type.

2,321,784

BEATER MECHANISM

John Winkler, Cleveland, Ohio

Application July 5, 1941, Serial No. 401,059
2 Claims. (Cl. 15—6)



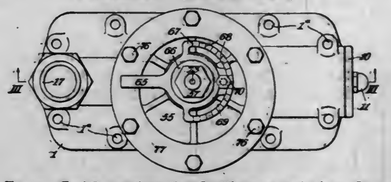
2. Beater mechanism comprising the combination of a casing open in its lower side, power means carried by said casing, a structure movably carried superadjacent to the opening in said casing and adapted for movement toward and away from the plane of said opening, means including guides and reacting springs associated with said structure, said structure being operatively connected with said power means and a coil spring spacedly enveloping a part of said structure and adapted for independent bodily movement relatively thereto whereby reactingly to tap a surface to be cleaned while under said opening.

2,321,785

FLUID METER

Joseph C. Woodford, Spring Lake, Mich., and Anthony G. Muskus, Conshohocken, Pa., assignors to John Wood Manufacturing Company, Inc., Philadelphia, Pa., a corporation of Delaware

Application June 23, 1941, Serial No. 399,276
4 Claims. (Cl. 73—261)



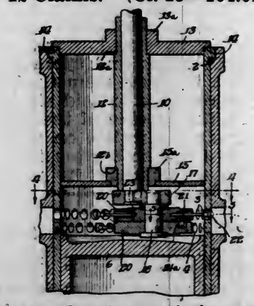
1. In a fluid meter including a stator having a cylindrical chamber and a rotor mounted on an axis eccentric to the axis of the stator chamber and carrying a plurality of blades adapted for reciprocatory movement therein; the combination with arcuate surfaces at the outer ends of said blades; of arcuate surfaces at the inner ends of said blades; and rotatable means mounted on the axis of the stator chamber for continuous engagement with said arcuate surfaces at the inner ends of said blades; whereby the arcuate outer ends of said blades are caused positively to describe a circle concentric with the axis of the stator chamber and following the periphery thereof, thereby maintaining practically a liquid seal between the outer tips of the rotor blades and the periphery of the stator chamber wall; wherein the rotor is provided with a circumferential series of sectors of greater axial dimension than said rotor, said sectors having freedom of axial movement with respect to said rotor.

2,321,786

DEVICE FOR CLEANING SIDE WALL PORTS IN CYLINDERS

Edward Wotton, Chicago, Ill.

Application March 7, 1942, Serial No. 433,838
12 Claims. (Cl. 15—104.01)



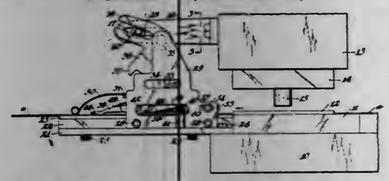
5. A tool for cleaning ports in a cylinder wall, said tool including a shaft, a journal sleeve for said shaft with a centering plate on said sleeve dimensioned to fit the cylinder and a second plate on the sleeve dimensioned to rest against one end of said cylinder and formed to engage the

cylindrical wall in position to center the sleeve in the cylinder, and a tool head provided with radially projecting punches and eccentrically mounted for rotation on said shaft with one or more of said punches entered in registering ports of the cylinder.

2,321,787
SULPHUR DYESTUFFS
Werner Zerweck, Frankfort-on-the-Main-Fechenheim, and Wilhelm Hechtenberg, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 22, 1941, Serial No. 403,574. In Germany July 22, 1940
6 Claims. (Cl. 260—128)

1. Sulphur dyestuffs obtained by acting with a sulphurizing agent on an anthracene derivative, in the molecule of which the anthracene nucleus is condensed with at least one and at most two nitrogen containing rings, which rings on the other side are connected with arylradicles containing at least one and at most two benzene nuclei, which dyestuffs dye the vegetable fibers brownish to olive and grayish shades of valuable fastness properties.

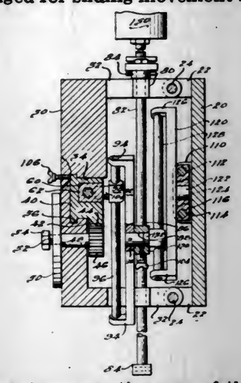
2,321,788
AUTOMATIC FEED MECHANISM FOR PUNCH PRESSES
William M. Anderson, Minneapolis, Minn., assignor to F. J. Kerner and himself, Minneapolis, Minn., a copartnership
Application June 26, 1941, Serial No. 399,790
3 Claims. (Cl. 164—88)



1. In a device of the kind described, the combination with a reciprocating punch, and cooperating die, and a feed table arranged to receive punched strips from between said punch and die, of a stop dog mounted on said feed table and operative on the punctures in said strip to positively limit the backward motion of said strip but permitting free forward movement thereof, a feed slide mounted to reciprocate over said feed table, longitudinally of the strip, a feed dog carried by said slide and operative on the punctures in said strip to positively feed the stock strip forward, means timed in respect to the movement of said punch and operative thereby, while said punch is raised from the die, to impart feeding movements to said slide and feed dog in excess of the spacing of the punctures of said stock strip and operative on return movement of said feed dog to move said stock strip backward as far as permitted by said stop dog.

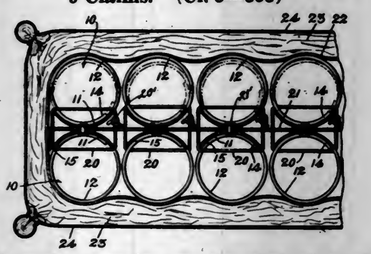
2,321,789
CAM DEVELOPING MECHANISM
George L. Atherholt, Sr., Ferndale, Enos P. Saunders, Berkley, and Lewis P. Graham, Lake Orion, Mich., assignors to Triangle Engineering Company, Ferndale, Mich., a partnership composed of George L. Atherholt, Sr., Enos P. Saunders, and C. M. Smillie, Jr.
Application February 17, 1943, Serial No. 476,138
13 Claims. (Cl. 51—232)

1. Cam forming mechanism comprising, in combination, a rotatable work support, a pair of members arranged for relative sliding movement with respect to each other in a straight line, means interconnecting one of said members to said work support for effecting rotation of the latter upon sliding movement of the former with respect to its associated part, a second pair of parts arranged for sliding movement in a straight



line, means interconnecting one of the last-mentioned parts with said work support for effecting bodily shiftable movement of said work support in a direction transverse to the axis of rotation thereof upon relative sliding movement of said one of the last-mentioned parts with respect to its associated part, and means for effecting relative sliding movement between said pair of parts.

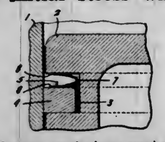
2,321,790
SPRING STRUCTURE
Edward L. Bass, Chicago, Ill.
Application August 17, 1942, Serial No. 455,015
9 Claims. (Cl. 5—353)



3. A spring member constructed of a single elongated strip, a plurality of fingers extending from one longitudinal edge of said strip and bent upon themselves to form loops with the free ends of said fingers extending inwardly of the longitudinal edge opposite to that from which the fingers extend, such free ends being held in contacting engagement with the body of the strip by the elasticity of the material, whereby upon the application of pressure in a direction parallel to the plane of said loops same will tend to wind up upon themselves and be placed under tension, and a support mounting said strip to which the same is fixedly secured.

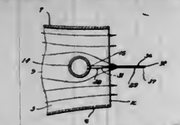
2,321,791
PISTON RING GAS SEAL
Melville W. Beardsley, Atlanta, Ga.
Application March 19, 1940, Serial No. 324,853
2 Claims. (Cl. 309—28)

1. In a piston assembly for internal combustion engines, a cylinder, a piston movable therein, a groove in the piston, a piston ring positioned in the groove, the inner face of said piston ring being cut away to provide angular faces, an annular resilient sealing member having outer peripheral edges between the ring and the groove at an induced initial stress whereby said pe-



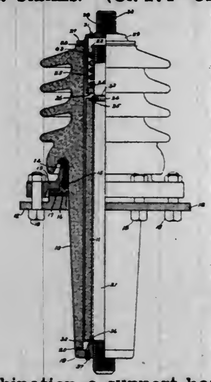
ripheral edges form uninterrupted annular sealing contact with the ring and the upper wall of the groove, and one peripheral edge of said annular sealing member bearing against one of the angular faces of the piston ring and the other peripheral edge bearing against the upper wall of the groove.

2,321,792
APPARATUS FOR ATOMIZING LIQUID
Adrian St. J. Bowie, San Jose, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application December 26, 1940, Serial No. 371,681
5 Claims. (Cl. 299—140)



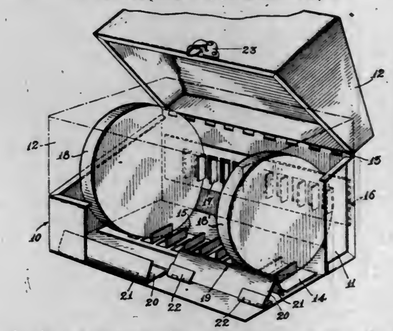
1. In a spray nozzle, liquid supply means, a plate adjacent the liquid supply means, said liquid supply means having a discharge outlet so disposed in the plane of said plate as to discharge liquid onto the rear edge of the plate, and means for directing a stream of air past said plate, the rear edge of said plate being so shaped that the air will spread the liquid over the side surfaces of the plate and atomize the liquid as it leaves the front edge of the plate.

2,321,793
BUSHING INSULATOR
Thomas F. Brandt, Barberton, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Original application December 30, 1939, Serial No. 311,783. Divided and this application March 7, 1942, Serial No. 433,770
2 Claims. (Cl. 174—31)



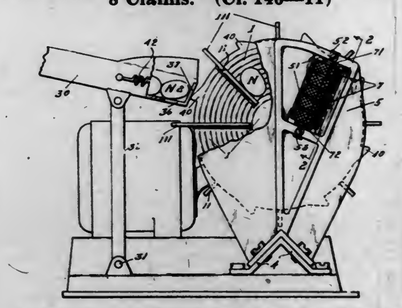
1. In combination a support having an opening therethrough, a tubular dielectric member extending through said opening, a flange secured to said dielectric member and having a beveled face adjacent the outer periphery of said tubular dielectric member, a packing ring surrounding said tubular dielectric member and engaging said beveled face, a pressure ring having a beveled face engaging said packing ring, said pressure ring being movable relative to said flange to compress said packing ring against the outer face of said tubular dielectric member, a gasket interposed between said pressure ring and support and threaded means for clamping said flange to said support and for compressing said packing ring and gasket.

2,321,794
PHOTOGRAPHIC FILM CONTAINER
August J. Braun, Chicago, Ill., assignor to The Mostow Co., Chicago, Ill., a corporation of Illinois
Application May 21, 1942, Serial No. 443,863
5 Claims. (Cl. 312—20)



1. A container for carrying cans of photographic film comprising a base and a cover therefor, means associated with said container for holding said cans of film in an upstanding position against lateral movement when disposed within said container, and adjustable means provided within said container adapted for swinging movement into either of two positions, whereby when in one of said positions said last mentioned means will permit the support of a can of one diameter against transverse movement and when in the other position will support a can of smaller diameter against vibration or movement while in the container.

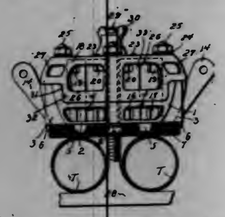
2,321,795
NUT CRACKING MACHINE
Herbert S. Buckman, Seattle, Wash.
Application November 14, 1941, Serial No. 419,156
8 Claims. (Cl. 146—11)



1. A nut cracking machine comprising a rev-

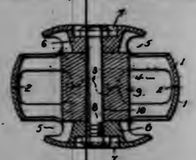
oluble conical disc, a stationary face-plate provided with a roller opening spaced from and confronting the disc, radial blades made rigid with the face of the disc and arranged to subdivide the space between the disc and face-plate into sector-like compartments, a freely revoluble cracking roller mounted to project a portion of its surface through the face-plate into the space between the disc and face-plate and means for feeding nuts into the compartments to be subsequently cracked between the cracking roller and the disc.

2,321,796
WATER CORRECTION DEVICE
Edgar M. Butler, New Orleans, La.
Application June 10, 1940, Serial No. 339,789
9 Claims. (Cl. 204—248)



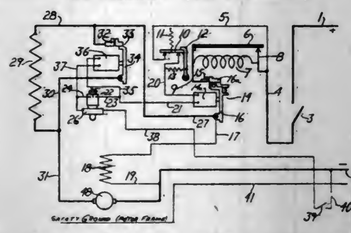
1. In a self-energizing electrolytic water correction device, a case of electro-positive metal formed of an upper cup-like member and a lower cup-like member, said members having annular rims, provided with enlarged openings for circulation of electrolyte, said upper and lower case members each having inwardly projected sets of lugs, those of the lower member cooperating with those of the upper member, a plurality of electro-negative blocks held between said upper and said lower case members with their ends embraced by said lugs and their end faces in contact with said upper and lower case members and held in spaced relation by said lugs, and means to secure the case members together and apply a compression force endwise against said negative blocks.

2,321,797
ELECTROLYTIC WATER CORRECTION DEVICE
Edgar M. Butler, New Orleans, La.
Application June 13, 1940, Serial No. 340,389
6 Claims. (Cl. 204—248)



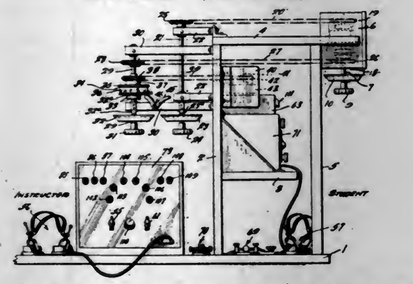
1. In a self-energizing electrolytic water conditioning and scale preventing device, a case of globular shape comprising two halves of cup-like form with their rim edges in contact, said rim edges having interengaging portions, an axially disposed tie bolt with nut passing through said case in a direction normal to the plane of contact of the halves for securing said halves together, said case having equatorially disposed elongated openings formed in part in one half and in part in the other half of the case, and having other annular openings adjacent the polar areas of the case, each case half having an inwardly projecting apertured hose through which said bolt passes, and a negative element secured between the ends of said bosses by means of said tie bolt.

2,321,798
MOTOR STARTER
Homer P. Chandler, deceased, late of Mansfield, Ohio, by Lillian C. Chandler, administratrix, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio
Application October 25, 1941, Serial No. 416,564
11 Claims. (Cl. 172—288)



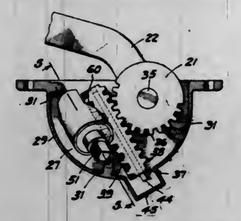
11. The combination with a motor armature; a starting resistance and a circuit breaker in series with said armature; said circuit breaker including an operating coil; a contactor to shunt said resistance after lapse of a predetermined time; a timing device including a switch and a coil; a shunt circuit for said series circuit which includes said timing device elements and said circuit breaker coil; a coil for said contactor; means to close said contactor to thereby shunt out said resistance which includes disconnecting said timing switch from said shunt circuit and including said contactor coil in said shunt circuit; and said timing device switch opening after a predetermined time to energize said contactor coil.

2,321,799
APPARATUS FOR INSTRUCTION IN RADIO DIRECTION FINDING
Howard M. Cone, Jr., Douglaston, N. Y., and Raymond R. Bourret, Coral Gables, and Louis E. Michelfelder, Miami, Fla.; said Bourret and said Michelfelder assignors to said Cone
Application August 26, 1941, Serial No. 408,384
12 Claims. (Cl. 35—12)



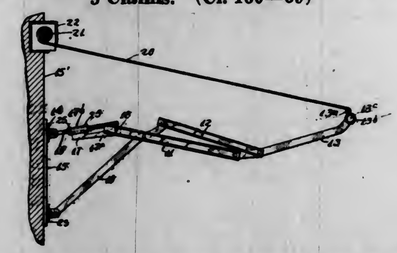
1. Apparatus for instructing and training personnel in the operation of radio direction finder apparatus including an instructor's compartment and a student's compartment, apparatus in the instructor's compartment interconnected with apparatus in the student's compartment for setting up various radio direction finder problems in the student's compartment initiated from the instructor's compartment, means in said instructor's compartment for indicating various procedural steps normally performed in direction finding, and means in said student's compartment for effecting the operation of the indicating apparatus in the instructor's compartment for indicating the procedural steps taken by the student in the student's compartment.

2,321,800
OPERATING MEANS FOR SWINGING CLOSURES
Hancil Cordrey and Walter J. Duvall, Chula Vista, Calif., assignors to Joseph Slutsky, Los Angeles, Calif.
Application May 7, 1941, Serial No. 392,294
7 Claims. (Cl. 268—119)



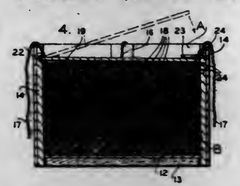
1. The combination, with a window frame having an apertured sill and a sash swingably mounted on said frame; of a casing, a sash operating arm swingably pivoted to said casing, said arm having an arcuate, gear toothed inner end portion which is pivotally attached to said casing, a reciprocatory rack having teeth along its opposite sides and provided with guide means in said casing, said casing being attached to said sill and having an aperture in its attached side which alines with the aperture in said sill, a barrel shaped member formed in said casing, said member having a cut-away side portion directed toward said rack, and a worm journalled in said barrel, the threads of said worm meshing with the teeth along one side of said rack, the teeth of the opposite side of said rack meshing with the aforesaid gear teeth, an end portion of said rack being caused to project through said aperture while the sash is being swung toward the open position.

2,321,801
AWNING ARM SLANT ADJUSTMENT MEANS
Henry Dazzo, Brooklyn, N. Y.
Application April 28, 1941, Serial No. 390,733
5 Claims. (Cl. 160—69)



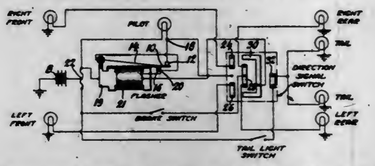
1. In combination with an awning arm having a plurality of pivotally connected members forming a lazy tong awning arm, a bracket for attachment on a wall or other stationary object, a rod pivotally mounted on said bracket, a control member slidably mounted on said rod, means for holding said control member within various limits on said rod, and means for permanently pivotally connecting the outer end of said control member with one of the inner members of said lazy tong awning arm.

2,321,802
HOME PAPER PRESSER
Walter H. Deubener, St. Paul, Minn.
Application February 2, 1942, Serial No. 429,163
2 Claims. (Cl. 106—19)



1. A paper hamper comprising a foldable body portion having side walls and end walls, an upright reinforcing rib for each of said walls, a pair of shoulder rails secured to the side walls of said body portion at the bottom thereof, a removable bottom adapted to be supported by said shoulder rails when said body portion is in open position, a notch in the top end of each of said upright reinforcing ribs for supporting the ends of tie cords, a horizontally extending slot near the top end of one of the reinforcing ribs secured to one of the end walls, a series of apertures arranged one above the other in the opposite reinforceing rib secured to the opposite end wall, a pin adapted to be inserted in any of said apertures in said reinforcing rib, a removable top pressure member adapted to have one of its ends engage said horizontally extending slot and to be engaged by said pin at the other end thereof, said pressure member being adapted to lie on the top of a pile of papers which are collected in said hamper and to exert a downward pressure on said papers by means of said pin.

2,321,803
DIRECTION SIGNAL CIRCUIT
Robert N. Falge, George W. Onksen, Jr., and Howard I. Stone, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 2, 1940, Serial No. 349,830
2 Claims. (Cl. 177—337)



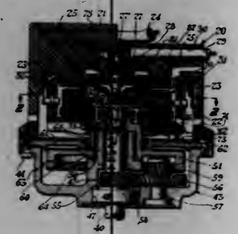
1. An electrical signalling system for vehicles, comprising: a right rear lamp, a left rear lamp, a right front lamp, a left front lamp, and a pilot lamp; a common source of electrical energy applicable to all and capable of energizing any of said lamps, a two-branched conductive circuit for feeding either the right front or the left front lamp from said source, a second two-branched conductive circuit for feeding either the right rear or the left rear lamp from said source, an electrically-operated automatic flasher switch having its intermittent-contact actuating-mechanism series-connected into the trunk of one of said conductive circuits for energization by current flow therein and for periodically interrupt-

ing the continuity of said current flow to the selected lamp thereof and to itself, a circuit interrupter in series with the trunk of the other conductive circuit, said circuit interrupter being actuated by the contact-actuating mechanism of said flasher switch to periodically interrupt current flow in said other conductive circuit at the same frequency but in opposite phase to the interruption of current in the flasher-energizing circuit, a third two-branched conductive circuit having both branches jointly controlled by a brake-operated switch for steadily feeding each of said rear lamps from said source to indicate vehicle-brake operation, a master switch having selectively-associable contacts located in each branch of said first and second conductive circuits and conjointly positionable to enable only the alternate intermittent energization of both right lamps, or of both left lamps, or of neither, and having contacts in each branch of said third conductive circuit shiftable conjointly with the recited selective positioning of said first-circuit and second-circuit master switch contacts respectively to open the third-circuit branch feeding the left rear lamp, to open the branch circuit feeding the right rear lamp or to open neither of said third-circuit branches, and circuit means for feeding interrupted current of flasher frequency to said pilot lamp when but only when the right pair of lamps or the left pair of lamps are individually intermittently energized in opposite phase.

2,321,804
COMPOUNDED MINERAL OIL
Bruce B. Farrington, James O. Clayton, and John T. Rutherford, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Original application November 21, 1938, Serial No. 241,648. Divided and this application January 13, 1941, Serial No. 374,241
3 Claims. (Cl. 252—35)

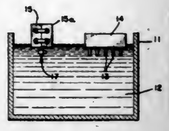
3. A liquid lubricating composition comprising a hydrocarbon oil subject to deterioration at elevated temperatures, and a small amount sufficient to inhibit said deterioration of a tin salt of an acid of phosphorus having an organic substituent.

2,321,805
ELECTRIC CURRENT DISTRIBUTOR
George H. Fritzinger, Bloomfield, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application February 11, 1942, Serial No. 430,396
21 Claims. (Cl. 200—24)



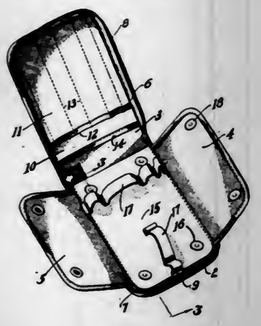
1. An electric current distributor comprising a series of leading-out electrodes; a distributing member moved relatively to said electrodes; and a unitary selector device moved in predetermined relation to said distributing member and including conductive means registering with successive predeterminately selected ones of said series of electrodes and simultaneously with said distributing member at successive progressive positions along the path of the latter.

2,321,806
PROCESS OF HEAT TREATING
Elmer G. Gilbertson, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application August 29, 1941, Serial No. 408,753
8 Claims. (Cl. 148—15)



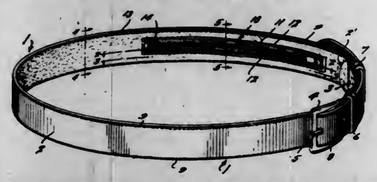
1. A method of heat treating or tempering iron piece parts which consists in the steps of forming recesses in a block of protecting material conforming in shape to the shape of such portions of said parts which are to be excluded from heat treatment, inserting said parts into said recesses, placing the parts and block on the surface of a molten bath of sodium cyanide salts, removing said parts and block from the surface of said bath after a predetermined period of exposure, and quenching said parts so as to effect a hardening of the exposed portion of said parts to the exclusion of the protected portions thereof.

2,321,807
KIT
Norman N. Glickman, Los Angeles, Calif.
Application July 1, 1941, Serial No. 400,685
1 Claim. (Cl. 132—79)



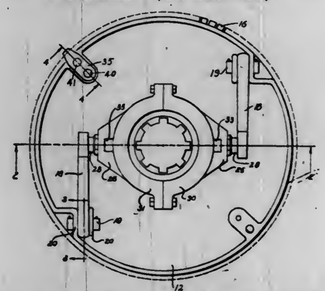
A kit of the character disclosed including a single piece of flexible material adapted to be folded transversely on a medial line to form a back and cover, marginal edge flaps for the back and cover adapted to be connected by slide fasteners to form a closed receptacle, a plurality of pockets formed on the inner face of the cover, an article holding base of approximately the same size as the back detachably secured to the inner face of the same and having article retaining straps on its inner face, side flaps on the back adapted to overlie the article holding base, detachable securing means on said flaps to confine the articles in place, and said article holding base being formed of relatively stiff material to prevent distortion of the flexible back and cover when the kit is closed.

2,321,808
BELT FOR PERSONAL WEAR
William Govan, Chenango Bridge, N. Y., assignor to The Drybak Corporation, Binghamton, N. Y., a corporation of New York
Application January 23, 1941, Serial No. 375,694
5 Claims. (Cl. 69—21)



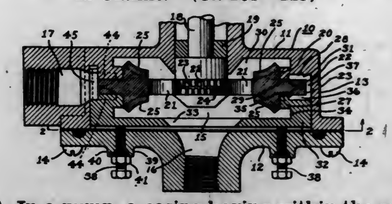
1. A method of constructing a belt for personal wear having a pocket comprising making a transverse slit through a portion of the length of a strap of leather to form two adjacent plies, cutting through one of said plies to form a substantially rectangular slot having a length substantially less than the length of said slit and a width substantially greater than the width of the thicker portion of a separable fastening member provided to form a closure for the slot, securing the closure member to the ply adjacent the edges of the slot so that the thicker portion of the fastening member lies within the space defined by the slot and substantially removed from the edges of the slot and joining the adjacent edges of the plies to form a pocket.

2,321,809
CLUTCH
Edward Grace, Detroit, Mich.
Application September 16, 1940, Serial No. 357,020
7 Claims. (Cl. 192—68)



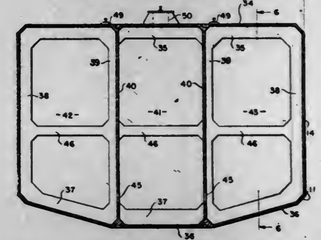
1. A clutch of the class described comprising a hub adapted for mounting on a shaft for rotation in unison therewith; a radially extending disc carried by said hub; a driven friction member arranged concentric of said hub and engageable with said disc; a presser member arranged concentric of said hub and movable axially thereof for clamping said friction member in fixed relation with said disc; a supporting disc mounted on said hub in fixed relation thereto and adjustable axially thereof; a pair of oppositely directed rocker arms rockably mounted at one of their ends on said supporting disc diametrically opposite each other; a cam portion on each of said rocker arms adapted, upon rocking in one direction, for engaging against said presser member and pressing the same into clamping relation with said friction member; a shaft projected through said hub; a sleeve slidably mounted on said shaft and rotatable relatively thereto; means for connecting the opposite ends of said arms to said sleeve, said arms extending chordally of said supporting disc and said connecting means extending radially outwardly from said sleeve and means for sliding said sleeve axially of said shaft while permitting rotation of the same thereon.

2,321,810
ROTARY PUMP
John W. Gurley, Indianapolis, Ind.
Application September 8, 1941, Serial No. 409,923
12 Claims. (Cl. 103—113)



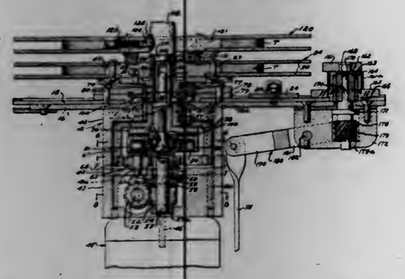
9. In a pump, a casing having within the same a work chamber comprising an inlet portion and a circumferential channel communicating with said inlet portion, an impeller mounted for rotation in said chamber and having adjacent the periphery thereof a circumferential series of pockets extending into said channel, an inlet leading to said inlet portion of said chamber, an outlet communicating with said channel, means for closing said channel about said impeller pockets at a point adjacent said outlet, a part of said casing having an opening leading from the inner portion of said outlet to said impeller pockets beyond said point of closure, and a discharge passage leading from said channel in advance of said point of closure to said outlet and arranged to discharge liquid across said opening and outwardly through said outlet.

2,321,811
CONCRETE OIL BARGE
Frederic R. Harris, New York, N. Y.
Application November 14, 1941, Serial No. 419,098
3 Claims. (Cl. 114—65)



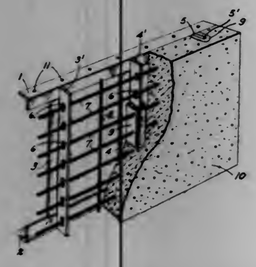
2. A concrete hull having bottom, sides, and deck, a longitudinal bulkhead on each side of the center of the hull extending from deck to bottom and from bow to stern, said bulkheads dividing the width into three substantially equal parts, transverse bulkheads in the hull extending from side to side, substantially vertical webs on the longitudinal bulkheads between the transverse bulkheads, webs forming ribs and deck beams united to the webs on the longitudinal bulkheads, and bracing beams extending from side to side between bottom and deck rigid at both ends with said ribs, and the webs on the longitudinal bulkheads, said beams and all of said webs forming panel cross-frames at the location of the ribs for each longitudinal bulkhead, rigid therewith and with centers in the vertical web thereon.

2,321,812
TAPE DRIVING SYSTEM FOR MAGNETIC SOUND RECORDING MACHINES AND THE LIKE
Herman S. Heller, West Los Angeles, Donald E. Ross, Eagle Rock, and Forrest J. Lilly, Los Angeles, Calif.; said Ross and said Lilly assignors to said Heller
Application November 19, 1940, Serial No. 366,232
10 Claims. (Cl. 242—55)



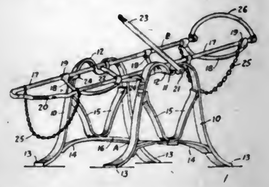
10. In a drive system for a sound record tape, the combination of two reels, a record tape extending between and wound on said reels, reversible drive means, positive non-slip drive gearing between said drive means and one of said reels, whereby said one reel is driven in either direction at a speed bearing a fixed constant relation to the speed of the drive means, a driving interconnection between said drive means and the other reel, including a one-way drive clutch so arranged as to cause said other reel to be driven only in a direction to draw tape from said one reel, said driving interconnection being arranged to have an over-driven tendency on said other reel, and a frictional slip clutch in said driving interconnection adapted to slip sufficiently that said other reel is permitted to travel at the speed determined by the rate of arrival of the tape from said one reel.

2,321,813
REFRACTORY PANEL CONSTRUCTION
John H. Henzel, Garfield Heights, Ohio
Application July 1, 1942, Serial No. 449,225
7 Claims. (Cl. 72—101)



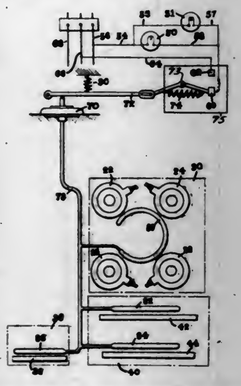
1. In a wall panel having a metal frame structure, a plurality of ribs each having spaced holes therein, reinforcing rods extending through and having a loose fit in said holes, coverings of yieldable material over said ribs, and a monolithic body surrounding said reinforcing rods and yieldable material.

2,321,814
BARREL RACK
Reuben James Hick, Bridgeview, Alberta, Canada
Application July 9, 1942, Serial No. 450,342
1 Claim. (Cl. 248—142)



A barrel rack comprising a pair of spaced parallel vertical standards having bearings at their upper ends, a supporting frame composed of spaced parallel tubular bars connected at one end by a cross bar bowed outwardly to form a handle, depending arcuate cross bars extending between said parallel bars at spaced intervals, one of said cross bars being disposed intermediate the length of said frame and having its ends extended to provide trunnions for mounting in the bearings of said standards to rockably mount the frame on the standards, rods telescopically mounted in the free ends of the tubular bars and adjustable longitudinally therein, a depending arcuate cross bar connecting said rods, an upwardly bowed cross bar extending between the free ends of said rods, chains attached to the parallel bars for engaging over the barrel supported on said frame, a lever attached to one of the trunnions of the intermediate cross bar for rocking said frame, and pivoted brackets mounted on said standards adapted to be moved beneath said frame to support the same in a horizontal plane.

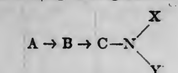
2,321,815
DOMESTIC APPLIANCE
Harry B. Hull, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application June 20, 1940, Serial No. 341,512
1 Claim. (Cl. 177—311)



A domestic range comprising a plurality of heating units remotely positioned in different parts of the range, an electrical indicating device, means for conducting electrical energy to the indicating device, a single switch means in said conducting means for controlling the energization of said indicating device, individual heat absorbing means extending into heat exchange relation with each of said heating units and single fluid means in heat exchange relation with said absorbing means for operating said single switch means.

2,321,816
PROCESS OF PRODUCING FAST DYEINGS ON FIBROUS MATERIALS
Richard Huss, Frankfort-on-the-Main, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 7, 1941, Serial No. 377,848. In Germany February 22, 1940
11 Claims. (Cl. 8—46)

1. A process of producing fast dyeings on fibrous material of the group consisting of animal fibers, natural and artificial cellulose fibers and mixtures of animal fibers with cellulose fibers by applying to the fiber secondary disazo-dyestuffs of the following composition:



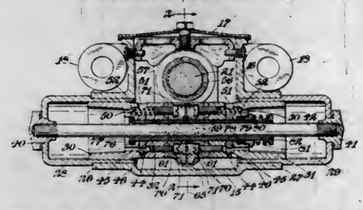
wherein A means the radical of a 1-amino-5-hydroxynaphthalene, B the radical of an amine selected from the group consisting of the benzene and naphthalene series being free from hydroxy groups and coupled in para-position to the amino-group, C means the radical of an amino-hydroxynaphthalene sulfonic acid coupled on the naphthol side, X represents a member of the group consisting of hydrogen and alkyl and Y a member of the group consisting of an acyl and aryl radical, the dyestuff components being selected in such a manner that the finished dyestuff contains at least two solubilizing groups, and developing the dyeings thus obtained with water-soluble diazo-compounds of the benzene series containing a nuclear nitro group, said diazo compounds being free from sulfonic acid and carboxylic acid groups.

2,321,817
SPRING FRAME ASSEMBLY
William E. Hutton, Dickson, Tenn.
Application November 16, 1942, Serial No. 465,740
11 Claims. (Cl. 5—247)



3. In a spring structure, a supporting frame including longitudinal and transverse members, springs extending upwardly from said longitudinal members and arranged in spaced rows extending alternately in opposite directions, spaced cross beams on said longitudinal members, each spring having a substantially triangular base at its lower end provided with a vertical side and an inclined side, said vertical side abutting a contiguous cross beam, said inclined side having a flexible arm extending upwardly therefrom and terminating in a bowed free end, the free end of each spring normally overlapping the spring in front of it and arranged to engage the same when depressed so as to limit the downward movement thereof, the resiliency of the depressed spring returning the same to its normal overlapped position when the pressure is released, and means securing the base of each spring to its adjacent longitudinal member.

2,321,818
SHOCK ABSORBER
Ernest William Johnson, Birmingham, England, assignor of one-half to Vandervell Products Limited, London, England, a British company
Application September 18, 1942, Serial No. 458,877
In Great Britain October 8, 1941
4 Claims. (Cl. 188—88)

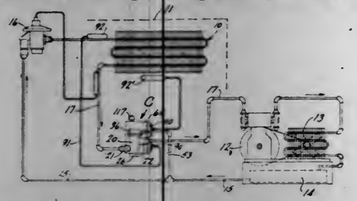


1. In a shock absorber in which fluid friction is employed for damping, the combination of a casing embodying two fluid containers, two piston heads, one reciprocable in each container, and each piston head having a perforation extending through it from end to end, a metering rod enclosed within said casing, which rod reaches into the perforations in such manner that the piston heads reciprocate along the metering rod, a single sleeve interposed between the metering rod and the perforations in the piston heads in such manner that the opposed surfaces of the sleeve and the metering rod provide between them a restricted passage connecting the said fluid containers, through which passage the fluid is forced by the said piston heads, means for mounting the piston heads separately on the sleeve so that the latter shall partake of the reciprocation of the piston heads, spring means for urging the piston heads towards each other along the sleeve, a rock shaft which transmits the shock and the damping effort, means for mounting said shaft in the casing, a barrel, means for mounting said barrel on the rock shaft inside the casing, two parallel plates together constituting with the barrel a rock arm, which plates are located one at each end of said barrel in such manner that they reach out to embrace the adjacent ends of the piston heads which are formed with flat lateral faces parallel to each other and to the direction of piston reciprocation, and bosses so located on the inner faces of said plates that the inner ends of the bosses lie opposite to the said flat lateral faces on the piston heads and prevent the latter from turning, which piston heads also have endwise-directed faces in such position as to lie opposite to the curved faces of the bosses on the rock arm and to maintain engagement with the bosses during the rotary movement of the arm and the corresponding reciprocatory movement of the piston heads.

2,321,819
MECHANICAL REFRIGERATING SYSTEM
Roy W. Johnson and Clarence L. Aughey, Milwaukee, Wis., assignors to Automatic Products Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 4, 1940, Serial No. 368,510
9 Claims. (Cl. 62—3)

1. In a refrigerator of the type wherein the refrigerating effect is obtained by virtue of the passage of a refrigerant through a cooling coil disposed in heat interchanging relation to the compartment of the refrigerator, a control valve combined with the cooling coil so as to permit flow therethrough when opened and block flow therethrough when closed, a reversible operating

mechanism for said valve, said operating mechanism biasing the valve to open position when acting in one direction and to closed position when acting in the reverse direction, a thermostat subjected to the temperature of the cooling coil and combined with said operating mechanism to cause the same to bias the valve to open position upon predetermined rise of pressure in the coil and to closed position upon predetermined fall of pressure in the coil, a latch coperable with the operating mechanism and ad-



justable from a latching to a releasing position, said latch functioning when in latching position and when the valve is in open position to hold the operating mechanism and the valve in valve open position, and a thermostat subjected to the temperature in the compartment and combined with the latching mechanism to move the same to latching position upon predetermined rise in temperature in the compartment and to provide for the movement of the latching mechanism to released position upon predetermined fall of temperature in the compartment.

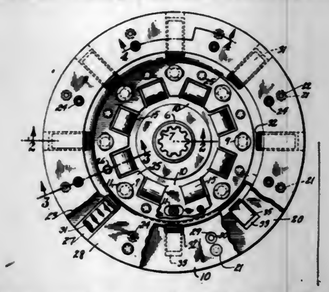
2,321,820
FISHING REEL
Charles Kachel, Williamsville, N. Y.
Application August 30, 1941, Serial No. 409,033
5 Claims. (Cl. 242—84.1)



1. A fishing reel, comprising a body, a spool journaled thereon having high and low speed driven elements applied thereto, the high speed element consisting of a pinion applied to the spool-axis and the low speed element consisting of an internal ring gear extending inwardly from the periphery of the spool, a shiftable member mounted on said body for movement in a plane between said driven elements, and driving elements mounted on said shiftable member for engagement with the companion driven elements.

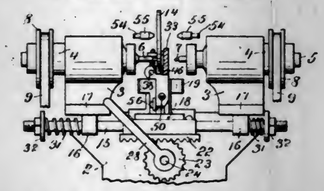
2,321,821
DRIVEN MEMBER FOR FRICTION CLUTCHES
Morris Katcher, New York, N. Y.
Application October 4, 1939, Serial No. 297,780
9 Claims. (Cl. 192—107)

1. A driven member for a friction clutch comprising a relatively thick metal disc, a plate of relatively thin metal mounted on said disc, being attached thereto at the inner portion of the plate, cushion members mounted between the peripheral portions of the disc and plate, a friction facing fastened to the disc at its peripheral portion on the side away from said plate, and a second friction facing fastened to the plate at its



peripheral portion on the side away from said disc, said cushion members bending the plate against the resilience of the latter away from the disc, the thickness of the disc being sufficient to maintain the disc against flexure, said bending occurring in the plate.

2,321,822
LENS DRILLING MECHANISM
Michael B. Kendis, Kansas City, Mo.
Application July 5, 1941, Serial No. 401,126
9 Claims. (Cl. 77—21)

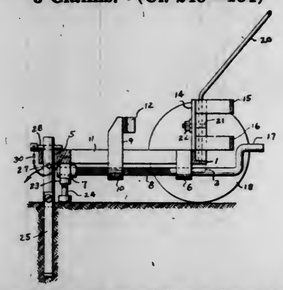


1. In a lens drilling mechanism, a support, two oppositely disposed longitudinally alined spaced apart drills, means on said support for supporting said drills, means oscillative on said support for supporting a lens between said drills, and for alternately bringing opposite sides of said lens into operative engagement with said drills, and means for automatically forcing said lens supporting means to a position in which the lens will be between and spaced from said drills.

2,321,823
OXIDATION OF PERCHLOROETHYLENE
Frederick William Kirkbride, Runcorn, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application August 26, 1940, Serial No. 354,308. In Great Britain September 14, 1939
8 Claims. (Cl. 204—163)

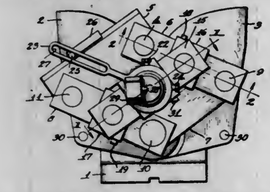
1. The method of oxidizing perchloroethylene in order to produce a reaction product consisting primarily of trichloroacetyl chloride and the perchloroethylene oxide isomer thereof which comprises subjecting liquid perchloroethylene to the action of a gaseous mixture comprising oxygen and chlorine, said chlorine constituent therein being present in amounts ranging from 1 to 20% by volume, the temperature being maintained above room temperature while the reaction mixture is simultaneously exposed to the action of ultra-violet irradiation.

2,321,824
CAN HOLDER
Clark Knight, Houston, Tex.
Application April 3, 1942, Serial No. 437,604
3 Claims. (Cl. 248—154)



3. A can holder comprising a frame embodying a transverse bar, spaced standards upstanding from the bar, retaining means anchored to the standards and shaped to partly surround a can on the frame, a clamp opposite said retaining means adapted to clamp the can between it and the retaining means, an adjusting shaft mounted on the frame and operatively connected with the clamp whereby the latter may be adjusted into clamping or released position, carriers on which the frame is mounted and means for anchoring the holder in fixed position.

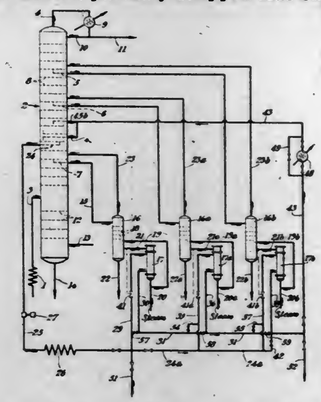
2,321,825
GEAR GRINDING WHEEL DRESSER AND GEAR FORM CHECKER
Stanley J. Kopec, Erie, Pa.
Application August 23, 1941, Serial No. 408,060
3 Claims. (Cl. 125—11)



1. In a combined gear grinding wheel dresser and gear tooth form checker, in combination, adjustable right and left hand master cam members, a follower for said cam members, links pivotally secured to said follower, forming a parallelogram, a cross-link pivotally secured to the central portions of two of said links forming sides of said parallelogram, a movable rotatably mounted chuck member disposed centrally of said cross-link adapted to hold a tool for dressing a grinding wheel or for checking the curvature of a gear tooth, and a guiding member for guiding said chuck member in a direction parallel with the two links of said parallelogram to which said cross-link is connected.

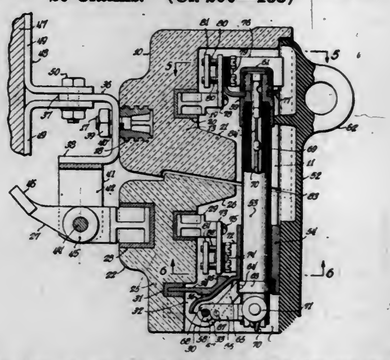
2,321,826
METHOD OF FRACTIONATING HYDROCARBON OILS
Wheaton W. Kraft, Scarsdale, N. Y., and Walter L. Bass, East Orange, N. J., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application May 13, 1941, Serial No. 393,186
9 Claims. (Cl. 196—85)

1. In the distillation of a hydrocarbon oil in a distillation zone from which a fraction of the oil is withdrawn as a side stream and is subjected to an independent boiling range correction treatment for the removal of retained undesirable low boiling components, which are partially removed by countercurrent contact of the side stream with steam in a stripping unit provided with a heating zone, the improvement which comprises withdrawing the side stream, partially stripped, from the lower portion of the stripping unit, mixing steam with said partially stripped side stream to



effect vaporization of the remaining low boiling components therefrom, passing the resulting mixture in a comparatively restricted stream through said heating zone, simultaneously supplying heat to the mixture in an amount sufficient to prevent a drop in the temperature thereof because of the vaporization of the low boiling components, which temperature drop would deleteriously affect the stripping operation, and returning said mixture to the stripping unit at a point below the point of withdrawal of the partially stripped side stream.

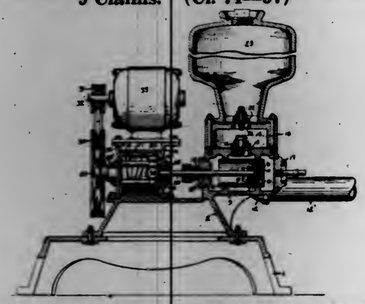
2,321,827
HOUSING FOR FUSE DEVICES
William D. Kyle, Lake Forest, Ill., assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware
Application April 25, 1941, Serial No. 390,298
20 Claims. (Cl. 200—133)



1. An insulating housing for a fuse device, said housing comprising separable sections, means for mounting said sections one above the other, said means including a pivot arm secured to the lower one of said sections, terminal members within each of said sections, and a fuse link electri-

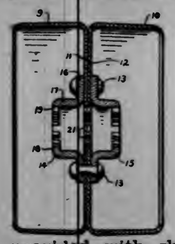
cally connecting said terminals and holding said lower section against pivotal movement away from the other of said sections.

2,321,828
COMPRESSOR
Fred A. Lane, Shelburn, Ind., assignor to Lane Motors Incorporated, Shelburn, Ind., a corporation of Indiana
Application November 24, 1941, Serial No. 420,245
9 Claims. (Cl. 74—57)



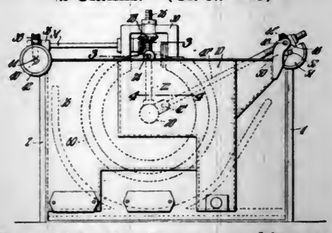
1. In an apparatus of the character described, in combination, a guide, a slide reciprocable in said guide, a rotor associated with said slide and having a continuous groove in its peripheral face extending three times around the rotor and including a pair of spiral reaches each extending approximately 360° of rotation of the rotor, and a pair of spiral reaches each extending substantially at right angles to said first-mentioned reaches and approximately 180° of the rotation of the rotor, each reach of each pair merging at its opposite ends in the reaches of the other pair, and a rotor connection between said rotor and said slide operating in said groove.

2,321,829
DRIVING HUB FOR PULLEYS OR GEARS
James M. Leake, Toledo, Ohio, assignor to Toledo Stamping and Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application April 24, 1939, Serial No. 269,683
2 Claims. (Cl. 74—230.8)



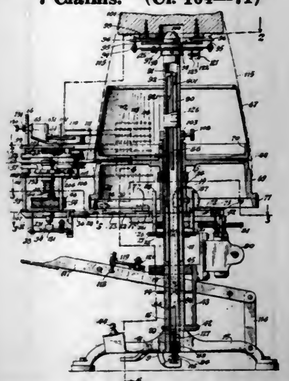
1. A pulley provided with sheet metal hub members fastened to either side of said pulley, said sheet metal hub member comprising an annular ring portion fastened to said pulley, an annular flange portion extending axially from said annular ring portion and a second annular ring portion extending radially inwardly at substantially right angles to said annular flange portion, said second annular ring portion being provided with notches or keyways adapted to engage with a splined shaft for transmitting power, and a web integral with said pulley, said web being provided with keyways adapted to engage with said splined shaft.

2,321,830
PAPERMAKING APPARATUS
William M. Leeson, Glens Falls, N. Y., assignor to The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y., a corporation of New York
Application January 23, 1940, Serial No. 315,267
2 Claims. (Cl. 92—43)



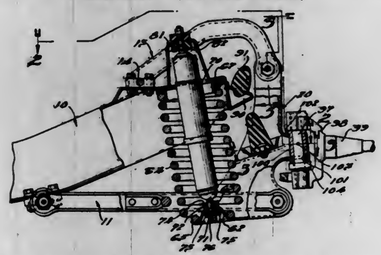
1. The combination in paper-making apparatus of, a vat having front, rear and side walls and a curving wall between the lower portions of the side walls, brackets on the upper sides of the side walls, members movable up and down on said brackets and means for moving the same, rods with upper ends pivotally connected to said members having lower free ends, journal means at the free ends of said rods, a cylinder journalled at opposite ends in said journal means, and means connected to said journal means for swinging said rods and cylinder back and forth relative to said curving wall.

2,321,831
GARMENT TRIMMING MACHINE
Henry Lehde, Brooklyn, N. Y., assignor to Samuel Shefsky and Louis Levy, Brooklyn, and Philip L. Rudick, New York, N. Y.
Original application March 2, 1940, Serial No. 321,894. Divided and this application December 2, 1941, Serial No. 421,297
7 Claims. (Cl. 164—71)



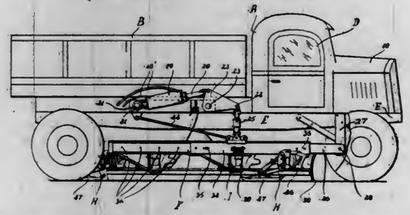
1. In combination with a garment supporting stanchion having a base, a tubular column fixed to said base, a vertically adjustable tubular member having the lower end thereof telescoping into said tubular column, and a garment form secured to the upper end of said tubular member, of a fixed tubular member secured within said tubular column and having the upper portion thereof extending into said vertically adjustable tubular member, a cylindrical wedge member having a mitered lower end fitting over the correspondingly mitered upper end of said fixed tubular member, an operating rod secured to said wedge member, a resilient member associated with said rod for urging said wedge member into frictional locking engagement with said vertically adjustable tubular member, and manually operated means for manipulating said rod to release said wedge member from locking engagement with said vertically adjustable tubular member.

2,321,832
INDIVIDUAL WHEEL SUSPENSION
John W. Leighton, Port Huron, Mich.
Application June 21, 1941, Serial No. 399,065
9 Claims. (Cl. 280—96.2)



1. In combination, a vehicle frame, upper and lower arms pivotally connected to the frame and extending laterally therefrom, a channel shape, sheet metal wheel carrying member extending vertically between the outer ends of the arms, means pivotally connecting the outer ends of the arms to the member, an extension on the lower part of the member forming a seat for a coil spring, and a coil spring disposed between a part of the frame and said extension.

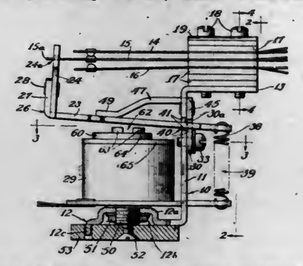
2,321,833
MOTOR VEHICLE UNDERBODY TRUCK GRADER
Le Grand H. Lull, Minneapolis, Minn.
Application July 19, 1940, Serial No. 346,382
6 Claims. (Cl. 37—155)



4. An under-body grader comprising a scraper blade and mold board, a pair of parallel spaced drawbars, a pair of tubular members slidably mounted on said drawbars, a pair of brackets on said tubular members, said scraper and mold board being pivotally mounted to said brackets, and cushion means connected to said tubular means for lowering and raising said drawbars.

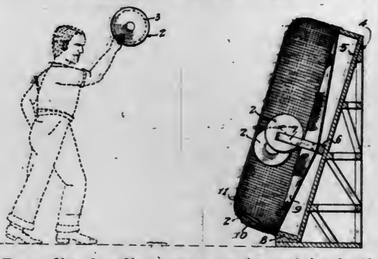
2,321,834
RELAY
Frederick J. Marco, Carl G. Anderson, and Folke A. Brandstrom, Chicago, Ill., assignors to Comar Electric Co., Chicago, Ill., a corporation of Illinois
Application September 28, 1940, Serial No. 358,790
1 Claim. (Cl. 175—336)

In a relay of the type having an upright frame member with an armature projecting horizontally therefrom and a switchstack supported on a part of said frame member in approximate parallelism with said armature, improvements comprising: a non-magnetic fulcrum piece removably attached to said frame member beneath said armature with said armature rocking entirely on the fulcrum piece and having interfitting engagement with the latter; a non-magnetic stop and keeper attached to said frame member separately from, and beneath, said



switchstack with keeper portions closely overlying said armature and in alignment with said fulcrum piece, whereby the armature is kept from dislodgement, said stop and keeper including a stop portion projecting over said armature to limit upward motion thereof in rocking movement, said fulcrum piece being removable as aforesaid to provide for removal of the armature without disturbance of the switchstack in its mounted condition on the frame member, as aforesaid.

2,321,835
GAME
Henry F. Marlow, Los Angeles, Calif.
Application October 1, 1940, Serial No. 359,215
6 Claims. (Cl. 273—102)

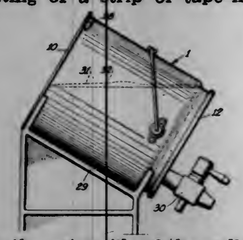


1. In a disc hurling game, a target including a backboard, a central support projecting from said backboard, a rim on said backboard, a plurality of grip members adapted for catching a disc carried by said supporting member, and a diaphragm connected to said supporting member and extending to said rim.

2,321,836
DISPENSING CASK FOR PRESERVING LIQUIDS
Fernando C. Marzo, Los Angeles, Calif., assignor of one-third to Alfred G. Rivard, Los Angeles, Calif.
Application August 12, 1940, Serial No. 352,248
5 Claims. (Cl. 225—11)

1. A cask for an air-sensitive liquid consisting of a body with a cylindrical side wall, and a bottom head having a collapsible bag-form, substantially air-tight liner having a flexible integral inner end to lie against the bottom head, an up-

per head secured to the edge of the body and forming an air-tight seal between the edge of the bag, the edge of the body and the head, said body having a vent through its cylindrical wall adjacent the bottom of the body, a detachable seal consisting of a strip of tape-like material



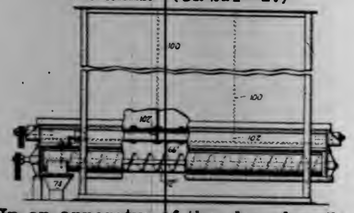
adhering to the outer side of the wall of the cask, covering said vent and adapted to be torn off before the liquid is to be drawn off through the said head, thereby permitting atmospheric air to enter the void created by the withdrawal of the liquid.

2,321,837
AIRPLANE AND CONTROL DEVICE THEREFOR
Frank R. Maxwell, Chester, Pa.
Application November 12, 1940, Serial No. 365,347
6 Claims. (Cl. 244—42)



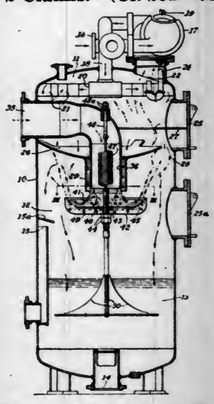
1. An airfoil comprising a main section having a slot adjacent its leading edge extending transversely to the line of flight, an upper cover for the slot formed as a unitary strength member and including a longitudinal spar providing a leading edge for the main section throughout the extension of the slot, and a pivot affording a connection between said spar and the main section.

2,321,838
COFFEE BIN
Douglas M. McBean, Rochester, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Application March 19, 1940, Serial No. 324,843
2 Claims. (Cl. 214—17)



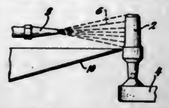
2. In an apparatus of the class described, the combination of an elongated bin for receiving finely divided material, the bin having end walls arranged vertically and side walls extending between the end walls, the bottom of the bin having an opening extending the full length of the space between the end walls, a rotatable valve adapted when in one angular position to receive a measured mass of material from the bottom of the bin the full length of said opening, and when in another angular position to discharge the mass therefrom, a trough beneath the bottom of the bin for receiving each mass discharged by the valve, a device for feeding each mass longitudinally of the trough from beneath said valve and for mixing the material of the mass as it is being fed, and means for rotating the valve and operating said feeding device in timed relation whereby masses of material are successively removed from the bottom of the bin and delivered to said trough, and each mass is separately discharged by said feeding device before the next succeeding mass is delivered to the trough.

2,321,839
HEATING AND DEAERATING OF LIQUIDS
John R. McDermet, Hempfield Township, Westmoreland County, Pa., assignor to Elliott Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 20, 1941, Serial No. 384,307
2 Claims. (Cl. 261—78)



1. The method of contacting a variable load of water and steam wherein the water and steam substantially increase and decrease in volume together which comprises flowing the water by gravity over a steam outlet orifice and utilizing the change in volume of the water to change the direction of flow of the water relatively to the steam in such manner that at low rates of flow the water tends to block the orifice and at higher rates of flow the water flows in a path nearly coincident with the direction of flow of the steam from the orifice.

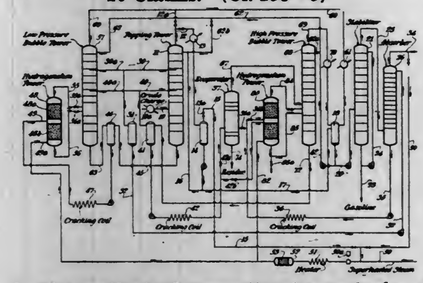
2,321,840
SPARK PLUG AND METHOD OF MAKING SAME
Taine G. McDougal, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 23, 1942, Serial No. 427,867
13 Claims. (Cl. 123—169)



1. In spark plug manufacture, the steps of coating an insulator with a glaze forming material, putting an electrode in place in the insulator, putting a glass sealing material adjacent the electrode, placing a conductor adjacent the sealing material, and heating the loose assembly to mature the glaze and soften the sealing material.

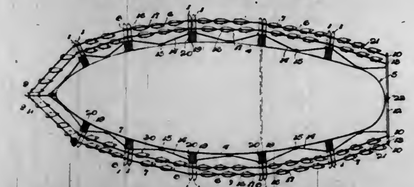
8. In a spark plug, an insulator having a high proportion of sintered oxides, a glaze coating having a maturing temperature within the range of Orton cone O10 to O2 on at least a portion of said insulator, an electrode and a terminal in the insulator, and two conducting glass seals joining the electrode and terminal, the glass of the seal adjacent the terminal having a greater plasticity than that of the seal adjacent the electrode.

2,321,841
REFINING HYDROCARBONS
Valentine Mekler, Jackson Heights, N. Y., and James Howard Curtis, Trenton, Mich., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application August 26, 1939, Serial No. 292,020
10 Claims. (Cl. 196—9)



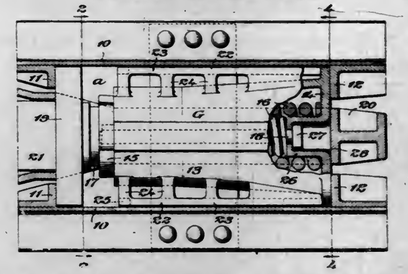
1. The method of converting heavy hydrocarbons boiling above the range of gas oil into a hydrocarbon mixture from which a maximum amount of lighter hydrocarbons boiling within the range of gasoline may be obtained, which comprises the steps of subjecting said heavy hydrocarbons to low temperature and low pressure cracking conditions to accomplish a viscosity breaking thereof, thereafter immediately non-destructively hydrogenating all of said partially cracked hydrocarbons in the presence of hydrogen and a hydrogenating catalyst, whereby the heavy unsaturated products of cracking are converted into saturated compounds and the polymerization of said unsaturated products of cracking to heavy tar-like materials is substantially prevented, and fractionating said converted hydrocarbons to obtain an additional cracking stock for conversion into gasoline and a fraction boiling within the range of gasoline.

2,321,842
TORPEDO GUARD FOR SHIPS
Wilbur E. Methvin, Lawrenceburg, Tenn.
Application May 8, 1941, Serial No. 392,525
8 Claims. (Cl. 114—240)



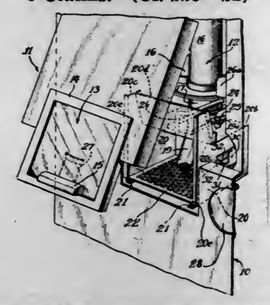
1. A torpedo guard for ships comprising a plurality of pairs of vertically spaced brackets pivotally attached to the sides of a ship, the lower bracket of each pair having its point of attachment in the vicinity of the bottom of the ship, a cable attached to the end of each upper bracket, a cable attached to the end of each lower bracket directly below and in line with said upper cable, said cables extending between the brackets in a direction substantially parallel to the sides of the ship, and a plurality of resilient inflatable torpedo guard members attached to said cables.

2,321,843
HOUSING CONSTRUCTION FOR DRAFT GEARS
Robert M. Nelson, Evanston, Ill., assignor to Peerless Equipment Company, Chicago, Ill., a corporation of Delaware
Application July 14, 1941, Serial No. 402,379
1 Claim. (Cl. 213—31)



A draft gear casing provided on opposite sides thereof with laterally offset skeletonized bracing structures serving to reinforce said casing against splitting by the forces of friction shoes exerted outwardly thereagainst and formed for cooperation with a car or locomotive underframe structure to firmly brace the casing against cocking in its pocket in said underframe structure, said skeletonized bracing structures each comprising a pair of rails spaced apart vertically and also spaced from said casing and extending longitudinally relative to said casing, web elements spaced apart longitudinally along each rail element and connecting the same to said casing, and a vertical bar spaced outwardly from said casing and joining the rails of each pair at their front ends adjacent to the front end of said casing.

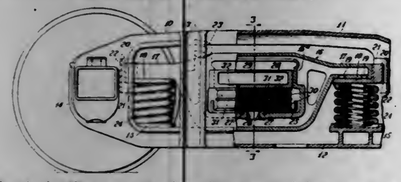
2,321,844
CUP SUPPORT AND DRAIN
Ralph A. Nicholson, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Application October 27, 1941, Serial No. 416,645
9 Claims. (Cl. 225—21)



1. A combination drain and cup rest comprising a box-like structure having an open side wall,

a grated bottom portion adapted to support a cup and provide for drainage of liquid therefrom, a to wall portion having an opening for a dispensing spigot relative to which said cup is to be positioned, means including a cross web structure on said box-like structure constituting a shield for said spigot, and tongue-and-groove means mounting said box-like structure for horizontal sliding movement to dispose the same and said spigot opening in the top wall portion in operative position relative to said spigot, and means mounted on said structure beneath said opening in the top wall portion for guiding cups into position beneath said spigot on said bottom portion.

2,321,845
RAILWAY CAR TRUCK
Karl F. Nystrom and Vernon L. Green, Milwaukee, Wis.
Application October 6, 1941, Serial No. 413,850
5 Claims. (Cl. 105—197)



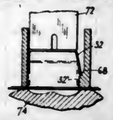
1. A railway car truck comprising an outer frame composed of top and bottom rails terminating at their ends in integral journal boxes having open-ended vertical slots in their side walls, the bottom rail being provided with spring seats adjacent the journal boxes; a sub-frame composed of top and bottom rails united adjacent the top of the frame in horizontally disposed ends, said sub-frame being arranged within the outer frame in spaced relation with the top and the bottom rails thereof and with its ends disposed above the spring seats; members removably secured to the ends of the sub-frame and extending into said vertical slots whereby alignment between the two frames is maintained and relative vertical movement between the outer frame and the sub-frame is permitted while movement of said members out of said slots permits removal of the outer frame; and high deflection springs between said spring seats and said removable members.

2,321,846
TEMPERATURE RESPONSIVE DEVICE
John A. Obermaier, Chicago, Ill.
Application April 26, 1939, Serial No. 270,133
3 Claims. (Cl. 73—362)



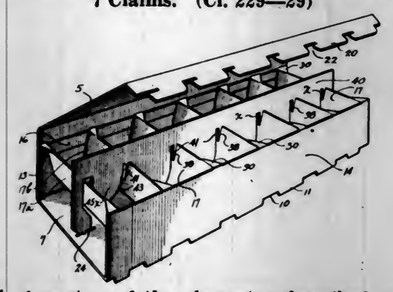
2. A temperature responsive device including a thermal responsive electric element, a protective casing, in one end of which the element is located, said casing having a head portion at the other end thereof, said head portion having a sleeve, a multi-conductor line cable the wires of which extend into said sleeve for extending circuit connections to the element, an elastic water-proof sealing sheath surrounding the cable, the inner periphery of the sheath being cementitiously sealed to the outer periphery of the sleeve, a ferrule threaded on said head and embracing the outside of said sheath, and a cementitious seal between the ferrule and the sheath and between the ferrule and the head.

2,321,847
STAPLE FOR STAPLING MACHINES
Lou Obstfeld, Brooklyn, N. Y., assignor of one-half to Abraham Obstfeld, New York, N. Y.
Application January 2, 1941, Serial No. 372,699
4 Claims. (Cl. 85—49)



1. A staple for use in a magazine type stapling machine of ordinary character except that the staple guide passage of the magazine slopes to receive a matingly sloping staple leg, said staple being formed of a slender, uniform, readily deformable wire, and having a bridge with two legs depending therefrom, one of said legs being perpendicular to the bridge, and the other sloping at an angle of from five to thirty degrees from perpendicular.

2,321,848
COLLAPSIBLE CARTON
Joe O'Reilly, Tacoma, Wash.
Application November 18, 1940, Serial No. 366,109
7 Claims. (Cl. 229—29)



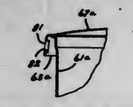
1. A carton of the character described, comprising a bottom wall, opposite side walls, and a cross panel extending between and fixed to the side walls for flat collapsing of the carton by folding together at diagonally opposite corners; said cross panel being formed with a succession of flaps; each flap having a notch in its top edge and provided with a free edge adapted to be folded downwardly from the plane of the panel to form a cross partition in the erected carton, and a division strip applied to the carton to lie flatly across the flaps in the collapsed carton and having notches in its bottom edge interlocked within the notches of the cross partitions, and setting off a succession of tabs; each tab overlying the free edge of the corresponding flap, and said tabs having holding connection at their lower ends with the bottom wall whereby erection of the carton from collapsed condition effects the erection of the division strip with an incident downfolding of the free edges of the flaps by said tabs.

2,321,849
WOOD TREATMENT
Calvin A. Owens, St. Petersburg, Fla.
No Drawing. Application October 6, 1941, Serial No. 413,909
9 Claims. (Cl. 167—38.5)

1. A method of treating wood to improve its resistance to water which comprises applying to the surface a treating agent consisting essentially of dissolved chromium trioxide.

6. A method of waterproofing and preserving wood which comprises applying to the wood a solution derived by extracting sawdust with a hot aqueous solution of chromium trioxide.

2,321,850
DOMESTIC APPLIANCE
George C. Pearce, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application June 18, 1941, Serial No. 398,629
2 Claims. (Cl. 219—35)



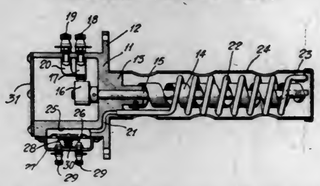
2. A cooking device comprising in combination, a range having a substantially flat top and provided with means forming walls of a well depending from said range top, an electric heating element associated with said well forming means, a receptacle removably disposed in the well in thermal association with said heating element and having its top portion projecting from the well, said receptacle top portion being provided with an outwardly and downwardly directed flange forming a rim therearound extending to a point closely adjacent the top of said range, said downwardly directed part of said flange having opposed horizontally facing finger receiving open portions therein providing handles integral with and intermediate the uppermost and lowermost portions of the rim to facilitate lifting of said receptacle out of the well, and said handles being disposed above the top of said range whereby the fingers of the user may be inserted into the open portions in said rim by movement of the fingers horizontally along said range top.

2,321,851
LAMP SOCKET FOR FLUORESCENT LAMPS
Louis A. Pope, Melrose, Mass.
Application March 5, 1940, Serial No. 322,285
1 Claim. (Cl. 173—328)



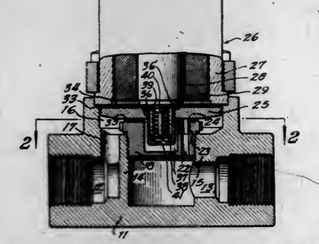
A lamp socket for a fluorescent lamp having two lamp terminals extending from each end thereof in the direction of its length, said lamp socket comprising two readily separable sections, one of which constitutes a fixed wiring terminal section and has two parallel side faces and a pair of sockets in its bottom face, and the other of which constitutes a removable lamp terminal section and has two flat parallel side faces and a pair of socket terminals in one side face adapted to be connected with or separated from the lamp terminals only by relative movement between the removable lamp terminal section and the lamp in the direction of the length of the latter, said removable lamp terminal section also having a pair of contact fingers insulated from each other and extending from its top face at right angles to the lamp terminals and adapted to be received in the sockets of the fixed wiring terminal section, the parallel side faces of the lamp terminal section extending beyond the top face thereof to form wings which overlie and fit snugly against the flat side faces of the wiring terminal section when the two sections are in operative relation, thereby maintaining such relation and preventing the lamp socket section from being displaced angularly.

2,321,852
CONTROL DEVICE
William A. Ray, Glendale, Calif.
Application June 25, 1941, Serial No. 399,600
5 Claims. (Cl. 200—138)



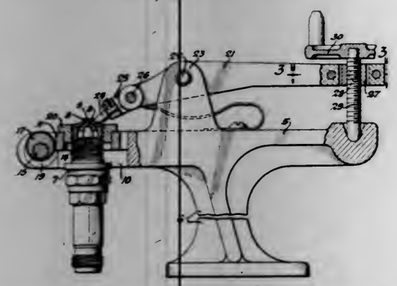
1. In a dual device for controlling the operation of temperature changing means: a pair of thermostatic elements adapted to be subjected to the temperature of a flowing circumambient medium, one of the elements being surrounded by the other to form an outer and an inner element, said outer element being arranged in such manner as to provide a free opening to the inner element, said opening being so arranged that the circumambient medium substantially uniformly affects the elements in any direction of flow thereof, and independent switching means actuated by each of the elements.

2,321,853
VALVE STRUCTURE
William A. Ray, Los Angeles, Calif.
Application February 9, 1942, Serial No. 429,983
5 Claims. (Cl. 137—139)



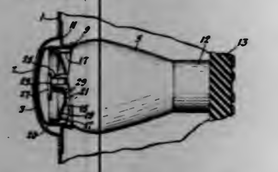
1. In a fluid control valve: a casing having an inlet and an outlet separated by a ported partition providing a valve seat, a movable disk-like closure member cooperable with said seat and constructed wholly or in part of magnetic material, an electromagnet mounted on said casing and having a pole face closely adjacent the side of said closure member away from said seat and adapted when energized to attract the closure member, said closure member having an opening therethrough, a compression spring biasing the closure member toward closed position, said spring extending through said opening and having one end in engagement with said pole face, and means mounted in said opening and forming an abutment for the other end of the spring.

2,321,854
SPARK PLUG ADJUSTING DEVICE
Hector Rabezzana and Alexander J. Battey, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 20, 1941, Serial No. 415,706
5 Claims. (Cl. 153—39)



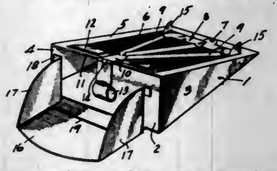
1. In a device of the class described, a base member bifurcated at one end to provide two parallel arms; a support arranged between and supported by, and adjustable along said arms; a rotatable adjusting member located between the ends of said arms, and which member acts to determine the position of said support; an internally threaded spark plug adapter supported by said support and rotatable in a circular seat provided therein; a lever pivotally supported from and located above said base, and having a tool point adapted to engage a grounded shell electrode of a spark plug supported by said rotatable spark plug adapter; and means associated with the other ends of said lever and base for forcing said tool point against a shell electrode of a spark plug supported by said spark plug adapter.

2,321,855
INDICATOR
Donald W. Randolph, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 17, 1940, Serial No. 314,205
4 Claims. (Cl. 250—27.5)



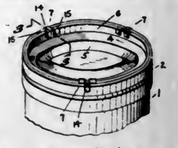
1. An indicator comprising an electronic discharge tube having a target, said target having an annular surface coated with a fluorescent material, a cathode located centrally with respect to said annular target surface for causing an electron flow to said target coating to render it visibly fluorescent, an electrode radially spaced between said cathode and said annular target surface for controlling the path of electron flow between the cathode and target to vary the visible fluorescent area of the target coating and a scale of arcuate form located adjacent the annular target surface, said scale having a radial edge in alignment with said cathode and said electrode to measure the change in visible fluorescent area on the target coating.

2,321,856
COMBINATION POURING SPOUT AND SIFTER
Arthur Read, Portland, Oreg.
Application April 5, 1941, Serial No. 387,035
2 Claims. (Cl. 209—370)



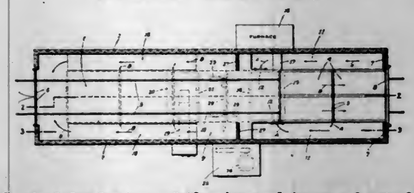
2. A combination sifter and pouring spout for cartons, comprising a hollow body member having a bottom wall and two rearwardly tapering side walls, a pouring spout hingedly mounted to the forward end of the bottom wall, a sifter of flat formation mounted upon said side walls, an agitator swingably mounted above the sifter and in wiping contact therewith, said body member being of greater width than the pouring spout, whereby the front edges of the body member will bear against the marginal edges of an opening in the carton through which the pouring spout may be swung to an open or closed position with respect thereto.

2,321,857
CONTAINER
Harry F. Rigerman, Kenmore, N. Y.
Application January 8, 1940, Serial No. 312,806
10 Claims. (Cl. 229—5.7)



1. A container comprising a shell having a shoulder on its interior and near its end, a closure in engagement with said shoulder and a detent located between the inner face of said shell and the edge portion of said closure plate, said detent comprising a channel portion registering with and in engagement with the inwardly-projecting shoulder of said shell and having bendable legs projecting beyond the top of said shell.

2,321,858
DEHYDRATOR
Earle L. Roberts, Modesto, Calif.
Application November 14, 1941, Serial No. 419,137
5 Claims. (Cl. 34—223)



5. A dehydrator of the tunnel type adapted to receive a row of open-ended stacked drying trays therein in end to end spaced relation, the tunnel including side walls spaced apart a greater distance than the width of the trays, a closure for the tray discharge end of the tunnel, end walls at the intake end of the tunnel extending laterally inward from the side walls to adjacent the planes of the side edges of the stacks of trays, and baffle walls extending laterally inward from the side walls intermediate the ends of the tunnel and disposed so as to be intermediate the ends of one stack of trays, a fan chamber disposed below the tunnel adjacent the baffle walls, said chamber having an intake opening and a pair of transversely spaced discharge openings, an air circulating fan in said chamber, a mixing chamber with which said intake opening communicates, means to supply heat to said mixing chamber, passage means extending along the portion of the tunnel between the baffle walls and the intake end of the tunnel at the sides of the latter, the mixing chamber having transversely spaced intake openings communicating directly with said passage means, and means forming separate passages leading along the sides of the tunnel between the baffle walls and the discharge end of the tunnel from and directly communicating at one end with the discharge openings of the fan chamber.

2,321,859
SHELF
Homer E. Rosebrook, Greenville, Mich., and Oscar E. Norberg, Cincinnati, Ohio, assignors to Gibson Electric Refrigerator Corporation, Greenville, Mich., a corporation of Michigan
Application October 2, 1941, Serial No. 413,244
4 Claims. (Cl. 211—153)



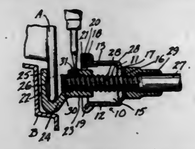
1. A wire shelf comprising a main frame, one side of said main frame being formed by a cylindrical frame member, a plurality of spaced apart parallel cross bars, opposite ends of said cross bars being secured on top of said cylindrical member and to the opposite side of the frame, the end surfaces of said bars adjacent said cylindrical frame member being upwardly and inwardly inclined in a plane tangent to the surface thereof at the outer side of the frame, and a trim member of a length substantially equal to that of the cylindrical frame member secured thereto and inclining upwardly and inwardly to conceal the adjacent ends of said cross bars.

2,321,860
BUILDING CONSTRUCTION AND UNIT THEREFOR
Frederick H. Ruppel, Pasadena, Calif.
Application February 3, 1941, Serial No. 377,151
5 Claims. (Cl. 189—85)

4. A composite structural siding which comprises a sheet metal member bent to form a shallow trough, an unbroken board of insulated material entirely filling said trough, a binder between said board and metal member uniting the same into a composite unit, reinforcing strips connecting opposite trough edges, and mounting clips provided by certain of said reinforcing strips.



2,321,861
AUTOMOTIVE ACCESSORY
Henry J. Sauer, Fairfield, Conn., assignor to The Kilborn-Sauer Company, Fairfield, Conn., a corporation of Connecticut
Application March 20, 1940, Serial No. 324,937
7 Claims. (Cl. 248—226)



6. In a mounting bracket for a rear vision mirror or the like, an arm, a clamping hook disposed at the inner end of said arm and adapted to engage about the edge flange of an automobile door or the like, and including a clamping plate portion to engage the inner surface of said flange, with an integral connecting portion to extend around the edge of said flange to its outer side, and a hub portion integral with the connecting portion, a clamping cover mounted for relative movement on said arm and having an opening through its bottom to receive within it said connecting portion and hub portion, bottom edges on the clamping cover adapted to clamp against the outer surface of the door flange and also to close against the outer surface of said integral connecting portion of said clamping hook, whereby the interior of said clamping cover is sealed along its bottom edges, and adjustable screw means cooperatively arranged on the mounting bracket for drawing the clamping plate portion and the clamping cover toward each other to grip the door flange between them.

2,321,862
DRAFTING INSTRUMENT
Charles E. Savage, Santa Monica, Calif.
Application July 13, 1942, Serial No. 450,654
4 Claims. (Cl. 33—93)

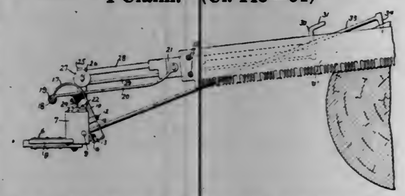
1. In a device of the character disclosed, two transparent drafting instruments, a pivot therebetween whereby there may be relative rotation between said instruments, a cam lever secured to said pivot, and a resilient member between said cam lever and one of said instruments,

movement of said cam lever in one direction compressing said resilient member causing binding



engagement between said two drafting instruments to prevent relative rotation therebetween.

2,321,863
DRAG SAW
Walter G. Scheel, Tenino, Wash.
Application October 15, 1940, Serial No. 361,306
1 Claim. (Cl. 143—64)



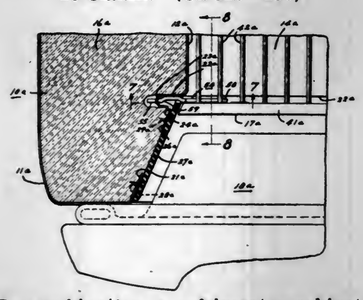
In a drag saw, a pitman and a connecting rod, a frame, a shaft on the frame, an arm adapted to connect the pitman and the connecting rod, said arm being constructed of spring steel material, one end of the arm being extended rearwardly upon itself and spaced from the main portion of the arm, a bolt connecting the rearwardly extended portion of the arm to the main portion of the arm, a bearing mounted on the rearwardly extended portion of the arm, said bearing being mounted on the shaft, means for connecting the pitman to the rearwardly extended portion of the arm, one end of the arm being curved rearwardly above the pitman, and means for connecting the rearwardly curved end of the arm to the saw connecting rod.

2,321,864
TANDEM WHEEL TRAILER
George B. Schoenrock, Detroit, Mich.
Application August 14, 1941, Serial No. 406,795
4 Claims. (Cl. 280—104)



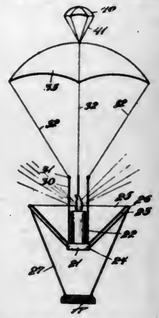
1. A road vehicle including a frame, a plurality of axles supporting one end of said frame, springs individual to each axle, the springs individual to one axle each being connected at one end by a single pivotal connection to said frame, the springs individual to the other axel being shackled at one end to said frame and a shackle common to the two springs pivotally connected in depending relationship to said frame and pivotally connected directly to the remaining ends of said springs, the pivotal axes between said springs and said common shackle lying substantially in a plane including the pivotal axes between said common shackle and said frame.

2,321,865
REFRIGERATING APPARATUS
Edmund F. Schweller, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 19, 1940, Serial No. 357,455
10 Claims. (Cl. 312—156)



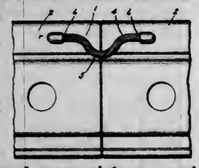
9. In combination, a refrigerator cabinet provided with an inner liner defining walls of a food storage chamber therein, said cabinet having an aperture therein providing an access opening for said chamber, a mold element forming a wall for said chamber access opening, a door for normally closing said opening, shelf supporting means disposed between said liner and said mold element at each side of said chamber access opening, each of said means including a part secured to said cabinet exteriorily of said chamber and concealed by said mold element, and each of said means including another part extending inwardly of the side walls of the chamber access opening to form supports at the front of said chamber for a shelf adapted to be positioned therein.

2,321,866
AERIAL FLARE
Leonard Clark Sheldon, Hillsgrove, R. I.
Application February 11, 1941, Serial No. 378,428
9 Claims. (Cl. 102—35)



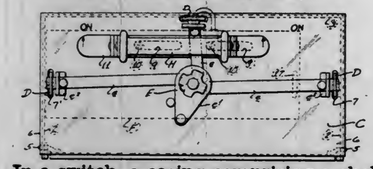
1. An aerial flare comprising a transparent supporting parachute and a carriage suspended therefrom, an opaque shield supported on said carriage and extending outwardly thereof, and illuminating means supported above the shield at a location to be positioned between said parachute and said shield for throwing light upwardly through said parachute.

2,321,867
RAIL BOND
Edward P. Smith, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application May 5, 1942, Serial No. 441,774
9 Claims. (Cl. 238—14.12)



1. A rail bond comprising a pair of terminals, each provided with a portion for attaching the terminal to a rail and a cable connecting the terminals and having its ends positioned within the terminals and securely held therein by compression, the exposed portion of said cable being of uniform cross-sectional area and formed with a loop portion forming a part of the length of the cable between the terminals and means forming a part of the cable within the length of the loop whereby a break in the cable is assured within the length of the loop when the cable is stretched beyond the elastic limit of said means.

2,321,868
PANEL OR SWITCH BOX
George R. Smith, Richmond Heights, Mo., assignor to Wm. Wurdack Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application March 20, 1942, Serial No. 435,532
4 Claims. (Cl. 200—50)



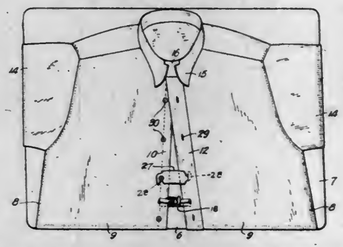
1. In a switch, a casing comprising a shell and a lid, a slotted blade-carrying member shiftable on the lid, and a member fixed on the shell and engageable with said member at its slot for retaining said member in its respective shifted positions.

2,321,869
DISPENSER FOR DRY MATERIALS
Clarence Stanyer, South Pasadena, Calif.
Application December 16, 1940, Serial No. 370,368
4 Claims. (Cl. 221—106)



1. A dispenser for comminuted materials comprising: in combination with an original container in which the material is purveyed, a dispenser interchangeably attachable to the containers in lieu of the original closures therefor and including a body member forming a substitute closure for the container and provided with a chamber for receiving quantities of the material from the container, a pocketed measuring member rotatably mounted in said chamber, said chamber having an inlet from the container and an outlet spaced from said inlet, said measuring member having an opening adapted to selectively register with the inlet and outlet of said chamber for, respectively, charging the measuring member with and dispensing materials therefrom, said chamber and said measuring member each having generally cylindrical walls arranged one within the other, one of said walls having shallow peripheral ribs formed thereon paralleling the axis of said measuring member for engagement with the other wall so as to minimize the friction between said walls in the operation of the dispenser.

2,321,870
SHIRT IRONING, FINISHING AND FOLDING OPERATION
James W. Steele, North Kansas City, Mo.
Original application July 2, 1938, Serial No. 217,206. Divided and this application December 22, 1941, Serial No. 423,922
3 Claims. (Cl. 38—144)

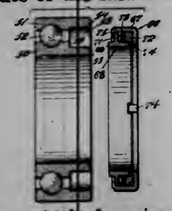


2. The method of ironing shirts and like garments, which consists in spreading the back portion of the garment its full width between its side seams flat upon the ironing surface to accommodate the extra fullness of the back portion as compared with the width across the front of the garment between said seams, folding the sections of the front portion along said side seams and spreading said sections smoothly upon the back portion and then ironing said front and back portions simultaneously in their superposed relation while employing detachable spacer means for maintaining the button and buttonhole pleats of the front portion below its collar in unbuttoned and spread-apart relation.

2,321,871
ROTARY SEAL
Robert Stevenson, Providence, R. I., assignor to Stevenson Engineering Corporation, a corporation of Rhode Island
Application April 11, 1941, Serial No. 388,015
1 Claim. (Cl. 286—7)

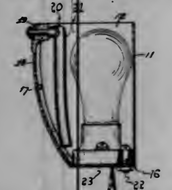
An independent sealing unit for sealing against a part presenting an annular sealing surface comprising a concentrically arranged body member and sleeve, said sleeve being axially slidably mounted with reference to said body member, said unit providing a chamber therein partially bounded by said body member and sleeve to receive fluid, said sleeve having a sealing surface at one end for engagement with said annular surface, means located between and engaging said body and sleeve to prevent the fluid

having access to the opposite end of the sleeve, said sleeve having at a location intermediate its ends a portion extending toward the body member and exposed to the fluid to be sealed to present an area on the side away from the seal and an area on the side near the seal whereby the pressure of the fluid to be sealed will press upon the said extending portion in directions dependent upon the respective diameters exposed to fluid pressure on the different sides of the said extending portion,



and a flange on said body extending to a position to engage said extending portion of said sleeve to prevent the separation of said sleeve and body prior to operative positioning, resilient means acting on said extending portion to urge the same toward said flange, the sealing face of said sleeve being located a distance from said extending portion so that said sealing face projects beyond said flange whereby the extending portion of said sleeve is moved away from said flange when the unit is in operating position.

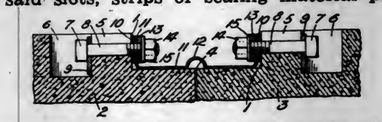
2,321,872
COMBINATION LIGHT FIXTURE AND ORNAMENT MOUNTING
Frank I. Szalla, Chicago, Ill.
Application October 23, 1942, Serial No. 463,298
3 Claims. (Cl. 240—2)



3. In an open ended fixture of the described class, a continuous wall bent along two spaced apart longitudinally extending paths to define a rear wall portion and two opposed side wall portions which extend in substantially the same general direction; a translucent forward wall member secured between the forward edge of said side wall portions; inwardly bent bottom flanges integral with the lower ends of said side wall portions; an apertured mounting flange on the lower end of said rear wall portion, said flanges forming supports for an electric socket or the like and fastening elements connecting the edges of said forward wall member and the adjacent edges respectively of said side wall portions and a tube-like ornament supporting member suspended between said front wall member and said continuous wall and connected at its upper end to said front wall member.

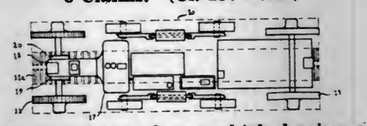
2,321,873
JOINT FOR CONCRETE STRUCTURES
Alexander Tate, Fareham, England
Application July 15, 1941, Serial No. 402,521
In Great Britain March 1, 1941
3 Claims. (Cl. 72—106)

1. For sealing a joint between two concrete slabs or blocks, a channel formed partly in one slab or block and partly in the other and extending lengthwise of the joint, slots extending in each slab or block from said channel, bolts placed in said slots, strips of sealing material placed



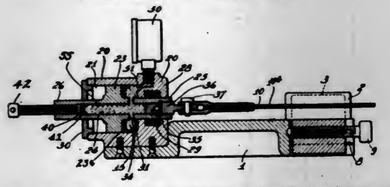
about said bolts along the side walls of said channel, a jointing strip disposed in said channel and having lateral edges engaged over said bolts and with said sealing strips, and clamping bars secured by the bolts against said lateral edges.

2,321,874
ROBOT VEHICLE
William S. Tandler and Paul M. Mazur, New York, N. Y., assignors to Industrial Scientific Corporation, New York, N. Y., a corporation of New York
Application September 7, 1940, Serial No. 355,750
8 Claims. (Cl. 180—79.1)



1. Control means for a vehicle having a plurality of operating elements comprising separate electro-responsive means for actuating the respective elements, a circuit for each of the said electro-responsive means, a photoelectric device for controlling each of the said circuits, separate indicia means to control each of the said photoelectric devices, a compass, and means actuated by the compass to control said circuits.

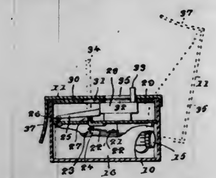
2,321,875
LOAD TESTING APPARATUS
Robert Temple, Swissvale, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc., a corporation of Delaware
Application October 23, 1940, Serial No. 362,308
5 Claims. (Cl. 265—14)



1. A portable self-contained load testing machine comprising a frame, a gripper means mounted onto the frame and adapted to be attached to and retain a specimen, a tension applying means attachable to the specimen and supported by the frame and spaced from the gripper means comprising a cylindrical member attached to the frame, a relatively movable member having a portion slidably fitted and fluidly sealed to the inner wall of the cylindrical member, a stop means defining a fluid chamber between one side of the member and the cylindrical member, the member having a portion extending through the end of the cylindrical member and having an engageable means to which the other end of the specimen is to be attached, the member extending through the rearward end of the cylindrical

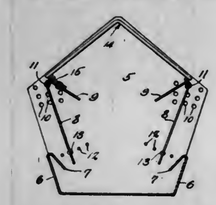
member and having an inner fluid chamber open at the rearward end of the member and having an opening connected to the fluid chamber, a fluid medium in the fluid chamber and the inner chamber of the movable member, a plunger fitted to the inner wall of the chamber of the movable member and operative to be movable into the inner chamber to exert pressure on the fluid medium in the inner chamber of the member and the connected fluid chamber of the cylindrical member to apply pressure to the movable member in a direction away from the specimen to produce stress in the specimen and a means to indicate the amount of stress applied.

2,321,876
TIMING APPARATUS
Maurice Russel Thoma, Boonville, Mo.
Application October 6, 1941, Serial No. 413,892
4 Claims. (Cl. 161—18)



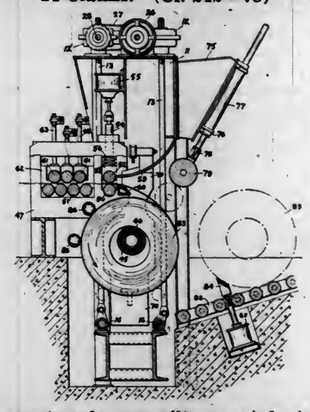
1. A timing apparatus comprising a case having a releasible cover provided with an opening, a watch mechanism having a balance wheel, a holder for said watch mechanism and insertable in the case, a guide arranged with said holder and having spaced openings, one of the openings for registering with the opening in the cover, a slide movable in the guide and closing the opening registering with the opening in the cover, and mechanism manually operated through the other opening in said guide and engaging the balance wheel for stopping the running of the watch mechanism and locking the slide against movement.

2,321,877
POULTRY FEEDER
John S. Troyer, Moyock, N. C.
Application February 20, 1942, Serial No. 431,762
2 Claims. (Cl. 119—53)



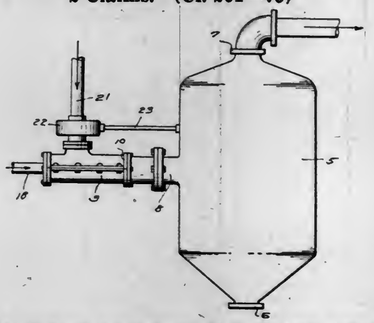
1. In a poultry feeder, a trough including side members, the upper edges of the side members being inclined inwardly and downwardly providing broad flanges, end members rising appreciable distances above the trough, a hopper adapted to feed material to the trough, said end members providing the ends of the hopper, wide side walls forming a part of the hopper and disposed between said end members, the upper edges of the side walls being extended inwardly and downwardly providing guard flanges, and means for mounting the side walls of the hopper for vertical and lateral adjustment with respect to the sides of the trough.

2,321,878
STRIP UNCOILER
Emmet R. Tyrrell, Youngstown, Ohio, assignor to The Fessler Machine Company, Sharon, Pa., a corporation of Pennsylvania
Application April 9, 1940, Serial No. 328,685
14 Claims. (Cl. 242—78)



8. Apparatus for uncoiling metal strip comprising in combination a mandrel adapted to be inserted in the opening of the coil to rotatably support the coil, a pair of pinch rolls supported in parallel relation with said mandrel and having a pass plane which at the pass line between the pinch rolls is substantially tangent to the curve followed by the strip as it leaves the outer periphery of the coil, said pinch rolls and said mandrel being so positioned relative to each other that said curve is substantially coincident with the natural position which the strip would assume if unrestrained and freed from the coil.

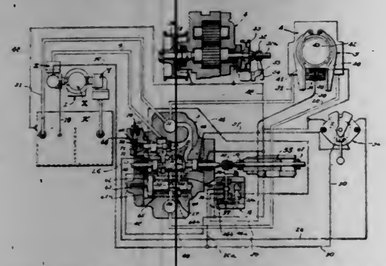
2,321,879
GASEOUS DIFFUSER
Rafael Valdez, New York, N. Y.
Application April 17, 1942, Serial No. 439,431
2 Claims. (Cl. 261—76)



1. A mixing apparatus of the class described comprising a reaction chamber in a liquid feed line, a tubular body having one end connected to the chamber, a nozzle projecting into the other end of the body adapted to feed steam under pressure thereto, a lateral feed port in one side of the body behind the inner end of the nozzle, the suction force of steam entering the body being adapted to draw fluid into the body through the lateral port for mixing with the steam, a fluid feed pipe connected to the lateral port, a chamber surrounding the last-named pipe, said last named

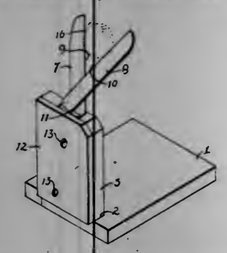
pipe having perforations communicating with the last-named chamber, and a recirculation pipe connecting the first and second chambers.

2,321,880
HYDRAULIC HOISTING UNIT AND CONTROL SYSTEM THEREFOR
Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Original application September 22, 1933, Serial No. 690,630, now Patent No. 2,104,780, dated January 11, 1938. Divided and this application January 7, 1938, Serial No. 183,883
6 Claims. (Cl. 60—53)



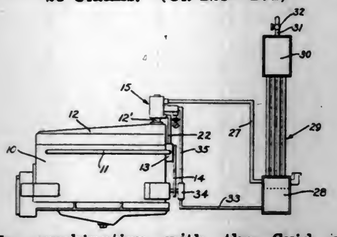
1. In a hydraulic system, a large volume actuating pump, a small volume control pump, a combined pressure and load control valve positioned between the outflow from the two pumps, and means for regulating the position between the valve and its seat to maintain a minimum pressure in the exhaust from said control pump while the large volume pump is unloaded, said valve being actuated by an increase in pressure in the large volume pump exhaust above the pressure in the small volume pump exhaust to permit the small volume pump to operate at the same pressure as the large volume pump.

2,321,881
FRUIT CUTTING AND PITTING DEVICE
Angelica B. Waelty, Sunnyvale, Calif.
Application August 19, 1942, Serial No. 455,389
2 Claims. (Cl. 146—162)



1. A device of the character described comprising, supporting means, an upstanding member fixedly mounted thereon, one surface of said member having grooves formed therein converging at the top thereof to form an acute angle, a pair of fruit cutting knives having their handles seated in said grooves and having their blades crossing at the top of said member with their cutting edges in opposed relation with each other, and a plate fixedly mounted on said surface of said member to secure said knife handles in place in said grooves.

2,321,882
METHOD AND MEANS FOR COOLING ENGINE CYLINDERS
John H. Wallace, Alhambra, Calif.
Application November 26, 1940, Serial No. 367,259
25 Claims. (Cl. 123—174)



14. In combination with the fluid cooling jacket of an internal combustion engine or the like, a fluid cooling medium circulating pump, a conduit leading fluid from said pump into the cooling jacket and a return conduit from the cooling jacket to the circulating pump, whereby a constant flow of a fluid cooling medium will be maintained at a predetermined flow pressure, a pressure responsive valve housing interposed between the conduits and through which said fluid passes in its normal flow, said valve housing being divided into two compartments, one through which the fluid may flow continuously, the other in communication therewith, a pressure responsive valve element normally interrupting said communication, a conduit leading from said second named compartment, a condenser with which said conduit communicates continuously and whereby fluid relieved from the normal flow circuit by the opening of the pressure valve may be conducted to the condenser, means for returning condensate from the condenser and re-introducing it into the normal fluid flow through the engine jacket, a back pressure check valve in said condensate flow line, and means for establishing the predetermined pressure of fluid in the main path of flow at which the pressure valve will open to temporarily permit the relief of fluid from the main flow line and whereby the valve will close when said pressure equilibrium has been reestablished.

2,321,883
DISPLAY BOX COVER
Lewis Douglas Young, Providence, R. I., assignor to Douglas Young, Inc., a corporation of Rhode Island
Application October 17, 1940, Serial No. 361,468
2 Claims. (Cl. 206—44)



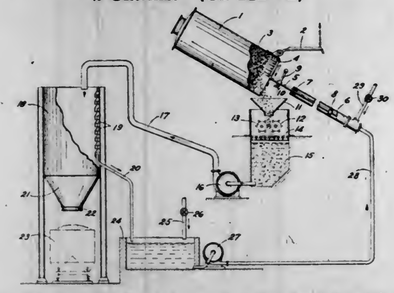
1. A display box comprising a body having upstanding side and end walls and a transparent cover comprising top, side, and end walls, said top and side walls being formed from a single piece of material extending from the free edge of one side wall to the free edge of the other side wall, said top wall being curved about an

axis lengthwise of said free edges and the junction between said top and side walls being formed by a fold to provide a sharp corner, the upstanding walls of said display box being positioned within the walls of said cover.

2,321,884
OIL FILTER
Philip Sidney Allam, Little Chesterford, near Saffron Walden, England, assignor to Simmonds Development Corporation Limited, Aldwych, London, England
No Drawing. Application April 29, 1941, Serial No. 390,997. In Great Britain May 29, 1940
5 Claims. (Cl. 196—16)

1. An oil filter comprising a porous filtering medium having intimately admixed therewith an alkylene polyamine containing at least one amino-substituted hydroxyalkyl group.

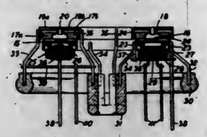
2,321,885
MATERIAL HANDLING SYSTEM
Frank B. Allen, Lower Merion Township, Montgomery County, Pa., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 1, 1938, Serial No. 199,371
2 Claims. (Cl. 141—1)



1. The method of removing material which is in the form of a solid mass in a vessel comprising the steps of discharging a plurality of streams of high pressure water, arranged in a line substantially perpendicular to the side of the vessel, against an exposed face of said mass to break the face portion thereof into pieces and dislodge them, rotating said streams about a point centrally of said face into contact with substantially all parts of the exposed face to break away the material from said face portion, more or less uniformly, and maintaining substantially constant the distance between the points of discharge of said streams and the exposed face as the material is dislodged.

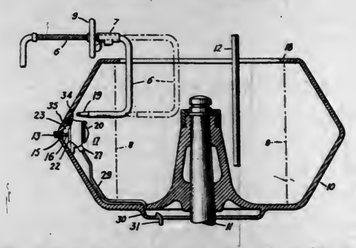
2,321,886
ELECTRON DISCHARGE DEVICE
Alva Eugene Anderson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 29, 1941, Serial No. 385,817
9 Claims. (Cl. 250—162)

1. An electron gun comprising a cathode having an annular electron emissive surface of substantial radial width, and means for concentrating electrons emanating from said surface into a hollow cylindrical beam of a thickness substantially less than the radial width of said surface, said means comprising a pair of electrode members in juxtaposition to said cathode and having coaxial annular walls lying on opposite sides of said surface and defining an annular gap axially aligned with said surface, and a second pair of electrode members adjacent said first members



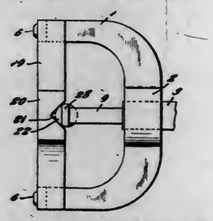
and having opposed cylindrical surfaces defining a cylindrical aperture axially aligned with and of materially less width than said gap, said cylindrical surfaces extending into said gap.

2,321,887
PROCESS FOR CENTRIFUGALLY SEPARATING SOLIDS FROM LIQUIDS
Arthur U. Ayres, Chestnut Hill, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 26, 1941, Serial No. 390,508
4 Claims. (Cl. 233—20)



1. In the separation of solids from liquids, the process comprising, feeding a mixture consisting of a liquid containing suspended solids to a centrifugal rotor, subjecting said mixture to centrifugation to effect sedimentation of said solids by rotating said rotor, while retaining said liquid within the rotor, removing sedimented solids circumferentially from said rotor while retaining said liquid in the rotor, and thereafter separately removing the clarified liquid from the rotor.

2,321,888
GAUGE
Joseph A. Baracskai, Elyria, Ohio
Application February 26, 1942, Serial No. 432,519
2 Claims. (Cl. 33—167)



1. A gauge of the character described comprising a substantially U-shaped frame, a bar mounted on the end portions of said frame, an arm on the bar having a substantially V-shaped channel therein for the reception of a piece of work, and a micrometer barrel mounted on the frame at right angles to the bar and engageable with the work.

2,321,889
RUBBER COATED FERROUS METAL ARTICLE AND PROCESS
George Corbin Bailey, Elizabeth, and Oscar Johnson, Metuchen, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 23, 1939, Serial No. 296,288
16 Claims. (Cl. 117—79)

6. The method of coating a ferrous metal surface with rubber comprising applying directly to said surface a red lead metal primer composition, drying the resulting primer coating, and depositing a rubber coating on said primer coating from a rubber latex, said primer composition being devoid of rubber and rubber derivatives.

2,321,890
POLYMERIC SULPHONAMIDE
Gerard J. Berchet, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 4, 1939, Serial No. 297,963
14 Claims. (Cl. 260—556)

2. A polymeric sulphonamide free from carboxylic amide groups and having the recurring structural unit:

$$—O_2S—R—SO_2—NR'—R''—NR'—$$

wherein R is a divalent aliphatic radical separating the two SO_2 groups by a chain containing at least three carbon atoms in said chain, each of said two SO_2 groups being directly connected to carbon in said chain, R' is a member of the group consisting of hydrogen and monovalent hydrocarbon radicals, and R'' is a divalent organic radical separating the amino groups by a chain containing at least two carbon atoms in said chain, each of said two amino groups being directly connected to carbon in said chain, R being connected to two and only two SO_2 groups and R'' being connected to two and only two amino groups as the sole groups reactive with sulphonyl halide and amino groups.

2,321,891
POLYMERIC SULPHONAMIDE
Gerard J. Berchet, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 4, 1939, Serial No. 297,964
12 Claims. (Cl. 260—556)

2. A polymeric sulphonamide free from carboxylic amide groups and having the recurring structural unit:

$$—O_2S—R—SO_2—NR'—R''—NR'—$$

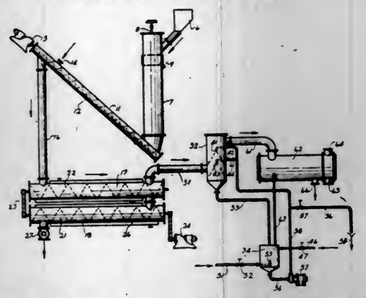
wherein R is a divalent aromatic radical separating the two SO_2 groups by a chain containing at least three carbon atoms in said chain, each of said two SO_2 groups being directly connected to carbon in the ring of said aromatic radical, R' is a member of the group consisting of hydrogen and monovalent hydrocarbon radicals, and R'' is a divalent organic radical separating the amino groups by a chain containing at least two carbon atoms in said chain, each of said two amino groups being directly connected to carbon in said chain, R being connected to two and only two SO_2 groups and R'' being connected to two and only two amino groups as the sole groups reactive with sulphonyl halide and amino groups.

2,321,892
HOOD FOR BATTERY CAPS
Carl N. Bergstrom, Portland, Oreg.
Application March 3, 1941, Serial No. 381,496
1 Claim. (Cl. 136—181)



A hood for battery caps consisting of a hollow, bullet shaped member having a perforated, pointed upper end and an inturned flange formed at the lower opposite end forming an opening through which the body of a battery filler cap can pass permitting the head of said filler cap to be enclosed by said hood and causing said flanged end to act as a gasket between said filler cap and the periphery of the filler opening, said hood being characterized by having ribs formed on the interior thereof adjacent to said flange adapted to insure breathing space between the exterior of the filler cap and the interior of the hood.

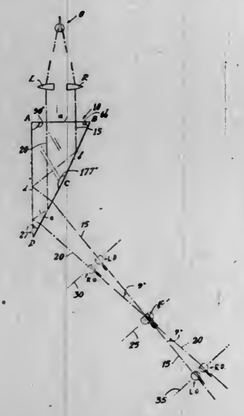
2,321,893
VAPOR SCRUBBING SYSTEM
Henry S. Bimpson, West Allis, and Charles W. Bilbe, Wauwatosa, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 3, 1940, Serial No. 350,580
2 Claims. (Cl. 261—15)



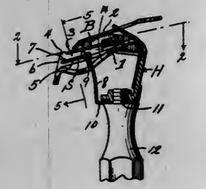
1. In a system for cleaning condensable gases to be recovered, a tank free from internal obstructions to the flow of gases therethrough, a source of dust laden condensable gas, a conduit connecting said tank with said source to change the direction of flow and the velocity of the gas stream conducted to said tank, a spray nozzle for spraying water in the stream of gas passing through said tank to precipitate the dust therein, a tank for receiving the sludge of dust and water precipitated by the spray, means for heating the contents of said receiving tank above the evaporation temperature of the gas, and a pump connected to pump from said receiving tank to said spray nozzle.

2,321,894
LENS AND PRISM SYSTEM
Louis F. Bischoff, Brooklyn, N. Y.
Application October 4, 1940, Serial No. 359,748
11 Claims. (Cl. 88—29)

1. In a stereoscopic system of the character described, that improvement which comprises providing a prism having an entrant face for receiving therethrough light rays from an object, a first reflecting face and a second reflecting face for dividing and reflecting the light rays passing through said entrant face, said second face being disposed at an angle of from approximately 174 degrees to less than 180 degrees to said first reflecting face and a third reflecting face for receiving and reflecting the light rays reflected from said first and second faces, said third face being disposed at approximately 18 degrees to 36 degrees to said second face.



2,321,895
RAZOR
Stevens W. Boatwright, Tampa, Fla.
Application December 31, 1941, Serial No. 425,189
4 Claims. (Cl. 30—50)



1. A safety razor comprising a handle, a head member mounted upon an extremity of the handle, a guard plate carried by the head, flanges at the opposite ends of said plate and extending transversely thereof, said plate inwardly of and immediately adjacent to the flanges being provided with straight portions, said straight portions being spaced inwardly from the outer faces of the flanges, the forward extremities of the flanges and the straight portions being provided with outstanding lugs, a main blade having its end portions engaged with the outer faces of the flanges, means for holding said main blade to said flanges, a supplemental blade having its end portions engaging the straight portions of the guard plate, a spring arm carried by the end portion of the handle adjacent to the head, said spring arm engaging the rear edge of the supplemental blade to urge the blade toward the lugs of the straight portions.

2,321,896
COPOLYMERS OF p-CHLOROSTYRENE
Edgar C. Britton and Walter J. Le Fevre, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application November 8, 1939, Serial No. 303,448
7 Claims. (Cl. 260—86)

1. The products of the conjoint polymerization of p-chlorostyrene and between about 0.1 and about 25 per cent of its weight of a compound selected from the class consisting of neutral unsaturated esters and ethers containing at least two ethylenic linkages.

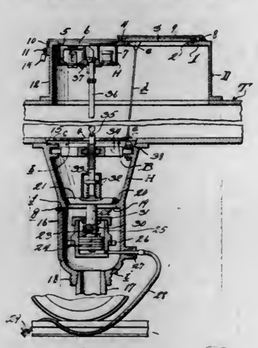
2,321,897
SYNTHETIC RESIN PLASTIC COMPOSITIONS
Edgar C. Britton and Gerald H. Coleman, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 15, 1941, Serial No. 383,552
4 Claims. (Cl. 260—36)

1. A rubbery composition of matter comprising a benzene-insoluble glass-like co-polymer of styrene and, as a plasticizer therefor, between about 35 and about 50 per cent by weight of a compound of the formula

$$CH_3—CO—CH_2—CH_2—COO—R$$

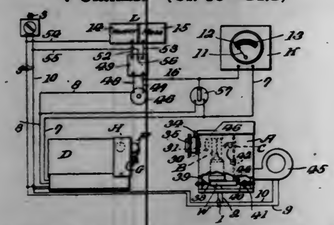
wherein R represents an aryloxy-alkyl radical.

2,321,898
TANK CAR
Joe A. Crista, Needles, Calif.
Application October 22, 1941, Serial No. 416,129
4 Claims. (Cl. 137—21)



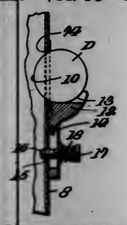
1. A valve structure comprising a substantially vertically disposed housing for the passage of fluid therethrough, the lower end of the housing being open for discharge therefrom, said housing having an internal valve seat at its central portion, and a valve member within the housing movable toward and from the seat, the wall of the housing below the valve seat being provided with a filling opening and with a draining opening, said filling opening and draining opening being separate from the lower open discharge end of the housing, the filling opening being immediately adjacent to the valve seat and the draining opening being at the lower extremity of the housing and in close proximity to the lower open end of the housing, means for closing the filling opening, and means for closing the draining opening.

2,321,899
METHOD AND APPARATUS FOR DETECTING THE PRESENCE OF BLOOD IN EGGS
William D. Dooley, Springfield, Ohio
Application October 10, 1939, Serial No. 298,842
7 Claims. (Cl. 88—14.1)



1. The method of determining without breaking or impairing in any respect whatsoever or adding to or taking anything away from an egg whether blood is present as a part of the interior contents of the egg consisting in, projecting through the egg radiant energy waves of lengths including those of the characteristic absorption band of avian blood, providing an electric amplifying circuit and a source of electric current supply therefor, placing a radiant energy responsive cell which is responsive only to radiant energy in said specified band in said circuit to control by electrical conductance the passage of current through said circuit, allowing the energy waves which have passed through the egg to fall upon said cell, and then measuring by an instrument operated by the current permitted to flow in said circuit by said cell the energy output of said circuit.

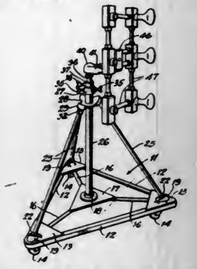
2,321,900
METHOD AND APPARATUS FOR GRADING EGGS
William D. Dooley, Springfield, Ohio
Application October 11, 1939, Serial No. 299,026
11 Claims. (Cl. 88—14.1)



1. In an egg grading machine, a light source and a radiant energy responsive element in spaced relation thereto, a vertically disposed wall between said light source and element and provided with an opening for the reception of a portion of an egg and to permit passage of radiant energy waves from said light source onto said element, said wall opening having a shape closely approximating the cross sectional shape of an egg on the longitudinal axis of the egg, a support for supporting an egg with its longitudinal axis parallel to the longer dimension of said wall opening so that a portion of the egg extends into said wall opening in a direction toward said element, said egg support being movably mounted on said wall for vertical movement toward and away from said opening in a direction transverse the longer dimension of the opening to permit eggs of varying cross sectional dimension transverse their longitudinal axis to be positioned with the greatest possible portion of the egg projecting through said opening, and quickly operable means for yieldably holding said egg support in any of its adjusted positions.

4. The method of determining by spectrum absorption analysis the quality of an egg without breaking or impairing the egg in any regard whatsoever, consisting in projecting through the egg radiant energy waves of lengths which will be absorbed by the thin or watery part of the egg white or albumen, finding the amount of absorption by the thin or watery part of the egg albumen of said radiant energy waves in said wave lengths, and then comparing said absorption finding with known standards of absorption of said lengths of radiant energy waves of eggs of known qualities.

2,321,901
COLLAPSIBLE DOLLY
William C. Eddy, Kenilworth, Ill., assignor to Balaban & Katz Corporation, Chicago, Ill., a corporation of Delaware
Application February 15, 1941, Serial No. 379,003
3 Claims. (Cl. 248—186)



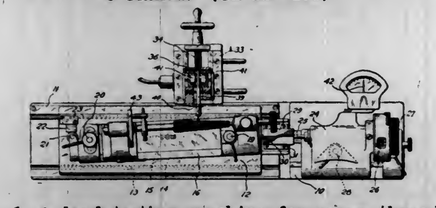
3. In a collapsible dolly equipped with a base and with a vertically adjustable shaft extending upwardly with respect to said base, a ball on said shaft, a bracket surmounting said ball, a socket in the bracket removably receiving the upper portion of the ball to permit a universal range of movement of said bracket with respect to said ball, a channel in the bracket adjacent the lower portion of the ball, a tongue slidably received in said channel with the end of the tongue adapted to be brought into engagement with the lower portion of the ball to secure the socket to the ball and to lock the bracket in fixed position with respect to the ball, means for moving said tongue in the channel to bring the same into engagement with the ball, and means for locking said moving means.

2,321,902
METHOD OF DETERMINING SCALE OF AERIAL PHOTOGRAPHS FOR MAP MAKING
Leon T. Eliel, Pasadena, Calif., assignor to Fairchild, Polley & Eliel, Inc., Los Angeles, Calif., a corporation of California
Application April 12, 1940, Serial No. 329,312
6 Claims. (Cl. 33—1)



1. A method of obtaining from an aircraft an aerial photograph that may be used for obtaining measurements of terrain below characterized by the employment of an object adapted to produce a photogenically perceptible signal upon impact with the ground, said method including the steps of: dropping said object to the earth from the aircraft; timing the duration of the fall of said object; photographing the terrain from the aircraft after said impact to obtain an image of the terrain including said photogenically perceptible signal; computing from the duration of said fall the vertical distance from the point at which the photograph is made to the point of impact of said object on the terrain; and computing the scale of the photograph from said vertical distance and the focal length of the camera.

2,321,903
SCREW THREAD LEAD TESTING MACHINE
Raymond S. Fox, West Hartford, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application July 28, 1941, Serial No. 404,287
3 Claims. (Cl. 33—199)



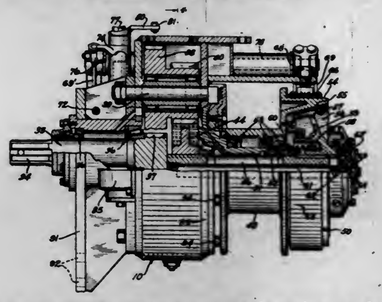
1. A lead testing machine for screw threads comprising in combination, a base, a carriage slidable thereon, means to support a screw-threaded member thereon with its axis in a plane parallel to the direction of movement of said carriage, means to adjust said screw threaded member angularly in said plane, means on said base to determine the longitudinal position of said table, a head adjustable transversely to the direction of movement of said work table and having limited resilient transverse movement, a work engaging finger flexibly mounted on said head for angular movements in the plane of the axis of the screw threaded member, and means to determine the oscillated position of said finger when in successive work engaging positions.

2,321,904
AERIAL TOY
Troy R. Frazier, Covington, Ky.
Application January 30, 1943, Serial No. 474,081
5 Claims. (Cl. 46—86)



1. An aerial toy comprising in combination, an elongated body portion including spaced sides and a rear wall, a weight secured to one end of said body portion for locating said weighted end foremost incident to the travel of said toy through the air, a pair of doors hingedly secured to said back wall, said doors when in a closed position providing an elongated housing concealing said rear wall, said doors when in an open position exposing said rear wall, a pair of arm members pivotally secured to said body portion remote from the weighted end thereof, said arms movable to a door engaging position for maintaining said doors in a closed position, and to a position out of engagement therewith, a weight secured to the free end of said arms, said arms adapted to be maintained in a door engaging position incident to upward travel of the toy through the air, said arms adapted to be swung out of a door engaging position incident to the start of downward travel of the toy, and means interconnecting each arm with an adjacent door, said means being operative upon movement of the arms away from a door engaging position for exerting an opening force on said doors.

2,321,905
WINCH ASSEMBLY
Henry C. French, Elm Grove, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application May 5, 1941, Serial No. 391,955
3 Claims. (Cl. 254—187)

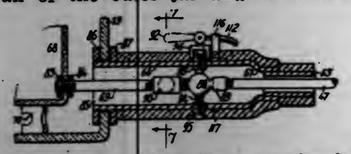


2. In a power control unit, a housing, a driven hollow drum shaft within the housing and extending out of one end thereof, means within the housing for transmitting rotation to said drum shaft, a fixed spindle through which an external portion of the drum shaft revolubly extends, an annular plate flange integral with an inner end portion of the spindle and closing an end portion of the housing, bolts removably securing said spindle flange to said housing end portion, a drum freely rotatably mounted on said spindle, anti-friction means between the spindle and drum, said drum having a cupped end head formed interiorly with a clutch surface and exteriorly with a brake surface, a clutch member splined on said drum shaft and yieldingly axially movable thereon and nested with the cupped end head of the drum for selective driving engagement with said clutch surface, a brake selectively engageable with said drum brake surface, a clutch operating rod extending through said drum shaft, and a retainer plate removably secured on the end portion of said rod and operatively engaging said clutch, release of said retainer plate and unbolting of the spindle plate flange permitting axial removal of the drum shaft and elements associated therewith including the clutch, the drum, the spindle, and some of the rotation transmitting means.

2,321,906
COFFEE DISPENSING APPARATUS
Blair W. Gair, Brooklyn, N. Y., assignor of thirty-three and one-third per cent to A. Jensenia Gair, and thirty-three and one-third per cent to Estella H. Gair, both of Kings County, N. Y.
Application June 6, 1941, Serial No. 396,847
12 Claims. (Cl. 53—3)

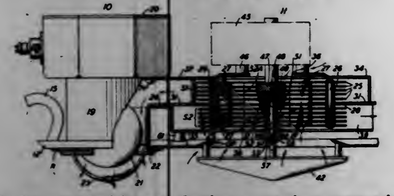
1. The combination with a device for making infusions of coffee comprising a double walled

chamber including an inner grindings receiving vessel and an outer vessel spaced from the first vessel and having a bottom discharge nipple, of a dispensing apparatus including a double walled container having an inner infusion receiving jar, an outer jar providing a fluid space around the first jar, a pipe leading from said nipple through the wall of the outer jar and communicating



internally with the inner jar, said pipe having thereon a discharge faucet; a container for heated fluid, a heat insulating casing surrounding the pipe between the container and the outer jar, said casing providing a fluid space around the pipe in communication with the fluid space between the jars, and means cooperating with said fluid container for heating the fluid therein.

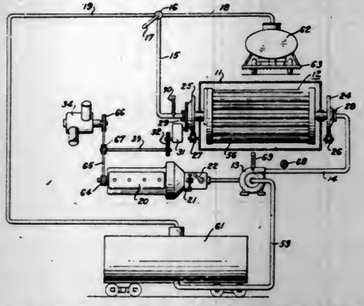
2,321,907
BLOWER DEVICE
Edgar W. Gent, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 396,027
2 Claims. (Cl. 230—129)



2. In an air blower device, a casing comprising two wall sections, a stationary plate for securely mounting said wall sections on each side thereof, said stationary plate having an opening, a rotatable element cooperating with said stationary element to form with said wall sections compartments, one of said wall sections having a bushing, a shaft having one of its ends secured to said rotary partition element and resting in an end thrust bearing in said bushing, a set of flat rings carried by said rotary partition on each side thereof for operation in said compartments, means in said bushing for adjustably holding said rotary element for rotation in a plane common to said stationary mounting plate, a motor mounted on the other of said wall sections with its driving shaft in position coaxial with the first-mentioned shaft, and resilient coupling means operatively connecting the first and second-mentioned shafts.

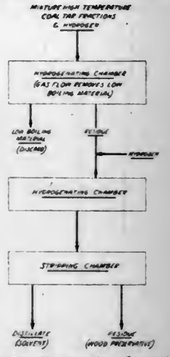
2,321,908
APPARATUS FOR PREHEATING AND HANDLING ASPHALT, HEAVY OIL, AND LIKE VISCOUS MATERIAL
Carl F. Gerlinger, Dallas, Oreg.
Application June 25, 1941, Serial No. 399,660
8 Claims. (Cl. 126—343.5)

5. In an apparatus for transferring asphalt, heavy road oil and other viscous material from a source of supply to a transporting truck, the combination of a rotatable circulation type heating retort, pump means for circulating the material to be heated through said retort, a prime mover for rotating said heating retort at a constant speed, and a changeable speed driving connection between said prime mover and said pump,



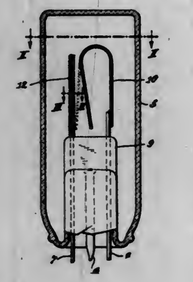
whereby the circulation of the material through said retort may be increased or decreased without changing the speed of rotation of said retort.

2,321,909
PRODUCTION OF SOLVENTS AND WOOD PRESERVATIVES
Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia
Application August 14, 1940, Serial No. 352,676
3 Claims. (Cl. 196—53)



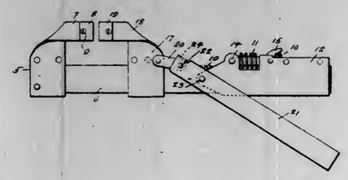
1. In the production of solvents and wood preservatives, the process which comprises: subjecting a mixture of high temperature coal tar fractions to the action of hydrogen at a pressure of at least 250 atmospheres, a temperature at least in the order of 375° C. and for such a length of time as to reduce coke residue; so carrying on the process in a continuous manner as to provide a differential flow between the hydrogen and the mixture of tar fractions, said hydrogen flow being sufficient to strip newly induced low boiling fractions from the material under treatment; subjecting the stripped residual material in entirety while yet under superatmospheric pressure to further hydrogen action at a temperature and pressure within the limits above named and for such a length of time as to provide newly formed oil which if distilled up to a temperature of about 205° C. will provide as a residual an oil of the wood preserving type boiling not more than about 10% at 210° C.; and dividing the treated residual to provide a relatively low boiling solvent and a relatively high boiling oil of the wood preserving type, said oil last named boiling not in excess of about 10% at 210° C.

2,321,910
TIME DELAY GLOW SWITCH
Robert F. Hays, Jr., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 23, 1941, Serial No. 416,172
7 Claims. (Cl. 250—27.5)



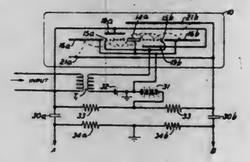
1. A gaseous electric device comprising an envelope provided with an ionizable medium therein and a pair of electrodes, one of which is a thermo-expansive electrode adapted to emit electrons to cause a glow discharge between said electrodes thereby heating the same with attendant movement of said thermo-expansive electrode into contact with the other of said electrodes to short-circuit the same and extinguish said discharge, and said thermo-expansive electrode being movable away from said other electrode upon cooling, and means independent of said electrodes for heating said thermo-expansive electrode for a short period of time following engagement of said electrodes to impart a slight time delay in the separation thereof upon cooling of said thermo-expansive electrode.

2,321,911
ADJUSTABLE CLAMP
Harold F. Heaton, Los Angeles, Calif.
Application July 29, 1941, Serial No. 404,557
4 Claims. (Cl. 144—303)



1. A quick-acting clamp, comprising a bar, teeth formed along one edge of the bar, a stationary jaw at one end of the bar, a removable jaw on the bar, a handle mounted for movement longitudinally of the bar, a pivoted shaft mounted on the handle, a worm on the shaft and adapted to engage the teeth of the bar whereby the handle is adjusted along the bar, means for holding the bar and worm in their active positions with respect to the teeth, said shaft adapted to swing upwardly disengaging the worm and teeth whereby the handle may be slid along the bar, a lever mounted on the handle, links connecting the lever and movable jaw, and said lever adapted to operate the jaw independently of the handle.

2,321,912
ELECTRON DISCHARGE APPARATUS
Carl A. Hedberg, Roselle Park, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 24, 1941, Serial No. 380,113
12 Claims. (Cl. 250—175)



1. Electron discharge apparatus comprising a cathode, an apertured signal control electrode having opposite surfaces, means adjacent the region between said cathode and one surface of said control electrode for producing in said region magnetic and electric fields mutually related to direct electrons emanating from said cathode along curved paths having termini immediately adjacent said one surface, and a target electrode opposite the other of said surfaces.

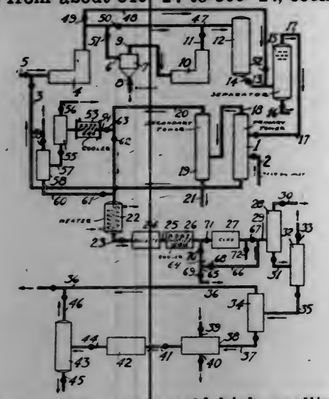
2,321,913
HYDROGENATION TREATMENT OF OILS AND FATS
Douglas J. Hennessy, Teaneck, N. J., assignor to Vitamoil Laboratory, Inc., a corporation of New Jersey
No Drawing. Application December 6, 1940, Serial No. 368,857
4 Claims. (Cl. 260—420)

1. In the treatment of marine oils to remove fish odors and flavors and to produce an oil product having a bland flavor and substantially free from hydrogenation flavor, the steps which comprises subjecting the oil to catalytic hydrogenation while maintaining temperature and pressure conditions such as to promote elimination of fish odors and flavors, continuing this treatment until the fish odors and flavors are substantially removed and finally subjecting the so deodorized and deflavored oil to a further hydrogenation treatment carried on at relatively low temperature and in the presence of activated carbon, whereby to produce a final product substantially free from undesirable fish odors and flavors and free from hydrogenation flavor.

2,321,914
REFINING PROCESS
Amiot P. Hewlett, Summit, and Gerald E. Phillips, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 27, 1939, Serial No. 276,080
3 Claims. (Cl. 196—96)

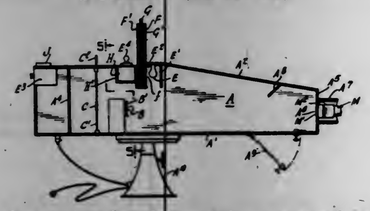
1. Process for the production of high quality, high octane number motor fuels comprising cracking a petroleum oil in the vapor phase at a pressure in the range below about 60 pounds gage and at a temperature in the range from about 1100° F. to 1400° F., passing cracked petroleum fractions boiling in the gasoline range through bauxite at a temperature in the range from about 800° F. to 850° F., then passing said bauxite

treated oil through clay at a temperature in the range from about 340° F. to 500° F., cooling said



petroleum oil to secure said high quality motor fuels.

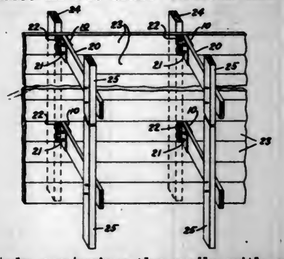
2,321,915
GLARE METER
Henry R. Higley, Pittsfield, Mass.
Application February 20, 1942, Serial No. 431,653
2 Claims. (Cl. 88—20)



1. Apparatus for determining an eyeglass lens to compensate for abnormal glare sensitiveness in a person and which includes, in combination, a compartment having a viewing aperture, a dazzle source of illumination in the compartment located in the line of vision of the person, object means in the compartment likewise in said line of vision but located so as not to obstruct the person's view of the dazzle source, means including a second light source for adjusting the illumination of the object means until the light reflected therefrom is sufficient to render the same visible to the person despite the presence of the dazzle source, a light meter for measuring the intensity of said second light source, and means for interposing lenses having different light absorbing properties between said second light source as adjusted and the light meter to determine a lens that will give a reading of the meter which is normal for the person undergoing test, said viewing aperture being located upon the longitudinal center line of the apparatus and sized to restrict the test to one eye of a person at a time.

2,321,916
SCAFFOLD LEDGER BRACKET
Fred O. Ingerman, San Francisco, Calif.
Application November 18, 1941, Serial No. 419,557
2 Claims. (Cl. 304—32)

1. A scaffold ledger support comprising an open ended channeled member having sides and an integral bottom portion connecting the sides adapted to receive a wooden member, a plurality of axially registered apertures in the sides of the member, the apertures in one of the sides being substantially larger in diameter than those in the opposite side, whereby nails may be driven through the sides and a wooden member supported by the channeled member by entering the smaller holes in the sides without the necessity

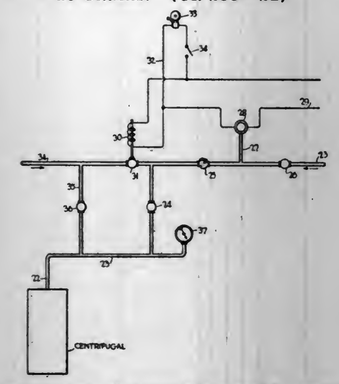


of absolutely centering the nails with respect to the larger holes, a flange bent outwardly at an angle from the edge of one of the sides of the channeled member, a plurality of bayonet type slots in said flange, and a slotted projection on the bottom portion bent downwardly therefrom at substantially a right angle thereto.

2,321,917
METHOD OF ANNEALING
Howard F. Jenkins and Benjamin F. Jenkins, Jeannette, Pa.
No Drawing. Application January 27, 1942, Serial No. 428,388
4 Claims. (Cl. 148—14)

1. The method which comprises applying a mixture that contains borax and boric acid to a steel bar or the like that is heated to such temperature that the mixture will fuse sufficiently to form a coating on the bar, but at a temperature below the melting point of borax, and thereafter subjecting the bar to annealing temperatures.

2,321,918
CENTRIFUGAL SEPARATING METHOD AND APPARATUS
Leo D. Jones, Philadelphia, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application December 31, 1941, Serial No. 425,050
10 Claims. (Cl. 233—21)



10. A process of separating solids from liquid which comprises, feeding a mixture of solids and liquid to a centrifugal rotor, discharging the solids peripherally from the rotor in the form of a sludge while separately discharging the liquid from the rotor, discontinuing said feeding of said mixture and immediately feeding an auxiliary and different liquid into the separating space of the rotor at a rate in excess of the discharge capacity of the sludge discharge outlets after discontinuance of feed of the material to be treated to the rotor, and discontinuing the driving of said rotor during feed of said auxiliary liquid thereto, to maintain a sufficient depth of liquid in said rotor during continued rotation thereof after discontinuance of feed of material to be treated to said rotor and until said rotor has substantially reached a state of rest to avoid vibration of said rotor.

2,321,919
CHIMNEY VENTILATOR OR COWL
Victor J. Kennedy, Kahoka, Mo.
Application December 28, 1940, Serial No. 372,153
6 Claims. (Cl. 98—80)



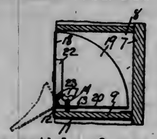
1. A device of the character stated, comprising a flue pipe, means forming a top in spaced relation with the top end edge of the pipe, said top and the adjacent edge of the pipe being constructed and arranged to form a spirally extending outlet opening, means supported by the pipe and connected with the top forming a spiral downwardly opening channel into which the first opening discharges, the said spiral channel having its upper end opening upwardly above the top of the pipe.

2,321,920
MEASURING TAPE
Adolf W. Keuffel, Montclair, and Donald E. Whitlock, Orange, N. J., assignors to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application October 6, 1939, Serial No. 298,338
8 Claims. (Cl. 33—137)



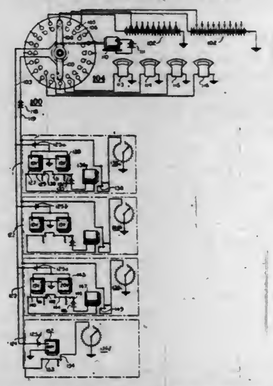
1. A woven measuring tape comprising organic edge warp threads, certain of the intermediate warp threads being organic fibre threads, other of the intermediate warp threads being glass fibre threads, all warp threads being substantially straight, a filler of sinuous path which retains the warp substantially straight, a coating on the tape and graduations and numerals depicted on the tape.

2,321,921
MEDICINE CABINET ATTACHMENT
Robert H. Lathrop, Niantic, Conn.
Application April 10 1940, Serial No. 328,889
7 Claims. (Cl. 312—193)



5. A separate article of manufacture comprising an attachment for a cabinet having a main compartment above a shelf thereof, said attachment including a front plate and side pieces projecting backwardly from opposite ends of said plate substantially to the rear wall of the cabinet to constitute an auxiliary compartment-forming structure upon the shelf of said cabinet, a base member, means for removable attachment of said base member to the shelf of said cabinet, and a hinged connection between said base member and said compartment-forming structure for pivotal attachment of the latter to the base member.

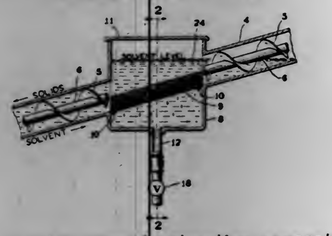
2,321,922
AUTOMATIC METER READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application October 18, 1940, Serial No. 361,801, now Patent No. 2,285,819, dated June 9, 1942. Divided and this application April 18, 1942, Serial No. 439,539
1 Claim. (Cl. 177—353)



In a telemetric system, apparatus for selectively closing at a central station a series of normally open local circuits each located at an outlying station, comprising a normally open switch and a normally closed switch arranged in series in each local circuit, a solenoid for each switch, said solenoids being operable upon energization thereof to open the normally closed switch and to close the normally open switch respectively, a selector circuit including a main channel connected to the central station and branch channels connected to the main channel in parallel relationship and each connected to and serving an outlying station, the solenoids of each outlying station being connected in parallel relationship in a respective branch channel, the solenoids of each outlying station being responsive to direct current impulses of different voltage characteristics for actuation thereof, the solenoids of certain successive alternate outlying stations being responsive to current impulses of different but progressively higher voltage characteristics for their actuation and the solenoids of other successive alternate outlying stations also being responsive to current impulses of different but progressively higher voltage characteristics for their actuation, the solenoids of said first alternate series of outlying stations being responsive to unidirectional current of one polarity and the solenoids of said second alternate series of outlying stations being responsive to unidirectional current of opposite polarity, and means at the central station for successively ap-

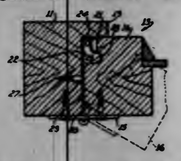
plying current impulses of progressively increasing voltage characteristics and of opposite polarity alternately to the main channel.

2,321,923
APPARATUS FOR EXTRACTION
Arthur A. Levine and Roy Jackson Dent, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 26, 1940, Serial No. 331,682
1 Claim. (Cl. 23—270)



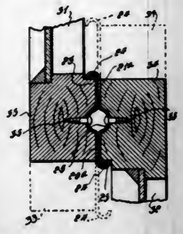
In a counter-current extraction apparatus for extracting a desired constituent by means of a solvent therefor from solid particles having a specific gravity less than the solvent, an inclined tube leading from and to a filtering chamber interposed in the upper end thereof, a conveyor in said tube extending through said chamber and arranged to convey the solid particles downwardly through said tube against upwardly flowing solvent, a filtering screen arranged in said chamber to form a continuation of the bottom portion of said tube, a solvent outlet conduit from said chamber below said screen, said conduit and chamber being so arranged and constructed as to provide a solvent trap, whereby the solvent level in said chamber is maintained above the filtering area of the screen.

2,321,924
WEATHER STRIP
Carlo V. Mancini, Stratford, Conn.
Application September 30, 1940, Serial No. 359,112
2 Claims. (Cl. 20—69)



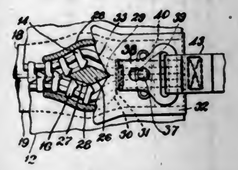
1. In a window construction, a frame including a jamb, a sash including a rail hinged to said jamb, a metal weather strip on said jamb and including a base plate secured to the jamb and extending longitudinally thereof, a lip along one longitudinal edge of the base plate and embedded in the jamb, an arm integral with and supported from the other longitudinal edge of the base plate by an open curved portion of the metal of said strip whereby the arm is yieldingly supported in spaced relation to the base plate, said arm inclining outwardly from the open curve at an acute angle to said base plate, a bead on the outer longitudinal edge of said arm, said rail cut out at a corner through a side and an edge to receive said arm when the sash is closed, and said rail having a groove in the bottom of the cut out through its edge and receiving said bead when the sash is closed.

2,321,925
WEATHER STRIP
Carlo V. Mancini, Stratford, Conn.
Original application September 30, 1940, Serial No. 359,112. Divided and this application March 13, 1941, Serial No. 383,101
1 Claim. (Cl. 20—69)



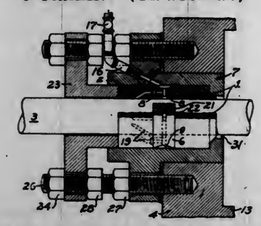
In a window construction, relatively movable sashes having meeting rails including opposing faces located closely adjacent one another when the sashes are both in closed position, a metal weather strip on each of said faces for sealing the joint between them when the sashes are closed, each of said weather strips including an elongated metal strip having an intermediate longitudinally extending hollow bead of substantially the length of its strip and snugly embedded in a groove in the opposing face of its rail to establish a seal between the strip and its rail, headed means passing through the bead portion of said strips and into the respective rails and securing the strips to their rails with the heads of said means in the hollows of said strips, each of the longitudinal edge portions of said strips bent in opposite directions forming channels with the channel at one edge of each strip larger than those at the other edge thereof, said channel of less size on each strip of a size to fit in the channel of larger size of the other strip when said sashes are closed, and said strips secured on their rails with the free edge portions of the strips at the channels of less size against a second face of the rail to which its strip is secured.

2,321,926
HERMETIC SEPARABLE FASTENER
Davis Marinsky and Louis H. Morin, Bronx, N. Y.
Application September 5, 1941, Serial No. 409,634
15 Claims. (Cl. 24—205)



15. In hermetic fasteners employing stringers comprising a pair of link chains, sealing means disposed longitudinally of the stringers intermediate the chains and beyond end of links thereon, a slider for coupling and uncoupling said stringers, said slider having projecting members engaging the link chains and said sealing means to provide a seal around the slider when the slider is in the position coupling the stringers, and the end of the stringers engaged by the slider when in closed position having other sealing means cooperating with predetermined projecting members of said slider in effecting said seal.

2,321,927
PACKING DEVICE
Carl J. McCoy, Orcutt, and William O. Butler, Santa Maria, Calif.
Application September 9, 1941, Serial No. 410,176
6 Claims. (Cl. 286—27)

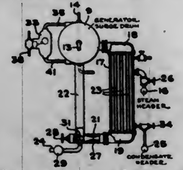


1. A packing device for a piston rod, comprising a resilient packing encircling the rod and normally having a chamber therein collapsible upon movement of the rod therethrough, means for supplying a liquid to the chamber, a passage in the packing for conducting liquid from the chamber onto the rod under pressure produced when the chamber is collapsed, and means for preventing return of the liquid to the source of supply.

2,321,928
RECOVERY OF TOCOPHEROL (VITAMIN E) AND VALUABLE BY-PRODUCTS FROM VEGETABLE OILS
William Douglas McFarlane, Ste. Anne de Bellevue, Quebec, and William Ernest Parker, Montreal, Quebec, Canada, assignors to Ogilvie Flour Mills Company Limited, Montreal, Quebec, Canada, a Dominion company
No Drawing. Application May 8, 1941, Serial No. 392,586. In Canada January 7, 1941
5 Claims. (Cl. 260—333)

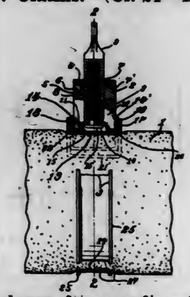
1. An improved method of recovering tocopherol (vitamin E) from vegetable oils which comprises treating a solution of a vegetable oil in an organic solvent with cold concentrated sulphuric acid, separating the organic solvent-phase and then evaporating the solvent to leave an oil which is rich in tocopherol content.

2,321,929
ABSORPTION REFRIGERATION SYSTEM
Walter R. McGinnis, York, Pa., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Original application June 13, 1939, Serial No. 278,949. Divided and this application May 22, 1942, Serial No. 444,072.
11 Claims. (Cl. 62—119)



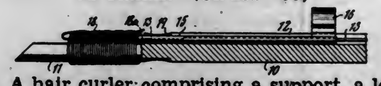
10. In an absorption refrigeration system of the ammonia-water type, a generator comprising a surge drum; means for supplying strong aqua to said drum and discharging weak aqua from said drum; a heater for said drum and having spaced top and bottom headers; means connecting the top header to the upper part of said drum and the lower header to the bottom of said drum; a plurality of riser tubes connecting said headers; and means for supplying heating medium into thermal contact with said riser tubes to cause circulation of aqua from said drum to said lower header and upwardly through said riser tubes to said top header and drum.

2,321,930
HOSE CLAMP
John A. Murray, Baltimore County, Md., assignor to Murray Corporation, a corporation of Maryland
Application May 27, 1942, Serial No. 444,627
7 Claims. (Cl. 24—19)



5. A hose clamp for a soft, self healing hose, said clamp having a continuous tension band partially encircling the hose along an arc in excess of 180° the opposite end portions of the band being tangent to the circumference of the hose at the ends of said arc and converging toward a nut to which they are secured, a cover plate overlying the hose and extending from one tangent point to the other completing the encirclement of the hose, a bridge overlying the cover plate and having a raised portion at the center of the cover plate which is concave toward the latter, and a screw having a swivel and thrust engagement with said raised portion and being threaded through said nut to apply tension to said band.

2,321,931
HAIR CURLER
Victor M. Newman, New York, N. Y., assignor to Max M. Newman, New York, N. Y.
Application June 4, 1942, Serial No. 445,692
11 Claims. (Cl. 132—33)



1. A hair curler comprising a support, a lower mandrel member, an upper mandrel member slidable in said support, means on said upper mandrel member to retain a hair pin thereon by embracing one leg thereof and stop means for intercepting said leg of the hair pin as said upper mandrel member is slid into said support.

2,321,932
HAIR CUTTING IMPLEMENT
Barney R. Nyhagen, New York, N. Y.
Application July 21, 1938, Serial No. 220,419
3 Claims. (Cl. 30—43)

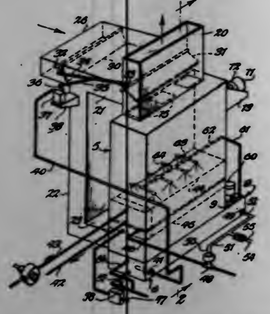
3. In a dry shaver, a cutter head including a driven oscillatory cutter element having a radially disposed blade and a perforated arcuate cutter element mounted for free oscillatory movement with reference to and independent of the driven cutter element and against the outer edge

of the blade, said arcuate cutter element being adapted for rolling engagement with the skin to



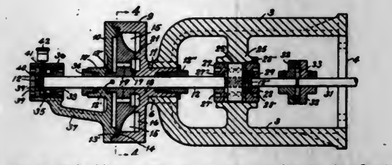
receive through the perforations thereof the hair for severance by the blade.

2,321,933
APPARATUS FOR MAINTAINING THE DESIRED TEMPERATURE OF LIQUIDS
Martin H. Olstad, Bayside, and Allan E. Williams, White Plains, N. Y., assignors to Niagara Blower Company, New York, N. Y., a corporation of New York
Application August 19, 1942, Serial No. 455,394
7 Claims. (Cl. 257—4)



2. A heat exchange device for maintaining a fluid in a selected temperature range determined by the character of the fluid by cooling a stream of said fluid and preventing the temperature thereof from falling below said temperature range, comprising means forming a chamber having an air inlet and an air outlet, a fan arranged to force a stream of air from said inlet, through said chamber and out through said outlet, a cooling coil arranged in the stream of air passing through said chamber, means for discharging and distributing a stream of water over said cooling coil to wet the exterior of said cooling coil and to evaporate and absorb heat therefrom, means for continuously conducting the said stream of fluid to be cooled through said cooling coil, said streams of air and water being normally heated through heat derived from said stream of fluid passing through said cooling coil, means for applying heat to said stream of fluid, and thermostat means responsive to the temperature of one of said streams to adjust said means for applying heat to prevent the temperature of said fluid in said cooling coil from falling below said temperature range.

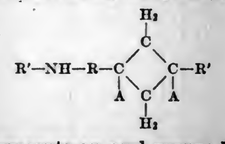
2,321,934
ROTATING PUMP
Argimiro Rodriguez Pato, Habana, Cuba
Application March 12, 1941, Serial No. 382,983
In Cuba April 26, 1940
2 Claims. (Cl. 103—96)



1. In a rotating pump, a pump body including a removable cover, a revolving rotor within said pump body presenting a plurality of radial blades on a substantially curved surface, an intake and a discharge pipe for the liquid, the inner surface of said pump body facing said rotor and the corresponding rotor face each having a groove, said grooves registering with each other and providing a chamber the cover being spaced from the other face of the rotor to provide a chamber, passages in the body of the rotor connecting said chambers, an annular recess in the side of the pump body and a peripheral lip on the rotor movably lodged in said annular recess.

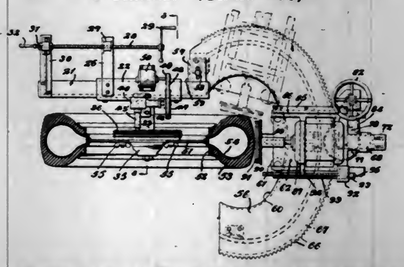
2,321,935
AMINO DIARYL DIALKYL CYCLOBUTANE
Philip T. Paul, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 30, 1941, Serial No. 391,143
5 Claims. (Cl. 260—576)

1. A compound having the general formula



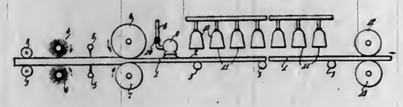
where R′ represents an aryl group; R is an arylene group; and A is an alkyl radical.

2,321,936
TIRE SHOE BUFFING MACHINE AND THE LIKE
Randolph R. Pollock, Lawrenceburg, Tenn.
Application April 11, 1941, Serial No. 388,172
5 Claims. (Cl. 29—76)



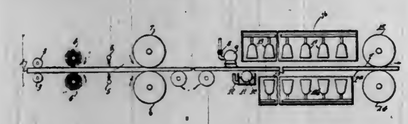
1. A machine of the character described comprising a substantially C-shaped guide presenting an opening upon one side, a carriage slidable upon the guide, an abrasive device mounted upon the carriage and slidable thereon transversely of the path of movement of the carriage upon said guide, means to move the carriage on the guide, means to fix the abrasive device at adjusted positions on the carriage, a tire mounting consisting of a rectilinear guide arranged parallel to a symmetrical axis of the C-shaped guide, a revoluble wheel mounted thereon in a plane coincident with said symmetrical axis, means to rotate the wheel, and means to move said mounting from said rectilinear guide to present the wheel through the opening of the C-shaped guide, for the purpose described.

2,321,937
COATED PRODUCT AND METHOD OF MAKING SAME
Robert G. Quinn, Bridgewater Township, Somerset County, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application December 21, 1939, Serial No. 310,379
1 Claim. (Cl. 117—93)



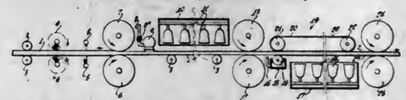
A process for producing coated fiber board comprising, continuously advancing the board in a straight path while pre-sealing the fiber board, applying to a surface of the board an aqueous paint dispersion coating, said paint incorporating approximately 7% by weight of bonding agents including ureaformaldehyde and protein, and approximately 1% plasticizer, rapidly drying and setting the coating to approximately 60% dryness by exposing the coated surface of the advancing board to infra red radiation emitted from a source that is spaced from, but adjacent to, the coated surface, and completing the drying and hardening operation by hot ironing to smooth said coating.

2,321,938
COATING PROCESS
Robert G. Quinn, Bridgewater Township, Somerset County, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application June 19, 1940, Serial No. 341,263
2 Claims. (Cl. 117—65)



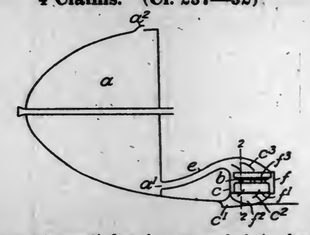
1. A process for producing coated fiber board comprising, supporting said board at horizontally spaced points while continuously advancing the board; while the board is advancing between supporting points applying to the under surface thereof an aqueous paint dispersion coating containing a heat hardenable binder comprising a heat-polymerizable resin and a protein, and a plasticizer, and rapidly drying, setting and hardening the coating to approximately 60% dryness by exposing the coated surface to infra red radiation before contacting the coating with any solid supporting surface; and completing the drying, setting, hardening and smoothing of the coating by hot ironing.

2,321,939
PROCESS FOR COATING FIBROUS SHEETS
Robert G. Quinn, Bridgewater Township, Somerset County, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application July 3, 1940, Serial No. 343,716
3 Claims. (Cl. 117—66)



1. A process for coating rigid fiberboard comprising, supporting the under surface of said board at spaced points while continuously advancing the board therebetween, applying a coating comprising an aqueous dispersion of a thermo-setting resin to the under surface of the board and drying and hardening said coating while the board is advancing from one supporting point to another by heating said under surface, and preventing said board from sagging during the coating and heat-curing treatment by application of suction to the upper surface of said board.

2,321,940
HEATING SYSTEM
John Hogg Robertson, London, England
Application July 15, 1941, Serial No. 402,519
In Great Britain December 9, 1940
4 Claims. (Cl. 237—32)

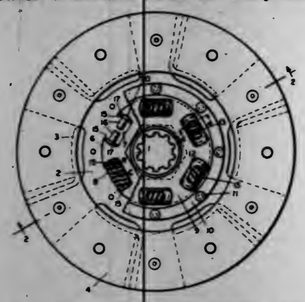


1. In an aircraft having a point to be heated, the combination of a catalytic heater including a sloping element and a reflector overlying said element with a narrow air-space therebetween for flameless combustion of liquid fuel, an enclosure for said heater, said enclosure having an inlet and an outlet communicating through said narrow air-space, means for forcing a flow of oxygen into said enclosure inlet for maintaining combustion in said air-space, and means for conveying the combustion gases from said enclosure outlet to the said point to be heated.

2,321,941
CLUTCH PLATE
Otto Rose, Cleveland, Ohio, assignor to Ira Saks
Application November 5, 1941, Serial No. 417,925
9 Claims. (Cl. 192—68)

1. In a clutch plate having a disc body and a flanged hub rotatably mounted with respect thereto, the combination of coil compression springs for transmitting torque between said disc body and said hub, and separate seating means for each end of said springs, said seating means having an inner circular portion presenting a flat surface for contacting said spring ends and an outer circular portion presenting a convex bearing surface for contacting said disc body and the flange of said hub, and a shank portion projecting from said circular portion into the interior of said spring, the length of said shank

portion on each of said seating means being less than one-half the normal length of said springs but greater than one-half the fully compressed

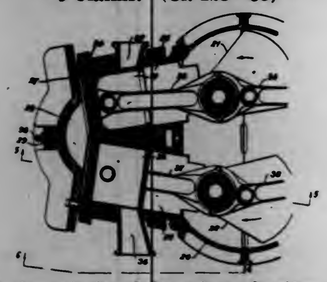


length thereof whereby the opposed ends of said shank portions are adapted to contact each other to limit the compressive movement of said springs.

2,321,942
POLYMERIC MATERIAL
Henry S. Rothrock, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 14, 1940, Serial No. 361,188
4 Claims. (Cl. 260—78)

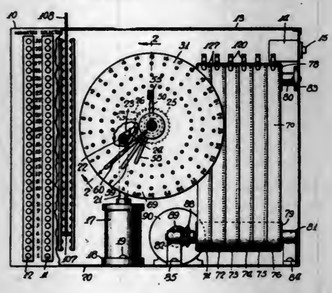
1. A process for making polymers which comprises heating in the presence of a metallic drier an ester of an unsaturated polycarboxylic acid and an acyclic and completely aliphatic monounsaturated monohydric alcohol in which all the carboxylic groups are esterified by said alcohol, and in which the carbinol group is attached only to a saturated carbon atom.

2,321,943
INTERNAL COMBUSTION ENGINE
Achille Charles Sampietro, Coventry, England
Application June 1, 1940, Serial No. 338,292
In Great Britain June 7, 1939
9 Claims. (Cl. 123—53)



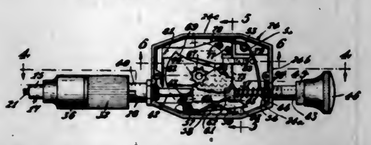
5. A two-stroke internal-combustion engine including a plurality of pairs of cylinders, each pair having a common combustion chamber, and one cylinder of each pair having an exhaust port while the other has a scavenging port, pistons in said cylinders controlling said ports, two crankshafts actuating respectively said exhaust-controlling pistons and said scavenging-controlling pistons, gearing constraining said crank shafts to operate with a phase relationship such that the exhaust-controlling piston of each pair leads the scavenging-controlling piston, means for introducing through said scavenging ports air in excess of that required for combustion for the purpose of scavenging and thereafter supercharging said cylinders, control means operable for temporarily boosting the supercharger pressure, a fuel-injector in each of said combustion chambers, metering and distributing means for causing said injectors to operate during the respective compression strokes, spark ignition means for igniting the fuel so injected and means associated with said gearing and capable of increasing the phase displacement of said pistons and thereby reducing the compression ratio of said pairs of cylinders in response to increase in the supercharging pressure.

2,321,944
INFORMATION DISTRIBUTION SYSTEM
Mack L. Sanders, Brooklyn, N. Y.
Application April 9, 1942, Serial No. 438,349
4 Claims. (Cl. 179—6)



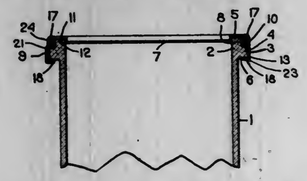
1. An information distribution system comprising a remote selector and a central information source, connections therebetween for transmitting a selection from the selector to the source and then a plurality of sound tracks, means for operating said sound tracks continuously and means for causing said sound tracks to transmit information successively to the selector.

2,321,945
CAMERA ATTACHMENT
Morris Schwartz and William Castedello, Stamford, Conn., assignors to The Kalart Company, Inc., Stamford, Conn.
Application July 24, 1941, Serial No. 403,819
10 Claims. (Cl. 67—29)



2. In a device for operating a camera shutter and a photoflash lamp in timed relation to each other, a cable release extending from said device to said camera shutter, a plunger rod, a sliding member on said rod, a spring and a latch associated with said member, manually operable means for operating said plunger rod and during the operation thereof a first predetermined distance to store energy in said spring and move said sliding member into latching engagement with said latch, means operative by said manually operable means on the movement of said plunger rod more than said first predetermined distance to directly trip said latch whereupon the energy stored in said spring during the first predetermined movement of said plunger rod is effective to operate said sliding member to further operate said plunger rod and cable release to trip said camera shutter, a source of electrical energy, means operated by said sliding member concomitantly with the said last operation of said plunger rod to complete a circuit from said source of electrical energy to said photoflash lamp, a rotary inertia absorbing means including a flywheel and a pinion, means including teeth on said slidable member and said pinion for operating said inertia means by said slidable member and means including said inertia absorbing means for effecting the circuit closing operation and the shutter tripping operation in definite timed relation to each other.

2,321,946
CONTAINER
Harry Sebell, Marblehead, Mass., assignor of one-half to Arthur H. Parker, Lexington, Mass.
Application March 19, 1942, Serial No. 435,321
3 Claims. (Cl. 220—61)



1. A container comprising a container body having an exterior circumferential rib adjacent its top, a closure member provided with a peripheral skirt which fits the outer wall of the body above the rib and which terminates at its lower edge in an outwardly directed bead, said closure member having integral therewith a hinge-forming tab which extends downwardly past the rib, and a retaining band encircling and tightly fitting said rib and clamping said tab thereto, the upper edge of the band being formed with an inwardly directed bead which overlies the bead of said skirt and the lower edge of said band together with the lower end of the underlying hinge-forming tab being bent inwardly underneath the rib, said band being provided between its top and bottom edges with a tear strip portion which can be torn out when the container is to be opened, the hinge-forming tab which remains clamped to the rib after the tear-out strip has been removed constituting a hinge for the closure member.

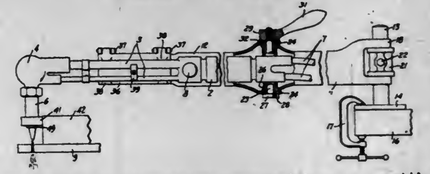
2,321,947
MANUFACTURE OF SOAP
Leopold Sender, Philadelphia, Pa., and James H. Wilson, West Roxbury, Mass., assignors, by direct and mesne assignments, to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application April 23, 1941, Serial No. 389,888
19 Claims. (Cl. 260—412.5)

1. In the separation of insoluble impurities from a soap nigre containing free alkali, the process comprising adding a source of acid to said nigre and reacting the acid with the free alkali of the nigre until the quantity of said free alkali is substantially reduced, and thereafter removing insoluble impurities from the acid treated nigre, the reaction between the acid and nigre constituents being conducted in such a manner as to avoid substantial splitting of the soap of the nigre.

2,321,948
PROTECTIVE COATING ON MAGNESIUM
Roy Shawcross, Salina, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application August 2, 1940, Serial No. 350,091
7 Claims. (Cl. 204—56)

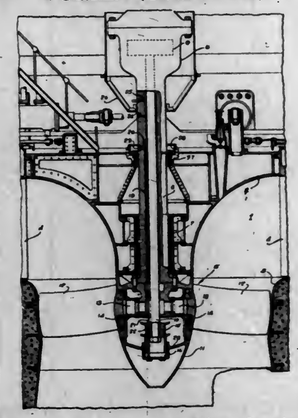
1. A method for producing a protective coating on the surface of an article of magnesium which comprises treating said surface with an aqueous solution containing between about 1 and about 10 per cent of at least one alkali metal chromate and between about 10 and about 60 per cent of basic aluminum nitrate, said basic aluminum nitrate containing excess alumina in an amount between 1 and about 60 per cent forming a complex with said aluminum nitrate.

2,321,949
CUTTING APPARATUS
Andrew Ralph Sorensen, San Francisco, Calif.
Application April 20, 1942, Serial No. 439,784
4 Claims. (Cl. 266—23)



1. Cutting apparatus comprising a cutting torch, an arm, a fixed pivot for said arm, a second arm pivotally connected to the first arm, a plate hingeably connected to the second arm, and means for mounting the torch on the plate.

2,321,950
ROTARY HYDRAULIC MACHINE
Robert E. Brunswick Sharp and Harry Francis, Jr., Philadelphia, Pa., assignors to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application July 27, 1940, Serial No. 347,818
1 Claim. (Cl. 253—117)



A rotary hydraulic machine having an adjustable blade runner provided with a hollow hub whose walls have bearings and adjustable blade shafts journalled therein and said hub having a central support in which the inner ends of said shafts are journalled comprising, in combination,

a shaft on which said hub is supported, a passage extending axially through said shaft to a lateral opening therein, said central support having an axial opening, a pipe connected to the lower end of said passage and extending substantially straight through said axial opening for the entire axial length of said central support to the lower portion of said hub, and means forming a second passage extending axially through said shaft to said hub whereby water may be forced from said hub through one of said passages when sufficient oil pressure is supplied through the other of said passages.

2,321,951

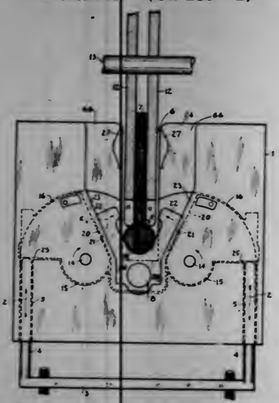
DEVICE FOR THE CONTINUOUS FASTENING OF SLIDE FASTENER ELEMENTS ON SLIDE FASTENER BANDS

Albert Süsskind, Lugano, Switzerland

Application January 19, 1940, Serial No. 314,630

In Switzerland January 11, 1939

4 Claims. (Cl. 153—1)



1. A machine for attaching Zipper hooks to their band by bending the arms of said hooks around a bead of said band, said machine comprising, in combination, means for bracing said bead from the side of the band opposite to the side to which the hook is to be attached, a slide, a V-shaped receiver connected with said slide and conformed to and adapted to receive and support an open hook with its arms pointing to said side, members of said receiver, adapted, in the beginning of said bending, to snugly overlap both broad sides of said arms over substantially the full length of said arms, said members at least on one of these broad sides consisting of converging flanges, means for delivering a hook, broadside ahead, into a first position in front of but free of overlapping by said flanges, and means for moving said slide to overlap said arms by said flanges, and to seat said hook upon said bead by pressure exerted directly upon the arms of said hook, and to bend said arms around said bead by continuance of said pressure.

2,321,952

PACKAGE

William H. Taylor, Pawtucket, R. I., assignor to Crown Fastener Corporation, Warren, R. I., a corporation of Delaware

Application November 4, 1939, Serial No. 302,822

1 Claim. (Cl. 206—78)

A package comprising a flat paper support, an article detachably secured to said support, a wrapping of transparent sheet material enclosing said support and article, said support and wrapping both being weakened along corresponding and adjacent lines extending across the support adjacent one end thereof, said weak-



ened lines forming a tab at that end of the support, and data on said tab descriptive of said article, whereby said tab may be readily detached from said support and retained as a record of the sale of said article.

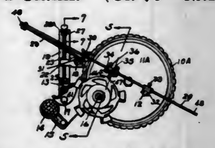
2,321,953

LAWN MOWER SHARPENER

James R. Tedd, Willamette, Oreg.

Application December 27, 1940, Serial No. 371,973

1 Claim. (Cl. 76—82.1)



In a precision grinder for lawn mowers of the types having a brace bar, a stationary cutter bar, and a plurality of curved blades rotating to engage the cutter bar; a rigid guide bar, means for securing said guide bar in exact parallelism with the axis of rotation of the curved lawn mower blades and the axis of the brace bar in a position so that the point of sharpening is substantially in the plane passing through the axis of the guide bar and the axis of the brace bar, and a file-holding assembly slidable on the brace bar of the mower and on said rigid guide bar, said assembly including guide means engaging the two parallel bars for holding the assembly normal to its line of sliding movement as the file engages the cutting edges of the curved blades, whereby the bearing faces of the guide means may also lie close to said plane, thus avoiding long stems for the guide means.

2,321,954

SPRING WHEEL

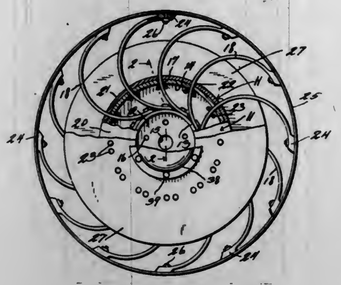
Edgar R. Thorsness, Worthington, Minn.

Application June 19, 1942, Serial No. 447,693

4 Claims. (Cl. 152—86)

4. A spring wheel embodying a hub comprising two concentrically arranged drums having telescopically joined peripheral flanges, said flanges being radially spaced a substantial distance from the axis of the drums, a plurality of resilient spokes having their inner ends secured to one of

the drums between said axis and the overlapping flanges and extending outwardly through guide slots in the flanges, and a non-rigid tire encir-



cling the outer ends of the spokes and having the latter joined thereto, said non-rigid tire being flexible and deformable to contact with said resilient spokes in the absorption of the shock.

2,321,955

PLOTTING DEVICE

Arthur L. Thurston, Wantagh, and Beauregard Sweeney, Great Neck, N. Y., assignors to Cox & Stevens Aircraft Corporation, Mineola, N. Y., a corporation

Application April 14, 1942, Serial No. 438,966

4 Claims. (Cl. 33—79)

1. For use in association with a plotting surface, a plotting device including separate assemblies, one of which is adapted for attachment relatively to the plotting surface and the other of which is freely movable toward and away from the attached assembly; each said assembly comprising a mounting means and at least two gear elements, the gear elements of at least one said assembly being freely rotatable; and parallel rack bars connecting said assemblies and meshing each with at least one gear element of each assembly, said rack bars by their meshing engagement with said freely rotatable gear elements being adapted to admit of the movement of one said assembly toward and away from the other.

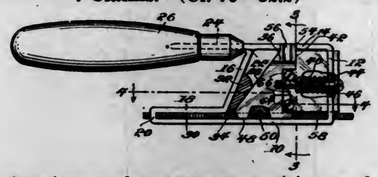
2,321,956

SCISSORS SHARPENER

Vincent Trapani and Harvey Raymond Krohn, Los Angeles, Calif.

Application October 6, 1942, Serial No. 460,978

7 Claims. (Cl. 76—82.2)



1. A scissors sharpener comprising a frame having a base, two end walls and a top wall, the end walls being each provided with an opening, a file extendible through said openings and lying on said base, said frame having an angular wall for guiding a blade of the scissors transversely of said file at an obtuse angle thereto, a spring-pressed body slidably guided by said base and said top wall and arranged for pressing the blade against said angular wall, said top wall having an extension in the nature of a prong, a handle attached to said prong, one of said end walls being provided with two slots, and plates secured to said body and slidably extending through said slots.

2,321,957

PRODUCTION OF GOODS OF OR CONTAINING RUBBER OR SIMILAR MATERIAL

Douglas Frank Twiss, Sutton Coldfield, and Philip Harold Amphlett, Erdington, Birmingham, England, assignors to Dunlop Rubber Company Limited, London, England, a British company

No Drawing. Application September 24, 1940, Serial No. 358,128. In Great Britain November 20, 1939

5 Claims. (Cl. 260—821)

1. A process for the production of goods of rubber or similar material from aqueous dispersions thereof containing zinc oxide which comprises incorporating zinc sulphite in said dispersions without coagulation and coagulating the thus treated dispersions by lowering the pH value.

2,321,958

FORMALDEHYDE ADDITION PRODUCTS AND THEIR PREPARATION

Joseph Frederic Walker, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 26, 1940, Serial No. 358,521

18 Claims. (Cl. 260—500)

10. A reaction product of formaldehyde with an alkaline earth metal sulfamate, said product being highly soluble in water and having been prepared under alkaline conditions.

2,321,959

FULL WAVE RECTIFIER

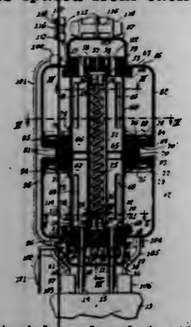
Ward W. Watrous, Jr., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 16, 1941, Serial No. 402,573

18 Claims. (Cl. 250—27.5)

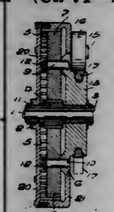
1. A full wave rectifier comprising an elongated cathode, an elongated shield enclosing said cathode, a ring of insulating material, surround-

ing a mid portion of said shield, two anodes having their edges spaced from each other on said



insulating material and substantially enclosing the two ends of said cathode.

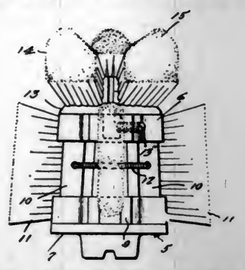
2,321,960
DRIVE CONTROL MECHANISM
James Stuart Wearn, St. Albans, Christchurch, New Zealand
Application December 10, 1940, Serial No. 369,508
In New Zealand December 18, 1939
3 Claims. (Cl. 74—280)



1. A drive control mechanism for rotatable driving and driven shafts including a sleeve mounted on and keyed to a shaft for rotation therewith, a sun wheel carried with said sleeve intermediate the ends thereof, a three part housing arranged concentrically about said sleeve, at least two parts of the housing being mounted for independent rotation with respect to one another, a ring gear arranged concentrically of said sun wheel and formed integral with the internal periphery of the third housing part in turn carried by one of the rotatable parts, a pair of oppositely arranged planet wheels meshing with the ring gear and the sun wheel and mounted on one of the rotatable housing parts, the housing parts completely enclosing the gears and containing a lubricant for the gears, means on one of the rotatable housing parts to restrain its rotation and a belt pulley mounted on the other of the rotatable housing parts and arranged concentric to the shaft.

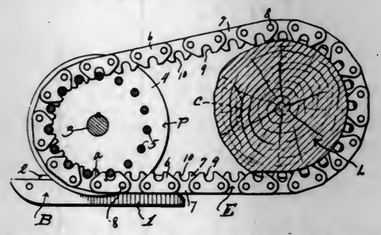
2,321,961
PAN GREASING BRUSH
James M. Wilde, Philadelphia, Pa.
Application April 21, 1941, Serial No. 389,657
5 Claims. (Cl. 15—128)

1. A pan greasing brush comprising a mounting having a conduit extending therethrough, one end of the mounting being adapted for attaching to a grease supply pipe and the other end of the mounting having a grease discharge port, a plurality of groups of bristles secured in diverging relation to the mounting at its end adjacent the discharge port sockets at circumferentially spaced points on the sides of the mounting and a plurality of brush units secured in said



sockets, said brush units extending longitudinally of the mounting and projecting radially therefrom.

2,321,962
LOG CUTTING MACHINE
John Zandecki, Alpha, Wash.
Application June 7, 1941, Serial No. 397,121
1 Claim. (Cl. 143—135)



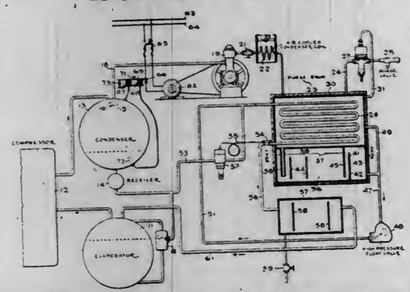
A sawing rig including an endless articulated sawing element, a rotating driving means for said element, said element comprising a plurality of flat links, said links being of material width and of substantially the same length, means for pivotally connecting the extremities of adjacent links, each of said links at substantially the longitudinal center having its inner marginal portion provided with a recess, the extremities of the links at the inner marginal portion thereof being beveled toward the recess whereby the said inner marginal portion at opposite sides of the recess constitute cutting teeth and also teeth to engage the driving member for the sawing element.

2,321,963
QUATERNARY AMMONIUM COMPOUNDS
Werner Zerweck and Otto Trösken, Frankfort-on-the-Main-Fechenheim, Germany; assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 6, 1940, Serial No. 351,644. In Germany August 19, 1939
4 Claims. (Cl. 260—45)

1. Quaternary ammonium compounds prepared by peralkylating condensation products obtained by condensing one mole of a phenolic compound selected from the group consisting of phenols and naphthols with at least three moles of an aliphatic aldehyde in the presence of a member selected from the group consisting of ammonium salts and mixtures of ammonium salts with amines to convert only the nitrogen atoms in said condensation products and those to quaternary ammonium salt groups which quaternary ammonium compounds are yellowish colored resin-like masses, soluble in water and characterized by the property of considerably increasing

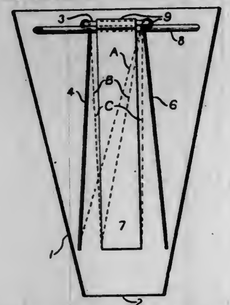
the fastness to washing of dyeings produced on cellulose materials by means of substantive dyestuffs.

2,321,964
PURGE SYSTEM FOR REFRIGERATIVE CIRCUITS
William E. Zieber, York, Pa., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application August 8, 1941, Serial No. 406,061
13 Claims. (Cl. 62—115)



1. The combination of a refrigerative circuit containing a volatile refrigerant and including a condenser; a purge drum; a loaded vent valve controlling flow from said drum and set to open when pressure in the drum exceeds a definite value; refrigerative means serving to cool gases in said drum to a temperature which for said refrigerant is substantially lower than that corresponding to said pressure; means for returning condensed refrigerant from said drum to said circuit; means for delivering from the condenser to the drum, at a pressure higher than the setting of said vent valve, vaporous refrigerant, and air when air is present in the condenser; and a controller responsive to the presence of air in the condenser and including a thermally responsive element, said controller serving to control the last named means.

2,321,965
SAWDUST HOPPER
Emil Zimmerman, Everett, Wash.
Application June 11, 1941, Serial No. 397,584
10 Claims. (Cl. 259—38)



1. In combination with the upwardly flared walls of a sawdust hopper or the like, having an open top and a smaller open throat, a plurality of partition strips freely pivotally hung in the upper part of the hopper in a pattern similar to and located directly above the outline of the throat, said partition strips being weighted to diverge slightly downwardly, to define between them a central chamber having its largest cross-section at its bottom not materially extending outside the outline of the throat, and progressively diminishing in cross-section upwardly and to define surrounding wedge-shaped chambers between each partition strip and the adjoining hopper wall.

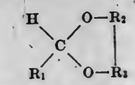
2,321,966
COMBINED HAMMOCK AND SLEEPING BAG
Axel Olof Andersson, Stockholm, Sweden, assignor to Cajs-Marie Nygren, Stockholm, Sweden
Application September 28, 1940, Serial No. 358,885
2 Claims. (Cl. 5—343)



1. A combined hammock and sleeping bag comprising a rectangular elongated panel made of flexible water repellent material, supporting means comprising flexible cords connected to and projecting beyond the respective ends of the panel whereby the panel may be suspended, a flap of substantially the same size and shape as the panel permanently connected to the panel along one of the longitudinal edges thereof, means for releasably connecting the opposite edge and the lower end of the flap to the other longitudinal edge and the lower end of the panel respectively so as to form a substantially enclosed bag, and a hood formed of a sheet of flexible water repellent material permanently connected at its lower end to the upper end of the panel and resting freely upon the flexible cords, the side edges of the sheet being folded over into substantially parallel relationship with the lower end thereof and having means for releasably connecting them to the upper end of the flap.

2,321,967
DEWAXING SOLVENT
Erving Arundale, Colonia, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 21, 1940, Serial No. 371,111
6 Claims. (Cl. 196—18)

2. Process for the removal of waxy constituents from an oil containing the same which comprises mixing with the oil a quantity of a dioxolane solvent selected from the class of substances which are characterized by having the following structural formula:

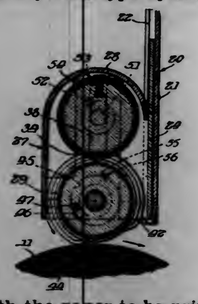


in which R_1 represents an alkyl group or hydrogen, and R_2 and R_3 represent alkyl groups, chilling the mixture to a temperature at which the waxy constituents precipitate, separating the precipitated waxy constituents from the dewaxed oil, and removing the solvent therefrom.

2,321,968
PRINTING DEVICE
Laurence T. Ash, Fort Lauderdale, Fla.
Application November 14, 1940, Serial No. 365,598
4 Claims. (Cl. 101—213)

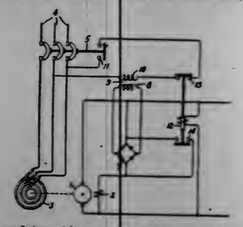
1. In a printing device of the character described, a type cylinder, a shaft supporting said

cylinder for free rotation independently of the shaft, an inking cylinder yieldingly maintained in contact with the type cylinder, off-impression members including rollers located on the respective sides of the type cylinder, said rollers forming with said shaft a wheel and axle assembly and having a radius for the major portion of their periphery greater than that of the type cylinder, the remaining portion of the periphery of said rollers being flat and of less radius than the type cylinder, whereby said type cylinder is held out



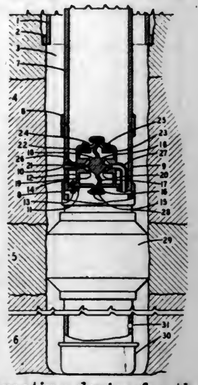
of contact with the paper to be printed when the portion of larger radius of said rollers is in contact with the paper, and is on impression when said flat portion is adjacent the paper to be printed, interengaging means provided by said type cylinder and rollers respectively for causing alternate rotation of said type cylinder and rollers as a result of movement of said paper and detent means for releasably holding the rollers in position when the flat portions thereof are adjacent the paper.

2,321,969
GENERATOR CONTROL SYSTEM
Herman Bany, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application July 11, 1941, Serial No. 401,943
3 Claims. (Cl. 171—312)



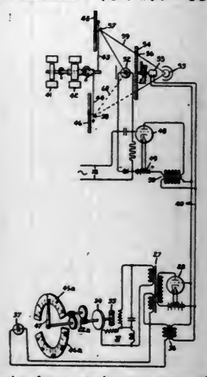
1. In combination, an alternating current circuit, an alternating current machine having a direct connected generator, a shunt field winding for said generator, a circuit breaker for connecting said machine to said circuit, rectifying means having an input circuit and an output circuit, said output circuit being connected in series with said field winding so that said field winding is excited in response to the sum of the voltages of said generator and said output circuit, a relay responsive to the voltage of said generator for completing a shunt circuit around said rectifying means when the generator voltage exceeds a predetermined value, and means controlled by said circuit breaker and said relay for energizing said input circuit from said alternating current circuit only when said circuit breaker is closed and the voltage of said generator is below a predetermined value.

2,321,970
METHOD OF AND APPARATUS FOR TREATING WELLS
Ormond Barstow, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application August 28, 1940, Serial No. 354,509
7 Claims. (Cl. 166—2)



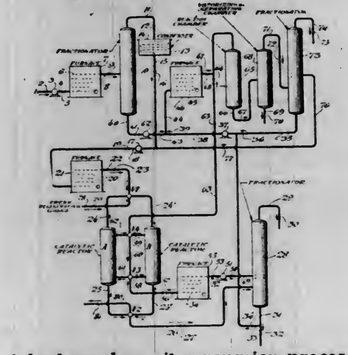
1. In a well treating device for the simultaneous injection of a fluid agent into at least two zones penetrated by the bore of a well, the combination of a conduit adapted to be disposed in the well bore, sealing means surrounding said conduit adapted to seal the annular space between the conduit and the well bore at a point between said zones, fluid control means carried by the conduit having restricted fluid entry ports and discharge ports therein, with the discharge ports in communication with the zones above and below the sealing means, said control means being adapted to maintain substantially equal pressures at the discharge ports so as to direct the fluid agent to each zone at a substantially fixed ratio of rates of flow.

2,321,971
TELEMETERING SYSTEM
Howard I. Becker, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 18, 1941, Serial No. 411,325
6 Claims. (Cl. 177—351)



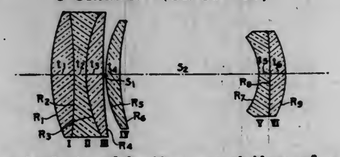
1. A telemetering system comprising a transmitter and a receiver each having moving parts operated continuously in synchronism, a transmitting channel between the transmitter and receiver, means for transmitting impulses over said channel for maintaining the synchronously moving parts of the transmitter and receiver in synchronism, automatic means at the transmitter for momentarily interrupting the transmission of the synchronizing impulses at times determined by an indication to be transmitted, and means at the receiver responsive to such interruptions for reproducing such indication.

2,321,972
HYDROCARBON CONVERSION PROCESS
Wayne L. Benedict, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application December 5, 1940, Serial No. 368,607
3 Claims. (Cl. 196—52)



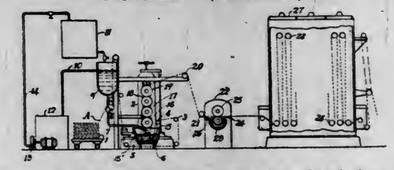
3. A hydrocarbon oil conversion process which comprises fractionating the charging oil to separate therefrom a heavy cracking stock and a light cracking stock, thermally cracking said heavy stock and fractionating the resultant vapors, subjecting reflux condensate thus formed and said light stock to catalytic cracking in a system comprising a pair of catalyst beds with each of which the lighting hydrocarbons are alternately contacted, one of the catalyst beds being employed in processing while the other is undergoing exothermic regeneration, separating from the products of the catalytic cracking a relatively heavy fraction of insufficiently converted hydrocarbons and a lighter fraction of insufficiently converted hydrocarbons, supplying at least a portion of said heavy fraction to the thermal cracking operation, passing at least a portion of said lighter fraction in indirect heat exchange relation with the catalyst bed undergoing regeneration and then with the catalyst bed being employed in processing and thereafter supplying the same to the thermal cracking operation.

2,321,973
TELEPHOTO OBJECTIVE
Harold F. Bennett, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 28, 1941, Serial No. 408,637
9 Claims. (Cl. 88—57)



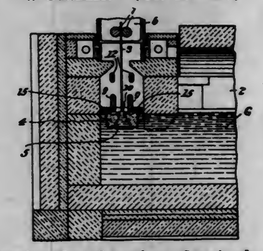
1. A telephoto objective consisting of a front positive member comprising more than two elements, at least one of each sign, and a rear negative member meniscus in outward form spaced from the rear principal point of the front member by more than the axial thickness of either member and by less than 0.85 times the focal length of the front member, the focal length of the rear member being numerically less than 1.05 times the focal length of the front member, characterized that in three elements of the front member including at least one of each sign a negative element is cemented onto the front of a positive element and the refractive index of each negative element exceeds that of each positive element by more than 0.05.

2,321,974
METHOD OF PRODUCING SHADE AND COLOR CONTRASTS IN TEXTILE FABRICS
Whitworth F. Bird, Wallingford, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application December 19, 1939, Serial No. 309,921
8 Claims. (Cl. 8—14)



1. In a continuous process for obtaining contrasting visual effects on a fabric, the steps which consist in moving the fabric at a substantially constant rate through a dyebath containing an aqueous dyestuff vehicle and a dyestuff capable of being fixed to the fibers of the fabric, squeezing the fabric to regulate the amount of aqueous dyestuff vehicle and dyestuff entrained and to uniformly entrain the said vehicle and unfixed dyestuff in the fabric, locally and physically treating predetermined portions of the fabric containing entrained unfixed dyestuff and its aqueous vehicle by applying an aqueous medium which together with the aqueous dyestuff vehicle causes a physical change of the position of the unfixed dyestuff in the predetermined treated portions and then fixing the dyestuff to the fibers of the fabric.

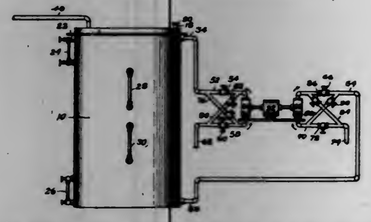
2,321,975
MANUFACTURE OF SHEET GLASS
Frederic L. Bishop, Fox Chapel Manor, and Laurence P. Forman, Oakmont, Pa., assignors to American Window Glass Company, Pittsburgh Pa., a corporation of Pennsylvania
Application May 19, 1938, Serial No. 208,850
2 Claims. (Cl. 49—17)



1. Apparatus for drawing sheet glass comprising a drawing pit having a bath of molten glass therein, means for continuously drawing a sheet

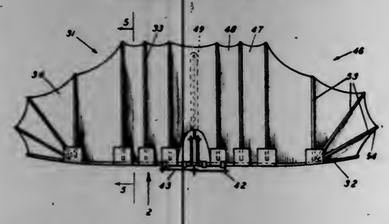
of glass from said bath, a debiteuse having a slot therein through which the molten glass is drawn, a cooler adjacent each face of the sheet for cooling and setting the molten glass into sheet form, and means extending between the cooler, the debiteuse and the adjacent side wall of the pit on each side of the glass sheet for retarding the cooling and equalizing the temperature of the glass in the bath and for at least partially shielding the meniscus of the rising glass sheet and equalizing the temperature of the gas striking the meniscus, whereby the temperature from one edge of the rising glass sheet to the other edge thereof is rendered more uniform.

2,321,976
STORAGE TANK
Wilbert Black, New Orleans, La.
Application July 31, 1941, Serial No. 404,790
6 Claims. (Cl. 221—67)



1. A storage tank for volatile fluids, including a chamber, means for withdrawing from, or adding to, said volatile fluid at the top of said chamber, means for withdrawing from, or adding, non-volatile fluid at the bottom of said chamber, a pair of synchronized pumps adapted to add non-volatile fluid as the volatile fluid is drawn off, or to add volatile fluid as non-volatile fluid is drawn off, and means for adding or withdrawing non-volatile fluid to compensate for any unevenness in the flow of said fluids, said means including a head of non-volatile fluid automatically maintained at a predetermined height and a pipe from said head extending into the bottom of said tank.

2,321,977
ORTHOPTER
Clyde G. Boatright, San Pedro, Calif.
Application November 27, 1939, Serial No. 306,310
7 Claims. (Cl. 46—74)



1. In an orthopter of the character described, a center frame, spars pivoted to said frame adjacent the forward end thereof and extending laterally therefrom, a wing affixed along its forward edge to each of said spars, each of said wings being of flexible material and extending aft from its associated spar, a plurality of reinforcing ribs affixed to each of said wings and extending aft from adjacent the associated spar, flexible means connecting each of said ribs to the associated spar permitting the after ends of said ribs and the after edges of said wings to trail the forward edges of the wings as said wings move vertically, and means for oscillating said wings up and down to develop a flapping motion of said wings.

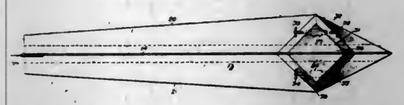
2,321,978
TERPENE DERIVATIVE
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 9, 1941, Serial No. 387,675
13 Claims. (Cl. 260—611)

9. A method which comprises subjecting a mixture comprising a terpene hydrocarbon and an alcohol to reaction with free oxygen under superatmospheric pressure in the presence of an oxidation catalyst until a hydroxylated terpene ether is produced and recovering the resulting product.

2,321,979
TERPENE DERIVATIVE
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 9, 1941, Serial No. 387,676
10 Claims. (Cl. 260—611)

5. A method which comprises subjecting a mixture comprising terpinolene, an alcohol, and water to reaction with air under superatmospheric pressure in the presence of an oxidation catalyst until a water-soluble hydroxylated terpene ether is produced, and recovering the said water-soluble hydroxylated terpene ether.

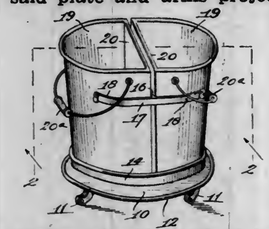
2,321,980
HULL CONSTRUCTION
Ernest Bornscheuer, Brooklyn, N. Y., assignor of one-half to Alice C. Bornscheuer, New York, N. Y.
Application June 20, 1941, Serial No. 398,860
2 Claims. (Cl. 114—57)



1. A ship hull including a central back bone forming the prow and keel and dividing the hull longitudinally, a bow formed of four triangular flat plates, two of said flat plates being fastened to said central back bone to form the bottom of said bow and the other two of said triangular plates engaging the first-mentioned plates to form the sides of said bow, flat bottom and side plates, said bottom plates being fastened to said control back bone above the keel portion thereof and tapering rearwardly toward the stern, and said side plates engaging said bottom plates and tapering upwardly towards said stern.

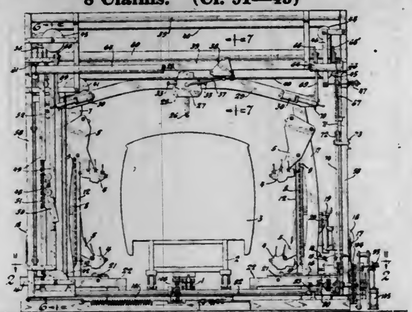
2,321,981
SCRUB-BUCKET ASSEMBLY
Marie A. Bowers, Glendale, Calif.
Application August 27, 1942, Serial No. 456,359
1 Claim. (Cl. 211—71)

In a scrub bucket assembly a base, rolling supports therefor, a plate removably positioned upon said base, an upstanding marginal flange on said plate, a standard projecting upwardly from the center of said plate and arms projecting from



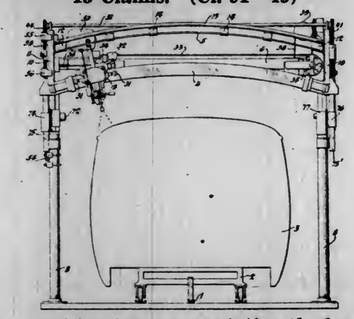
the upper portion of said standard for engaging buckets positioned on said plate.

2,321,982
PAINT SPRAY MACHINE
Tracy F. Brackett, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 2, 1941, Serial No. 372,754
8 Claims. (Cl. 91—45)



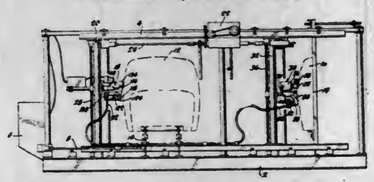
3. A spray machine including an upstanding gun guide track, a base on which the bottom of the track is mounted, a sub-base slidably supporting the base for lateral travel, and means pivotally mounting said sub-base on a vertical axis.

2,321,983
ROOF SPRAYING MACHINE
Tracy F. Brackett, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 13, 1941, Serial No. 378,705
13 Claims. (Cl. 91—45)



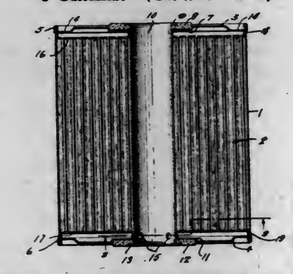
1. A machine for spray painting the longitudinally curved roof surface of an automobile body, including a conveyor system for imparting continuous travel to the body in the direction of said longitudinal curvature, a fixed transverse track bridging the path of body travel, a carriage mounted for reciprocation on and guided by said fixed track, a spray gun carrying member vertically slidably mounted in said carriage, a member engaging rail extending in parallel relation to said track and being vertically adjustable for regulating the projection and retraction of the gun carrying member in relation to said carriage and means responsive to variations in height of the body roof surface presented at the spray zone for shifting the position of the adjustable rail to follow the contour of the body roof surface presented at the spray zone.

2,321,984
DUPLICATING MECHANISM
Tracy F. Brackett, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 13, 1941, Serial No. 378,706
6 Claims. (Cl. 90—13.5)



1. In a device of the class described, a model having a curved surface that it is desired to reproduce, a cylindrical roller tracer pivotally mounted to engage said surface, a cylindrical rotary cutter independently pivotally mounted to engage a blank to be cut means to simultaneously move both the tracer and cutter across the model and blank respectively and means interconnecting said tracer and cutter to cause one to move if the other is forced about its pivot.

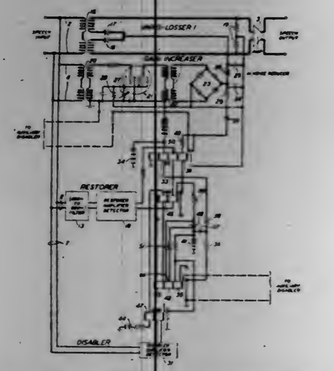
2,321,985
METHOD AND APPARATUS FOR SEPARATING SOLIDS FROM FLUIDS
Southwick W. Briggs, Washington, D. C., assignor to Briggs Clarifier Company, Washington, D. C., a corporation of Delaware
Application October 28, 1938, Serial No. 237,553
6 Claims. (Cl. 210—204)



6. A filter unit for use in a clarifying apparatus for separating solid particles from a fluid comprising a casing having imperforate inner and outer tubular walls and perforate end walls, for the introduction of and discharge of fluid, a tubular body of fibrous material positioned therein, said fibrous body having a well defined channel extending from one perforate end wall to the other for the passage of fluid between said end walls, said channel being of restricted cross section but greater than the size of the solid particles

to be separated from the fluid to permit the free flow of the solids containing fluid longitudinally through the channel.

2,321,986
NOISE REDUCTION IN TELEPHONE TRANSMISSION SYSTEMS
John T. L. Brown, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 7, 1942, Serial No. 433,772
11 Claims. (Cl. 178—44)



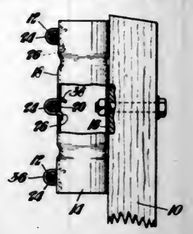
1. In combination with a transmission circuit transmitting speech signals and subject to cross-talk or other noise waves of relatively low amplitudes, a noise reducer comprising a variable loss network in said circuit normally providing sufficient loss therein to substantially suppress waves of said low amplitudes, a wave-operated control circuit connected to said transmission circuit, operating in response to applied speech waves to reduce the loss value of said network in proportion to the increase in amplitude of the applied waves up to a given minimum loss value, and means controlled by noise of a given level occurring in said transmission circuit between speech syllables to reduce the sensitivity of said control circuit.

2,321,987
MIRROR
Wilbur F. Brown, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
No Drawing. Application August 4, 1940, Serial No. 351,445
7 Claims. (Cl. 88—105)

1. A mirror comprising a sheet of golden colored transparent glass formed from a soda-lime-silica batch to which is added cerium hydrate and titanium dioxide, and a reflective backing on the glass sheet formed from a silvering solution.

2,321,988
ROAD GUARD BRACKET AND CLIP
Alan E. Brickman, Rostraver Township, Westmoreland County, Pa.
Application February 16, 1940, Serial No. 319,353
4 Claims. (Cl. 256—13.1)

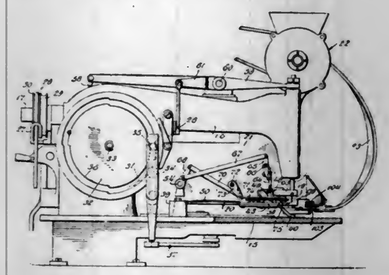
1. A road guard comprising a fixed supporting post, a bracket secured thereto having a slotted portion with a restricted throat spaced from the post, a guard rail element, and a spring metal retaining clip therefor having one portion embracing said element and other portions detachably interlocked with and fulcrumed on the said throat of the slotted portion of said bracket.



2,321,989
TRIAZONE RING COMPOUND
William James Burke, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 15, 1942, Serial No. 426,905
10 Claims. (Cl. 260—248)

1. A tetrahydrotriazone having the 2 carbon attached by a double bond to a chalcogen of atomic weight less than 33, the 5 nitrogen attached to a monovalent hydrocarbon radical by a terminal aliphatic carbon thereof, the 1 and 3 nitrogens attached, through an oxymethyl (—CH_2—O—) group, to a monovalent hydrocarbon radical by a terminal aliphatic carbon thereof, and the 4 and 6 carbons attached to hydrogen atoms.

2,321,990
BUTTON SEWING MACHINE
Lawrence G. Burkey, Cresson, Pa., assignor to S. Liebovitz & Sons, Inc., Myerstown, Pa., a corporation of New York
Application January 22, 1941, Serial No. 375,484
18 Claims. (Cl. 112—113)



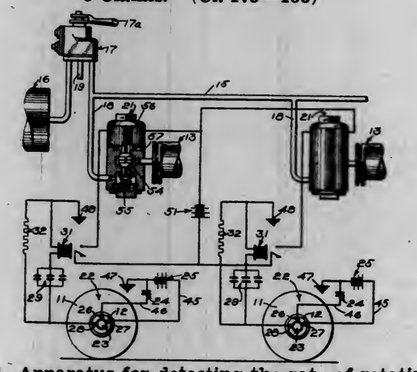
1. In a button sewing machine, the combination with a button clamp having horizontally reciprocating movements while a button is being stitched and a vertical movement during which said button is released after the stitching operation, means operable during said vertical movement to actuate said clamp to release said button therefrom and a feeding device having means forming a button delivery position; of a transfer mechanism movable between said position and clamp to deliver a second button to the latter at an intermediate stage of its vertical movement and after the first button has been released.

2,321,991
METHOD OF ATTACHING HOSE COUPLINGS
Clyde G. Butler, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a corporation of Ohio
Original application September 26, 1939, Serial No. 296,641. Divided and this application December 12, 1940, Serial No. 369,850
1 Claim. (Cl. 29—88.2)



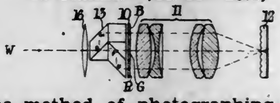
The method forming a high pressure coupling consisting of the steps, of inserting the end of a rubber hose in the annular chamber of a coupling element the hose incorporating inner and outer layers of rubber and an inner layer of wire braiding with the outer layer of rubber removed where the hose is inserted in the coupling element, and the outer sleeve portion of the annular chamber being formed of zinc alloy or metal having similar ductility, initially providing the outer sleeve portion with a swageable outward projection extending along the outer sleeve wall adjacent the annular chamber and thereafter pressing the swageable projection of the coupling element upon the wire braiding so that the outer wall of the outer sleeve portion is straight longitudinally, there being sufficient metal in the swageable projection which is displaced and adequate pressure applied to imbed the inner wall of the sleeve in the wire braiding without rupturing the inner rubber lining lying between the wire braiding and the inner sleeve portion of the coupling.

2,321,992
APPARATUS FOR DETECTING RATE OF CHANGE OF SPEED
John Canetta, Wilkinsburg, and Paul N. Bossart, Cheswick, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Original application August 15, 1940, Serial No. 352,770. Divided and this application January 30, 1941, Serial No. 376,599
9 Claims. (Cl. 175—183)



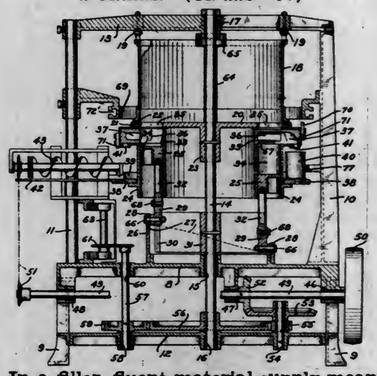
1. Apparatus for detecting the rate of rotative deceleration of a rotary element comprising, in combination, a source of direct-current voltage, an electrical condenser, a discharge circuit including a resistor and a second electrical condenser in parallel with said resistor, means effective to cause the first said condenser to be alternately charged to the voltage of said source and discharged into said discharge circuit at a frequency proportional to the rotational speed of the rotary element to cause a direct-current to flow in the discharge circuit and to cause the said second condenser to be charged to a voltage corresponding to the voltage-drop across said resistor and substantially proportional to the rotational speed of the rotary element, said second condenser being effective to discharge current locally in the discharge circuit through said resistor substantially proportional to the rate of reduction of the voltage-drop across said resistor, and means responsive to a current discharged from said second condenser in the discharge circuit exceeding a certain value and corresponding to a certain rate of rotative deceleration of the rotary element.

2,321,993
METHOD AND OPTICAL SYSTEM FOR COLOR PROCESSES
John G. Capstaff, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 20, 1933, Serial No. 703,268
12 Claims. (Cl. 88—16.4)



12. The method of photographing an object upon a lenticulated film which comprises collecting light from said object and separating it into a plurality of beams, filtering said beams to produce differing color values whose sum gives substantially the effect of white light, and focusing said beams into a single image upon said film.

2,321,994
RECEPTACLE FILLER
Frank D. Chapman, Berlin, Wis.
Application December 11, 1939, Serial No. 308,615
2 Claims. (Cl. 226—97)



2. In a filler, fluent material supply means, an annular series of measuring pockets revolvable about an upright axis beneath said supply means, a displacement plunger reciprocable in each of said pockets toward and away from said supply means during revolution of said pocket series about said axis, a fixed cam for reciprocating each of said plungers several times during each revolution thereof about said axis, a valve interposed between each pocket and said supply means for controlling delivery of material from said means to said pockets and from said pockets to

successive receptacles, means for advancing successive receptacles about said axis with said pockets and said valves, a stationary supporting element extending about said axis, and actuating mechanisms for said valves adjustable about said axis along said element to cause said plungers to properly cooperate with said cam so as to deliver several batches of material of pre-determined volumes from each pocket to each of the successive receptacles.

2,321,995

DEVICE FOR THE CONTROL OF INFLATABLE MEMBRANES IN MILKING MACHINES

William Reginald Cockburn, Onetangi, Waiheke Island, Auckland, New Zealand

Application January 3, 1942, Serial No. 425,562
In New Zealand June 3, 1940
1 Claim. (Cl. 31—86)



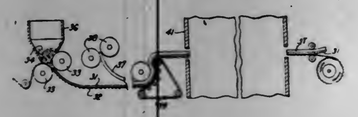
A device for the control of inflatable membranes in milking machines comprising a housing for insertion in a pulsation line between a pulsator and a part to be operated, spaced opposed valve seatings in said housing, a crown shaped valve movable between said seatings under the action of alternate vacuum and atmospheric pulsations in said line, the rim upon said valve having openings therein to permit free application of vacuum while the top of said valve has a restricted by-pass therein so that when said valve is in closed position under the influence of atmospheric pressure said atmospheric pressure is applied gradually to said part to be operated.

2,321,996

LINOLEUM

Samuel A. Cohen and Thomas L. Melgaard, Berkeley, Calif., assignors to The Paraffine Companies, Inc., San Francisco, Calif., a corporation of Delaware

Application May 26, 1942, Serial No. 444,522
3 Claims. (Cl. 154—25)



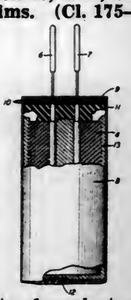
1. The method of manufacturing linoleum with a supporting backing in a manner enabling the backing to be readily removed for reuse, which comprises applying to the backing a bedding coating of linoleum mix, adhesively uniting the mix to the backing, applying a wear layer of linoleum over the bedding coating, curing the resultant sheet, and after the curing peeling off the backing for reuse.

2,321,997

ELECTROLYTIC CONDENSER

Kenneth G. Compton, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 25, 1941, Serial No. 385,053
12 Claims. (Cl. 175—315)



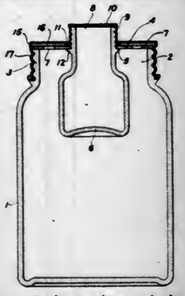
1. An electrolyte for electrolytic condensers having a liquid portion of a viscosity of at least about 100 centipoises at 25° C. and comprising essentially mannitol borate, from about 5 per cent to about 35 per cent of water, and from 5 per cent to about 30 per cent of acetamide, said electrolyte having a pH from about 5 to about 8.5 measured when its water content is about 50 per cent.

2,321,998

TWO-COMPARTMENT CONTAINER

Wentworth W. Crouch and Arthur W. M. Dickins, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 4, 1942, Serial No. 437,660
2 Claims. (Cl. 215—6)



1. A two-compartment container including, in combination, a large jar having an open end, a disk fitting the open end of the jar including a supporting aperture and a filling aperture, a small jar fitting in the supporting aperture, a cap for engaging the small jar and disk to hold the small jar suspended in the large jar, said filling aperture permitting filling the large jar with the small jar suspended therein, and means for holding the disk on the large jar and closing the filling aperture therein comprising a cap member for engaging the open end of the large jar.

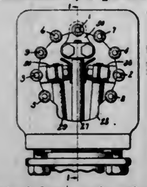
2,321,999

TERMINAL BOX

William Dalton, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application October 8, 1941, Serial No. 414,125
8 Claims. (Cl. 171—97)

6. A terminal box for an electrical apparatus including a plurality of apparatus winding terminals having ends extending into said box, said box having means for accommodating line conductors, means for detachably connecting the line conductors to some of said terminals, a plurality of removable insulating plates each being adapted to be separately placed in said box in cooperative relationship with said extending ends of said terminals, a plurality of conduct-



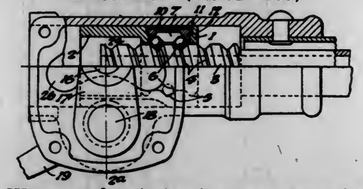
ing segments carried by each of said plates, said conducting segments of one of said plates being arranged for connecting together said terminals in one predetermined relationship and said conducting segments of another of said plates being arranged for connecting together said terminals in another predetermined relationship, a cover for said box, and means for supporting within said box one of said plates when not in use.

2,322,000

STEERING GEAR

John George Douglas, Aberfeldy, Scotland

Application January 27, 1938, Serial No. 187,207
In Great Britain February 23, 1937
17 Claims. (Cl. 74—499)



1. Worm and nut steering gear comprising an internally helically grooved nut member, an externally helically grooved worm member, and a plurality of balls located about the worm, and engaged in the said grooves of the nut and worm member, one of said members being rotatable relatively to the other to apply a translative movement to the other through the medium of said balls, said balls being free to roll in both said grooves during rotation of the appropriate helically grooved member, a substantially axial port in the nut forming a passage for the balls exposed to said worm throughout its length, said passage extending from end to end of a single helix of the groove in the nut, and deflecting abutments at the ends of the port adapted to deflect the balls over a crest of the worm member and to afford rolling and guiding surfaces for the balls when entering and leaving the port.

2,322,001

METHOD OF PRODUCING DYE IMAGES

George Ehrenfried, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 10, 1940, Serial No. 360,622
6 Claims. (Cl. 95—6)

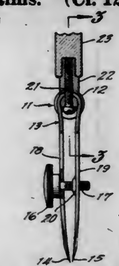
6. The method of forming a colored image in a photographic layer containing a bleachable azo dye and unexposed silver halide uniformly dispersed therein, which comprises exposing and developing said layer, removing the undeveloped silver halide without affecting the silver image formed by development, reconverting the silver image to silver halide, and bleaching the dye in an alkaline, reducing bleach bath comprising an alkali metal salt of an acid selected from the group consisting of stannous acid and hydrosulfurous acid and free of silver halide developing agent in the presence of said image to form a colorless dye compound and leave unaffected the dye in the remaining portions of the layer.

2,322,002

DRAFTING PEN

Floyd G. Eubanks, Pasadena, Calif., assignor, by direct and mesne assignments, of thirty-one and one-half per cent to Francis E. Vaughan, Pasadena, five per cent to Robert M. McManigal, South Pasadena, Calif., six per cent to Edward Floyd Eubanks, six per cent to Philip Robert Eubanks, six per cent to Patricia Rose Eubanks, eight per cent to Edward Urner Vaughan, and eight per cent to Philip Alfred Vaughan, all of Pasadena, Calif.

Application February 18, 1942, Serial No. 431,387
4 Claims. (Cl. 120—109.5)



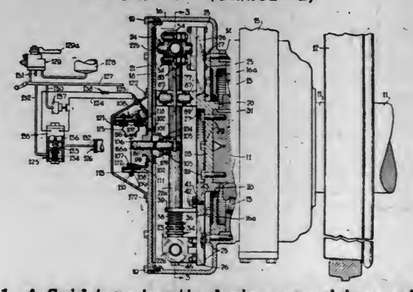
1. In a ruling pen, a strip of sheet steel looped about a cylindrical member and tapered at the ends to provide the nibs of said pen, a handle, said strip and said cylindrical member being held together and to the pen handle by means of a screw passed through them and threaded into said handle.

2,322,003

FLUID TYPE INERTIA DEVICE

Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application August 29, 1942, Serial No. 456,688
28 Claims. (Cl. 264—1)

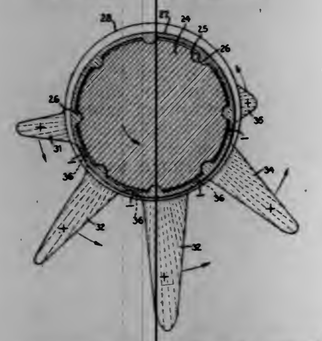


1. A fluid type inertia device comprising casing means having an annular chamber in which a body of liquid is confined, said casing means being rotatable on an axis that intersects the center of curvature of the annular chamber, means associating the casing means and the body of liquid in a manner to cause rotational movement of the body of liquid with the casing means at the

same speed, said means being operatively responsive to the inertia force of the body of liquid set up when the casing means changes its rotational speed at a rate exceeding a certain rate for permitting the body of liquid to rotatively circulate in said chamber at a speed different from that of the casing means thereby to maintain a certain predetermined inertia force of the body of liquid effective as long as the casing means and the body of liquid rotate at different speeds, and control means operatively responsive to the inertia force of the liquid in said chamber.

20. A fluid type inertia device comprising casing means providing a plurality of coaxial spaced annular passages connected in a manner to provide a continuous endless chamber and having a body of liquid confined therein, said casing means being rotated on an axis coincident with the center of curvature of the annular passages therein, means associated with one of said annular passages in a manner to be subject to the inertia forces of the body of liquid confined in the circulatory passage resulting from a change in the rotational speed of the casing means, and control means operatively responsive to movement of the last said means.

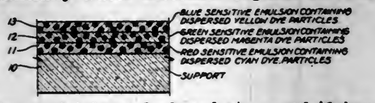
2,322,004
BEARING
Gustave Fast, Lindamoor-on-Severn, Md., assignor, by mesne assignments, to The Fast Bearing Company, Baltimore, Md., a corporation of Maryland
Application October 24, 1934, Serial No. 749,691
25 Claims. (Cl. 308—121)



1. In a structure of the class described, a plurality of relatively rotatable members, a flexible annular element mounted between said members and arranged to transmit a load from one to another, one of said members having a face forming a portion of a substantially spherical surface, said element having a face forming a similar spherical surface when tensioned, and means for tensioning said element only intermediate its ends at spaced points about its circumference to deform said face.

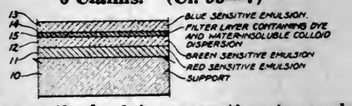
2,322,005
PHOTOGRAPHIC BLEACH-OUT LAYER
Scheuring S. Fierke, Paul W. Vittum, and Lot S. Wilder, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 26, 1940, Serial No. 371,684
In Great Britain December 29, 1939
2 Claims. (Cl. 95—7)

1. The method of incorporating in a gelatino-silver halide layer a dye capable of being bleached in the region of a photographic image, which comprises mixing the dye with a volatile substantially water-insoluble organic solvent for



the dye and tricresyl phosphate, emulsifying the dye and tricresyl phosphate in an aqueous solution, dispersing the emulsion as liquid particles in the gelatino-silver halide emulsion and coating it on a support.

2,322,006
PHOTOGRAPHIC FILTER AND ANTI-HALATION LAYER
Scheuring S. Fierke, Paul W. Vittum, and Lot S. Wilder, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 26, 1940, Serial No. 371,685
In Great Britain December 29, 1939
6 Claims. (Cl. 95—7)



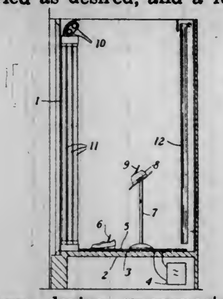
2. The method of incorporating in a photographic gelatin layer a dye having in the neutral state, low water solubility and high solubility in organic solvents, ahd capable of forming a water-soluble compound in ordinary photographic developing solutions, which comprises mixing the neutral form of the dye with a volatile, substantially water-insoluble organic solvent for the dye and a substantially water-insoluble organic crystalloidal material having a boiling point above 175° C. and having a high solvent action for the dye and capable of forming a liquid mixture with said dye, the nature and properties of the dye and crystalloidal material being so chosen that particles thereof are liquid under conditions of coating and photographic processing, emulsifying the dye and crystalloidal material in an aqueous solution, adding the emulsion to a gelatin solution and producing dispersed liquid particles of the dye and crystalloidal material in the gelatin, and coating it on a support.

2,322,007
MOTOR FUEL
Herbert G. M. Fischer, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 27, 1939, Serial No. 296,809
5 Claims. (Cl. 44—58)

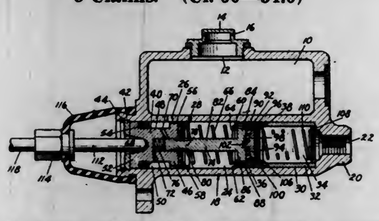
1. Process for conditioning preformed gum-containing gasoline comprising adding to said gum-containing gasoline a quantity of lecithin sufficient to render the preformed gum fluid upon evaporation of the gasoline.

2,322,008
DISPLAY SYSTEM
Joseph Fodor, London, England
Application July 18, 1939, Serial No. 285,178
In Great Britain July 19, 1938
17 Claims. (Cl. 177—346)

1. A display system comprising a conducting panel, means for supplying high frequency current to said panel, conductor means unconnected to but inductively coupled with said panel, and the position of which with relation to said panel may be varied as desired, and a luminous electric discharge device, unconnected with said conductor means, the position of which with respect thereto may be varied as desired, and which, when in any position, is energized to luminosity thereby.

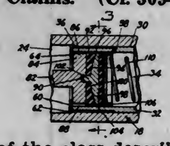


2,322,009
FLUID PRESSURE PRODUCING DEVICE
Owen H. Fowler, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Original application March 7, 1940, Serial No. 322,790. Divided and this application January 10, 1941, Serial No. 374,004
5 Claims. (Cl. 60—54.6)



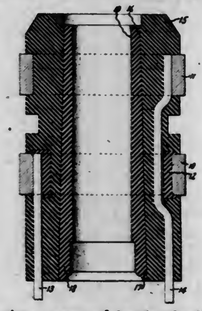
5. A device of the class described comprising a cylinder having axially disposed concentric bores, the large bore defining a chamber, and a cylinder section in the small bore extended partially into the large bore to provide in conjunction therewith an annular passage, said cylinder section defining a chamber of smaller diameter than the chamber in the large bore and having a port of its wall providing communication between the chambers by way of the annular passage.

2,322,010
PISTON
Owen H. Fowler, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Original application March 7, 1940, Serial No. 322,790. Divided and this application January 10, 1941, Serial No. 374,005
17 Claims. (Cl. 309—4)



7. A device of the class described comprising a cylinder, a piston reciprocable within the cylinder, said piston having spaced passages therethrough and a concentric recess, an elastic washer on the piston having less diameter than the piston, said washer having a concaved face and a concentric opening registering with the recess, a pressure block having a convexed face complementary to and received by the concaved face on the washer, an extension on the convexed face of the pressure block received through the opening in the washer and within the recess in the piston for limited relative movement between the piston and the block, and a sealing cup on the pressure block.

2,322,011
SLIP RING ASSEMBLY
Henry G. French, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 27, 1942, Serial No. 444,743
5 Claims. (Cl. 171—322)



1. A slip ring assembly including a plurality of electrically conductive slip rings, concentric and partially axially coextensive separate insulating elements for supporting each of said rings, electrical conductors connected one to each of said rings and extending through said insulating elements to the exterior thereof, and means including said insulating elements arranged about said electrical conductors for preventing contact of said conductors with any of said rings other than the rings to which said conductors are connected or exposure thereof to the inner bore of the inner of said insulating elements.

2,322,012
WAX MODIFYING AGENT AND METHOD FOR MAKING THE SAME
Per K. Frolich, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 29, 1941, Serial No. 408,715
10 Claims. (Cl. 252—59)

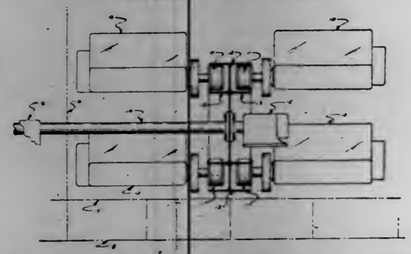
1. An improved wax modifying compound comprising essentially a substantially acid-free condensation product of a reactive aliphatic compound having a chain of at least 10 carbon atoms and a naphthenic acid.

2,322,013
CELLULOSE ETHER COMPOSITION
Carl B. Gilbert, South River, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 18, 1940, Serial No. 346,153
8 Claims. (Cl. 106—181)

1. A composition comprising 100 parts of an

ethyl ether of cellulose having an ethoxyl content in the range between about 41% and about 51% and between about 5 parts and about 50 parts of a mixture of materials capable of decreasing the softening point of the said ethyl cellulose when colloided therewith and compatible with the ethyl cellulose, at least one-third of the said mixture consisting of acetyl triethyl citrate.

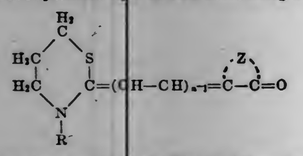
2,322,014
SHIP PROPULSION
Edmund G. Grant, South Pasadena, Calif.
Application August 27, 1941, Serial No. 408,473
17 Claims. (Cl. 115—34)



4. In a drive device, a driven shaft, a driving drum on said driven shaft, said driving drum having a driving ring thereon, an engine arranged adjacent to said shaft, and means to support said engine for movement towards and from the shaft, said engine having a driving wheel thereon, said driving wheel being mounted adjacent to said driving ring and movable to engage the driving drum.

2,322,015
DYE AND PHOTOGRAPHIC EMULSION CONTAINING THE SAME
Frances Mary Hamer and Russell James Rathbone, Wealdstone, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application May 22, 1940, Serial No. 336,584
In Great Britain May 25, 1939
11 Claims. (Cl. 260—240)

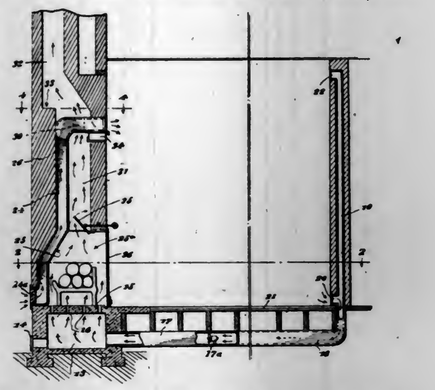
1. A merocyanine dye of the following formula:



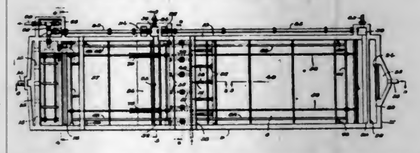
wherein n represents a positive integer not greater than two, R represents an alkyl group and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of five-membered and six-membered heterocyclic nuclei.

2,322,016
FIREPLACE FURNACE
Hardin L. Hardeman, Waco, Tex.
Application September 19, 1941, Serial No. 411,564
2 Claims. (Cl. 237—51)

1. A heating and ventilating system comprising a fire-place having an outlet flue, a heating unit mounted within the fire-place, the heating unit having a fresh air inlet and a hot air outlet, the hot air outlet communicating with the interior of a building, the fire-place having a perforated floor, an ash-pit located below the perforated floor, an air duct communicating with the ash-pit, the perforated floor providing means for dumping ashes from the fire-place into the ash-pit and also providing a draft means upwardly through the fire-place, vertical ducts communicating with the first mentioned duct, the vertical ducts having upper and lower inlet ports facing the fire-place and located within an opposite wall relative to the fire-place, means mounted within the upper and lower inlet ports to selectively open and close the ports, and a fan mounted within one of the ducts.

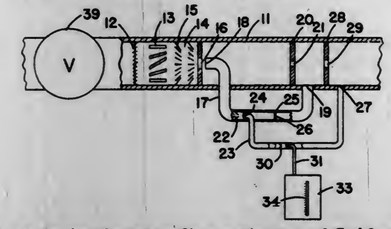


2,322,017
METHOD AND APPARATUS FOR TREATING INDUSTRIAL WASTES AND SEWAGE
Byron K. Hartman, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois
Application October 16, 1941, Serial No. 415,302
16 Claims. (Cl. 210—3)



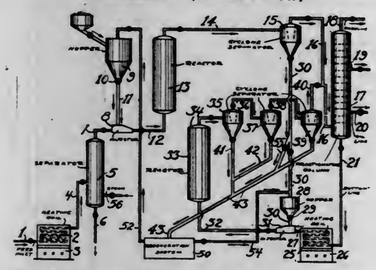
1. The method of treating industrial wastes or sewage which comprises flowing wastes or sewage through a primary sedimentation zone providing a retention period in which the large heavy suspended solids are allowed to settle out and floatable solids with some oil and grease are allowed to rise to the surface of the liquid, collecting the floating material from the surface of the liquid for removal from the said zone, aerating only the effluent from said primary zone to effect separation of the remaining oil and grease, flowing the aerated liquid with its separated oil and grease through a secondary sedimentation zone providing a retention period in which the remaining suspended solids are allowed to settle out and the separated oil and grease with any remaining floatable solids are allowed to rise to the surface of the liquid, collecting the floating material from the surface of the liquid for removal from the secondary zone, and collecting and removing as one continuous operation the settled out solids from both the primary and secondary zones.

2,322,018
SAMPLING AND METERING DEVICE
Theodore A. Huber, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 16, 1941, Serial No. 374,665
6 Claims. (Cl. 73—202)



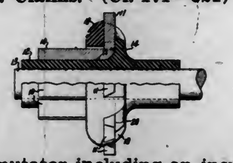
1. A device for sampling a stream of fluid comprising a conduit having arranged therein longitudinally separated constrictions, a second conduit of smaller area than the first conduit arranged with an open end extending into said first conduit downstream from and facing one constriction and discharging into said first conduit on the downstream side of a constriction downstream from said first mentioned constriction, a plurality of constrictions in said second conduit, a third conduit arranged with an end extending into said second conduit downstream from and facing the upstream-most constriction therein and its other end discharging into said first named conduit, the point of discharge of said second conduit and of said third conduit being longitudinally separated with a constriction arranged in the first conduit between them, a constriction in said third conduit and means for removing fluid from said third conduit downstream from said constriction.

2,322,019
ART OF TREATING HYDROCARBONS
Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 10, 1940, Serial No. 318,274
3 Claims. (Cl. 196—52)



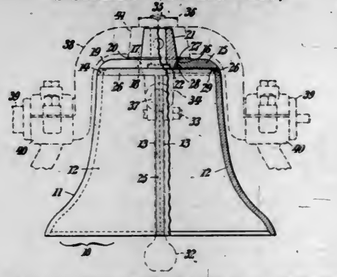
1. In a vapor phase catalytic treatment of hydrocarbons, in which a powdered catalyst is suspended in the hydrocarbon vapors undergoing treatment, the improvement which comprises causing the reaction to be carried out in the first stage of the process in the presence of catalyst, separating the catalyst from the vapors, conducting the vapors to a fractionating zone, withdrawing the highest boiling fraction from said zone, admixing catalyst therewith, reacting said highest boiling fraction in a reaction zone at a substantially higher temperature and in the presence of a greater quantity of catalyst than used with the hydrocarbons reacted in the first named reaction zone, and returning the products from the second reaction zone to the said fractionating zone.

2,322,020
COMMUTATOR
Lawrence F. Hemphill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application October 6, 1942, Serial No. 460,937
7 Claims. (Cl. 171—321)



2. A commutator including an insulating support having a shoulder thereon extending outwardly at an angle, a plurality of commutator segments having a portion of each extending axially and substantially parallel to each other on said support in spaced apart relationship and a portion of each formed at an angle to said axial portion, and means including a clamping ring for securing said segments on said support with said segment angular portions clamped against said shoulder at an outwardly extending angle.

2,322,021
BELL
John Hengstler, Altoona, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 24, 1942, Serial No. 448,218
4 Claims. (Cl. 116—150)

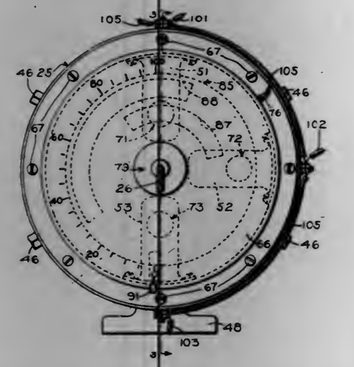


4. A locomotive bell having a downwardly-flaring body portion of true circular horizontal cross section throughout, composed of at least three similar regular trapeziform segments of relatively heavy uniform-thickness plate steel, said sections abutting side-edgewise throughout their lengths and being united along the regions of mutual abutment by flush-weld seams equal in thickness to the metal of the segments; and a circular shoulder portion of plate steel thicker than that of the side segments with its periphery abutting the arcuate top edges of said segments and flush welded to the latter along the regions of mutual abutment.

2,322,022
CONTROL DEVICE
Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application June 28, 1941, Serial No. 400,156
6 Claims. (Cl. 250—41.5)

1. A control device comprising a plurality of

light-sensitive devices arranged in spaced circumferential relation, a plurality of sources of light each adapted to direct a beam of light on a corresponding one of said light-sensitive devices, a rotary shutter interposed between the light-sensitive devices and the light sources, said shutter having a plurality of concentrically arranged radially spaced arcuate perforations therein less in number than the number of light-sensitive devices through which to permit a beam



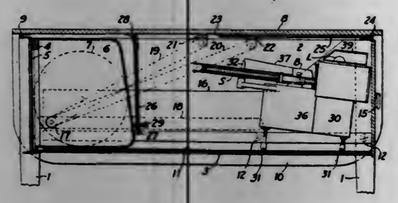
of light to pass from a source of light to a corresponding light sensitive device only when the perforation is interposed between the source and the light-sensitive device, said perforations being so located that at least one of said perforations is effective in different rotative positions thereof to permit the passage of a beam of light therethrough from each of more than one of said sources to the corresponding light-sensitive device.

2,322,023

DEVICE FOR EXHIBITING TRANSPARENCIES

Roy S. Hopkins, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 26, 1941, Serial No. 420,551
6 Claims. (Cl. 88—24)



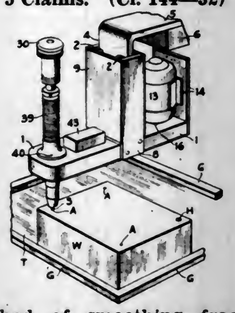
1. A device for exhibiting transparencies comprising a table having a top and a screen, both normally disposed in a horizontal plane, a hinged connection between the top and the table and between the screen and the table on which the top and the screen may tilt upwardly, a sliding drawer in the table, links connecting the drawer with the table top and the screen whereby outward movement of the drawer causes the screen to be erected, a projector within the drawer, and a reflector within the table arranged to direct a projected image to the screen.

2,322,024

METHOD OF BURNISHING SCREW STICK HEADS

Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 21, 1941, Serial No. 399,119
5 Claims. (Cl. 144—32)



1. A method of smoothing fracture areas formed in applying screws to work from a screw stick comprising a plurality of screws coaxially arranged and connected by narrow necks which comprises turning an end screw of a screw stick into work through a torque applied to another screw through said narrow neck until said narrow neck fractures and burnishing the fractured neck by continued rotative contact of the fractured neck with the seated screw.

2,322,025

CONVERSION OF HYDROCARBONS

Vladimir N. Ipatieff and Aristid V. Grosse, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 3, 1939, Serial No. 265,776
4 Claims. (Cl. 260—683)

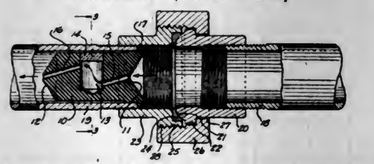
1. A process which comprises reacting a paraffin containing more than two carbon atoms with ethylene in the presence of a catalyst effective in transferring hydrogen from the paraffin to the ethylene, thereby forming ethane and an olefin of more than two carbon atoms, subjecting the admixed ethane and olefin to polymerization to convert the latter to liquid and thereby separate it from the ethane, dehydrogenating the separated ethane and supplying resultant ethylene to the first-mentioned step of the process.

2,322,026

GAS MIXER

Frederick T. Jaeckel, Wauwatosa, Wis.

Application November 3, 1941, Serial No. 417,654
3 Claims. (Cl. 48—180)



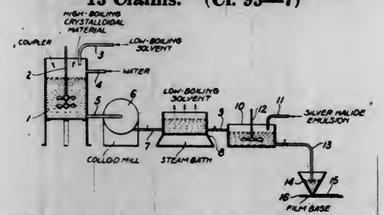
1. A gas mixer adapted for confinement within a gas pipe, and comprising, a one-piece body having a smooth cylindrical peripheral surface formed for snug axial insertion within the pipe, said body being provided with a medial cylindrical well extending across and approximately perpendicular to the central body axis and open for inspection at said peripheral surface, and said body also having straight cylindrical passages connecting upper and lower portions respectively of said well with the central opposite end portions of the body.

2,322,027

COLOR PHOTOGRAPHY

Edwin E. Jelley and Paul W. Vittum, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 26, 1940, Serial No. 371,612
In Great Britain February 24, 1940
13 Claims. (Cl. 95—7)



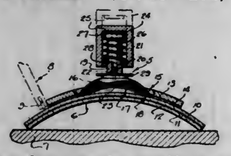
1. The method of incorporating a color-former in a water-soluble sensitive photographic colloid which comprises mixing a color-forming compound capable of reacting with a primary aromatic amino coupling developing agent on photographic development, with a substantially water-insoluble, low molecular weight, organic, crystalloidal material having a boiling point above about 175° C., said organic material having a high solvent action for the color-forming compound and for the dyes formed therefrom, and being permeable to photographic processing solutions, the nature and proportions of the color-forming compound and crystalloidal material being so chosen that particles thereof are liquid under conditions of coating and processing the sensitive photographic colloid, said mixture being a liquid solution of said color forming compound and said crystalloidal material, and dispersing said solution in the sensitive photographic colloid to form liquid particles of the color-forming compound and crystalloidal material in dispersed form in the photographic colloid.

2,322,028

TEMPLATE

Irvin F. Johnson, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application July 1, 1941, Serial No. 400,638
8 Claims. (Cl. 33—174)



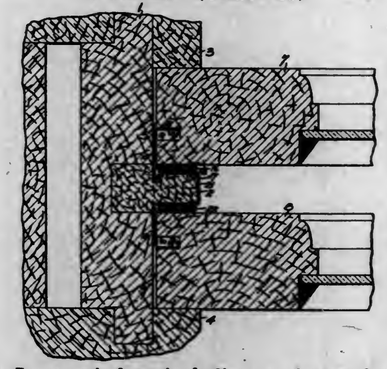
1. A device for use in cutting curved sheets of glass, comprising a template acting as a guide for a cutting tool having the desired outline and a curvature approximating the curvature of the glass surface to be cut, said template having an opening therein substantially centrally thereof, and a suction cup carried by said template and arranged within said opening adapted for attachment to the glass sheet to secure the said template in position during the cutting operation.

2,322,029

WEATHER STRIPPING

Louis F. Julien, Detroit, Mich., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich., a corporation of Michigan

Application October 3, 1940, Serial No. 359,465
2 Claims. (Cl. 20—69)



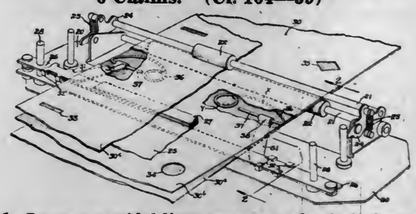
1. In a window including a frame having spaced, parallel, vertical beads and a sash supported between said beads for vertical movement therealong, the combination of a longitudinal slot in one of said beads, a channel-shaped bead member bearing against the exposed faces of the slotted bead and including a resilient longitudinal portion extending into and in frictional engagement with the sides of said slot, and said member having at least one reversely flexed leg along one longitudinal margin forming a groove of substantial depth between it and the adjacent side of said member, said groove being adapted to receive an outwardly directed marginal flange upon a sash member secured to said sash whereby said member is permitted longitudinal movement relative to said bead member.

2,322,030

MANIFOLDING MEANS

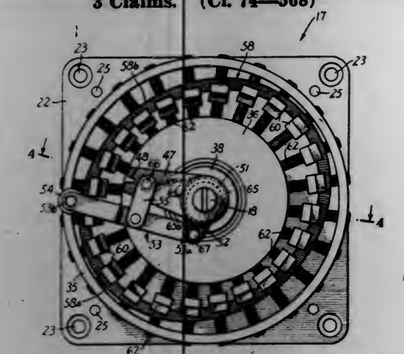
D Ellis Kressler, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan

Application May 11, 1942, Serial No. 442,409
6 Claims. (Cl. 164—39)



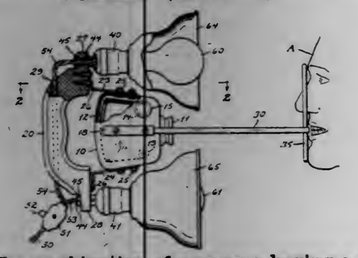
1. In a manifolding means adapted for use with a plurality of superposed continuous paper webs formed by longitudinal folding of a continuous paper strip, the combination of a slitter blade supported laterally adjacent the path of said webs and entering between adjacent webs across their longitudinal edges where they are joined along a longitudinal fold of said strip to effect slitting along said fold by relative movement between said webs and blade longitudinally of said webs, and a guide member pivoted on the end portion of said slitter blade located between said adjacent webs and extending from said slitter blade end portion a substantial distance transversely of the length of said webs.

2,322,031
ADJUSTABLE CAM
Edward J. Kuebert, Bellmore, N. Y., assignor to Fairchild Aviation Corporation, Jamaica, N. Y., a corporation of Delaware
Application January 28, 1942, Serial No. 428,449
3 Claims. (Cl. 74—568)



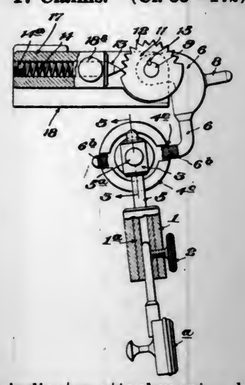
1. An adjustable cam device comprising, in combination, a base having an annular recess formed therein, said recess being formed by inner and outer ring-like projections, a plurality of screws extending through regularly spaced holes in said outer ring-like projection and into regularly spaced holes in said inner ring-like projection, said screws being freely rotatable in said holes and being arranged in spoke-like formation with respect to the axis of said annular recess, a substantial portion of each of said screws lying in said recess, a nut-like member threaded on each of said screws and adjustable axially thereof upon rotation of its screw, and a coiled spring encircling and engaging said members and variable as to contour in accordance with the adjusted positions of said members, said spring being under tension when in engagement with said members so as to bind said screws against free rotation in their holes.

2,322,032
PHOTOGRAPHIC APPARATUS
Albert J. Kunze, Cleveland, Ohio
Application August 3, 1940, Serial No. 350,553
4 Claims. (Cl. 240—2)



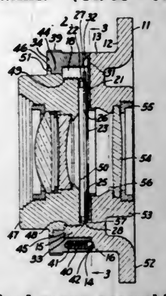
1. The combination of a camera having a box, a lens on the forward face thereof, means within the box for carrying the film, a transverse handle having an intermediate grip portion, a pair of clips securing the box to the handle adjacent opposite ends of the grip portion, a pair of electric lamp sockets secured to the handle beyond the respective clips, and a pair of reflectors associated with the respective sockets, whereby light from lamps in the sockets may be reflected toward a subject in front of the camera.

2,322,033
DIAL INDICATOR ATTACHMENT
Rosario W. Le Brun, Waterloo, N. Y.
Application August 24, 1942, Serial No. 455,933
17 Claims. (Cl. 33—172)



1. In an indicator attachment, a base; an arm pivoted thereon; means for maintaining the arm in adjusted position; an indicator carrying sleeve having a shank; means connecting the shank and arm whereby the sleeve may be adjusted axially and angularly with respect to the arm, said maintaining means comprising a ratchet on the pivot of said arm; a spring-pressed pawl normally yieldably engaged with the ratchet; and means for locking the pawl against movement.

2,322,034
ENLARGER LENS AND DIAPHRAGM ASSEMBLY
Charles M. Lee, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 29, 1941, Serial No. 408,826
10 Claims. (Cl. 95—64)



1. In an iris diaphragm assembly, the combination with a cylindrical support, a ring formed on said support, a diaphragm positioned in said ring and comprising a diaphragm plate and a diaphragm retainer, a diaphragm operating member mounted for rotative movement on said ring, means for operatively connecting said plate to said member so that rotative movement of the latter will move said plate to adjust said diaphragm, means on said ring both for holding said retainer against rotation and for limiting the movement of said plate to provide points of adjustment for said diaphragm, and a single means cooperating with said support for retaining the diaphragm in and the diaphragm operating member in rotative position on said ring.

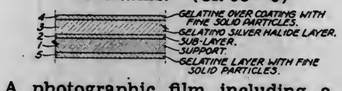
2,322,035
CYANOETHYL ALPHA CHLORACRYLATE
Joy G. Lichty, Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 30, 1942, Serial No. 449,186
1 Claim. (Cl. 260—464)

Cyanoethyl-alpha-chloroacrylate.

2,322,036
CONDENSATION PRODUCT
Eugene Lieber, West New Brighton, Staten Island, N. Y., and Harry T. Rice, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 16, 1939, Serial No. 304,704
6 Claims. (Cl. 260—592)

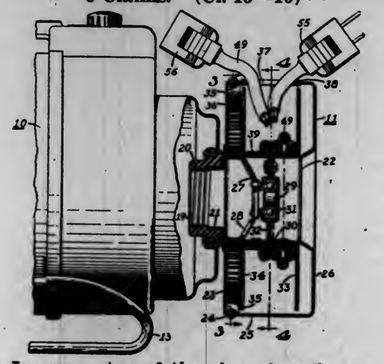
1. A compound having the general formula $R(COR')_n$ where R is an aromatic group, R' is an alkyl group having at least 10 carbon atoms and n is an integer greater than 1, said compound being made by acylating the aromatic group R in at least two stages.

2,322,037
PHOTOGRAPHIC FILM
Carl G. Lindquist, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 17, 1940, Serial No. 330,132
In Great Britain July 7, 1939
3 Claims. (Cl. 95—9)



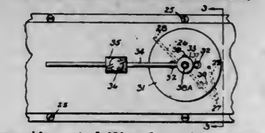
1. A photographic film including a support and a photographically sensitive layer, and including at least one gelatine layer containing inert, relatively hard, finely divided non-lubricating particles of a size less than .01 mm. and greater than .001 mm. and in quantities insufficient to cause more than 100 minute irregularities per square millimeter in the surface of the layer, the size and number of the irregularities being insufficient to render the film visibly matte.

2,322,038
CORD-WINDING DEVICE
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application December 12, 1940, Serial No. 369,765
5 Claims. (Cl. 15—16)



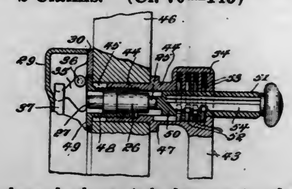
1. In apparatus of the class described, a vacuum cleaner having a casing formed with an opening therein for the passage of air and coupling means for connecting a hose to said opening, a cord-winding device including a case, means carried by said case and engageable with said coupling means for removably securing said device to said opening, said case being formed with a centrally disposed passage therethrough communicating with said means carried by said case, a cord-winding reel having a hub portion and a cord-retaining portion, and means extending transversely of said passage for rotatably mounting said hub portion within said case, said last-mentioned means and said hub portion being formed with apertures for flow of air.

2,322,039
INERTIA STABILIZED VOLUMETER
Edward C. Lunda and Reuben E. Wald, Portland, Oreg., assignors to Iron Fireman Manufacturing Company, Portland, Oreg.
Application January 7, 1941, Serial No. 373,468
5 Claims. (Cl. 137—152)



1. An inertia stabilized volumeter having in combination an air duct, a shaft rockably mounted in said duct, an unbalanced damper blade mounted on said shaft when in said duct and adapted to close under increasing air flow, a counterweighted arm attached to said shaft tending to balance said blade and an inertia disc having a loose driving connection to said arm, said disc being supported for movement independently of said arm.

2,322,040
HANDLE AND LATCH OPERATING DEVICE
Jesús Palazuelos Maruri, Pina, Camaguey, Cuba
Application April 25, 1941, Serial No. 390,412
2 Claims. (Cl. 70—145)

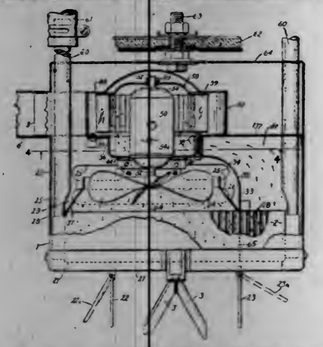


2. In a door lock, a tubular post adapted to extend through the door, a lock drum for retracting the bolt of the lock slidably and rotatably mounted in the post, a lock housing integral with the post, spring-pressed drivers carried by the upper side of the housing, and tumblers carried by the lock drum, the lock housing being provided in its lower side with a groove extending longitudinally of the housing, and the housing being provided with cam grooves extending from the drivers of the lock housing to the longitudinal groove with their deep ends at the longitudinal groove.

2,322,041
AUTOMOTIVE VEHICLE HEATING APPARATUS
Edward Levy Mayo, Cleveland, Ohio, assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 28, 1936, Serial No. 71,466
13 Claims. (Cl. 257—137)

6. In an apparatus of the class described the

combination in an automobile heater having means for heating air and for circulating it through the body of the car, of means for further heating a portion of said air heated by said first-mentioned means, and discharging the same against the surface of the windshield of said car.



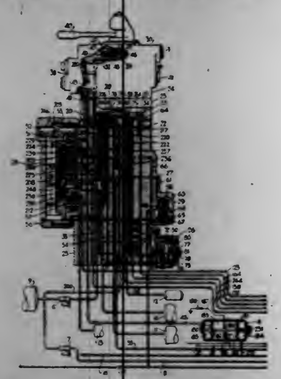
8. A heater comprising, a heating radiator, means for guiding air through the radiator in separate paths, a fan of the axial delivery type for forcing air through one path, a fan of the radial delivery type for forcing air through another path, and a single motor operating both air forcing means.

2,322,042

BRAKE CONTROL MEANS

Glenn T. McClure, McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application November 29, 1941, Serial No. 420,949
15 Claims. (Cl. 303—18)



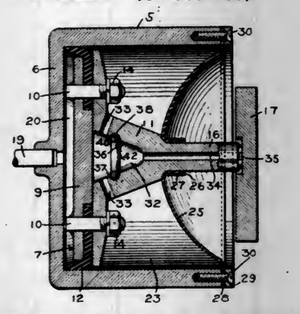
1. In a brake mechanism, in combination, automatic means adapted to operate upon a change in track signals to effect an application of brakes, an engineer's brake valve device operative manually to effect an application of brakes, suppression means normally rendering said automatic means responsive to a change in track signals and operative to render said automatic means non-responsive to a change in track signals, control means for said suppression means operative, upon operation of said brake valve device to effect an application of brakes, to provide a suppression force proportional to the degree of brake application and to provide another force opposing said suppression force, means for retarding the increase in the opposing force with respect to a chosen rate of increase in the degree of brake application, said suppression means being operative by said suppression force upon said chosen rate of increase in brake application to render said automatic means non-responsive to a change in track signal, said opposing force being operative upon an increase in brake application effected by said brake valve device at a rate less than said chosen rate to render said automatic means responsive to said change in track signals, and means controlled by the degree of brake application effected by said brake valve device and operative upon an increase therein to a chosen degree at said chosen rate to render said opposing force ineffective.

2,322,043

BRAKE CYLINDER DEVICE

Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application December 31, 1941, Serial No. 425,018
4 Claims. (Cl. 303—88)



1. In a brake cylinder device, in combination, a cylinder casing having a closed end and an open end, a piston assembly mounted therein and including a follower member carrying a piston rod portion, said piston rod portion being adapted to extend outwardly through said open end of the cylinder casing, a flexible disk or shield having a peripheral portion clamped to said cylinder casing adjacent the open end thereof and an apertured central portion secured to and movable with said piston rod portion, said shield being adapted to close the space at the non-pressure side of said piston assembly, breather means for establishing communication between said space and the atmosphere including a passageway formed in said follower member and the rod portion thereof, and normally closed valve means interposed in said passageway.

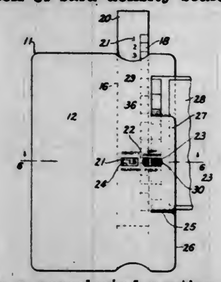
2,322,044

PHOTOGRAPHIC ESTIMATING AND CALCULATING DEVICE

John W. McFarlane and Clyde Everett Moses, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 15, 1941, Serial No. 407,092
5 Claims. (Cl. 88—14)

3. A device for estimating gray scale densities on a negative comprising, in combination, a body portion adapted to support a negative provided with a gray scale certain density steps of which are to be measured, a density scale slidably mounted on said body portion and arranged in abutting relation with said gray scale, said body portion being formed with a slot which affords a small comparison field beneath which limited portions only of said gray and density scales may be arranged in abutting relation for visual comparison, said density scale being slidable on said body portion to bring into said field a portion of said density scale which visu-



ally matches a preselected portion of said gray scale, and a density value carried by the density scale and visible through an aperture in said body portion to indicate the density of the matched preselected step of the gray scale.

2,322,045

LAMP SHADE

Alexander Miller, Chicago, Ill.

Application May 16, 1941, Serial No. 393,750
2 Claims. (Cl. 240—108)



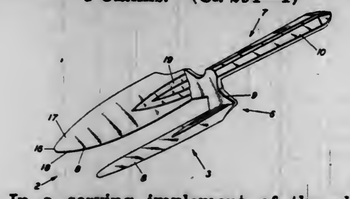
1. A lamp shade comprising a skeleton frame including an upstanding annular wall and a cover thereon, said cover comprising strip-shaped flexible shade-covering material wound in strip form upwardly and downwardly around the outside and the inside of said wall in continuous windings with their edge parts overlapping and the inner end secured in position on the frame, each winding including a turned-under edge part which bears on an edge part of an adjoining winding, and means securing the end of the final winding in position, thereby fully covering the wall and providing a pleated shade cover thereon.

2,322,046

SERVING IMPLEMENT

Royal R. Miller, Los Angeles, Calif.

Application October 19, 1940, Serial No. 361,928
3 Claims. (Cl. 294—1)



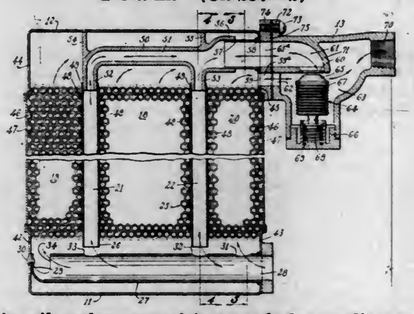
2. In a serving implement of the character described, a hilt comprising a handle and a cross member rigid therewith and extending downward and in both lateral directions therefrom, and a pair of blades mounted independently of each other on said cross member and extending forward therefrom with their longitudinal axes in substantially parallel relationship to each other, the planes of said blades being angularly disposed with respect to each other and said blades being more flexible adjacent their outer ends than adjacent said hilt.

2,322,047

OIL COOLER

Anthony R. Mormile, New Haven, Conn., assignor to The G & O Manufacturing Company, New Haven, Conn., a corporation of Connecticut

Application March 16, 1942, Serial No. 434,878
1 Claim. (Cl. 257—2)



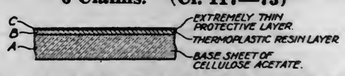
An oil cooler comprising a tubular cooling section having horizontal air passages and generally vertical oil passages, upright by-pass conduits in spaced parallel relation arranged within the body of said cooler section, a lower header having an inlet for oil to be cooled, means in said header for distributing oil to the oil passages of the cooling section and to the lower ends of the by-pass conduits, an upper header having its interior in communication with the oil passages of the cooling section and having a discharge for oil issuing from the oil passages of the cooling section, said upper header also having a second discharge, a manifold within the upper header having a hollow body and hollow legs, the legs being in communication with the upper ends of said by-pass conduits and said manifold being adapted to carry oil from said conduits to said second discharge, a valve housing having portions respectively in communication with the respective discharges of the upper header and divided from each other by a valve seat, and a valve adapted to engage and disengage said valve seat and adapted to control by-passing of the oil through the by-pass conduits and the manifold.

2,322,048

NONTACKY ADHESIVE COATED SHEETING

Gale F. Nadeau and Clemens B. Starck, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

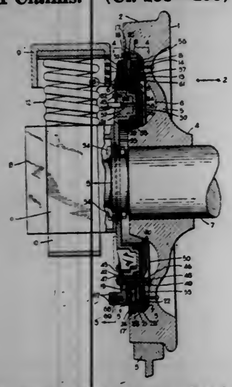
Application June 10, 1938, Serial No. 213,009
6 Claims. (Cl. 117—73)



3. A non-moistening sheet material which is non-tacky at ordinary temperatures but capable of being adhesively joined to the surface merely by application of heat and pressure, comprising a pliable, transparent, cellulose acetate base sheet coated on one surface with a thin layer of

an adhesive vinyl resin which is thermoplastic at a temperature below the fusion point of the cellulose acetate sheet, which layer, if unprotected, would render the sheet tacky and incapable of being rolled upon itself without adhesion, a non-tacky protective coating composed of a cellulose ester containing a plasticizer therefor of almost imperceptible thickness, said layer being superimposed on the resin layer and rendering the sheet capable of being rolled upon itself without adhesion, which under the influence of heat and pressure merges with the resin layer without substantially reducing the adhesive power thereof.

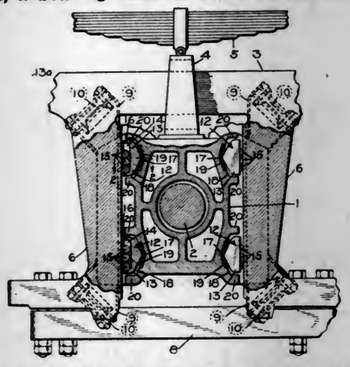
2,322,049
BRAKE MECHANISM
George K. Newell, near Pitcairn, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 31, 1940, Serial No. 348,631
21 Claims. (Cl. 188—153)



1. A brake mechanism for a wheel of a railway vehicle having an axle carried by said wheel and a journal box carried by said axle, said mechanism being disposed in the space between the end of the journal box adjacent the wheel and the adjacent face of said wheel and comprising annular rotatable frictional brake elements secured to rotate with said wheel, annular non-rotatable frictional brake elements interleaved with said rotatable brake elements and an annular brake cylinder means arranged in coaxial and concentric relation with said brake elements and in coaxial relation with said wheel, said brake cylinder means comprising a fixed part secured to said journal box, a movable part slidably mounted on said fixed part and adapted to be operated by fluid under pressure supplied to a chamber between the two parts for moving said non-rotatable brake elements into frictional engagement with said rotatable brake elements, means securing said non-rotatable brake elements to said movable part for holding same against turning, and means securing said movable part against rotation with said rotatable brake elements.

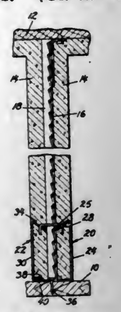
2,322,050
TRUCK CONSTRUCTION
George K. Newell, near Pitcairn, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application April 19, 1941, Serial No. 390,886
6 Claims. (Cl. 105—79)

1. The combination with a vehicle truck or locomotive frame construction of the type comprising a pair of spaced pedestal jaws having bearing surfaces, of axle journal means disposed between said jaws, said frame construction being movable vertically relative to said axle journal means, a bearing member for said axle journal



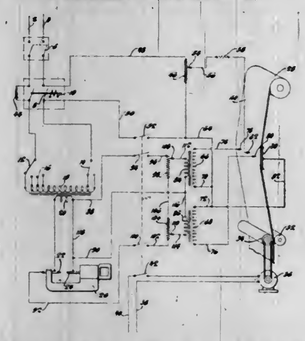
means, said bearing member comprising a shoe having an inverted V-shaped back portion and a recess formed in its front face, anti-friction bearings disposed in said recess for engaging the bearing surface of the pedestal jaw, the apex of said back portion pivotally engaging said axle journal means.

2,322,051
METAL PARTITION STRUCTURE
Edward W. Nicholson, Detroit, Mich.
Application April 24, 1942, Serial No. 440,272
13 Claims. (Cl. 72—46)



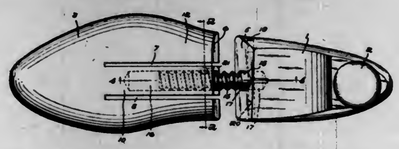
1. A floor track and base assembly for a partition structure comprising a primary element and a co-operating secondary element, each floor track and base element being generally channel shaped in cross section and with the bottom of the channel constituting an upright base portion and one side wall of the channel constituting a floor track flange and the other side wall of the channel constituting a spacer flange, said primary element having a floor track flange of substantially greater width than its spacer flange and adapted to be secured to a floor and to in turn support a sheet of metal lath, said floor track flange having a bead extending along its margin, said secondary element having a floor track flange of substantially less width than its spacer flange, said floor track flange of the secondary element having a bead extending along its margin and adapted to co-operatively engage the bead of the floor track flange of the primary element to secure the base elements together on opposite sides of the lath sheet.

2,322,052
WELD ANALYZER
Jack Ogden, Huntington Woods, and Harold B. Wilkins, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 21, 1940, Serial No. 357,795
4 Claims. (Cl. 219—4)



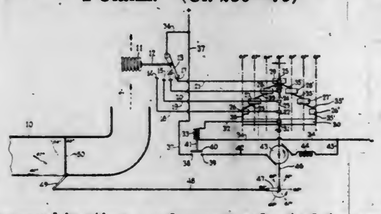
1. In a recording device for measuring time periods of a cycle of a welding machine, a pair of welding electrodes, a supply line connected thereto, a transformer the secondary of which is connected to the supply line, a voltage input connected to the primary, a control switch in the input circuit, a resistance connected across the control switch, a pair of control transformers, a plurality of lines connecting the primaries of the last named transformers to various locations in the secondary welding circuit, a plate, a sensitive strip, means for continuously feeding the strip over the plate, a plurality of electrodes adjacent the strip on the opposite side from the plate, lines separately connecting one extremity of the resistance and each of the pair of transformer secondaries to one of the electrodes and a common line connected to the plate, the opposite side of the resistance and the opposite secondary connection on the pair of transformers whereby voltages developed across the three will be applied to the respective electrode and cause a discharge to the plate making a record on the sensitive paper therebetween.

2,322,053
ADJUSTABLE SHOE TREE
Andrew J. Palardy, Avon, Mass., assignor to Jones & Vining, Inc., Brockton, Mass., a corporation of Massachusetts
Application October 21, 1942, Serial No. 462,795
2 Claims. (Cl. 12—128.1)



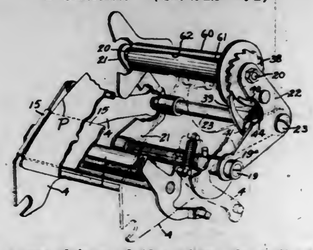
1. A shoe tree of the kind described, having a wooden forepart and a heel part united by a wooden threaded dowel, one end of said dowel being pivotally secured to one of said last parts, and the opposite portion of the dowel adapted to move longitudinally inwardly and outwardly of a smooth opening in the opposite last part, the threads of such dowel engaging a pin fitted into thread-engaging position in said smooth opening, whereby relative rotation of said last parts will adjust the same toward and from each other by rotation of the threaded dowel against said pin.

2,322,054
HEATING AND VENTILATING SYSTEM
Robert J. Parsons, Schenectady, N. Y., assignor to Consolidated Car Heating Company, Inc., Albany, N. Y., a corporation of New York
Application August 13, 1940, Serial No. 352,353
1 Claim. (Cl. 236—76)



In combination, a damper adapted to control the flow of heat to an enclosure, a thermostat in said enclosure, a motor connected to and operating said damper, a switch arm operated by the thermostat and having positions depending upon the degree of heat in the enclosure, a controller, including an insulating drum provided on its periphery with current conducting strips; brushes, one positioned to bear on each strip; means connecting the motor and the controller drum whereby the rotation of the motor causes a rotation of the drum; a relay; a plurality of partial circuits between the switch arm and the controller and a single partial circuit between the controller and the relay, said relay being normally energized when the switch arm is in a closed position with respect to its connections to the controller, the motor circuit being closed when the relay is deenergized by the movement of the switch arm from one position to another, said relay being energized again when the motor has moved the controller a predetermined distance.

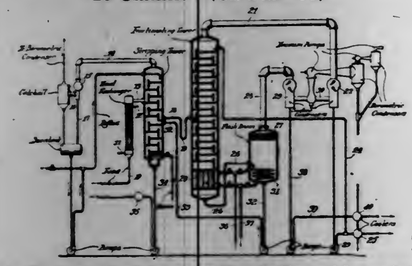
2,322,055
SPOOL
Walter J. Pasinski, Howell, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Original application June 10, 1937, Serial No. 147,430, now Patent No. 2,264,855, dated December 2, 1941. Divided and this application January 4, 1941, Serial No. 373,183
3 Claims. (Cl. 242—74)



1. In a machine of the class described having means carrying a supply of paper strip, a rotatable spool on which said strip is wound, said spool having a hub provided with a slot therein for receiving the end of said strip and providing an edge on one side of said slot over which the strip received in the slot is bent upon winding of said strip, said edge having a centrally located

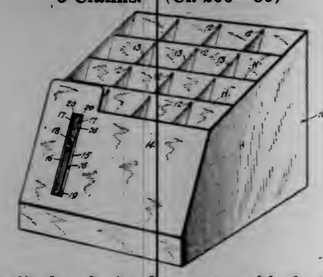
hump extending circumferentially of said hub, said hub having means thereon for maintaining said strip so sharply bent around said hump as to prevent said strip from slipping during initial winding of said strip.

2,322,056
TREATING FATTY ACID-CONTAINING STOCK
Ralph H. Potts, La Grange, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Application October 9, 1939, Serial No. 298,722
16 Claims. (Cl. 202—53)



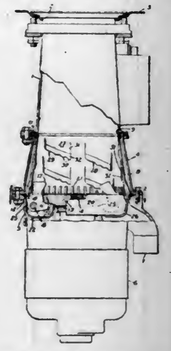
1. In a method for treating fatty acid-containing stock in which fresh charging stock is passed in a confined stream through a heating zone and into a fractionating zone maintained under pressure below atmospheric, the steps of withdrawing bottoms from said fractionating zone to a stripping zone, introducing in said stripping zone the steam necessary for stripping vapors from said bottoms, contacting said incoming heated fresh stock with the steam and stripped vapors from said stripping zone, removing said steam condensing portions of said stripped vapors and passing said condensate free of water together with the heated fresh charging stock to said fractionating zone.

2,322,057
SEPARABLE FASTENER DISPLAY DEVICE
Paul T. Poutinen, Jackson Heights, N. Y., assignor to Waldes Koh-I-Noor Inc., Long Island City, N. Y., a corporation of New York
Application May 13, 1940, Serial No. 334,847
6 Claims. (Cl. 206—80)



1. A display device for a separable fastener including a pair of flexible stringer tapes, rows of interlocking fastener elements attached in opposed relation to said stringer tapes and a slider movable lengthwise on said fastener structure, comprising a flat sheet of material having a front face observable by a customer and provided with an elongated aperture having a width less than the width of the separable fastener, a mount carried on the back of said sheet and arranged to close said aperture, a separable fastener structure provided on said mount and being positioned intermediate the same and said sheet so that its front central longitudinal portion composed of the rows of interlocking fastener elements and the slider project through said aperture and are in position to be readily manipulated by the customer, the side edges of said aperture framing said structure, means fixedly securing the end portions of the flexible stringers to said mount so that the slider can be opened and closed longitudinally of the aperture with greater facility than is normal with the fastener structure per se, and means supporting said mount and fastener structure on the back face of said sheet so as to enable the slider of said structure to be manually moved on the elements thereof in the opening and closing directions without displacing said structure relative to said aperture, said mount and said supporting means being formed and arranged to prevent removal of the fastener structure by a customer through said aperture.

2,322,058
WASTE DISPOSAL UNIT
James H. Powers, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application May 13, 1941, Serial No. 393,227
16 Claims. (Cl. 83—6)

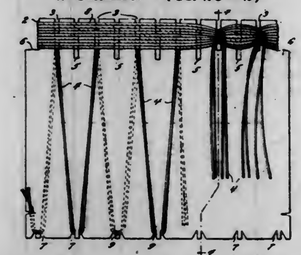


1. In apparatus for the comminution of material, a frustoconical shredding chamber having its outlet at the larger end, an impeller at the larger end of the chamber for whirling the material around the walls of the chamber, and spaced shredding projections on the walls of the chamber having inner faces flaring axially outward toward the larger end of the chamber and terminating in radially and circumferentially extending serrated cutting surfaces presented toward the impeller.

2,322,059
SATURATING ASPHALT
Joseph C. Roediger, Brooklyn, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 16, 1939, Serial No. 304,705
3 Claims. (Cl. 117—168)

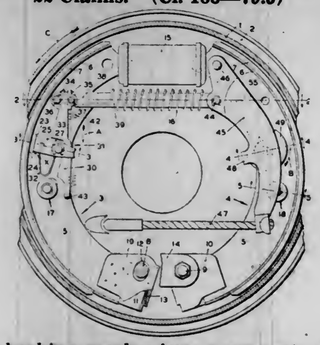
1. The method of preparing a building material which comprises impregnating at temperatures above the boiling point of water, a fibrous material containing moisture with a mixture of straight reduced asphalt of relatively low consistency having a softening point ranging from 78 to 83° F. and an oxidized asphalt from a straight reduced crude of relatively high consistency whereby excessive foaming of the mixture is prevented.

2,322,060
POMPON MAKING DEVICE AND PROCESS
Sydney J. Samuels, Brooklyn, N. Y., assignor to Bernhard Ulmann Co. Inc., New York, N. Y., a corporation of New York
Application December 18, 1940, Serial No. 370,653
2 Claims. (Cl. 28—2)



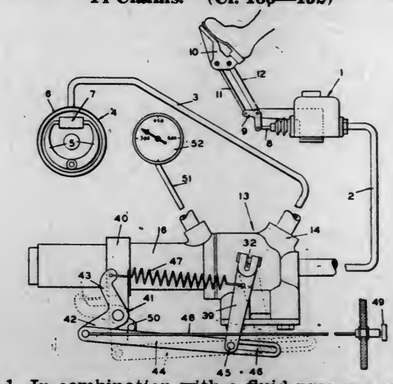
1. In the process of making a plurality of pompons or the like upon a substantially flat former having a plurality of tying cord receiving slots and a plurality of slots adapted to receive a severing instrument, comprising laying a continuous tying cord in a plurality of angularly disposed sections upon both sides of said former in the tying cord receiving slots at substantially equally spaced distances, forming a series of yarn windings angularly with respect to said tying cords, tying the tying cords about said windings, inserting a severing implement 35 between the piston and member 19 fluid-tight. into said severing implement receiving slots and severing that portion of the windings lying over said slots.

2,322,061
AUTOMATIC ADJUSTING MECHANISM FOR BRAKES
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application May 5, 1941, Serial No. 391,930
22 Claims. (Cl. 188—79.5)



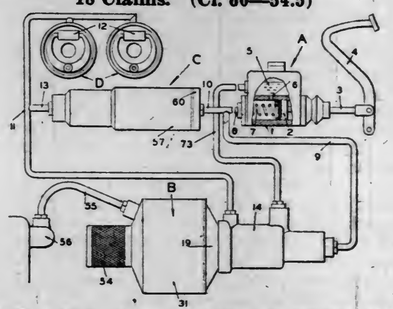
1. In braking mechanism, a support a drum, friction means cooperable with the drum and having two actuatable ends capable of movement into and out of engagement with the drum by an operator-controlled actuating means associated with said ends, anchoring means carried by the support for the friction means, means between said ends independent of the anchoring means for the friction means for limiting the amount of the combined clearances the ends may have with respect to the drum when retracted therefrom, and means for adjusting said last named means so that the combined clearances will remain substantially constant as both actuatable ends of the friction means wear, said means comprising a single control member engaged by the drum and movable in accordance with the amount of wear of the friction means at one predetermined place.

2,322,062
FLUID TRAPPING DEVICE
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application February 19, 1942, Serial No. 431,488
14 Claims. (Cl. 188—152)



1. In combination with a fluid pressure system having a source of pressure and a fluid pressure actuated device connected thereto, of manually-actuatable means for trapping fluid under pressure in the actuated device to thereby permit release of the pressure at the source without release of the actuated device, said trapping means embodying means for preventing fluid under pressure from being held trapped notwithstanding manual actuation thereof unless the pressure developed by the source and effective in the device is greater than a predetermined value.

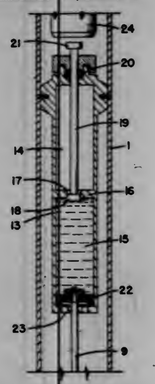
2,322,063
BOOSTER-ASSISTED FLUID PRESSURE COMPOUNDING SYSTEMS
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application March 28, 1942, Serial No. 436,634
18 Claims. (Cl. 60—54.5)



1. In a fluid pressure actuating system, a fluid

motor for actuating a device, a master cylinder device connected to the fluid motor, a power-actuated fluid pressure displacing device connected to the fluid motor and having a source of power independent of the master cylinder device, means for preventing the fluid under pressure developed by the master cylinder from being transferred to the motor until a predetermined fluid pressure is attained in the fluid motor, and means for controlling the operation of the power-actuated device by fluid pressure from the master cylinder prior to said master cylinder being connected to the motor.

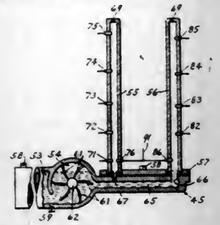
2,322,064
CORING DEVICE
Benjamin W. Sewell, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 22, 1941, Serial No. 423,933
3 Claims. (Cl. 255—72)



1. A pressure coring device comprising a cutting head adapted to cut a core and having a central passage adapted to receive the core, a core-receiving barrel arranged behind said cutter head adapted to assume a forward position and a retracted position and arranged for communication with said passage when in its forward position, means for holding said barrel in its forward position during the coring operation, means operable by a falling weight to move said barrel to its retracted position upon completion of the coring operation, and means operable upon removal of said barrel to its retracted position for sealing said barrel under the pressure of the formation cored.

2,322,065
COMBINATION SPEED GOVERNOR AND DECELEROMETER
Everett P. Sexton, East McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Original application August 28, 1941, Serial No. 408,618, now Patent No. 2,306,505, dated December 29, 1942. Divided and this application November 29, 1941, Serial No. 420,933
7 Claims. (Cl. 264—14)

6. Apparatus for registering the rate of change of speed of a rotary element, said apparatus comprising two vertically extending tubes, container means having a supply of liquid therein, means for impelling liquid from said container means vertically upward in said tubes to levels corresponding substantially to the rotational speed of the rotary element, means for preventing a change in the level of the liquid in one of said

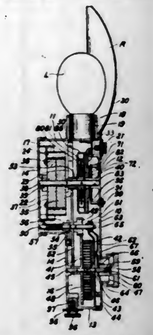


tubes as rapidly as in the other of said tubes, and means controlled in accordance with the relative levels of the liquids in the two tubes.

2,322,066
POLISH AND PROCESS OF MAKING IT
Lois I. Smith, Klamath Falls, Oreg.
No Drawing. Application March 26, 1941, Serial No. 385,371
3 Claims. (Cl. 252—119)

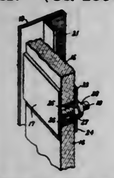
2. The process of making a polish which consists in boiling about ¼ pound of comminuted castile soap in about 1 cup of water until fluid soap is obtained, then pouring the fluid soap into about 6¼ pounds of whiting together with about 1½ ounces of aqua ammonia, 1 ounce of olive oil, and ½ ounce of oil of sassafras, then thoroughly mixing and kneading the resultant until a relatively stiff moldable consistency is obtained.

2,322,067
FLASHLIGHT SYNCHRONIZING DEVICE
Ernest V. Soreny, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 20, 1940, Serial No. 341,528
9 Claims. (Cl. 67—29)



1. In an electro-mechanical flashlight synchronizing device the combination comprising an electric generating machine, a mechanism serving to put into motion the movable part of said machine, a flash lamp, an open electric circuit between said lamp and said machine, a shutter release adapted to be connected to the shutter of a photographic camera, a member movable to and from an operative position wherein it closes said circuit and actuates said shutter release, and normally moved from said operative position, means for connecting said member to said movable part of the machine to be moved thereby to said operative position, said connecting means including a clutch which is normally ineffective, and is adapted to become effective only when the movable part of said machine is moving at a speed necessary to generate sufficient current to ignite said flash lamp.

2,322,068
PANEL
George B. Starie, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 12, 1941, Serial No. 410,563
3 Claims. (Cl. 189—34)



1. A panel for supporting electric apparatus comprising two parallel upright end T bars arranged with their bases on their outer sides and with their central flanges extending toward each other, at least three pairs of angle bars, top, bottom and intermediate, extending substantially horizontally between said upright bars and having their ends secured to said central flanges of said upright bars in front overlapping relation therewith, said pairs of horizontal bars being spaced vertically apart and the bars of each pair being close together with the top bar of each pair having a back flange extending upward and a bottom flange extending forward and the bottom bar of each pair having a back flange extending downward and a top flange extending forward, rectangular slabs of electrically insulating material extending between said pairs of horizontal bars so that each slab rests against the back flanges of adjacent top and bottom bars of the pairs and is supported on the forwardly projecting flange of said adjacent bottom bar, there being top and bottom slabs and at least two slabs having bottom and top edges adjacent each other and supported by said intermediate pair of horizontal bars, an intermediate clamping plate overlapping said adjacent edges, bolts secured to said plate extending between said intermediate pair of horizontal bars for clamping said two slabs against said back flanges, a top clamping plate extending between the tops of said upright bars and having its lower edge overlapping the upper edge of the said top slab, projections on the upper side of said plate engaging at each end the central flanges on said upright bars, and clamping bolts secured to said top plate extending between said top pair of horizontal bars for clamping the lower edge of said plate against the upper side of said top slab and said projections against said central flanges on said upright bars.

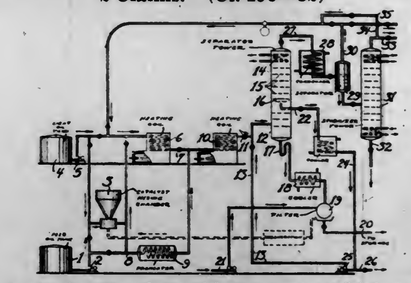
2,322,069
RELAY
Allen G. Stimson, Lynnfield, Mass., assignor to General Electric Company, a corporation of New York
Application April 18, 1942, Serial No. 439,508
5 Claims. (Cl. 200—88)

1. An overload relay comprising in combination, a hollow cylindrical base of insulating material closed at one end, fixed contacts mounted upon said base, a movable bridging contact extending diametrically of said base, a U-shaped permanent magnet slidably mounted within said base to actuate said bridging contact, spring means for biasing said bridging contact into following engagement with said magnet, a helical spring surrounding said permanent magnet and engaging said base to bias said magnet to a contact disengaging position, a substantially flat coil of thermo-magnetic wire wound upon a flat spool of insulating material fixedly attached to said base and disposed opposite the closed end thereof normally to engage the pole faces of said magnet as a keeper for releasably retaining said magnet



in a contact engaging position, said coil comprising a plurality of convolutions one of the longer sides of each of which extends substantially longitudinally of the path of magnetic flux between said pole faces when said magnet is in said contact engaging position, and means for supplying electric current to said coil to heat said wire, whereby with loss of magnetic permeability said keeper coil releases said magnet with a snap action to disengage said contacts.

2,322,070
METHOD FOR CONVERTING HYDROCARBON OILS
Reginald K. Stratford, Corunna, Ontario, and Roy H. Smith, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware
Application June 12, 1940, Serial No. 340,012
2 Claims. (Cl. 196—52)

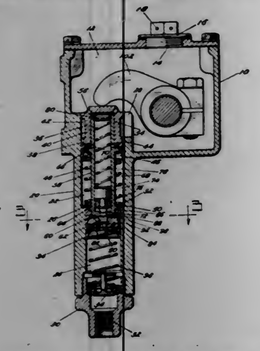


1. An improved cracking process which comprises passing heavy naphtha through a heating coil under pressure above 400 pounds per square inch and at a temperature sufficient to reform the naphtha, then admixing the reformed naphtha while hot with a heavier distillate oil to be cracked, and passing this mixture through a second heating coil under pressure of at least 300 pounds per square inch and temperatures between 1000 and 1100° F., while in a completely vaporized condition and in the presence of a finely divided siliceous cracking catalyst whereby a substantial portion of the heavier distillate is cracked to gasoline, then separating the gasoline so produced.

2,322,071
FLUID PRESSURE SYSTEM
Harvey C. Swift, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application August 26, 1940, Serial No. 354,297
8 Claims. (Cl. 60—54.6)

7. A fluid pressure producing device comprising

a cylinder having a large chamber and a relatively small chamber, a piston movable in each of the chambers for creating pressure, a storage chamber carried by the piston in the large chamber having communication with the large chamber, a spring-pressed piston in the storage chamber, and a part on the piston of lesser area than the piston for controlling the communication between the large chamber and the storage chamber.



2,322,072

PURIFICATION OF INTERPOLYMERS

Robert M. Thomas, Union, and Irving E. Lightbown, Roselle, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana

No Drawing. Application July 1, 1939, Serial No. 282,478
12 Claims. (Cl. 260—79)

4. In the processing of solid, plastic copolymerizates obtained by the polymerization of an isoolefin with a conjugated diolefin in contact with a solution of a Friedel-Crafts type catalyst at a temperature between —50° C. and —150° C., the steps of segregating the copolymers into fractions, separating the fractions of molecular weight below about 2,500 from the fractions of higher molecular weight, compounding the latter with sulfur and sulfur compounds and curing the material with the aid of heat to a strong, blister-free condition.

2,322,073

OLEFINIC INTERPOLYMERIZATION PROCESS AND PRODUCT

Robert M. Thomas, Union, N. J., and William J. Sparks, Alexandria, Va., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana

No Drawing. Application December 21, 1939, Serial No. 310,341
20 Claims. (Cl. 260—79)

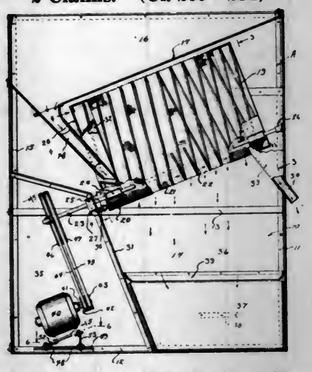
10. The method of preparing an isobutylene interpolymer comprising the steps of mixing isobutylene, and a diisopropenyl substituted hydrocarbon compound having 7 to 12 inclusive carbon atoms per molecule, cooling the mixture to a temperature below —50° C., polymerizing the mixture by the application thereto of a liquid solution of an active halide Friedel-Crafts catalyst comprising aluminum chloride dissolved in an alkyl halide, separating the polymer from residual mixture, mixing the polymer with a sulfogenetic substance containing releasable sulfur and curing the mixture by the application of heat.

2,322,074

SEPARATING AND GRADING MACHINE

Robert E. Thurner, Milwaukee, Wis.

Application December 17, 1940, Serial No. 370,507
2 Claims. (Cl. 209—284)



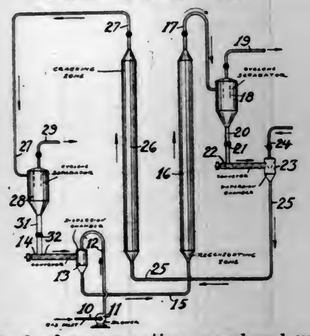
1. In a separating and grading machine, a hopper for initially receiving material, an inclined drum rotatably mounted below the hopper having a body portion provided with openings for permitting the passage of fine particles therethrough, a feed screw carried by the interior of said drum for conveying material from the low end of the drum to the high end of the drum, a receiving funnel arranged under the high end of the drum, means for rotating the drum, an annular shield plate carried by the lower end of the drum for preventing discharge of the material from the lower end of the drum, a flared distributing skirt carried by the annular shield plate extending into said drum, and a delivery spout leading from the hopper and extending into the lower end of the drum through the shield plate terminating in close proximity to the distributing skirt for delivering material directly thereon.

2,322,075

REGENERATION OF POWDER

Charles W. Tyson, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 30, 1940, Serial No. 368,026
1 Claim. (Cl. 252—242)



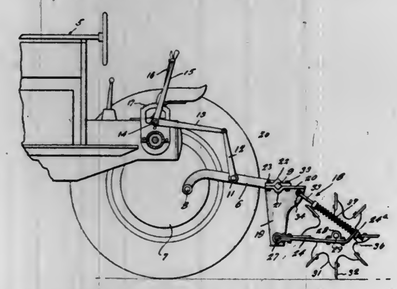
A method of regenerating powdered material contaminated with carbonaceous deposits wherein the regenerating temperature must be maintained below a predetermined maximum to avoid injuring the powdered material, which comprises suspending the powdered material to be regenerated in air, passing the resulting suspension through a regenerating zone, maintaining an oxidizing atmosphere within said zone at least at a minimum temperature sufficient to ignite said carbonaceous deposits, maintaining the temperature below said predetermined maximum solely by regulating the velocity of the air stream passing through said regenerating zone, and thereafter separating the powdered material from the gaseous stream.

2,322,076

STALK CUTTER

James O. Watson, Cooper, Tex., assignor of one-fourth to C. C. Pickens, Cooper, Tex.

Application April 30, 1941, Serial No. 391,176
2 Claims. (Cl. 55—61)



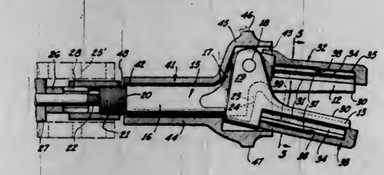
1. A stalk cutter for attachment to a farm tractor having bedding equipment mounted thereon, said attachment embodying a pair of brackets of plate form disposed vertically and having a horizontal flange at their upper edges provided with clamps for positively securing the brackets to the cross bar of such bedding equipment, reel carrying arms pivoted at one end thereof to the lower portion of said brackets and projecting rearwardly from the brackets, suspension rods for said arms pivoted at one end to an upper portion of said brackets and having free ends loosely engaged with the free ends of said arms, a stalk cutting reel rotatably supported by and between said arms at an intermediate portion of the latter, and spring devices associated with said suspension rods and impinging against the free ends of said arms, yieldably urging the arms downwardly.

2,322,077

ELECTRODE HOLDER

Martin Wells, Los Angeles, Calif.

Application June 13, 1942, Serial No. 446,884
13 Claims. (Cl. 219—8)



3. In an electrode holder of the class described, the combination of: a body having jaws projecting from the forward portion thereof; means to move at least one of said jaws toward the other; an insulated handle connected to said body; tubular insulating means on said body to hold the same from contact with other objects, said tubular insulating means having a non-circular external portion to provide non-rolling engagement with a supporting surface; and insulating means for said jaws.

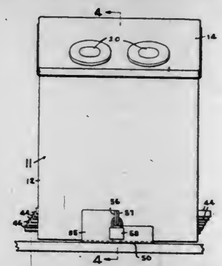
7. In an electrode holder of the class described, the combination of: a body having jaws projecting from the forward portion thereof, said jams having track means on the exterior thereof; means to move at least one of said jaws toward the other; an insulated handle connected to said body; insulating means on said body to hold the same from contact with other objects; insulating means for said jaws, said last named insulating means having track means for cooperating interlocking engagement with said track means of said jaws and being slidable onto said jaws and resilient means to lock the insulating means on said jaws.

2,322,078

PICTURE DISPLAY BOX

Richard R. Whiting, Norwood, Ohio

Application February 17, 1941, Serial No. 379,170
8 Claims. (Cl. 88—31)



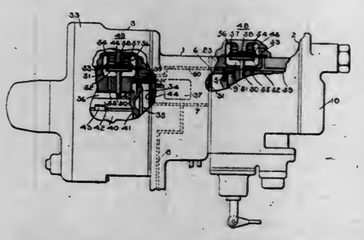
1. In a picture display box, an enclosed box, a removable holder extending into the box, said holder forming part of the base of said box with means for locking said holder to said box, guides extending upwardly from said holder, bars slidable on said guides, and picture cards secured to said bars.

2,322,079

BRAKE DEVICE

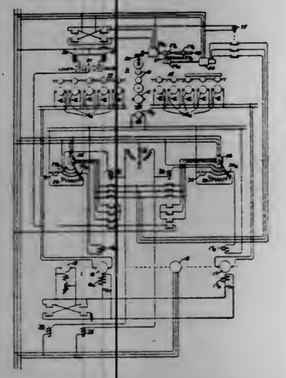
Ralph T. Whitney, Irwin, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application June 27, 1942, Serial No. 448,726
27 Claims. (Cl. 303—1)



1. In combination, a casing having a piston bore, a piston disposed to reciprocate in said bore and comprising a piston head, pressure means in said casing arranged to act on said piston head to urge same radially against the wall of said bore, and means controlled by said piston operative to render said pressure means ineffective upon movement of said piston.

2,322,080
CONTROL FOR RUNOUT TABLES OF REVERSING MILLS
Herbert Wickler, Berlin-Hohenschonhausen, and Hugo Heymann, Berlin-Lankwitz, Germany, assignors to General Electric Company, a corporation of New York
Application November 6, 1940, Serial No. 364,588
In Germany December 15, 1939
11 Claims. (Cl. 80—33)



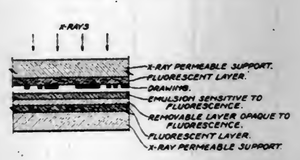
1. A control system for a rolling mill having run-out tables on each side of the rolls and a screw-down mechanism for varying the opening between the rolls, individual driving means for each of said run-out tables, means for actuating said screw-down mechanism to effect a predetermined reduction in the thickness of the material being rolled, and means responsive to the actuation of said screw-down mechanism for controlling the relative speeds of said driving means so that the speeds of operation of said run-out tables differ from each other in accordance with the pass reduction being effected by said rolls.

2,322,081
SWIVEL MOUNT FOR STRIKING BAGS
Alvin C. Wright, Grand Rapids, Mich.
Application March 16, 1942, Serial No. 434,816
3 Claims. (Cl. 272—78)



1. In a device of the class described, a base adapted for attachment to a horizontal surface and having a downwardly extending shank, a collar detachably mounted on the lower end of said shank and having a bearing surface in its lower end forming with the lower end of the shank a socket, a ball disposed in the socket and provided with an upwardly extending cavity therein adapted to receive the end of a rope, and means for detachably securing said rope within said cavity comprising complementary internally threaded clamping members adapted to grip said rope therebetween and to snugly fit within said cavity.

2,322,082
PHOTOGRAPHIC PROCESS
Clarence L. A. Wynd and Gerould T. Lane, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Original application September 23, 1941, Serial No. 411,968. Divided and this application May 1, 1942, Serial No. 441,280
5 Claims. (Cl. 250—65)



1. The method of preparing a negative in terms of luminescent and non-luminescent areas of an original drawing defined by luminescent and non-luminescent areas which comprises exciting the luminescent areas of the original to make them luminesce, exposing to the resulting luminescing image a light-sensitive emulsion overlying a layer of luminescent material carried by an opaque support and developing the exposed layer.

2,322,083
EXTRACTION PROCESS
Franciscus Johannes Fredericus van der Plas, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 9, 1939, Serial No. 308,426. In the Netherlands December 12, 1938
14 Claims. (Cl. 196—13)

1. A process for the manufacture of refined products from a mixture consisting essentially of non-aromatic hydrocarbons and a substance selected from the group consisting of aromatic, oxy and sulphur hydrocarbons, comprising the steps of bringing said mixture while in the liquid state into contact with liquid antimony trichloride as such in a solvent capacity, under conditions to dissolve a portion of said mixture in said antimony trichloride and to produce a liquid extract phase containing at least a portion of said substance and a liquid raffinate phase, and separating said phases.

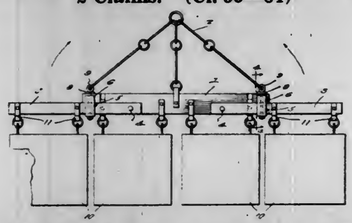
2,322,084
SIMULTANEOUS BLEACHING AND FIXING BATH
Richard V. Young and Merrill W. Seymour, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 6, 1940, Serial No. 364,548. In Great Britain January 11, 1940
8 Claims. (Cl. 95—6)

1. A method of producing a colored photographic image in a gelatino-silver halide layer containing a dye capable of being decolorized by reduction, which comprises exposing and developing the layer to produce a metallic silver image therein, and then simultaneously bleaching the dye and fixing out the silver and silver halide in a bath containing an acid bleaching agent, a mild oxidizing agent for silver, and a fixing agent.

2,322,085
PHOTOGRAPHIC EMULSION
Henry C. Yutzy, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application May 14, 1941, Serial No. 393,413
7 Claims. (Cl. 95—7)

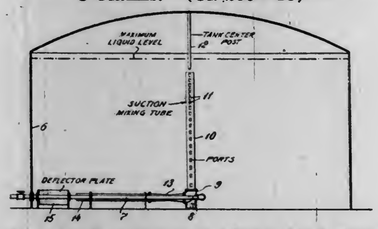
1. A method of preparing a gelatin-silver halide photographic emulsion which comprises preparing the silver halide in a solution of a water-soluble ethanolamine cellulose acylate and subsequently incorporating a sufficient amount of gelatin therein to form a protective colloid for the silver halide.

2,322,086
DRAWBAR
Herman W. Zimmerman, Rock Valley, Iowa
Application October 30, 1942, Serial No. 463,984
2 Claims. (Cl. 55—84)



1. A folding drawbar comprising a main tree, auxiliary trees having one end portion pivotally secured to the main tree at points spaced inwardly from the ends thereof and adapted for swinging movement in a horizontal plane, and substantially U-shaped members mounted on the end portions of the main tree and having their open ends forwardmost for the reception of the auxiliary trees, said members constituting stops for retaining the auxiliary trees in operative position in parallelism with the main tree.

2,322,087
EDUCTOR TANK MIXER
Edwin H. Atwood, Woodbury, N. J., assignor to Socony-Vacuum Oil Company Incorporated, New York, N. Y., a corporation of New York
Application December 10, 1942, Serial No. 468,508
8 Claims. (Cl. 259—18)



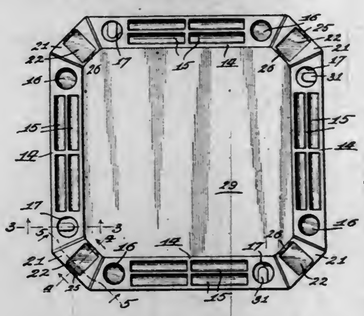
1. In a tank and mixer of the kind described a pipe for supplying fluid to the tank, an eductor in which the supply pipe terminates in a nozzle to supply jet fluid therefor, an upwardly extending intake pipe leading into said eductor, orifices so distributed along the length of that intake pipe that fluids may be drawn thereinto from all levels within the tank, and a discharge tube leading from the eductor and substantially horizontally mounted so as to cause circulatory motion of the fluid within the tank about the vertical axis of the latter.

2,322,088
DOOR FOR FREIGHT CARRYING VEHICLES
James J. Black, Cincinnati, Ohio, assignor, by mesne assignments, to The Fifth Third Union Trust Company, Cincinnati, Ohio
Application May 5, 1941, Serial No. 391,867
6 Claims. (Cl. 160—195)



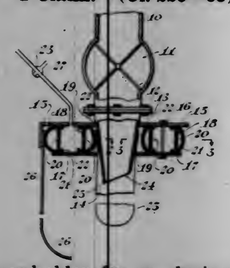
3. A door construction, comprising a roll-up door comprising sections disposed horizontally, hinges joining said sections, guide rollers extended from a side edge of the door, inner and outer jamb sections at a side of the door providing a guideway for the door, said inner jamb section providing a cover for the hinges and rollers on the inside of the door, and the outer jamb section being removable to permit direct rearward displacement of the sliding door.

2,322,089
GAME TABLE TOP
Meyer Greitzer, Los Angeles, Calif.
Application June 27, 1941, Serial No. 399,961
4 Claims. (Cl. 273—136)



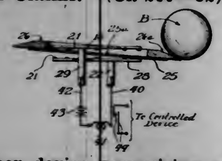
4. In a game table top, a supporting frame, a rectangular table top removably positioned on top of said frame, rails secured on said frame at the sides of said table top, the upper faces of which rails occupy the same horizontal plane with the upper surface of the table top and are provided with recesses for the reception of game accessories, corner blocks secured to said frame between the ends of the rails, which corner blocks are provided in their upper faces with recesses for the reception of game accessories and said blocks, to the rear of said recesses, being provided with notches giving access to the corner portions of said table top.

2,322,090
BAG FILLING APPARATUS
Albert C. Hobbie, Moorestown, N. J., assignor to International Pulverizing Corporation, Moorestown, N. J., a corporation of New Jersey
Application June 19, 1941, Serial No. 398,826
1 Claim. (Cl. 226—58)



A container holder, for use during the filling of non-rigid containers with bulk material, comprising a vertically disposed bulk goods delivery spout, a horizontally disposed, rigid supporting member about said spout, a horizontally disposed, flat, ring-like member of internal diameter greater than that of the spout dependent from said rigid supporting member, and spaced therefrom, a rigid, vertically walled ring concentric with the spout for spacing the horizontally disposed rigid supporting member from the flat ringlike member, a continuous band of distensible, rubber-like material secured along its upper rim between the first said rigid supporting member and the vertically walled rigid ring member and at its lower rim between said vertical ring member and the horizontally disposed dependent ring, forming a continuous pocket between said band and the vertically walled ring, and means for introducing fluid under pressure into said pocket whereby the rubber-like material may be distended into engagement with a container in position to be filled.

2,322,091
BALL BUMPER
Donald E. Hooker and Callard Livingston, Chicago, Ill., assignors to Ace Patents Corporation, Chicago, Ill.
Application October 24, 1941, Serial No. 416,292
9 Claims. (Cl. 200—52)



1. A bumper device comprising a post structure adapted for mounting in a ball rolling field, a disc-like structure mounted concentrically of said post for rocking motion from a plane approximately parallel to that of said field, contact means between which a portion of said disc structure is mounted, said structure including a conductive portion for closing a circuit between said contact means responsive to predetermined rocking movement of said disc structure, and means for resiliently suspending said disc structure in a normally elevated condition with respect to said field and a part of said contact means so that a playing piece in said field may engage said disc structure and spring the same in circuit closing action as aforesaid and effectuate rebound action of said structure.

2,322,092
WINDOW SHADE ATTACHING MEANS
Samuel J. Johnson, West Chester, Ohio, assignor to Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland
Application July 23, 1941, Serial No. 403,713
5 Claims. (Cl. 160—402)



1. As a new article of manufacture a clip for fastening a window shade to a roller; said clip being of approximate C configuration and having at each end thereof a blunt pointed tang bent inwardly toward the shade roller at approximately a right angle thereto for holding the shade to the roller in gripping relationship without unduly marring the surface of the shade.

2,322,093
MINERAL OIL COMPOSITION
Robert C. Moran, Wenonah, N. J., Ebenezer E. Reid, Baltimore, Md., and Lyle A. Hamilton, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application October 26, 1939, Serial No. 301,374
10 Claims. (Cl. 252—46)

1. An improved petroleum product comprising a mineral oil fraction selected from the group consisting of highly refined viscous mineral oils and refined paraffin wax and in admixture therewith a minor proportion, from about 0.01 per cent to about 1.0 per cent, of a mercaptal, the said mercaptal being an organic sulfur-containing compound which is characterized by attachment of two sulfur atoms to a common carbon atom, said common carbon atom also being attached to a hydrogen atom and to a hydrocarbon radical, and the said compound being further characterized by attachment of each of said sulfur atoms to a hydrocarbon radical, and being free of sulfur-containing heterocyclic rings.

2,322,094
PRODUCTION OF MONOFILAMENTS
Wayne I. Newhard, Conneautville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 18, 1941, Serial No. 419,571
19 Claims. (Cl. 57—157)

1. In the method of forming a unitary filament by fusing a bundle of filaments formed of thermoplastic material and subsequently polishing the surface thereof by abrading, the step of subjecting the filamentary material at a stage of manufacture prior to final polishing by abrading to a superficial treatment with a swelling agent therefor and to a substantially complete drying thereof.

2,322,095
CATALYTIC HYDROGENATION OF ORGANIC COMPOUNDS
Otto Schmidt, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 1, 1931, Serial No. 527,060. In Germany November 20, 1925
10 Claims. (Cl. 260—638)

1. The process for the production of alcohols which comprises heating an organic compound having at least 2 carbon atoms and containing a carboxylic radicle in the liquid state in the presence of hydrogen and of a hydrogenation catalyst comprising essentially a metal selected from the group consisting of copper, cobalt and nickel and a small quantity of at least one oxygen containing compound of the metals of from the 1st to 7th groups of the periodic system at a pressure of above 50 atmospheres and at a temperature between 120° and 300° C. until the saponification value of the initial material is considerably diminished and substantial quantities of alcohols coresponding to the said carboxylic radicle are formed.

2,322,096
CATALYTIC HYDROGENATION OF HIGH MOLECULAR ALIPHATIC CARBOXYLIC ACIDS
Otto Schmidt, Heidelberg, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Original application April 1, 1931, Serial No. 527,060. Divided and this application June 26, 1941, Serial No. 399,926. In Germany November 20, 1925
20 Claims. Cl. 260—638)

1. The process of preparing alcohols which comprises subjecting an aliphatic carboxylic acid having more than five carbon atoms to a high temperature and pressure adapted to effect the reduction of acids to alcohols in the presence of hydrogen and a hydrogenating catalyst until reduction of the acid to alcohol has taken place.

2,322,097
CATALYTIC HYDROGENATION OF ALIPHATIC CARBOXYLIC ACID ANHYDRIDES
Otto Schmidt, Heidelberg, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Original application April 1, 1931, Serial No. 527,060. Divided and this application June 26, 1941, Serial No. 399,927. In Germany November 20, 1925
12 Claims. (Cl. 260—638)

1. A process of producing alcohols which comprises treating with hydrogen an anhydride of an aliphatic carboxylic acid, said acid containing more than one carbon atom per carboxyl group, at a temperature in excess of 200° C., and under a pressure of at least 30 atmospheres in the presence of a hydrogenating catalyst.

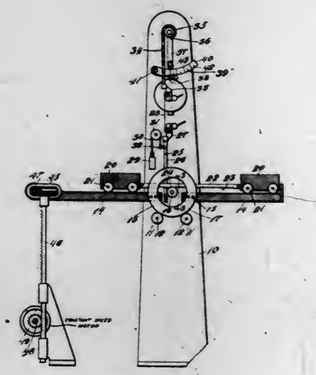
2,322,098
CATALYTIC HYDROGENATION OF ALICYCLIC CARBOXYLIC ACIDS
Otto Schmidt, Heidelberg, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Original application April 1, 1931, Serial No. 527,060. Divided and this application June 26, 1941, Serial No. 399,928. In Germany November 20, 1925
18 Claims. (Cl. 260—617)

1. The process of producing high molecular alcohols which comprises reducing a naphthenic acid with hydrogen in the presence of a hydrogenating catalyst and under elevated temperature and pressure.

2,322,099
CATALYTIC HYDROGENATION OF ORGANIC COMPOUNDS
Otto Schmidt, Heidelberg, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Original application April 1, 1931, Serial No. 527,060. Divided and this application July 29, 1941, Serial No. 404,521. In Germany November 20, 1925
16 Claims. (Cl. 260—635)

1. The process for the production of alcohols of high molecular weight which comprises reacting an ester of a carboxylic acid having more than 8 carbon atoms in the acid radical with hydrogen at a temperature of from 300° to 400° C. and under a superatmospheric pressure in the presence of a hydrogenating catalyst.

2,322,100
CONSTANT RATE OF LOAD TESTING APPARATUS
David C. Scott, Providence, R. I., assignor to Henry L. Scott Company, a corporation of Rhode Island
Application February 5, 1940, Serial No. 317,277
10 Claims. (Cl. 265—17)

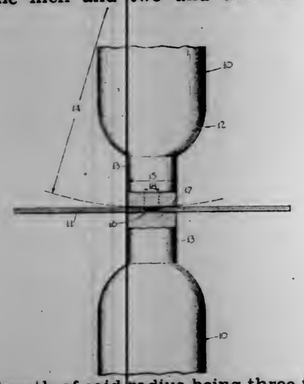


5. In a testing apparatus, specimen holding means, load applying means therefor comprising a rotatable member movable about a fixed center and having inclinable runways extending therefrom, an arcuate segment fixed to said rotatable member, and means operably connected to said segment for moving the same to incline said runways and weights on the runways to load the specimen.

2,322,101
WELDING ELECTRODE
Joseph Winlock and John J. MacKinney, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application February 3, 1942, Serial No. 429,354
5 Claims. (Cl. 219—4)

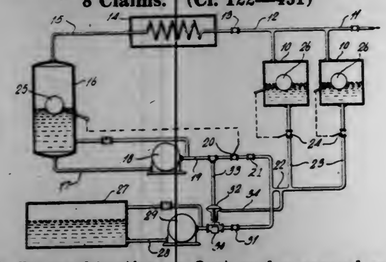
2. A welding electrode having a spherical end

tip, the radius of said tip being substantially between one inch and two and one-half inches



and the length of said radius being three to eight times the diameter of said tip.

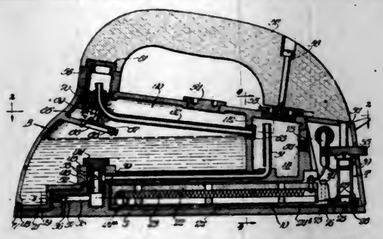
2,322,102
LIQUID FLOW REGULATOR
Jean F. Gschwind, Scarsdale, N. Y., assignor to J. O. Ross Engineering Corporation, New York, N. Y., a corporation of New York
Application July 17, 1941, Serial No. 402,797
8 Claims. (Cl. 122—451)



7. In combination, a first and a second source of liquid under pressure, a pressure vessel, connections for supplying liquid to said vessel from each source, a valve for interrupting flow from said first source of liquid to said pressure vessel, means for closing said valve upon predetermined reduction of said first liquid source, means responsive to the liquid requirements of said vessel for regulating flow thereto and means for preventing flow from said second source into said vessel except when the differential between the pressures on the opposite sides of said valve exceeds a predetermined value.

2,322,103
STEAM ELECTRIC SADIRON
Bernard Altman and Paul Stiller, New York, N. Y.
Application June 24, 1940, Serial No. 342,132
7 Claims. (Cl. 38—77)

3. In a steam iron of the character disclosed, a sole plate having steam emission openings, a hollow body mounted on said sole plate and having a steam dome adjacent the front thereof, means affording communication between the steam dome and said steam emission openings, said means including a steam tube extending from the interior of said body up into said steam dome with its upper end opening into the steam dome and its lower end in fluid communication with said steam emission openings, a trap plate below said steam dome, said trap plate being inclined downwardly and rearwardly, a spike



projecting upwardly from said trap plate and filtering material impaled on said spike.

2,322,104
AIRCRAFT TANK CONSTRUCTION
Alex Francis Arcier, Dayton, and Clayton J. Brukner, Troy, Ohio, assignors to Waco Aircraft Company, a corporation of Ohio
Application November 16, 1940, Serial No. 365,896
11 Claims. (Cl. 244—135)



1. In aircraft tank construction, a wing having leading and trailing spars and spanwise spaced interspar elements forming a cellular receptacle therebetween, the wing undersurface forming the bottom of said receptacle, a single sheet of fluid resistant flexible material folded to form a lining for the sides and bottom of said receptacle and an outwardly extending flange at its upper periphery, and a rigid removable cover adapted to engage said flange in fluid-tight relationship and serve as a portion of the exterior surface of said wing.

2,322,105
BITUMINOUS COATING FOR TIMBER
Walter Paul Arnold, Orrville, Ohio, assignor, by mesne assignments, to Koppers Company, a corporation of Delaware
No Drawing. Application July 15, 1940
Serial No. 345,674
9 Claims. (Cl. 117—103)

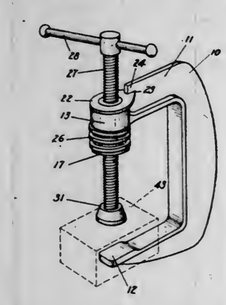
1. In the art of providing wood, and the like, with a substantially continuous, moisture-repellent coating of a bituminous liquid that is highly viscous at ordinary temperatures, the steps comprising: impregnating such material to a substantial depth with the bituminous liquid by means of pressure on the bituminous liquid in contact with the material and thereby confining within its cellular structure an ejectable quantity thereof that is at least adequate to coat its exterior surface; removing the so-impregnated material from contact with excess of said liquid; reducing the external pressure on the material to allow the so-impregnated liquid to extrude from said material's cellular structure onto its surface; and during the extrusion subjecting the surface of the material to a gradual cooling so correlated with respect to the gradual viscosity change of said liquid resulting from its gradual drop in temperature as to effect its coalescence over the material's surface and its retention thereon as a substantially continuous non-tacky surface coating that is pliable to withstand ordinary shock, by gradually increasing its viscosity on the surface

of the material to correspond with the gradual increase in viscosity typical of the liiquid over the range of cooling.

2,322,106
MANUFACTURE OF COATING COMPOSITIONS
László Auer, Bloomfield, N. J., assignor to Ridbo Laboratories, Inc., Paterson, N. J., a corporation of New Jersey
No Drawing. Application September 9, 1940, Serial No. 356,103. In Hungary May 19, 1926
15 Claims. (Cl. 106—222)

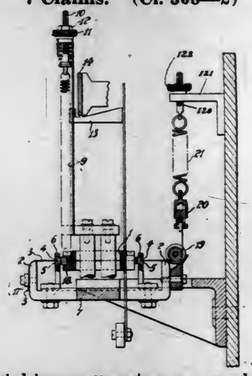
1. In the preparation of varnish bases, a multistep process comprising first heating a batch of an organic isocolloid varnish base material selected from the class consisting of fatty oils and resins to a temperature above 100° C., but not above 350° C. or the boiling or decomposition point, with from 2% to 30% of a polar compound, to modify the properties of said batch of varnish base material extensively, including raising the solidification point and viscosity thereof, and thereafter blending said extensively modified varnish base material with a second batch comprising an additional constituent of the varnish base being prepared which additional constituent is selected from the class consisting of fatty oils and resins, and heating the blend to a temperature above 100° C., but not above 350° C. or the boiling or decomposition point thereof; the modification in the material of said first batch being of greater extent than could be effected therein by the same treatment applied to the total varnish base being prepared; whereby a modified varnish base is secured having improved characteristics, such as color and drying properties, as compared with a similar modified varnish base secured by conjoint treatment of the several constituents thereof.

2,322,107
CLAMPING MEANS
John A. Balcar, Cedar Rapids, Iowa, assignor of one-half to Willard H. Seiffert, Iowa City, Iowa
Application January 16, 1941, Serial No. 374,626
3 Claims. (Cl. 144—304)



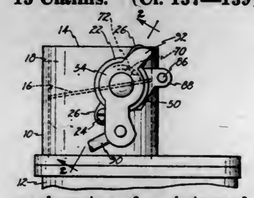
1. In a clamp, a yoke having an anvil on one arm thereof, a nut slidable in an opening in the other arm of the yoke, means including a flattened portion of the nut and a pin in the yoke for preventing rotation of the nut but permitting longitudinal movement thereof, resilient means for biasing the nut toward the anvil of the clamp, and a screw, threaded through the nut, for applying pressure to the work.

2,322,108
WEIGHING APPARATUS
Cyril Best, Deptford, London, England, assignor to Molins Machine Company, Limited, London, England
Application April 10, 1940, Serial No. 328,947
In Great Britain April 21, 1939
7 Claims. (Cl. 308—2)



1. In weighing apparatus, a member mounted for swinging movement, a tensioned flexible element of small cross-sectional dimensions to which said member is secured and which acts as the support for said member, extensions on said member, which extensions surround the flexible element, and guides into which said extensions extend and in which they are freely movable to prevent undue accidental strain on said flexible element.

2,322,109
CARBURETOR
Elmer M. Bimberg, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 4, 1941, Serial No. 386,797
13 Claims. (Cl. 137—139)

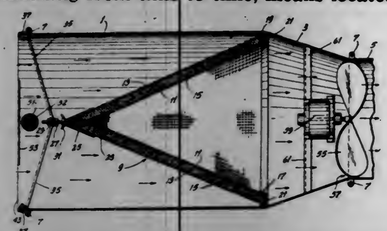


1. In a carburetor for internal combustion engines, an unbalanced choke valve, a shaft therefor, and means for controlling said choke valve comprising an actuating member, means for locking said actuating member and shaft together for simultaneous movement, means for releasing the locking means, and means for spring loading the choke valve when said locking means is released.

2,322,110
EVAPORATOR
Frederick L. Bock, St. Louis, Mo.
Application February 7, 1942, Serial No. 429,907
7 Claims. (Cl. 261—30)

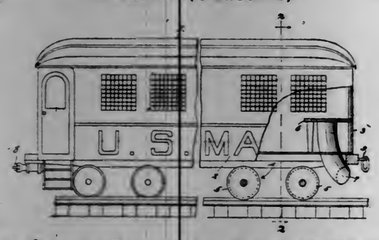
1. An evaporator comprising a relatively large cylinder and a relatively smaller cylinder joined by a conical reducing portion, all horizontally located to form a horizontal enclosure having an air inlet in the large cylinder and an air outlet in the small cylinder, a conical mat containing

stiff but absorbent fibrous material and having its apex upstream in said large cylinder and its base supported by the large end of said reducing portion, said mat being mounted for rotary repositioning from time to time, means located on



the upstream side of the mat for spraying enough water on the upper side of the conical mat for complete absorption and progression of excess to the lower side thereof for absorption, and means on the downstream side of said mat adapted to draw air through it.

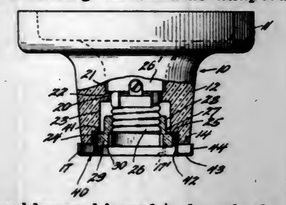
2,322,111
MAIL CAR
Randolph Boyd, Galva, Ill.
Application September 11, 1942, Serial No. 458,004
1 Claim. (Cl. 258—1)



A railway mail car comprising a body having a rear end wall, and a floor, a rear truck forming part of the support for the body and including a rear wheel, a transverse shelf in the body, at the end wall and spaced vertically above the floor, and a transverse, downwardly extended mail sack chute discharging outwardly of the body, in close relation to said end wall and to the rear of the rear wheel, and outwardly thereof, the chute entering the body and having its upper end secured to the shelf, the upper end of the chute being open to receive a mail sack from the shelf, the rear end wall being permanently closed against the passage of a mail sack therethrough, thereby rendering the chute the sole outlet available to an operator, and obviating the possibility of the sack being thrown out of the car, between the rails of a track.

2,322,112
ELECTRIC LIGHT FIXTURE
John Wendell Brooks, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Application August 19, 1941, Serial No. 407,471
1 Claim. (Cl. 240—78)

In an electric light fixture, in combination, a canopy having a substantially tubular pendant portion provided with a central bore and a plurality of counter-bores, a lamp holder including a screw shell extending through said bore and a base in one of said counter-bores, a flanged ring threaded onto said shell and having its main portion in one counter-bore with its flange adapted to bear on a shoulder between said last mentioned counter-bore and the outermost counter-bore, the pendant portion having a lower face lying substantially in the plane of the lower face of the said flange, a thin metal shade supporting member having an annulus adapted to rest



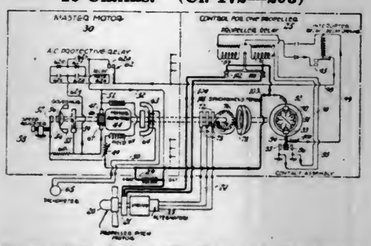
on said shoulder and bored to loosely fit over the main portion of said ring, a sleeve extending from the annulus and fitting between the ring flange and the walls of the outermost counter-bore and a flange extending over the lower face of said tubular portion and having shade supporting means thereon.

2,322,113
CARD GAME
Will H. Connelly, Park Ridge, Ill.
Application October 29, 1940, Serial No. 363,334
3 Claims. (Cl. 273—152)



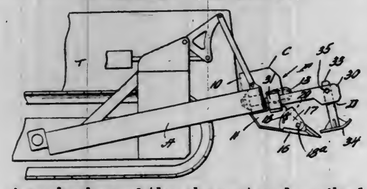
1. In a card game of the character described, a deck of cards comprising five sets of cards bearing decisions normally made before a product is purchased, the winning of a set of such decisions being the object of the game, a set of cards bearing objections to decisions relating to the purchase of the product, a set of cards each bearing an answer to one of said objections, and a set of wild cards each permitting the holder to win a decision.

2,322,114
PROTECTIVE CIRCUIT
Carl P. Clare, Arlington Heights, Ill., and Charles W. Chillson, Lake Packanack, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application September 17, 1941, Serial No. 411,102
19 Claims. (Cl. 172—293)



6. In combination, a D. C. motor having a governor controlled motor circuit switch normally operable to make and break a portion of the motor circuit at a frequency such that the average energy supplied to the motor maintains the motor at constant speed, mechanism controlled by said motor, said switch make and break producing interrupted D. C. whose effect is analogous to A. C., and a relay responsive in its closing to A. C. connected into the motor circuit by which the controlled mechanism is operably connected to said motor.

2,322,115
ROCK PLOW
Charles A. Cox, Homestead, and James S. Holland, Coral Gables, Fla.
Application October 9, 1941, Serial No. 414,370
15 Claims. (Cl. 97—47)

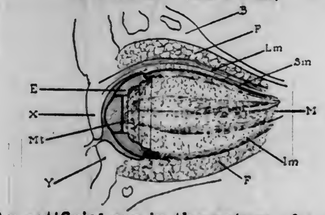


1. A rock plow of the character described comprising a frame provided with two relatively spaced carrier-members, each of the last members having upper and lower rearwardly extended arms which are vertically spaced to engage a transversely disposed tractor arm, bracing means connecting said carrier-members, cutter means supported by said carrier-members, and means for connecting the bracing means with said tractor arm while the latter is engaged with said carrier members.

2,322,116
LUBRICATING OIL
Lloyd L. Davis, Bert H. Lincoln, and Gordon D. Byrkit, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
No Drawing. Application September 5, 1940, Serial No. 355,462
8 Claims. (Cl. 252—53)

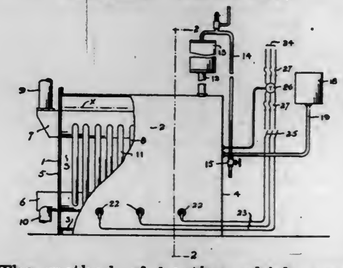
1. A lubricating oil having a viscosity index of over 90, comprising principally an ether of the type $Y_nRXR'Z_m$, where R is a high molecular weight aliphatic radical having at least 13 carbon atoms, R′ is an organic radical containing at least one cyclic nucleus, X is an atom of an element selected from the group consisting of oxygen, sulfur, selenium, and tellurium, Y and Z are groups containing an atom of an element selected from the group consisting of oxygen, sulfur, nitrogen, and phosphorus, and m and n are zero or integers, the sum of which is at least one.

2,322,117
ARTIFICIAL EYE
Theodore J. Dimitry, New Orleans, La.
Application April 18, 1942, Serial No. 439,477
10 Claims. (Cl. 3—13)



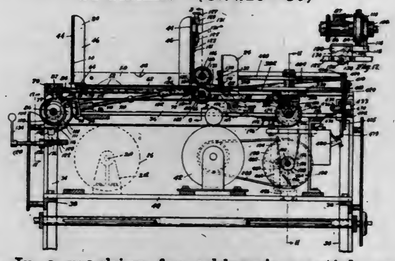
2. An artificial eye in the nature of a cap provided with a cavity in its rear face into which eye tissue is adapted to snugly fit said cavity including a transverse groove adapted to prevent the artificial eye from turning on the eye tissue encased within the cavity, said cavity also including a circular groove to prevent the artificial eye from sliding over the eye tissue encased within this cavity.

2,322,118
HEATING SYSTEM
Charles Ellis, Victoria, British Columbia, Canada
Application December 29, 1941, Serial No. 424,697
5 Claims. (Cl. 219—40)



4. The method of heating which consists of dissociating some of the molecules of a sodium chloride solution contained in a sealed vessel by passing an interrupted unidirectional electric current through said solution, venting off corrosive gases from the solution while maintaining a substantially constant pressure in the vessel, heating the solution by said current to more than atmospheric pressure and transferring the heat from the solution into an indirect heating medium.

2,322,119
ADDRESSING MACHINE
Harmon P. Elliott, Watertown, Mass.
Application February 13, 1940, Serial No. 318,686
24 Claims. (Cl. 216—30)

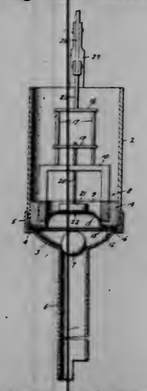


1. In a machine for addressing articles such as magazines, the combination of means for supporting two vertical stacks of such articles, means for feeding the successive endmost articles from the bottom of one stack and into the bottom of the other stack while maintaining the same face of the article uppermost in both stacks, and means for applying differently addressed labels to each said article after it becomes the endmost article at the bottom of said one stack and prior to the arrival of the next succeeding article at the bottom of the other stack.

2,322,120
SLUDGE PUMP
Hans P. Erickson, Saltcoats, Saskatchewan, Canada
Application August 7, 1942, Serial No. 454,033
1 Claim. (Cl. 103—178)

A sludge pump comprising a cylinder, a valve

controlled tube communicating with said cylinder, a piston operable in the cylinder, said piston including a metallic ring, another ring secured beneath the first-named ring, a substantially dome-shaped seat, having a fluid passage therein, integral with the inner periphery of the second-named ring and rising therefrom into the first-named ring, a packing encircling the first-named ring and including an internal



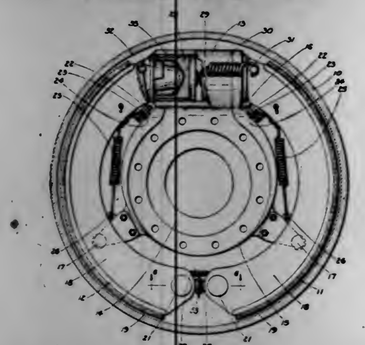
flange on its lower end engaged between the rings and abutting the seat, a yoke rising from the first-named ring, spaced posts rising from said yoke, a crosshead mounted on the upper ends of the posts, a guide extending between the posts at an intermediate point, a stem slidable in the yoke and the guide, a valve on the stem engageable with the seat for closing the opening, a rod rising from the crosshead, and an operating lever connected to said rod.

2,322,121

BRAKE

Frederick C. Frank, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application March 27, 1940, Serial No. 326,121
9 Claims. (Cl. 188—152)



1. For use with a brake having a brake shoe and a motor with a piston therein arranged to actuate said shoe, a connecting element comprising a base portion adapted to contact the end of said shoe and at times to anchor against the wall of said motor, and a projection with a convex forward surface, said projection having an abutment thereon intermediate the base of the connecting element and the convex forward surface of the said projection for limiting radial outward movement of the connecting element with respect to the piston.

2,322,122

METHOD OF PREPARING BUTADIENE

Per K. Frolich, Westfield, and Byron M. Vanderbilt, Cranford, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana

No Drawing. Application December 30, 1939, Serial No. 311,836
1 Claim. (Cl. 260—680)

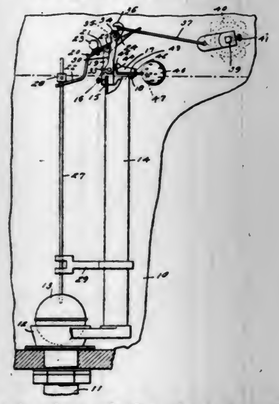
A process of producing butadiene comprising subjecting 2-butene to a temperature of about 797° C. for 0.015 second, quickly cooling the gases to a temperature not over 500° C. and thereafter separating butadiene.

2,322,123

FLUSH VALVE MECHANISM

Charles S. Garratt, Jr., Suffolk, Va.

Application June 26, 1942, Serial No. 448,646
3 Claims. (Cl. 4—67)



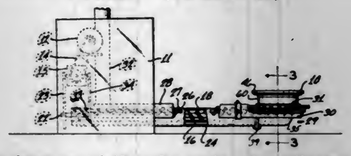
1. A mechanism of the class described comprising an outlet valve, means to lift said valve, and mechanism operable to prevent operation of said means through rise of water above a predetermined level consisting of a rocker, a detent carried by the rocker and float means carried by the rocker to move the latter to dispose the detent means in the path of movement of the first mentioned means.

2,322,124

STOKER OF UNDERFEED TYPE

Sever C. Gebert, Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application December 7, 1939, Serial No. 307,952
1 Claim. (Cl. 110—45)



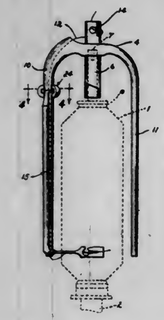
In a burner of the character described, a stationary casing open at its upper end, a burner pot in said casing having its upper open end inwardly spaced from the upper open end of the casing, a rotatable casing above the stationary casing and provided at its lower end with a substantially horizontal, inwardly directed flange spanning the spaced open ends of the burner pot and stationary casing, and seating thereupon in assembly, said flange having openings therethrough, a grate carried by said rotatable casing and having its lower end in registry with the upper open end of the burner pot, said grate having tuyère openings for the passage of combustion air to the fuel on the grate, said casings and grate cooperating in assembly, to form an air supply chamber communicating with said tuyère openings, a peripherally flanged channel member supported by and extending about said burner pot below said rotatable casing flange and in substantial registry with the openings in the latter flange, said channel member serving to receive therein particles of fuel and ash dropping through said grate tuyère openings and through said rotatable casing flange openings, said channel member being provided with a discharge opening, a sweeper supporting member secured to the flange of said rotatable casing for rotation therewith, sweeper elements on said supporting member for operation in said channel member to convey fuel and ash particles collecting in the channel, to said channel discharge opening, each of said sweeper elements being directed forwardly in the direction of sweeper rotation, whereby to deflect the fuel and ash particles inwardly away from the flanged periphery of the channel member, passage-means connecting said discharge opening with the interior of said burner pot, and a conveyor in said passage-means, operable to convey the fuel and ash particles delivered thereinto, to the interior of the burner pot.

2,322,125

FLIER FRAME STRUCTURE

Thomas L. McGovern, Providence, R. I.

Application November 10, 1941, Serial No. 418,532
7 Claims. (Cl. 57—117)



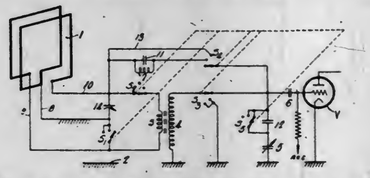
1. In a rotatable flier frame mechanism for roving machines comprising spaced arms, a presser member movably supported by one of said arms and provided with a presser foot for guiding roving to form a package, radially opposed curved surfaces spaced from each other and carried by the presser supporting arm and presser member respectively, and resilient means carried by one of said members and interposed between the radially opposed curved surfaces for engagement therewith to resist outward movement of the presser foot radially of the package substantially uniformly in all positions of the presser foot radially of the package.

2,322,126

LOOP ANTENNA SYSTEM

William H. Grimditch, Rydal, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware

Application April 23, 1941, Serial No. 389,987
8 Claims. (Cl. 250—40)



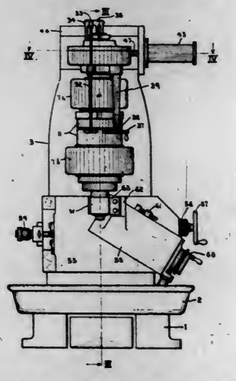
1. In a low impedance loop antenna circuit, a loop winding of relatively large included area, said winding being constructed of a relatively large conductor and having a small number of turns, said loop winding having a low impedance to frequencies in at least one of the wave-bands to be received, a low impedance connection between said loop winding and a point of substantially fixed potential, inductive means having a greater impedance than said loop coupled to said loop winding for supplementing the inductance of said loop, said inductive means also having a higher Q (ratio of reactance to resistance) than said loop winding, adjustable means connected to said inductive means for tuning said loop circuit over a desired band of frequencies, and means for coupling said loop circuit to the input element of a radio receiver.

2,322,127

VERTICAL CIRCULAR SHAPING MACHINE

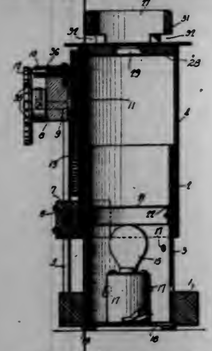
William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware

Application April 5, 1943, Serial No. 481,851
7 Claims. (Cl. 10—101)



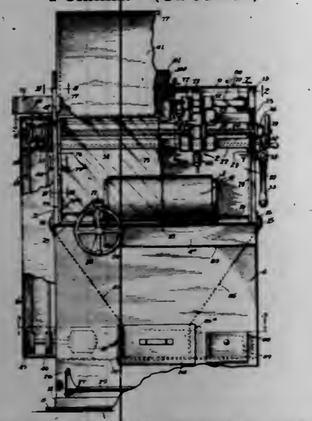
1. In a circular shaping machine; a frame; a horizontally rockable headstock mounted upon said frame; a work spindle rotatable and axially movable in said headstock about a vertical axis; work holding mechanism on the lower end of said work spindle; tool feeding mechanism mounted on said frame below said headstock for movement relative to the work piece on said work spindle; and means for rocking said headstock, rotating said work spindle, and feeding said tool feeding devices relative to a work piece mounted on the lower end of said work spindle.

2,322,128
ERYTHROCYTOMETER
Carl Adolph Hausser and Anthony Adolph Hausser, Philadelphia, Pa.
Application February 13, 1941, Serial No. 378,806
3 Claims. (Cl. 88—14)



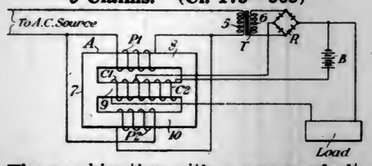
1. In an erythrocytometer, the combination with a casing having telescoping longitudinally adjustable sections, a source of light in one of said sections, a support for a test specimen carried by the other of said sections, a partition in the first-named section interposed between the said source of light and said specimen support and having an aperture for creating a concentrated beam of light emanating from said source and for directing said beam towards said support, said partition having also a plurality of annular series of apertures concentric with the aperture first named and differing predeterminedly as to radial distance from said aperture, and means for relatively longitudinally adjusting said casing sections.

2,322,129
ROUTER
Paul S. Hawkins, Los Angeles, Calif.
Application December 6, 1939, Serial No. 307,821
4 Claims. (Cl. 90—11)



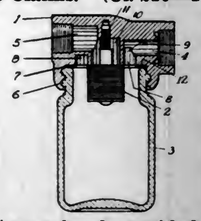
1. In a router, a work support, a router head, a cabinet enclosing the work support and the router head and having an opening for viewing and for removal and replacement of work, a frame tiltably mounted on the cabinet for positioning in the plane of the opening or for clearing said opening, and a transparent closure slidably mounted relative to the frame for projection therefrom for overlying the opening when the frame is in the plane of the opening, or for retraction relative to the frame when the latter is clear of the opening.

2,322,130
ELECTRICAL REGULATING APPARATUS
Linnie K. Hedding, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original application October 6, 1939, Serial No. 298,299. Divided and this application January 16, 1942, Serial No. 427,043
9 Claims. (Cl. 175—363)



1. The combination with a source of alternating current, a direct current load, a rectifier interposed between said source and said load, and a battery connected across said load, of a regulating device comprising a three-legged magnetizable core, an alternating current winding consisting of two coils connected in parallel and having an equal number of turns, said alternating current winding being interposed between said source and said rectifier and said two coils being disposed one on each outer leg of said core in such manner that both coils circulate flux in agreement through a magnetic circuit which includes both outer legs of the core in series, a first control winding disposed on the middle leg of said core and interposed between said rectifier and said load, and a second control winding disposed on the middle leg of said core and interposed between said load and said battery, whereby to maintain the output voltage of said rectifier substantially constant in response to unidirectional current in said first and second control windings and to cause said load to be supplied with unidirectional current substantially free from ripples.

2,322,131
FILTER
Maurice Ben Heftler, Grosse Pointe Park, Mich., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 30, 1939, Serial No. 282,187
10 Claims. (Cl. 210—165)



1. In a filter, a head provided with a recess having an internally threaded portion with a plane bottom, a second portion of smaller size coaxial therewith and terminating in an end having a helical surface of a pitch no greater than said thread whereby said second portion varies in depth, an inlet passage opening into the deeper part of said second portion and disposed in a plane substantially radial to said portion, a third portion coaxial with the other portions, an outlet passage communicating with the third portion of the recess and disposed in a plane substantially radial to the common axis and above the shallower part of the second portion, a filter element, means to secure the filter element in registration with the third portion of the recess so as to form a foraminous closure therefor, and an externally threaded receptacle adapted to register with the first mentioned portion and form a tight closure with the bottom thereof.

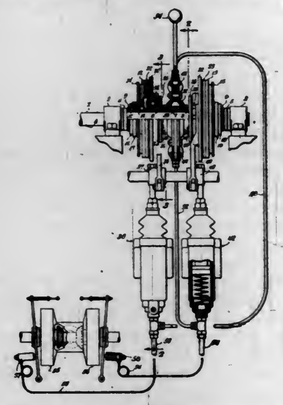
2,322,132
RAKE
Christian F. Hess, Wilmette, Ill.
Application April 25, 1942, Serial No. 440,477
10 Claims. (Cl. 56—400.17)



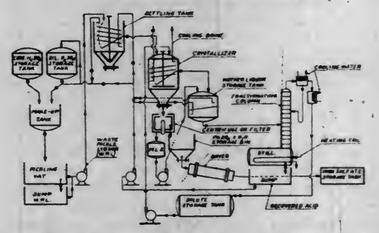
1. A rake comprising a head plate one edge of which is bent back upon itself to form a substantially U-shaped portion, there being spaced slots opening through the bottom of the bent portion and also through one of the edges of said plate, a tooth formed of a single piece of resilient material of substantially U-shaped configuration, the extremities of the sides of the tooth being deflected laterally, there being openings in said plate to receive said deflected extremities, the sides of the tooth being seated in said openings, and a substantially U-shaped fastening member having slots for the tooth through its bottom, which slots also open through the edge of one of the walls of said member, said fastening member telescoping with the slotted edge of said plate, with the slots in one in register with the slots in the other, said fastening member engaging the teeth above the edge of the turned-back portion of the said plate.

2,322,133
HYDRAULIC POWER ACTUATOR
Henry C. Hettelsater, Milwaukee, Wis., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application June 30, 1939, Serial No. 282,040
2 Claims. (Cl. 60—54.5)

1. In an apparatus for mechanically producing alternate hydraulic control impulses by alternate movement of a single shiftable lever the combination comprising a pivotally mounted lever having a rest position from which it is movable in two directions, a lost motion link engaging said lever on one side of said pivot, a feeler cylinder having a piston engaging said lost motion link, a second lost motion link engaging said lever on the opposite side of its pivot, a second feeler cylinder having a piston engaging said second lost motion link, said lost motion links having a scope of lost motion such that movement of the lever from its rest point in one direction causes said first feeler piston to enter its cylinder while the other feeler piston remains stationary and movement of said lever from its rest position in the opposite direction causes the second feeler piston to enter its cylinder while the first feeler piston remains stationary, a continuously driven member, a pair of friction devices engageable with said driven member to be moved thereby, a separate hydraulic pressure generating means associated with each of said friction devices and and adapted when moved thereby to generate hydraulic pressure and to transmit the same to instrumentalities to be controlled, an hydraulic connection from each of said pressure generating means to one of said feeler cylinders, and thruster means associated with said lever for causing alternate engagement of said friction devices with said continuously driven means upon alternate movement of said lever in opposite directions from said rest point, said thruster means being adapted to cause engagement of that friction device which gives rise to pressure in that feeler cylinder against which said lever is moved.

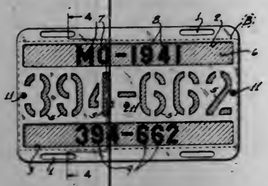


2,322,134
PROCESS FOR RECOVERY OF BY-PRODUCTS FROM WASTE PICKLE LIQUORS
Willard W. Hodge, Pittsburgh, Pa., assignor to Mellon Institute of Industrial Research, as trustee, a corporation of Pennsylvania
Application September 29, 1939, Serial No. 297,133
2 Claims. (Cl. 23—126)



2. The method of reclaiming spent pickling solution containing ferrous sulfate which comprises effecting precipitation of ferrous sulfate from cold spent pickling solution by the addition of a water-soluble ketone, and separating the precipitate.

2,322,135
VEHICLE LICENSE PLATE
John W. Howell, St. Louis, Mo.
Application September 22, 1941, Serial No. 411,843
1 Claim. (Cl. 40—125)



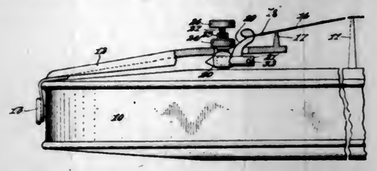
A composite license plate comprising a permanent plate having formed therein, a plurality of securing slots, upper and lower longitudinal openings, and number cut-outs extending longitudinally and between said openings; a renewable plate adapted to be secured to the rear face of said permanent plate and having on its forward face, a colored surface, printed indicia near its upper margin comprising a State name and license period, and printed indicia near its lower margin comprising a license number corresponding to the number cut-outs in the permanent plate; the State name and license period indicia being visible through the upper opening in the permanent plate and the license number indicia being visible through the lower opening in the permanent plate, and the color surface of the renewable plate providing a background for the number cut-outs in the permanent plate.

2,322,136
REPRODUCTION PROCESS AND APPARATUS
Edward Jahoda, Detroit, Mich., assignor to Walter M. Fuchs, Detroit, Mich.
No Drawing. Application September 17, 1941, Serial No. 411,195
2 Claims. (Cl. 101—149.2)

1. The process of making a printing plate adapted to reproduce an image drawn with a graphite pencil and without change in size or scale, which includes the steps of executing an original image on a suitable surface with a graphite pencil having associated therewith a quantum of an oxidizing salt selected from the group consisting of potassium dichromate, sodium dichromate, ammonium dichromate and potassium ferricyanide to form the image of both the graphite and the oxidizing salt, and applying the pencilled image directly to a moist greasy ink repellent gelatine surface having therein an oxidizable salt selected from the group consisting of ferrous sulphate, nickel sulphate, zinc sulphate, manganese sulphate, cobalt sulphate, copper sulphate and ferrous ammonium sulphate, to cause a reaction between the oxidizing salt, the oxidizable salt and the moist gelatine to form an oxidized, dull hardened gelatine image which is receptive of greasy printing ink.

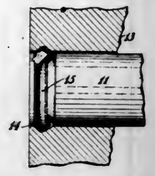
2,322,137
VIOLIN STRING ADJUSTER
Martin Jauch, Newark, N. J.
Application February 11, 1943, Serial No. 475,489
2 Claims. (Cl. 84—312)

1. In a violin string adjuster for tailpieces having openings for the ends of violin strings, the combination of a pair of conoidal fastening members for engaging on line contact only the upper and lower surfaces of said tailpiece, a hooked elbow lever pivoted to one of said members and extending through said tailpiece opening for engaging one end of a string without contacting with the tailpiece, a spindle supported by one of said members and engaging the elbow lever, and a spherical member disposed between the spindle



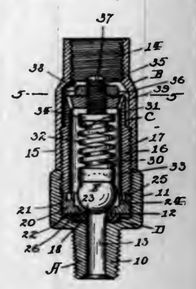
and elbow lever, whereby upon the rotation of the spindle the elbow lever is moved and the string tightened or loosened, the only contact of all of said parts with the tailpiece being by said line contact of said conoidal fastening members.

2,322,138
PISTON PIN RETAINER
Robert W. Jenny, New Milford, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application November 12, 1941, Serial No. 418,672
9 Claims. (Cl. 85—8.5)



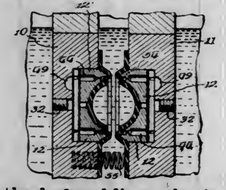
1. A piston pin circlet for application to a groove of a piston pin bore, comprising a segmental member of spring material curved to comprise a conical frustum, the edges of the frustum having tabs bent inwardly to comprise abutments.

2,322,139
SAFETY VALVE
Edward S. Kaelin, Los Angeles, Calif., assignor to Frederick C. Kingston, Los Angeles, Calif.
Application February 18, 1942, Serial No. 431,375
2 Claims. (Cl. 137—53)



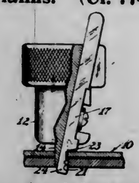
1. A valve assemblage, comprising, an internal cage, a pair of oppositely disposed coupling elements threadedly engaged to lock endwise together over said cage, one of said coupling elements having an inner end socket, a composite valve seat composed of a centrally disposed flat resiliant annulus held in said socket and forming part of the valve seat, and a retainer having a cup with a central aperture concentric with said annulus, said retainer being threadedly engaged with the inner wall of the coupling element containing said end socket in position to be engaged and locked against turning by the inner end of said cage and when screwed tightly against the end surface of said resilient annulus extruding a bead therefrom concentric with and in cooperation with said cup forming a valve seat, a valve disposed to cooperate with said seat and an adjustable spring assembly held in said cage for releasably urging the valve upon said seat under predetermined pressure.

2,322,140
METHOD FOR MAKING GOLF BALLS
Phillip Kalowski, Chicago, Ill., assignor to Golf Ball, Inc., Chicago, Ill., a corporation of Illinois
Application April 15, 1940, Serial No. 329,627
3 Claims. (Cl. 18—56)



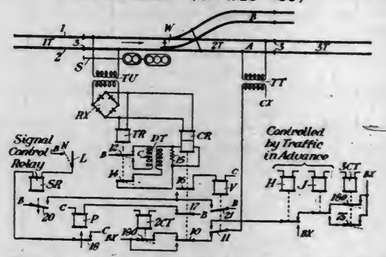
1. The method of molding spherical ball centers with walls of uniform thickness, consisting in disposing slabs of vulcanizable material having a substantially uniform thickness over molds adapted to form the halves of a hollow body, forming said slabs into halves of a hollow oblate body the interior of which is concave throughout its entire surface in said molds, the internal volume of said hollow body being equal to the volume of the ball center being made, uniting said halves and then vulcanizing said oblate body in a spherical mold whereby a spherical body is produced.

2,322,141
REVERSE COUNTERSINK
Norman L. Kearney and Harrison L. Richardson, Buffalo, N. Y., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application May 2, 1941, Serial No. 391,459
10 Claims. (Cl. 77—73.5)



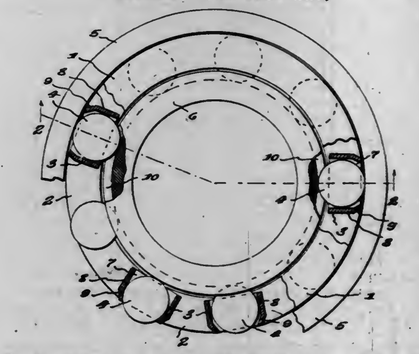
1. A back countersink tool for example for countersinking holes on surfaces opposite the tool holder, comprising a body, a stem depending from said body, a groove in one side of said body and said stem, the side faces of said groove being in parallel relation to the longitudinal axis of the body, the bottom face of the groove being in angular relation to the longitudinal axis of said body, said groove beginning at the said stem and sloping outwardly and upwardly, a tool bit slidably mounted in said groove, said bit having a three-sided notch adjacent one end, two faces of the notch forming stops and the other face being angled and provided with a cutting edge, said notched end being adjacent the said stem.

2,322,142
RAILWAY SIGNALING SYSTEM
Ralph R. Kemmerer, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 15, 1941, Serial No. 383,571
12 Claims. (Cl. 246—39)



1. In a coded railway signaling system, in combination, a stretch of railway track having a pair of track rails divided by insulated joints into a plurality of track sections including a detector section, a signal governing entrance of trains into said detector section, a signal control relay operative only when energized to permit said signal to display a proceed indication, electroresponsive means governed by energy supplied over the rails of said detector section, and means governed by said electroresponsive means and said signal control relay for supplying energy to the detector section rails, said means being effective when said electroresponsive means is energized to supply coded energy to the detector section rails and being effective on deenergization of said electroresponsive means when said signal control relay is released to supply steady energy to the detector section rails, said means being effective on deenergization of said electroresponsive means when said signal control relay is energized to supply to the detector section rails coded or steady energy selected in accordance with traffic conditions in the adjacent section in advance of said detector section.

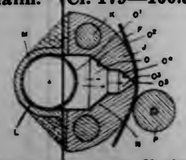
2,322,143
CAGE CONSTRUCTION FOR ROLLER BEARINGS
Rudolph R. Kilian, Baldwinsville, N. Y., assignor to Rollway Bearing Company, Inc., Syracuse, N. Y., a corporation of New York
Application November 26, 1942, Serial No. 467,015
2 Claims. (Cl. 308—217)



1. A cage for roller bearings comprising flat opposing annular heads and formed up rectangu-

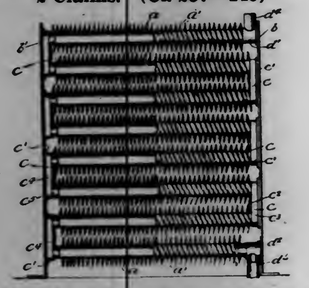
lar boxlike frames, between the heads for receiving the rollers, the frames having opposite sides lying flatwise on the inner sides of the heads and integrally secured thereto, and like margins of other diametrically opposite sides which extend between the heads from the former sides having inturned lips at like edges thereof for holding the rollers from radial displacement in one direction.

2,322,144
SOUND RECORDING MEANS FOR MOTION PICTURE CAMERAS
Harry M. Kirschbaum, Detroit, Mich.
Application September 4, 1941, Serial No. 409,579
1 Claim. (Cl. 179—100.3)



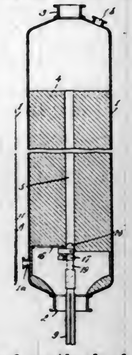
The combination with a small size motion picture camera including a casing, a reel therein for the sensitive strip, and a closely associated roll for advancing the portion of the strip between the same and said reel at constant velocity, of sound recording means comprising a guide bearing sufficiently small to be located in the restricted space between said roll and reel being rigidly secured to said casing and having a convex surface over which said constant velocity portion of said strip is drawn, a microphonically controlled small low power electric lamp rigidly mounted on an opposite side of said guide bearing, and a member formed of "Loosite" located in an aperture through said guide bearing and having a concave face enveloping said lamp to receive light therefrom throughout a wide angle being adapted to concentrate the light from said lamp and direct the same in a narrow line extending transversely of a marginal portion of said strip.

2,322,145
HEAT EXCHANGE COIL
Richard W. Kritzer, Chicago, Ill.
Application November 2, 1940, Serial No. 364,003
2 Claims. (Cl. 257—149)



1. A heat transfer coil comprising a pair of supporting end-plates in confronting relation, a series of tubes between the plates and provided with extended surfaces for heat transfer, and separately formed stamped shells for individually forming connecting-ducts between pairs of tubes, each shell having an open side contiguous to one face of one of said plates and a wall terminating in a rim welded to the contiguous face of the plate, the contiguous face of the plate and said wall forming a closed duct between a pair of tubes, the contour of the rim of each shell conforming substantially to the duct in the shell, a pair of tubes being connected to said duct, the faces of the plates being provided with portions for spotting the separately formed shells on the plates.

2,322,146
METHOD AND APPARATUS FOR REMOVING COKE FROM COKING CHAMBERS
Herman C. Kuhn, Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application August 16, 1941, Serial No. 407,233
8 Claims. (Cl. 83—6)



1. An improved method of removing coke deposits in relatively large pieces from vertically-elongated cylindrical chambers which comprises moving a cutting member radially and helically upwardly through the coke deposit to progressively form a helical cut extending into the coke deposit a material distance and a distance sufficient that when the coke behind the forward edge of the cut is broken from the body of coke, the major portion thereof will be in relatively large pieces rather than in fines, and systematically breaking off the coke underlying the cut by the downward application of pressure thereon independently of the cutting action at a predetermined distance to the rear of the forward edge of the cut.

2,322,147
REST STRUCTURE, PARTICULARLY FOR USE IN BATHTUBS
Fred Landauer, New York, N. Y.
Application May 11, 1942, Serial No. 442,482
6 Claims. (Cl. 4—185)

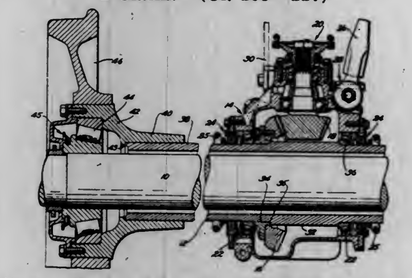


1. A device of the character described comprising a substantially horizontally extending support, a rest member connectable with said support and disposed for back or feet of a person when in reclined position on said support, brace means pivotally disposed at said rest member and adapted to removably connect said member with said support, and means exerting tensile force arranged to extend between said rest member and said support to retain the connection of said rest member with said support.

2,322,148
METHOD OF MAKING CHEDDAR CHEESE
Clarence B. Lane and Bernard W. Hammer, Ames, Iowa, assignors to Iowa State College Research Foundation, Ames, Iowa, a corporation of Iowa
No Drawing. Application April 22, 1940, Serial No. 330,994
6 Claims. (Cl. 99—116)

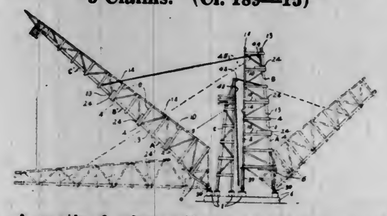
1. The method of making cheddar cheese in which lipolytic enzyme obtained from mammary tissue, is added to the other ingredients during the process of manufacture.

2,322,149
TUBULAR AXLE DRIVE
Robert P. Lewis, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a corporation of Virginia
Application January 6, 1941, Serial No. 373,244
1 Claim. (Cl. 105—117)



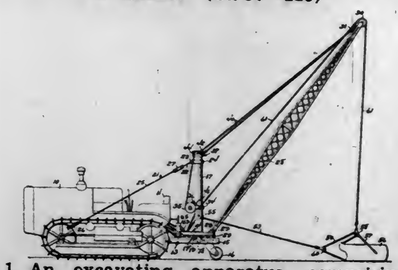
In a rail car axle drive, a tubular axle, a substantially relatively stationary gear casing surrounding said tubular axle, bearings between said casing and axle, gearing in said casing comprising a ring gear pressed onto said tubular axle and a pinion gear in mesh with said ring gear, said tubular axle having a stepped outside diameter providing means for locating said ring gear with respect to said pinion gear, said means including spaced shoulders for positioning said casing with respect to said axle and for positioning said ring gear with respect to said casing and said axle, said ring gear forming an abutment for one of said bearings and one of said shoulders forming an abutment for another of said bearings, and sealing means between said casing and said axle outwardly of said bearings.

2,322,150
DERRICK
Thomas B. Lewis, Wichita Falls, Tex.
Application May 18, 1940, Serial No. 336,050
5 Claims. (Cl. 189—15)



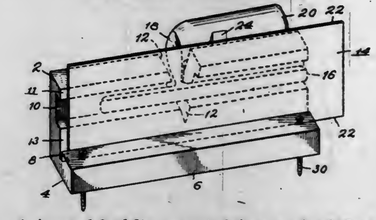
1. A method of erecting a derrick comprising the steps of constructing derrick sections in prone positions, one of said sections being incomplete and having a separate unit therefor, erecting said separate unit in an upright position, swinging said incomplete section to an upright position beside the separate unit, swinging the other section to an upright position beside the incomplete section, withdrawing the separate unit from between the sections to the top of the incomplete section, and securing said sections together.

2,322,151
EXCAVATING MECHANISM
John J. Matus, Jr., San Juan Bautista, Calif.
Application October 27, 1941, Serial No. 416,715
2 Claims. (Cl. 37—116)



1. An excavating apparatus, comprising a platform, a swinging boom carried by the platform, a pulley carried by the free end of the boom, a cable passing over the pulley, a scoop, a pulley block carried by the scoop and connected to the cable, a short cable having one end connected to the scoop at the upper end adjacent the open front end and passing around the pulley and its opposite end connected to the bottom of the scoop adjacent the open front end, and a drag line carrying a pulley through which the short cable passes.

2,322,152
TROWEL HOLDER
Frank P. Moran, Kansas City, Mo.
Application October 19, 1942, Serial No. 462,568
2 Claims. (Cl. 76—82)

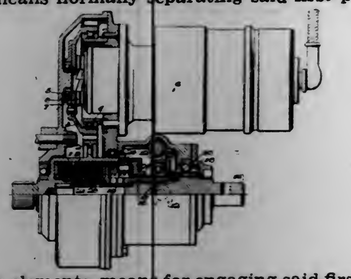


1. A trowel holder comprising a stock having a front side against which a trowel blade can be placed, said stock having a longitudinal groove in its front side and a notch which intersects the groove and extends to the upper surface of the stock, said groove being adapted to receive a rib on the back of the blade and said notch being adapted to receive a tang connecting the rib to a handle of the trowel, and means at the rear side of the stock for pressing backward against the handle and thereby causing the blade to be drawn firmly against the front side of the stock.

2,322,153
DRIVING MECHANISM FOR AIRCRAFT PARTS
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 12, 1940, Serial No. 369,910
1 Claim. (Cl. 192—48)

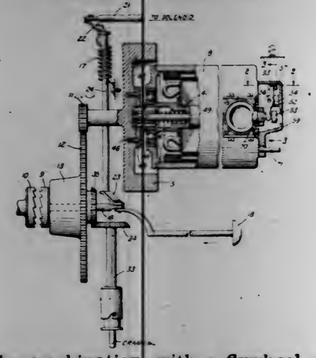
In a driving mechanism, a driving member, a

driven member, an intermediate assembly including a pair of overrunning clutch elements, a second pair of overrunning clutch elements interposed between the first pair and the driven member, means normally separating said first pair of



clutch elements, means for engaging said first pair of clutch elements against the resistance of said separating means, one of said first pair of clutch elements having a splined surface, and means including a friction disc clutch interposed between said splined surface and said driving member.

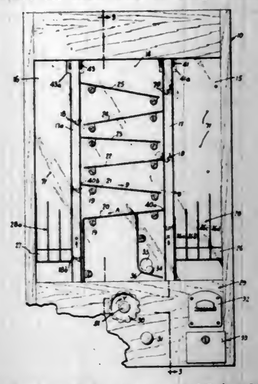
2,322,154
ENGINE STARTING MECHANISM
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application May 5, 1939, Serial No. 272,029. Divided and this application August 27, 1941, Serial No. 408,531
3 Claims. (Cl. 123—179)



1. The combination, with a flywheel, of alternative accelerating means including a gear train on one side of the flywheel and an electric motor on the opposite side thereof, means including a clutch element drivably connecting the motor armature and flywheel, resilient means constantly biasing said clutch element to connecting position, and means including a part shiftable independently of said armature but extending through the motor for disconnecting the clutch element from the flywheel, said means also including a cooperating part for holding said disconnecting means in the disconnecting position during use of said gear train to accelerate the flywheel.

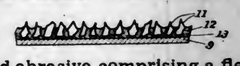
2,322,155
BALL LIFTING GAME
Fred M. New, New York, N. Y.
Application August 12, 1941, Serial No. 406,457
7 Claims. (Cl. 273—120)

6. An apparatus of the character described comprising a support, stationary spaced apart means inclinedly arranged with respect to each other on said support, and spring actuated carrier means provided with a curved surface adapted to transport a missile thereon and arranged for movement in and out of alignment with the



ends of said inclined means, said inclined means projecting with their upper ends into the path of movement of said carrier means, whereby said carrier means when abutting against one of said inclined means is tipped against the action of its spring and discharges said missile for scoring purposes.

2,322,156
COATED ABRASIVE
Nicholas E. Oglesby, Troy, N. Y., assignor to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts
Application December 30, 1941, Serial No. 424,998
15 Claims. (Cl. 51—298)

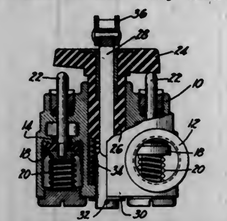


1. A coated abrasive comprising a flexible backing element, a coating of abrasive grains anchored thereon by an abrasive grit-bonding organic adhesive selected from a group consisting of synthetic resins and animal glues, said adhesive bond comprising layers, one of which anchors the abrasive grain coating to the backing and another of which is superimposed on and among the grains as a sizing coat, at least one of the layers of the organic adhesive being modified by a substantial percent by volume of an inert, relatively non-absorbent, relatively non-fibrous filler, said filler being in a comminuted state and not more than substantially 35 percent by weight of said filler remaining on a 270 mesh screen having a mesh opening of 53 microns and the finer not less than substantially 65 percent by weight of said filler which passes the said screen having an average surface diameter in the range of substantially 5.5 to 40 microns.

2,322,157
MIXING DEVICE
Howard C. Porter, South Bend, Ind., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application January 18, 1941, Serial No. 374,975
2 Claims. (Cl. 277—18)

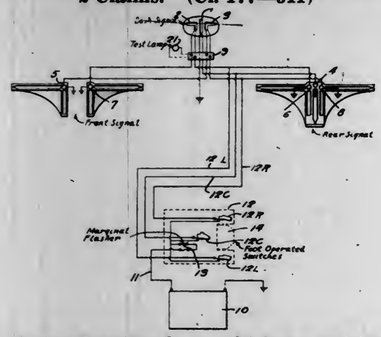
1. A mixing device comprising a body having inlet ports for a plurality of fluids to be mixed and an outlet passage for mixed fluids, valves controlling said inlet ports, and having parallel

valve stems, springs holding said valves normally closed, a disc type valve operating cam rotatably and slidably supported in the body and engageable with the valve stems in all positions of rotation when slid toward the valve stems, a spring normally holding said disc cam away from contact with said valve stems, a guide pin rotatable but axially fixed in the body and keyed to the



disc cam, a control handle pivoted to the guide pin to turn the pin and with it the disc cam, said handle having a handle cam portion to move said disc type valve operating cam axially into operating position in engagement with said valve stems when the handle is swung about its pivot, whereby said valve stems are relatively opened against the action of said springs for mixing said fluids on movement of said handle.

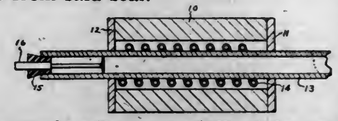
2,322,158
DIRECTIONAL SIGNAL INDICATOR
Francis Claire Sams, Bath, N. Y.
Application July 11, 1939, Serial No. 283,887
2 Claims. (Cl. 177—311)



1. A signal system for a vehicle comprising two directional signal lights in parallel connection with a source of power and an indicator in parallel connection with one of the signal lights and in series connection with the other of the signal lights, and a flasher in the common power circuit, the amperage through the series light being inadequate to actuate the flasher and the amperage through the other light being adequate to actuate the flasher, whereby the common indicator flashes with operation of the one signal light, ceases to flash on the failure of said one signal light and ceases to operate on failure of the other signal light.

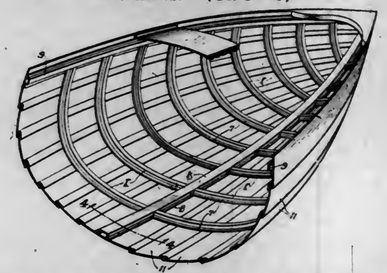
2,322,159
ANALYTICAL FURNACE
Edward T. Saxer, Brecksville, and Robert E. Minto, Cleveland, Ohio
Application September 29, 1941, Serial No. 412,806
7 Claims. (Cl. 23—253)

1. In an analytical furnace in combination with an open-ended refractory tube and heating means associated therewith and external thereto, a seal for the open end of said tube composed of organic material, a tubular element extending through said seal, a metallic reflector support attached to said tubular element and a reflector carried by said reflector support and presenting a reflecting surface toward the end of said refractory tube remote from said seal.



4. In combination, a metallic tube, an elongated, flexible, flat metallic reflector support secured to the inside of said metallic tube, being small in cross-section as compared to the lumen of said tube and projecting beyond one end of said metallic tube in the general direction of the axis thereof, a reflector carried by said reflector support and presenting a concave reflecting surface extending transversely to the axis of said metallic tube and facing away from said metallic tube.

2,322,160
BOAT HULL
Huntington R. Schlagel, Des Plaines, Ill.
Application September 19, 1941, Serial No. 411,453
5 Claims. (Cl. 9—6)

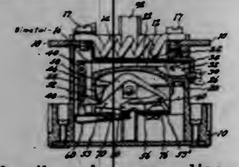


1. In combination with a boat hull framework including a channel keel extending from one end of the boat to the other and channel ribs extending from the keel to the upper edges of the sides of the boat, a planking therefor comprising a plurality of interfitting metal strips formed of yieldable sheet metal and extending from one end of the boat to the other end adapted for securement to the framework, each strip having two longitudinal edges, one unformed from end to end but inclined toward the other, and the other, in the region of its opposite longitudinal edge, being formed with a pair of spaced, longitudinal, opposite reverse bends to provide a pair of adjacent but spaced plies forming between them a channel adapted to receive the unformed edge portion of an adjacent strip, the channel between the plies being deep enough to receive an unformed edge for varying distances therein, and a mastic sealing material placed in the channel around the adjacent unformed edge therein to provide a leaf-proof joint.

2,322,161
OVERLOAD RELAY SWITCH
Harold E. Schleicher, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application June 14, 1940, Serial No. 340,587
24 Claims. (Cl. 200—122)

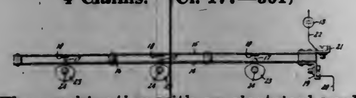
5. In an electric switch, a hollowed insulating

casing, switch operating means in said cavity, a current-carrying heater coil mounted on said casing and a metal plate between said coil and said means to shield said means from said coil, said plate being electrically connected with one



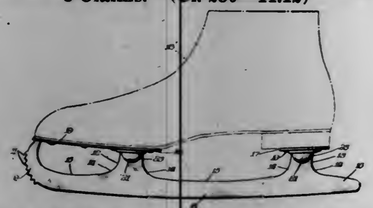
end of said coil, and means adjacent the other end of said plate more proximate to the coil than is the main portion of said plate, said means tending to localize failure of said coil and said plate acting as a shunt in case of coil failure, thereby to protect said coil.

2,322,162
CONTROL ARRANGEMENT FOR SIGNAL DEVICES
Alfred M. Schmidt, Annaberg in Erz Gebirge, Germany, assignor to General Electric Company, a corporation of New York
Application January 2, 1941, Serial No. 372,917
In Germany January 4, 1940
4 Claims. (Cl. 177—361)



1. The combination with an electrical appliance having a main circuit controller movable to different circuit controlling positions of a switch for controlling an indicating device, said switch comprising a pair of normally open contacts mounted on said appliance independently of said circuit controller, one of said contacts being carried by resilient contact supporting means, and a cam mounted on said circuit controller for engaging said resilient contact supporting means and closing said switch upon a movement of said controller from a predetermined position, said cam constituting the only connection between said circuit controller and said switch whereby said circuit controller may be removed from said appliance without interfering with said switch or the circuit connections thereto.

2,322,163
SKATE
Gustav E. Schmidt, Chicago, Ill., assignor to The Alfred Johnson Skate Company, Chicago, Ill., a corporation of Illinois
Application October 9, 1940, Serial No. 360,345
3 Claims. (Cl. 280—11.12)



3. An attaching means for a stanchion comprising a plate member having a portion of its surface recessed to provide a downwardly disposed surface and a cup-shaped portion extending downwardly from said surface, said cup-shaped portion being provided with an elongated continuously extending substantially rectangular slot, said stanchion being of substantially rectangular cross-section and adapted to closely fit within said slot of the cup-shaped portion, the upper end of said stanchion being of reduced size to provide shoulders adapted to engage under said downwardly disposed surface of the plate member, the reduced upper end of the stanchion extending upwardly into said cup-shaped portion, a second plate member positioned in said recess having an opening for receiving said reduced upper end of the stanchion, said stanchion extending above said second plate member and being peened over above the second plate member.

2,322,164
SPANISH MOSS PULLER
Isaiah C. Scudder, Bloomfield, N. J.
Application April 28, 1942, Serial No. 440,759
4 Claims. (Cl. 47—1)



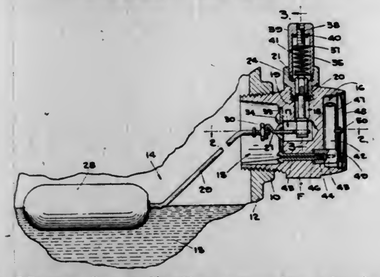
1. A moss puller having in combination, a pole, a housing mounted on the upper end of said pole, a plurality of hooked fingers carried in said housing, means whereby said hooked fingers are normally held in their extended position, and means controllable at the lower end of the pole for retracting said hooked fingers into said housing.

2,322,165
SPRAY GUN
Earl W. Simpson, Walton, N. Y.
Application February 17, 1940, Serial No. 319,485
6 Claims. (Cl. 91—25)



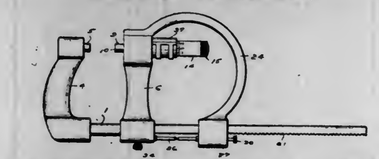
1. In a spray gun of the character described, a nozzle comprising means forming a passage for the flow of a fluid therethrough provided with an orifice through which said fluid may be discharged, means for supplying a liquid to said nozzle, and a brush rotatably supported in spaced relation to and in front of said nozzle, said brush comprising bristles arranged crosswise of and substantially at right angles to the fluid sprayed from said nozzle and with the free ends of said bristles extending in the path of said fluid sprayed from said nozzle.

2,322,166
AIR VOLUME CONTROL
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application April 14, 1941, Serial No. 388,565
2 Claims. (Cl. 137—69)



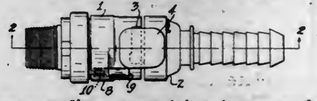
1. Means for relieving excessive air from a water supply tank having a pneumatic head therein comprising a fitting, a relief valve mounted therein and float operated means to retain said valve closed at any water level exceeding a predetermined maximum, said valve opening outwardly and having an interior head for engagement by said float operated means, said valve including a sleeve screwed into said fitting, a flat washer comprising combined gasket and valve seat between said sleeve and the fitting, a cap screwed into said sleeve, a spring in said cap, an adjusting screw carried by the outer end of said cap, said spring being interposed between said adjusting screw and said valve, and said valve being interposed between said spring and said washer and guided in said sleeve, said spring being removable with said sleeve and cap without changing the setting of the spring, said sleeve having a shoulder of less diameter than said spring for retaining the spring in said cap.

2,322,167
MICROMETER
Emory C. Shoemaker, Troy, Pa.
Application September 19, 1942, Serial No. 458,983
2 Claims. (Cl. 33—165)



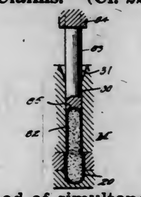
1. A micrometer comprising a bar-like beam, an anvil carrying arm extending laterally from one end of said beam to one side thereof and having a cylindrical anvil fixed therein parallel with said beam, a second arm extending laterally from said beam on the same side thereof and opposite the first-mentioned arm, a threaded measuring spindle mounted in said second arm coaxially with said anvil and for turning toward and from the same, said beam and second arm being slidably connected for relative adjustment to space the measuring spindle from the anvil into different set positions, an arched guard bar for the spindle extending from said second arm to said beam, and means to relatively adjust said beam and second bar comprising a worm mounted on said guard bar, and teeth on said beam with which the worm meshes.

2,322,168
HOSE COUPLING
Charles T. Smith, Cleveland Heights, Ohio
Application January 12, 1942, Serial No. 426,389
1 Claim. (Cl. 285—175)



A hose coupling comprising two members provided with bayonet lug and socket means, respectively, for interlocking engagement to prevent accidental longitudinal displacement between said members, said members being adapted to be interengaged by first inserting said socket-carrying member longitudinally into initial position with its socket means to one side of the lug means upon the other member preparatory to effecting relative rotary movement of said members for bringing said lug and socket means into locking engagement, a longitudinally disposed spring pin of plain straight form provided upon said lug-carrying member at a point between a lug and said initial position of its socket, said socket being formed with a curved shoulder that is adapted to be engaged by the plain end of said pin during relative rotary movement of said members, and said socket being adapted to be forced fully past the end of said pin during such relative turning of said members so as to bring said socket and lug into full engagement with each other and at the same time effect locking arrangement of said pin with the side of said socket so as to prevent accidental rotary movement between said members.

2,322,169
METHOD OF FILLING CAPSULES
Daniel Darley Smith, Valdosta, Ga.
Application January 18, 1940, Serial No. 314,514
4 Claims. (Cl. 226—41)



1. The method of simultaneously filling a plurality of capsules which includes positioning the capsule caps beneath a predetermined quantity of material, supporting the caps throughout their length, levelling the material above the caps, dividing the material into as many divisions as there are caps, agitating the divided material whereby the material will gravitate into said caps, telescoping a capsule body into each cap and simultaneously packing the material in the capsule while said cap is so supported.

2,322,170
UNDERGARMENT
Paul Snyder, Baltimore, Md.
Application March 11, 1942, Serial No. 434,293
3 Claims. (Cl. 2—224)

1. A garment of the class described comprising

front and rear sections, the side edges of said sections defining leg openings, an adjustable split waist band secured to the upper edges of said sections, said waist band having its ends adapted to be overlapped in the adjustment of the band, the garment having a vertically extending slit therein the side edges of which are aligned with the ends of said waist band, the distance between the edges of the portions of the garment defining said



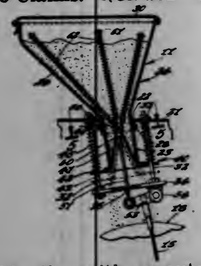
slit varying progressively in a direction between the waist band ends and the edge of the garment defining the lower edge of said slit, whereby when said waist band ends are brought in overlapping relation and the edges of the portions of the garment defining said slit are overlapped they have smooth and flat face to face engagement with each other forming a surface inhibiting buckling of the material of the garment as overlapped.

2,322,171

TRACTION AND ANTISKID DEVICE FOR VEHICLES

Harry Fred Spatz, Woodhaven, N. Y.

Application July 1, 1941, Serial No. 400,633
5 Claims. (Cl. 291—36)



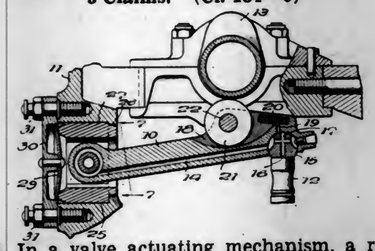
5. In combination with an automobile, a horizontal wall disposed adjacent to a rear wall of said automobile, said horizontal wall being formed with an opening, a hopper having downwardly and inwardly sloping side walls, and a downwardly extending tubular wall at the lower end of the hopper, said tubular wall projecting through the opening in said horizontal wall and fixed thereto, a pair of rods fixed to said horizontal wall and extending parallelly to said tubular wall, a transverse plate carried at the lower ends by said rods and fixed to said rods, a stopper slidably mounted on said rods, spring means to move the stopper upwardly to close the hopper, said stopper having an upwardly extending conical portion projecting into said tubular portion of the hopper, the plate carried by said rods being formed with a central opening, a lever pivoted to the underside of said plate, a link interconnecting said lever with said stopper and passing through the opening in said plate, a foot pedal adapted to be depressed by the operator of the vehicle, flexible cable means interconnecting the foot pedal with said lever, a plurality of pins fixed to the apex portion of the stopper and projecting upwardly into the hopper at various angles, and a coil on each radial pin to agitate the material within the hopper.

2,322,172

VALVE ACTUATING MECHANISM

Louis R. Spencer, West Hartford, Conn., assignor to Spencer Aircraft Motors, Inc., West Hartford, Conn., a corporation of Connecticut

Application September 17, 1941, Serial No. 411,232
5 Claims. (Cl. 184—6)



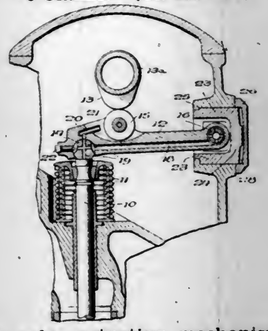
4. In a valve actuating mechanism, a rocker arm having a recess in the upper surface thereof, a valve stem engaging member in the bottom face thereof with a lubricant supply duct extending through said arm and communicating with said recess and with the stem engaging surface of said member, and a roller journaled in said recess adapted to be engaged by the actuating cam of said arm.

2,322,173

VALVE ACTUATING MECHANISM

Louis R. Spencer, West Hartford, Conn., assignor to Spencer Aircraft Motors, Inc., West Hartford, Conn., a corporation of Connecticut

Application December 24, 1941, Serial No. 424,343
6 Claims. (Cl. 123—90)



4. In a valve actuating mechanism, a valve stem rocker arm having an oil duct therein, a member in which said arm is pivoted, said member having an oil passage therein communicating with the duct in the rocker arm and said member being rotatable and movable axially, a stop for limiting axial movement of said member in one direction, and means for by-passing oil from the passage in said member against a surface of said member to force the same axially against said stop.

2,322,174

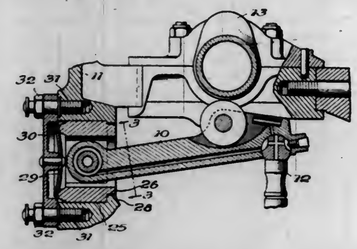
VALVE ACTUATING MECHANISM

Louis R. Spencer, West Hartford, Conn., assignor to Spencer Aircraft Motors, Inc., West Hartford, Conn., a corporation of Connecticut

Original application September 17, 1941, Serial No. 411,232. Divided and this application June 8, 1942, Serial No. 446,207
4 Claims. (Cl. 308—21)

1. A cylindrical supporting member for the rocker arm of a valve actuating mechanism, said

member being rockable about its longitudinal axis, and said member being of one diameter for a portion of its length and of a less diameter for a



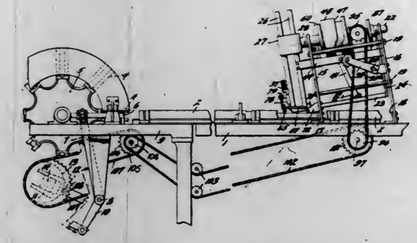
second portion of its length, one of said portions being concentric and the other eccentric with respect to the longitudinal axis of said member to limit the rocking motion of said member.

2,322,175

MACHINE FOR SUPPLYING INSERTS TO PACKAGES

Richard C. Talbot and Frederick L. Beyer, Durham, N. C., assignors to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C., a corporation of North Carolina

Application August 2, 1940, Serial No. 349,890
22 Claims. (Cl. 226—2)



22. In a machine for supplying inserts to packages, the combination of a supporting surface for a package having a diagonal slit in a side thereof, an insert carrier mounted to swing laterally of said supporting surface into a position opposite thereto, and means on said carrier movable transversely of the direction of movement of the carrier and in a plane at an acute angle to the plane of said supporting surface for presenting an insert for introduction into the slit in a package on said supporting surface.

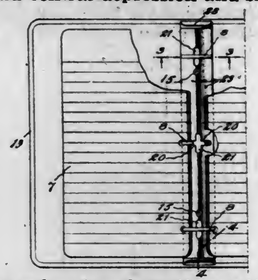
2,322,176

RING BINDER

Clarence D. Trussell, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York

Application November 11, 1942, Serial No. 465,287
3 Claims. (Cl. 129—1)

1. A ring binder, comprising a back member having a central depression, recesses extending transversely in opposite directions from the bottom of said central depression and notches narrower than said central depression and recesses extending transversely from the top of said central depression over said recesses, and ring elements having head portions at the ends of the same larger than said notches but small enough to enter said central depression and side recesses



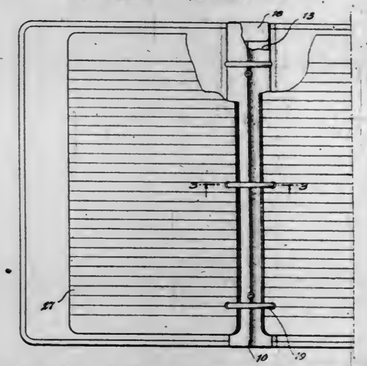
and having reduced neck portions adjoining said head portions and of a size to enter said notches.

2,322,177

BINDER

Clarence D. Trussell, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York

Application November 11, 1942, Serial No. 465,288
14 Claims. (Cl. 129—1)



1. A binder of the character disclosed, comprising a sheet of cardboard or like material folded to hollow triangular cross-section with relatively inclined sides connected and supported by inturned base portions, said inclined sides having keyhole slots therein and flexible rings having headed end portions releasably interlocked in said keyhole slots,

13. A binder, comprising binder rings having resilient compressible stem portions and a back having slots to accommodate said stem portions, said slots each having an enlargement to freely receive said stems, a narrower portion to compressingly hold said stems and a slightly enlarged portion to relax said resilient stems without releasing the same.

2,322,178

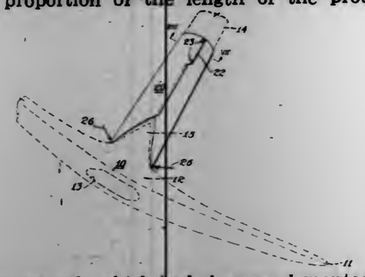
PICK HANDLE PROTECTOR

Ernest Tyler, Daisytown, Pa.

Application December 18, 1940, Serial No. 370,621
1 Claim. (Cl. 306—37)

A cold rolled steel protector for a pick handle which comprises a tapering tubular shield of oval section which is preformed to fit such handle and which is adapted to be slid thereover in fully formed condition larger end foremost, said shield having one V-shaped end capable of interfitting with said pick head and a pair of terminal in-

turned lugs at the ends of such V adapted to engage said pick handle close to said pick head, said protector having a seam extending for a substantial proportion of the length of the protector



along one side which includes complementary interlocking bent marginal members and at least one marginal extension between which and the adjacent portion of the interlock the protector is notched out.

2,322,179

METHOD OF PRODUCING CERAMIC BODIES

Willem Leendert Carolus van Zwet, Eindhoven, Netherlands; vested in the Alien Property Custodian

No Drawing. Application July 2, 1941, Serial No. 400,861. In the Netherlands July 12, 1940
3 Claims. (Cl. 106—39)

1. A method of manufacturing ceramic bodies comprising the steps of preparing a mixture of ceramic material and a cellulose ether capable of swelling or dissolving in water, moulding said mixture to form a coherent body and sintering the ceramic constituent of said body.

2,322,180

LOOSE-LEAF BOOK CONSTRUCTION

Murray Vernon, New York, N. Y., assignor to S. E. & M. Vernon Inc., New York, N. Y., a corporation of New York

Application December 26, 1942, Serial No. 470,291
12 Claims. (Cl. 129—23)



5. A loose leaf book for use with orificed sheets, comprising: a binder ring including a sheet carrying portion and a retainer portion which is discontinuous, the sheet carrying portion being of greater curvature than said retainer portion; and a support element having a channel within which the binder ring is frictionally slidable; said ring being movable to a "closed" position when the retainer portion is disposed within said channel and an "open" position when the retainer portion is exposed.

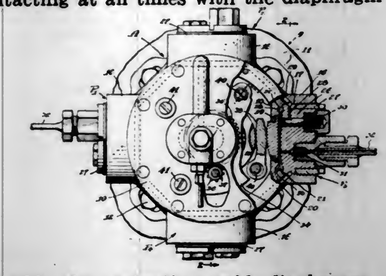
2,322,181

FUEL INJECTING AND METERING MEANS

Edward T. Vincent, Ann Arbor, Mich., assignor, by mesne assignments, to Continental Aviation and Engineering Corporation, a corporation of Virginia

Application August 29, 1939, Serial No. 292,417
6 Claims. (Cl. 103—38)

1. In a fuel injection system for internal combustion engines, a fuel pumping and fuel metering instrumentality including a pump structure having a chamber provided with an inlet and an outlet, a flexible diaphragm extending transversely of said chamber and defining one wall of said chamber, said flexible diaphragm being initially flexed, means including a push plate contacting at all times with the diaphragm and



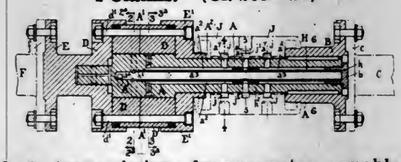
operable for actuating said diaphragm, stop means reacting against said push plate to limit the inward movement of the diaphragm and adjustable means associated with said push plate and including an adjustable tapered cam follower manually operable to vary the stroke of said diaphragm to vary the volume of fuel discharged from said pumping instrumentality.

2,322,182

TRANSMISSION DYNAMOMETER

George Henry Walker, Worcester, England, assignor to Heenan & Froude Limited, Worcester, England

Application July 13, 1942, Serial No. 450,768
In Great Britain August 13, 1941
4 Claims. (Cl. 265—25)



2. A transmission dynamometer capable of transmitting power from a driving shaft to a driven shaft and also of indicating the magnitude of the torque being transmitted comprising a driving element connected to the driving shaft and a driven element connected to the driven shaft, the two elements being co-axial and capable of limited angular movement in relation to one another, torque being transmitted from the driving to the driven element by liquid under pressure, such pressure varying with the amount of torque whereby a measurement of the pressure gives an indication of the torque being transmitted said driving element consisting of a spider having a plurality of radial arms arranged at equal angular distances apart and said driven element consisting of an annulus surrounding the driving element and having the same number of radial arms which project inwards towards the boss of the driving element and are interspaced between the arms of the latter, the interspaced radial arms of the two elements thus forming a series of chambers the number of which is twice the number of arms on each element, half the number of these chambers being filled under running conditions with liquid under pressure, the magnitude of which depends upon the magnitude of the torque to be transmitted, and the remaining chambers which alternate with those filled with liquid

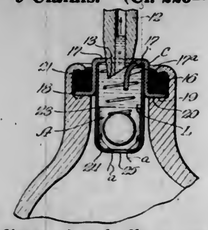
under high pressure being filled with liquid under relatively low pressure, an external pump to which the high pressure chambers are connected for giving a continuous supply of liquid under pressure thereto, a reservoir from which the pump sucks the liquid and to which the low pressure chambers are connected, the high pressure chambers being also connected to the low pressure chambers to provide a passage for the escape of surplus liquid from the former the area of which passage is automatically varied so as to build up a differential pressure of liquid acting upon the surface of the radial arms to transmit torque from the driving to the driven element and a pressure indicating device connected to the high pressure supply to provide an indication of the torque transmitted.

2,322,183

DISPENSING BULB

Lawrence T. Ward, Philadelphia, Pa., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri

Application July 15, 1940, Serial No. 345,568
9 Claims. (Cl. 225—18)



1. In a dispensing bulb, a capsule having an opening in a wall thereof, a closure element for said opening, said closure element being adapted to be pierced by a piercing pin, a compartment within said capsule between said closure element and the interior of the capsule for containing material to be dispensed from the capsule through the piercing pin, said compartment being in communication with the piercing pin upon receiving the pin and having an opening to receive gas from the capsule and force out said material through the piercing pin before the gas from the capsule passes through the compartment and the pin, a check valve in said compartment opening toward the compartment and closing toward the capsule, and a spring to retain said check valve seated.

2,322,184

LUBRICATING COMPOSITION

Ellis R. White, Albany, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 21, 1941, Serial No. 375,245
6 Claims. (Cl. 252—32)

1. An improved lubricant comprising predominantly a mineral lubricating oil having admixed therewith a minor proportion of an addition compound selected from the group consisting of semicarbazones and thiosemicarbazones.

2,322,185

PROCESS FOR MAKING PAPER

John Alfred Bicknell, Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass., a corporation of Massachusetts

No Drawing. Application January 22, 1940, Serial No. 315,151
26 Claims. (Cl. 92—21)

1. Process for the flocculation of finely divided mineral matter suspended in an aqueous medium which comprises dispersing a small amount, compared to the weight of mineral matter in suspension, of karaya gum in said aqueous medium.

2,322,186

OLEAGINOUS PREPARATION

Howard C. Black, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 20, 1941, Serial No. 394,330
14 Claims. (Cl. 99—1)

3. A process for improving the resistance to foaming of oleaginous materials which comprises adding phosphoric acid to a substantially dry oleaginous material in the presence of a nickel hydrogenation catalyst.

9. A process for improving the resistance to foaming of oleaginous materials which comprises washing a fatty material with a substantial quantity of a dilute phosphoric acid, separating the treated oleaginous material from the aqueous acid and then hydrogenating the resulting product.

2,322,187

PROCESS OF DEEP FAT FRYING

Howard C. Black, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 20, 1941, Serial No. 394,331
20 Claims. (Cl. 99—1)

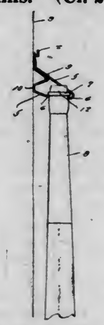
1. In the process of deep fat frying the steps which comprise adding a small amount of a nontoxic, water soluble, oil soluble salt of an organic polyoxygen-containing acid to a fat suitable for deep fat frying except normally tending to foam on heating, said amount being not in excess of about 1% and sufficient to substantially prevent said foaming, and holding the fat at a deep fat frying temperature for a substantial period.

2,322,188

BOOT HANGER

Clarence Edward Bonniwell, Flint, Mich.

Application August 10, 1942, Serial No. 454,332
3 Claims. (Cl. 248—303)



3. A hanger for a boot comprising a single length of resilient heavy gauge wire bent upon itself intermediate its ends and including an open loop for hooking over a nail in a wall, a short shank comprising a pair of straight shank stretches forming side-by-side depending continuations of opposite ends of the loop, respectively, and a pair of opposed jaw forming stretches comprising depending continuations of

said shank stretches, respectively, and terminating in a pair of hook-like ends turned toward each other for engaging under the sole of a boot, said jaw forming stretches being relatively separable to permit insertion of the sole of the boot between the same, and reactive to engage said hook-like ends under said sole, and a slide ring encircling said jaw forming stretches to oppose relative separation of the same and thereby retain said hook-like ends engaged under said sole, said jaw forming stretches being constructed and arranged to lie in a common plane in a right angle to the plane of said loop to span the sole of said boot crosswise and hold the foot of the boot disposed lengthwise along said wall, one of said jaw forming stretches having a U bend therein for engaging the wall to prevent the hanger from swinging toward the wall and thereby maintain the hook-like ends and boot spaced from said wall.

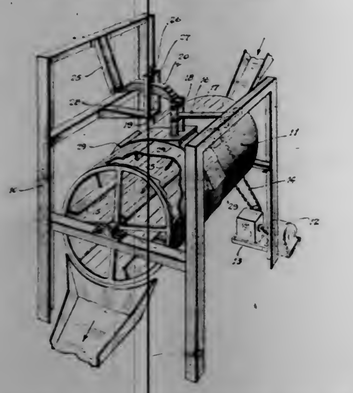
2,322,189

AUTOMATIC KNOCKER FOR FERTILIZER MIXERS

Harry A. Cole, Baltimore, Md., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application May 9, 1942, Serial No. 442,317

2 Claims. (Cl. 259—1)



1. A mixer for fertilizer materials and the like comprising a frame, a rotating drum supported in said frame to receive the ingredients to be mixed, said drum being disposed with its axis directed generally horizontally, a driven hammer for striking said drum at spaced points to knock the ingredients adhering thereto off of the drum, said hammer being pivotally mounted on said frame and extending generally horizontally therefrom, a head for said hammer, said head extending vertically and being pivotally connected to the end of said hammer, resilient means for driving the hammer against the drum, said resilient means including a longitudinal member extending generally horizontally from the frame and being pivotally connected to said head at a point spaced from said first named pivotal connection of the head to the hammer, means to rotate said drum, and risers spaced around the periphery of said drum to lift said hammer away from the drum and compress said resilient means so that when the hammer passes off of the riser it is driven against the drum, and said hammerhead being pivotally connected between the hammer and the longitudinal member to permit the hammer to be lifted by said riser.
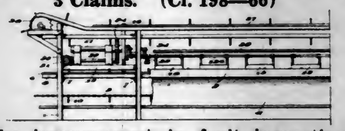
2,322,190

FRUIT INSPECTING AND TRIMMING TABLE

Bruce L. Fleming, Lahaina, Territory of Hawaii, assignor to Baldwin Packers, Limited, a corporation of Hawaii

Application September 22, 1941, Serial No. 411,911

3 Claims. (Cl. 198—66)



1. The improvement in fruit inspecting and trimming tables of the type having an endless conveyer for advancing the fruit and a plurality of inspection stations arranged along the conveyer, said improvement including a rotatable shaft mounted above the conveyer, a plurality of means rigid with said shaft and respectively depending therefrom adjacent said inspection stations, and mechanism operating in timed relation with the movement of the conveyer for rotating said shaft to cause said members to push the fruit from the conveyer toward said inspection stations, said mechanism including periodically movable means for automatically rotating said shaft each time the conveyer advances an amount sufficient to present fruit opposite each inspection station.

2,322,191

WITHDRAWN

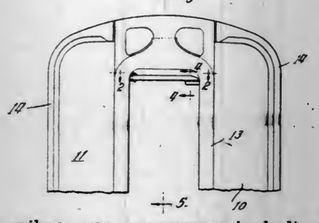
2,322,192

FACEPLATE ARRANGEMENT

Basil E. Jones, Flossmoor, Ill., assignor to The Pullman Company, Chicago, Ill., a corporation of Illinois

Application September 4, 1942, Serial No. 457,288

9 Claims. (Cl. 105—21)



1. A railway car passageway including a faceplate having an upper surface adapted to be disposed in engagement with a similar surface of an adjoining faceplate thereby to form a joint, a trough member pivotally secured at one side of the passageway to said first faceplate and extending beneath said joint part way of the width of the passageway and supported from said faceplate at the other side of the passageway, spring means engaging the trough at said last named side, and a similar trough on said adjoining faceplate adapted to extend beneath said joint the remaining width of the passageway, said troughs being maintained in engagement by said spring means.

2,322,193

CUSHION

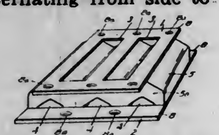
Gustav Henry Kaemmerling, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application October 15, 1940, Serial No. 361,273

11 Claims. (Cl. 248—358)

1. The combination with rigid side plates, of

an intervening cushion element of resilient incompressible material such as rubber having a plurality of united tiers, each tier having integral supporting ridge portions alternating from side to side, and openings opposite the supporting portion and alternating from side to side, placing



intervening walls in shear, supporting portions of one tier being united with supporting portions of a superimposed tier, the resilient material of the tiers being integral, the openings extending through the material from edge to edge of the cushion.

2,322,194

PROCESS FOR MAKING CEMENT PRODUCTS

George D. King, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application August 14, 1939, Serial No. 289,978

1 Claim. (Cl. 106—88)

The process of producing a set calcium sulfate dihydrate product which comprises the steps of mixing calcined gypsum with water and with not substantially exceeding 10% of dry comminuted cellulosic fibers having a diameter of from about 0.01 to 0.04 millimeter and a length of from about 0.25 to 1.0 millimeter; incorporating a foam with the mixture of water, calcined gypsum, and fibers; forming the mixture to its intended shape within a period not substantially exceeding 100 seconds after said mixing thereby avoiding waterlogging of the added fibers; and effecting the setting of the mixture within a period not substantially exceeding 15 minutes so as to prevent undesired excess swelling of the fibers prior to the setting having taken place, whereby to form a lightweight set-hardened product.

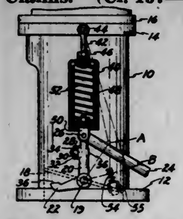
2,322,195

THROTTLE CONTROL FOR INTERNAL COMBUSTION ENGINES

Frank C. Mock, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application April 10, 1941, Serial No. 387,803

20 Claims. (Cl. 137—139)



1. A device for controlling the throttle of an internal combustion engine comprising a throttle shaft movable between throttle-open and throttle-closed positions, and means for substantially reducing the unbalanced force on the throttle resulting from air flow therepast comprising spring means for urging the shaft toward one of said positions with a torque which is a maximum at an intermediate shaft position and diminishes with movement of the shaft toward either the open or closed positions.

2,322,196

SULPHAPYRIDINE PROCESS

Elmore H. Northey and Leonard H. Dhein, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application March 17, 1942, Serial No. 435,079

6 Claims. (Cl. 260—296)

1. In a process of producing 2-sulphanilamidopyridine by hydrolysis of its sodium salt the improvement which comprises passing sulphur dioxide gas through a solution of the salt until the pH is reduced to about 6.5–7.5.

2,322,197

ROSIN BASE RESIN

Frank G. Oswald, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 22, 1941, Serial No. 389,742

17 Claims. (Cl. 260—26)

1. A resin comprising a hard, stable, oil-soluble ester of penetaerythritol, a rosin acid and an alpha-beta unsaturated polybasic acid, the amount of said unsaturated polybasic acid employed in the resin being equivalent to an amount of maleic anhydride of above about 1% and less than about 9% by weight based on the weight of said rosin acid, and the rosin and polybasic acid groups being substantially completely esterified.

2,322,198

COATING COMPOSITION

Clinton H. Parsons, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application March 15, 1941, Serial No. 383,547

10 Claims. (Cl. 99—166)

1. The method of coating cheese which comprises applying to the surface of the cheese a waxy mixture containing essentially a petroleum wax and about 5 to 20 per cent of a partial ester ingredient composed of at least one ester of a fatty acid and a polyhydric alcohol having one or more free alcoholic hydroxyl group on the polyhydric alcoholic component of the ester, said mixture having the properties of adhering firmly to the cheese and being plastic over a wide range of temperatures.

7. A cheese coating waxy composition comprising essentially a petroleum wax of the class of paraffin wax of melting point of 126 to 128 degrees F., amorphous petroleum wax of melting point of about 140 to 145 degrees F., and amorphous petroleum wax of melting point of about 160 to 165 degrees F., and about 5 to 20 per cent of a partial ester ingredient containing at least one ester of the class of monoglycerides and diglycerides.

2,322,199

DIVIDER FOR MEAT BOILERS

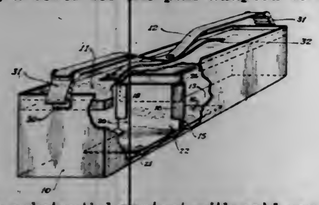
Sayle Edgar Smith, Elmhurst, Long Island, N. Y., and Charles L. Straeten, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application October 9, 1941, Serial No. 414,364

3 Claims. (Cl. 53—22)

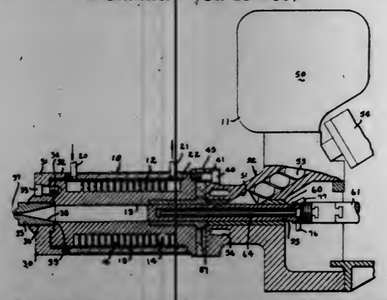
1. In combination a pan for receiving a material to be treated, said pan having a regular transverse cross-section and a removable partitioning means to divide the pan into compart-

ments, said means including a plurality of interfitted parts, said parts forming a vertical wall, one of said parts having a horizontal vane that is engaged against the floor of the pan when a material is placed in said pan, said one part being also provided with a vertical wall, another of said parts having a vertical wall and a horizontally disposed cap member to engage the upper surface of the material in the pan, and means for slidably interfitting said vertical walls, said assembled parts being adapted to fit within said pan to form a vertical wall with respect to the floor thereof, a cover for the pan adapted to be dis-



posed in substantial contact with said cap member, said partitioning means being adjustable longitudinally lengthwise of the pan and said other member being adjustable vertically with respect to said first named member whereby materials of non-uniform size may be individually placed in said pan whereupon said partitioning means and said cover may be closely fitted to the material to mold it while it is being processed and said material will be firmly engaged between said vane and said cap so that the partitioning means is stabilized in a vertical position with respect to the floor.

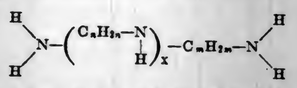
2,322,200
INJECTION UNIT
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application October 24, 1940, Serial No. 362,627
2 Claims. (Cl. 18—30)



1. An injection molding apparatus for injection molding plastic materials such as thermosetting and thermoplastic resins comprising, an injection cylinder, an injection plunger movable in said injection cylinder, means for heating the interior of said cylinder to thereby heat plastic material contained therein, and means for maintaining that portion of the heated material which is immediately adjacent the end of said plunger at a comparatively low temperature and below plastic injection temperature, said last named means including means for conducting cooling fluid into direct contact with the forward end of said plunger, comprising a central bore in said piston, a tube in said central bore having means for spacing the same from said piston walls, whereby the incoming cooling fluid is conducted into direct contact with the forward end of said plunger while it is prevented from contacting the cylindrical side walls of said plunger until after it has contacted the forward end of said plunger.

2,322,201
MINERAL CONCENTRATION
David Walker Jayne, Jr., Old Greenwich, Harold Milton Day, Cos Cob, and Stephen Edward Erickson, Glenbrook, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 28, 1941, Serial No. 385,678
6 Claims. (Cl. 209—166)

1. In ore concentrating processes utilizing differential surface wettability principles of separating acidic ore materials from other ore constituents the process which comprises carrying out the concentration operation in the presence of a promoter for the acidic ore material, said promoter comprising the reaction products of polyalkylene polyamines represented by the following general formula:

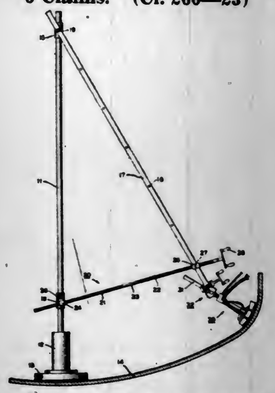


in which n, m, and x are small whole numbers, with naphthenic acids, and salts thereof.

2,322,202
TALLOEL ESTERS OF AMINO ALCOHOLS
David W. Jayne, Jr., Old Greenwich, and Harold M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 13, 1941, Serial No. 422,922
12 Claims. (Cl. 250—97.5)

4. The talloel esters of organic sulfonic acid salts of amino alcohols having at least one of the radicals of the group consisting of primary amino radicals and secondary amino radicals.

2,322,203
SCANNING APPARATUS
Louis C. McNutt, Scotch Plains, N. J., assignor to M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application June 6, 1940, Serial No. 339,049
6 Claims. (Cl. 266—23)



1. A scanning apparatus for progressively moving a testing device over a substantially circular surface area comprising a base intended to be positioned at the center of said area, a rotatable vertical shaft having its lower end journalled in said base, a bar pivotally suspended to rotate on a horizontal axis from the upper end of said shaft, means for rotating said bar on its pivot to vary the angle between the bar and the shaft, an extensible support arm having limited extension pivotally mounted to rotate on a horizontal axis at the lower end of said bar, means constantly urging said support arm to its extended position, means for rotating said support arm on its pivot, and a testing device attached to the end of said support arm, said device being movable about said shaft in a path determined by both of said rotating means.

DESIGNS

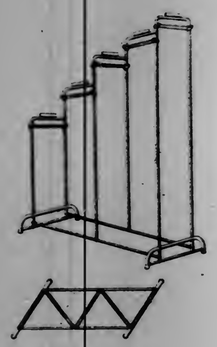
JUNE 15, 1943

135,811
DESIGN FOR A SHOE
Maurice J. Bernstein, Brighton, Mass., assignor to Panther-Panco Rubber Co., Inc., Chelsea, Mass., a corporation of Massachusetts
Application September 13, 1941, Serial No. 103,342
Term of patent 14 years



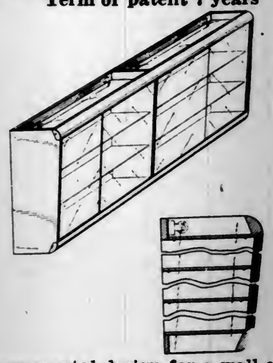
The ornamental design for a shoe, substantially as shown and described.

135,812
DESIGN FOR A CURTAIN DISPLAY RACK
Albert Bersin, Brooklyn, and Louis Samuels, New York, N. Y.
Application December 15, 1941, Serial No. 104,628
Term of patent 7 years



The ornamental design for a curtain display rack, as shown.

135,813
DESIGN FOR A WALL CABINET
Halbert Creston Doner, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application November 23, 1942, Serial No. 108,844
Term of patent 7 years



The ornamental design for a wall cabinet, substantially as shown.

135,814
DESIGN FOR A PAPER CLIP
Fred Ours, Denver, Colo.
Application April 15, 1943, Serial No. 109,978
Term of patent 14 years



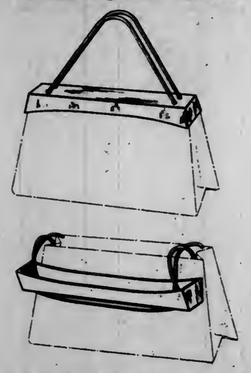
The ornamental design for a paper clip, as shown.

135,815
DESIGN FOR A PLAY SUIT OR SIMILAR ARTICLE
Bernice Seham, New York, N. Y.
Application March 3, 1943, Serial No. 109,653
Term of patent 14 years



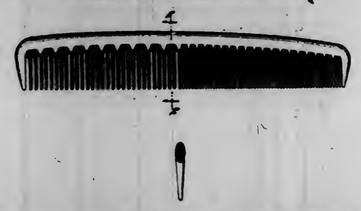
The ornamental design for a play suit or similar article, substantially as shown.

135,816
DESIGN FOR A HANDBAG
Robert Appel, New York, N. Y.
Application April 20, 1943, Serial No. 110,010
Term of patent 7 years



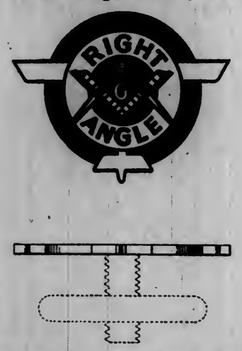
The ornamental design for a handbag, substantially as shown and described.

135,817
DESIGN FOR A DRESSING COMB
Oswald B. Carson, Scarsdale, N. Y., assignor to American Hard Rubber Company, New York, N. Y.
Application April 28, 1943, Serial No. 110,067
Term of patent 14 years



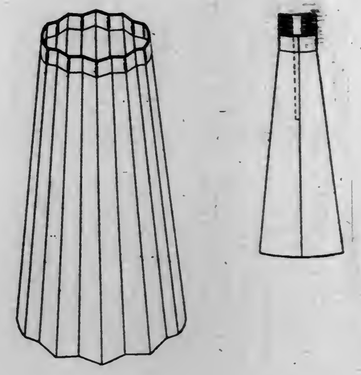
The ornamental design for a dressing comb, as shown.

135,818
DESIGN FOR A LAPEL BUTTON OR THE LIKE
Samuel Gholson, Cincinnati, Ohio
Application April 6, 1943, Serial No. 109,916
Term of patent 7 years



The ornamental design for a lapel button or the like, as shown.

135,819
DESIGN FOR A SKIRT
Arthur Heyman, Oakland, Calif., assignor to Joe Koret, San Francisco, Calif.
Application October 13, 1941, Serial No. 103,751
Term of patent 14 years



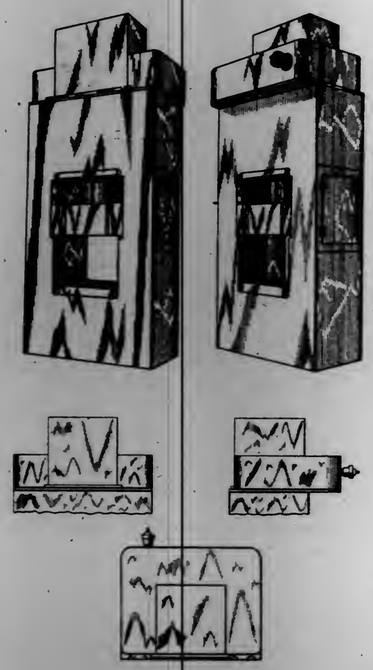
The ornamental design for a skirt, substantially as shown and described.

135,820
DESIGN FOR A SPRING HAIR CURL CLIP
Hazel M. Lundquist, San Francisco, Calif.
Application April 10, 1943, Serial No. 109,950
Term of patent 7 years



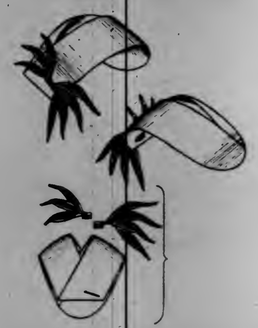
The ornamental design for a spring hair curl clip, substantially as shown.

135,821
DESIGN FOR A HYDRAULIC PRESS
Howard V. Mills, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation Inc., Wilmington, Del., a corporation of Delaware
Application October 8, 1942, Serial No. 108,468
Term of patent 14 years



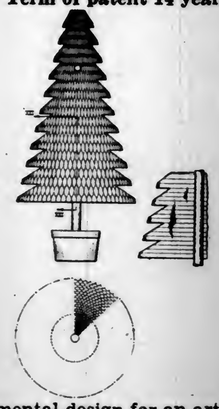
The ornamental design for a hydraulic press, substantially as shown.

135,822
DESIGN FOR A HAT
Amy Moncé, New York, N. Y.
Application April 21, 1943, Serial No. 110,015
Term of patent 3½ years



The ornamental design for a hat, substantially as shown, and described.

135,823
DESIGN FOR AN ARTIFICIAL CHRISTMAS TREE
Albert P. Schmid, Philadelphia, Pa., assignor to Bernard Wilmsen, Philadelphia, Pa.
Application October 19, 1942, Serial No. 108,572
Term of patent 14 years



The ornamental design for an artificial Christmas tree, as shown.

135,824
DESIGN FOR A FINGER RING
William Segman, Flushing, N. Y.
Application July 22, 1942, Serial No. 107,647
Term of patent 3½ years



The ornamental design for a finger ring, as shown and described.

135,825
DESIGN FOR A VALVE
Lewis E. Smith, Dallas, Tex.
Application March 5, 1943, Serial No. 109,670
Term of patent 14 years



The ornamental design for a valve, as shown.

135,826
DESIGN FOR A DRESS
Abraham Greenspan, New York, N. Y.
Application May 11, 1943, Serial No. 110,178
Term of patent 7 years



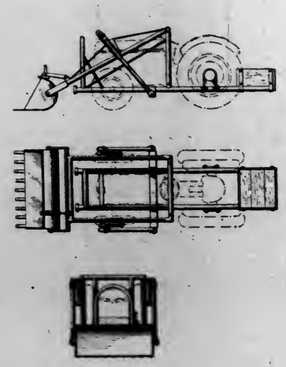
The ornamental design for a dress, substantially as shown.

135,827
DESIGN FOR A DRESS
Harold H. Stahl, New York, N. Y.
Application May 11, 1943, Serial No. 110,176
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,828
DESIGN FOR A TRACTOR CARRIED MATERIAL HANDLER OR THE LIKE
Curtis C. Baldwin, Ottawa, Kans.
Application October 31, 1942, Serial No. 108,658
Term of patent 7 years



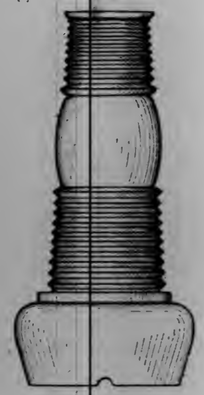
The ornamental design for a tractor carried material handler or the like, as shown and described.

135,829
DESIGN FOR A RING
Ernest O. Crocker, Washington, D. C.
Application April 9, 1943, Serial No. 109,943
Term of patent 3½ years



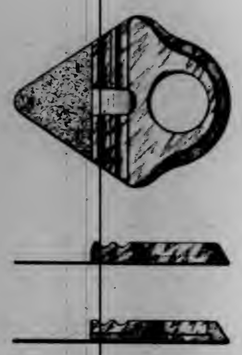
The ornamental design for a ring, as shown.

135,830
DESIGN FOR A LAMP
Samuel L. Dinkelspiel, Chicago, Ill.
Application November 16, 1942, Serial No. 108,794
Term of patent 3½ years



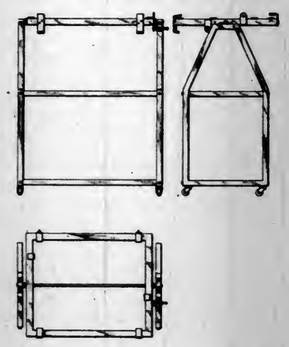
The ornamental design for a lamp, substantially as shown and described.

135,831
DESIGN FOR A HOLDER FOR INKWELLS AND PENS
William M. Gallagher, Oklahoma City, Okla.
Application March 30, 1943, Serial No. 109,861
Term of patent 14 years



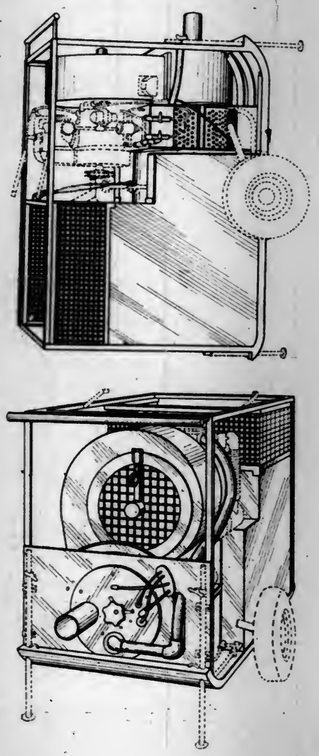
The ornamental design for a holder for inkwells and pens, as shown.

135,832
DESIGN FOR A WORK-HOLDING RACK
Jerome E. Hagstrom, Kansas City, Mo., assignor to C. Earl Hovey, Kansas City, Mo., as trustee
Application April 12, 1943, Serial No. 109,961
Term of patent 7 years

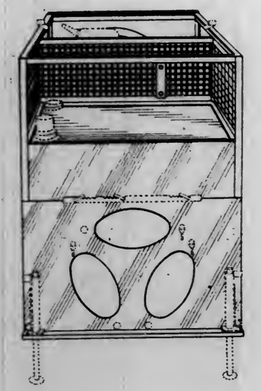


The ornamental design for a work-holding rack, as shown.

135,833
DESIGN FOR A PORTABLE HEATING UNIT
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application October 27, 1942, Serial No. 108,623
Term of patent 14 years

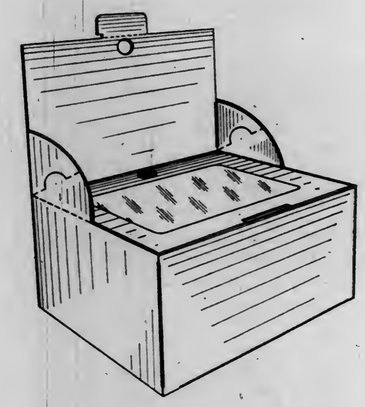


135,833—Continued



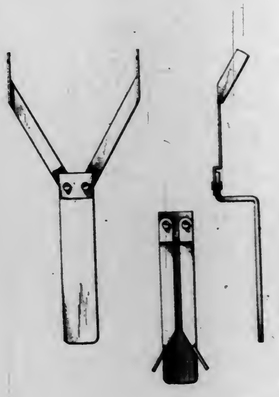
The ornamental design for a portable heating unit, substantially as shown and described.

135,834
DESIGN FOR A COMBINED SHIPPING AND DISPLAY CONTAINER
Daniel A. Larkin, Sandusky, Ohio, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio
Application March 18, 1942, Serial No. 106,235
Term of patent 7 years



The ornamental design for a combined shipping and display container, as shown and described.

135,835
DESIGN FOR A HOLDER FOR RATION CONTAINER
Nicholas T. Naranick, United States Army, Casper, Wyo.
Application October 2, 1942, Serial No. 108,393
Term of patent 3½ years
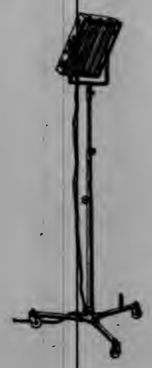


The ornamental design for a holder for ration container, as shown.

135,836
DESIGN FOR A COMBINED ASH TRAY AND MATCH BOX HOLDER
Sally Oestreicher, Akron, Ohio
Application March 11, 1943, Serial No. 109,723
Term of patent 7 years



The ornamental design for a combined ash tray and match box holder, as shown.

135,837
DESIGN FOR A PORTABLE LIGHT FIXTURE
Van L. Vendope, New York, N. Y., assignor of thirty-three and one-third per cent to Arthur A. Baron and thirty-three and one-third per cent to Richard Burdick, both of Dallas, Tex.
Application January 23, 1942, Serial No. 105,384
Term of patent 14 years



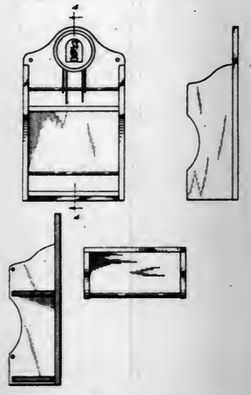
The ornamental design for a portable light fixture, as shown.

135,838
DESIGN FOR AN APPLIQUÉ EMBLEM OR SIMILAR ARTICLE
David T. Golden, New York, N. Y.
Application March 4, 1943, Serial No. 109,665
Term of patent 3½ years



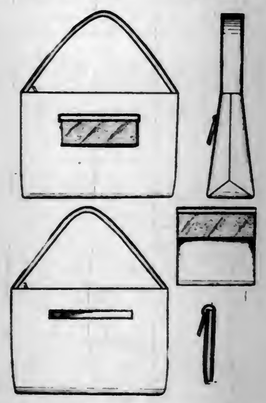
The ornamental design for an appliqué emblem or similar article, substantially as shown.

135,839
DESIGN FOR A SPICE CABINET OR SIMILAR ARTICLE
Horner H. Hopkins, Des Moines, Iowa, assignor to Cobbs-Hopkins Company, Des Moines, Iowa
Application August 29, 1941, Serial No. 103,083
Term of patent 14 years



The ornamental design for a spice cabinet or similar article, substantially as shown.

135,840
DESIGN FOR A HANDBAG
Ida Jolles, New York, N. Y.
Application May 14, 1943, Serial No. 110,208
Term of patent 3½ years



The ornamental design for a handbag, substantially as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acma Paint Works, Inc., Denver, Colo. Paints, paint enamels, varnishes, etc. Serial No. 455,942; June 15. Class 16.
Agnite Corporation, Charlotte, Va. Chemical product. Serial No. 460,130; June 15. Class 6.
Allied Chemical & Dye Corporation, New York, N. Y. Pitch, tar, resin, etc. Serial No. 456,482; June 15. Class 1.
American Home Products Corporation, Jersey City, N. J. Medicinal vitamin and mineral preparations. Serial No. 460,104; June 15. Class 6.
Armstrong, C. M., Inc., New York, N. Y. Lactic acid and lactates. Serial No. 459,898–9; June 15. Class 6.
Barbera, Edward, Lodi, Calif. Fresh grapes. Serial No. 458,720; June 15. Class 46.
Basic Refractories, Inc., Cleveland, Ohio. Refractory cement preparations. Serial No. 459,042; June 15. Class 12.
Bausch & Lomb Optical Company, Rochester, N. Y. Lens grinding and polishing machinery, lens edging machinery, etc. Serial No. 460,169; June 15. Class 23.
Bell Watch Company, New York, N. Y. Watches. Serial No. 458,722; June 15. Class 27.
Berlinger, Joseph, Co., New York, N. Y. Piece goods of silk, wool, cotton, etc. Serial No. 458,903–4; June 15. Class 42.
Bovinine Company, The, Chicago, Ill. Vitamin and mineral supplement. Serial No. 460,208; June 15. Class 6.
Braverman, Nat R., New York, N. Y. Sweaters. Serial No. 457,966; June 15. Class 39.
Buchanan, Warren H., New Orleans, La. Composite board. Serial No. 459,590; June 15. Class 12.
Cardox Corporation, Chicago, Ill. Mobile fire extinguishing units. Serial No. 459,533–4; June 15. Class 23.
Consolidated Vultee Aircraft Corp., San Diego, Calif. Airplanes and structural parts thereof. Serial No. 459,577; June 15. Class 19.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 460,136; June 15. Class 6.
Coughmaster Company, Inc., Long Island City, N. Y. Cough syrup. Serial No. 459,727; June 15. Class 6.
Crocker-Sprague Co., The, Dunkirk, N. Y. Canned vegetables and tomato juice. Serial No. 459,824; June 15. Class 46.
Curtis 1000 Incorporated, St. Paul, Minn. Transparent protecting envelopes. Serial No. 459,728; June 15. Class 37.
Davidson Manufacturing Corporation, Chicago, Ill. Lithographic plate. Serial No. 459,729; June 15. Class 50.
Davidson Manufacturing Corporation, Chicago, Ill. Zinc plate used in lithography. Serial No. 459,735; June 15. Class 50.
Day & Young, Santa Clara, Calif. Fresh pears. Serial No. 458,959; June 15. Class 46.
Diamond Importing Company. (See Selwyn, Boris.)
Ditto, Incorporated, Chicago, Ill. Paper for duplicating use. Serial No. 459,701; June 15. Class 37.
Doughboy Mills, Inc., New Richmond, Wis. Dog food. Serial No. 459,071; June 15. Class 46.
Drillman, Samuel, doing business under the name of Empire City Flour Co. Wheat flour. Serial No. 458,802; June 15. Class 46.
Duro Company, The, Dayton, Ohio. Pneumatic pressure systems, etc., and parts thereof. Serial No. 460,140; June 15. Class 23.
Empire City Flour Co. (See Drillman, Samuel.)
Estee Bedding Company, Chicago, Ill. Mattresses and box springs. Serial No. 460,093; June 15. Class 32.
Evans Bros. Inc., New York, N. Y. Paints and kalsomine. Serial No. 458,095; June 15. Class 16.
Everson, Franklin E., doing business as F. E. Everson, New York, N. Y. Detergent preparation. Serial No. 458,862; June 15. Class 4.
Fair Play Caramels, Inc., Johnson City, N. Y. Candy. Serial No. 460,142; June 15. Class 46.
Glensder Textile Co., New York, N. Y. Women's scarfs. Serial No. 459,658–9; June 15. Class 39.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Coated sheet material. Serial No. 458,011; June 15. Class 37.
Grayland Cranberry Growers Association, Inc., Grayland, Wash. Fresh cranberries and strained cranberry sauce. Serial No. 447,589; June 15. Class 46.
Haeger Potteries, Incorporated, The, Dundee, Ill. Vases, bowls, flower pots, etc. Serial No. 443,603; June 15. Class 30.
Hair's, Dr., Asthma Cure Limited, Staines, England. Medicine for asthma. Serial No. 458,459; June 15. Class 6.
Harvel Watch Company, New York, N. Y. Watches, watch-movements, watchcases, and parts thereof. Serial No. 459,660; June 15. Class 27.
Harvel Watch Company, New York, N. Y. Watches, watch-movements, watchcases, and parts thereof. Serial No. 459,663–5; June 15. Class 27.
Heller, Louis, New York, N. Y. Ladies' coats and suits. Serial No. 459,835; June 15. Class 39.
Hirsch, Eugen, Brooklyn, N. Y. Resinous vehicle for paints and enamels. Serial No. 459,224; June 15. Class 16.
Horowitz & Son, Inc., New York, N. Y. Watches. Serial No. 459,566–7; June 15. Class 27.
House of Tre-Jur, Inc., New York, N. Y. Perfume. Serial No. 459,928; June 15. Class 6.
Kasco Mills, Inc., Toledo, Ohio. Dog ration. Serial No. 460,000; June 15. Class 46.
King Manufacturing Company, St. Louis, Mo. Medicinal preparation. Serial No. 459,910; June 15. Class 6.
Kurfees, J. F., Paint Company, Louisville, Ky. Wood stains, ready-mixed paints and semi-paste paints. Serial No. 458,708; June 15. Class 16.
Lincoln Engineering Company, St. Louis, Mo. Lubricant fittings to be attached to apparatus to be lubricated. Serial No. 460,117; June 15. Class 23.
Lockport Cotton Batting Co., Lockport, N. Y. Cotton batting or cotton batts. Serial No. 459,626; June 15. Class 1.
Lunex Corp., Davenport, Iowa. Woven or other fabric in strips or sheets. Serial No. 451,663; June 15. Class 50.
Magnavox Company, The, Fort Wayne, Ind. Electrical sound-amplifying devices, loud-speaking telephones, etc. Serial No. 455,707; June 15. Class 21.
Miller Art Company, Inc., Brooklyn, N. Y. Greeting and message sheets. Serial No. 457,443; June 15. Class 37.
Monroe Auto Equipment Company, Monroe, Mich. Airplane type shock absorbers and shock absorber parts. Serial No. 459,476; June 15. Class 19.
Nash, Inc., Jersey City, N. J. Leather goods. Serial No. 460,121; June 15. Class 3.
National Drug Company, The, Philadelphia, Pa. Product which comprises an ointment containing allantoin and sulfanilamide. Serial No. 460,097; June 15. Class 6.
Newport Industries, Inc., Pensacola, Fla. Oil substitute for paints and varnishes. Serial No. 459,128; June 15. Class 16.
New-Way Foods. (See Priestley, Thomas T.)
Nion Corporation, Los Angeles, Calif. Laxative in capsule form. Serial No. 459,965; June 15. Class 6.
Pedigree Fabrics Inc., New York, N. Y. Rayon fabrics in the piece. Serial No. 458,968; June 15. Class 42.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Infants' play and sun suits. Serial No. 459,884; June 15. Class 39.
Pierce Plastics, Inc., Bay City, Mich. Flexible rod, tape and tubular hose. Serial No. 456,105; June 15. Class 50.
Priestley, Thomas T., doing business as New-Way Foods, Pasadena, Calif. Grain cereal breakfast food. Serial No. 459,849; June 15. Class 46.
Quaker Chemical Products Corp., Conshohocken, Pa. Fire retardant or repellent applied to textile fibers. Serial No. 460,063; June 15. Class 6.
Rahway Machine Tool Corporation, Rahway, N. J. Cutting tool bits. Serial No. 459,887; June 15. Class 23.
Rockmore, Milton M., New York, N. Y. Paper folders. Serial No. 458,499; June 15. Class 37.
Rosenthal & Kalman, New York, N. Y. Junior misses' and ladies' dresses, coats, suits, etc. Serial No. 459,636; June 15. Class 39.
Roth, Chester H., Co., Inc., New York, N. Y. Hosiery. Serial No. 454,481; June 15. Class 39.
Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. Serial No. 454,104; June 15. Class 6.
Sawyer, John D., doing business as Sawyer Belt Hook Company, Pawtucket, R. I. Belt hooks. Serial No. 458,561; June 15. Class 13.
Schwalberg, Reuben, doing business as Zoredex Laboratories, New York, N. Y. Medicinal ointment. Serial No. 459,889; June 15. Class 6.
Selig Company, The, Atlanta, Ga. Disinfectant, germicide, and antiseptic. Serial No. 458,291; June 15. Class 6.
Selig Company, The, Atlanta, Ga. Disinfectant, germicide, and antiseptic. Serial No. 459,677; June 15. Class 6.
Selig Company, The, Atlanta, Ga. Soap powder. Serial No. 460,073; June 15. Class 4.

Selwyn, Boris, doing business as Diamond Importing Company, Los Angeles, Calif. Jewelry. Serial No. 457,373; June 15. Class 28.
Ultra-Life Laboratories, Inc., East St. Louis, Ill. Stock feeds. Serial No. 451,329; June 15. Class 46.
Uni-Gun Corporation of America, New York, N. Y. Grease cocks, greasers, stuffing boxes containing lubricant, etc. Serial No. 459,853; June 15. Class 23.
Unit Vitamin Corporation, Newark, N. J. Vitamin B complex tablets. Serial No. 460,077; June 15. Class 6.
United Autographic Register Co., Chicago, Ill. Autographic registers. Serial No. 458,500; June 15. Class 37.
United Chemical Company, Inc., Kansas City, Mo. Polish and cleaner for floors and furniture. Serial No. 454,589; June 15. Class 16.
Unitex Manufacturing Co., The, Tiffin, Ohio. Ladies' underwear. Serial No. 459,645; June 15. Class 39.
Unitex Manufacturing Co., The, Tiffin, Ohio. Ladies' underwear. Serial No. 459,708; June 15. Class 39.
Valdor, Inc., New York, N. Y. Lipsticks, face powder, rouge, and perfumes. Serial No. 459,890; June 15. Class 6.
Verdolyack, Arthur G., Minneapolis, Minn. Paper sheeting. Serial No. 459,609; June 15. Class 37.
Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Retaining rings. Serial No. 458,320; June 15. Class 23.
Warner & Stewart, Yuma, Ariz. Fresh vegetables and melons. Serial Nos. 459,891–2; June 15. Class 46.
Wheeler, Reynolds & Stauffer, San Francisco, Calif. Machines for withdrawing from a supply of noxious liquid material as carbon bisulphide. Serial No. 457,867; June 15. Class 23.
Winthrop Chemical Company, Inc., New York, N. Y. Sedative and hypnotic preparation. Serial No. 459,916; June 15. Class 6.
Wolfe & Mann Manufacturing Company, The, Baltimore, Md. Aircraft servicing and repair platforms and machinery and tools connected therewith. Serial No. 460,226; June 15. Class 23.
Zoredex Laboratories. (See Schwalberg, Reuben.)

LIST OF REGISTRANTS OF TRADE-MARKS

Addressograph-Multigraph Corporation, Cleveland, Ohio. Identification cards. 401,886; June 15; Serial No. 457,059; published Apr. 6, 1943. Class 37.
Adensite Co., Inc., New York, N. Y., to Adensite Co., Inc., Long Island City, N. Y. Liquid integral. 175,086; renewed Oct. 30, 1943.
Affiliated Products, Inc. (See Philippe, Louis, Inc., assignor.)
Affiliated Products, Inc. (See Van Ess Laboratories, Inc., assignor.)
Allen-Spiegel Shoe Mfg. Co., assignor to Allen Edmonds Shoe Corporation, Belgium, Wis. Shoes, insoles and outersoles. 170,399; renewed July 17, 1943.
American Grana Watch Company. (See Von Burg, Emil.)
American Writing Paper Company, assignor, by mesne assignments, to American Writing Paper Corporation, Holyoke, Mass. Writing and printing paper and mailing envelopes. 173,464; renewed Sept. 25, 1943.
Armour and Company of Delaware. (See Armour Fertilizer Works, assignor.)
Armour Fertilizer Works, Chicago, Ills., and Louisville, Ky., assignor to Armour and Company of Delaware, Chicago, Ill. Commercial fertilizer. 169,633; renewed June 26, 1943.
Artistic Foundations, Inc., New York, N. Y. Bathing suits. 401,934; June 15. Class 39.
Ashland Paper Mills, Inc., Ashland, N. H. Facial tissue, toilet tissue, paper napkins, etc. 401,849; June 15; Serial No. 448,404; published Apr. 6, 1943. Class 37.
Associated Merchandising Corporation, Newark, N. J., and New York, N. Y., assignor to Associated Merchandising Corporation, New York, N. Y. Dress shields. 173,716; renewed Oct. 2, 1943.
Atlantic Refining Company, The, Philadelphia, Pa. Oils and greases, and candles, etc. 167,693; renewed May 8, 1943.
Atlas Laboratories. (See Hayes, Oscar.)
Autogenous Gas Co., Cleveland, Ohio. Highly refined gas used in the industrial arts. 401,936; June 15. Class 6.
Bach, Lesem, & Co. Incorporated, New York, N. Y. Piece goods. 401,887; June 15; Serial No. 457,339; published Mar. 2, 1943. Class 42.
Bach, Lesem, & Co. Incorporated, New York, N. Y. Piece goods. 401,894; June 15; Serial No. 457,474; published Mar. 16, 1943. Class 42.
Barbour Flax Spinning Co., Paterson, N. J., assignor to The Linen Thread Co., Inc., New York, N. Y. Hand-sewing and machine-sewing linen threads. 174,092; renewed Oct. 2, 1943.
Becker, Frederick G., Inc., Chicago, Ill. Weatherproof solid fibre board packing boxes. 401,869; June 15; Serial No. 454,473; published Apr. 6, 1943. Class 2.
Bireley's, Inc., Hollywood, Calif. Grape beverages and concentrates for making the same. 401,841; June 15; Serial No. 430,375; published Apr. 6, 1943. Class 45.
Bischoff, Ernst, Company, Incorporated, Ivoryton, Conn. Preparation for the treatment of psoriasis. 401,925; June 15; Serial No. 458,506; published Apr. 6, 1943. Class 6.
Bixby-Zimmer Engineering Co., Galesburg, Ill. Screens for use in de-watering, drying, and sizing coal and gravel, etc. 401,884; June 15; Serial No. 456,841; published Apr. 6, 1943. Class 23.
Boro Chemical Co. Inc., Binghamton, N. Y. Germicide. 167,560; renewed May 1, 1943.
Bost Records Co. (See Steiner, Rudolf.)
Botany Worsted Mills, Passaic, N. J. Woolen piece goods. 401,899; June 15; Serial No. 457,697; published Feb. 23, 1943. Class 42.
Bowcraft Company, The, New York, N. Y. Ribbon and leather bows for shoes, ribbons bows, etc. 401,951; June 15. Class 40.
Bracken, Wallace H., Rye, N. Y. Suitcases, wardrobe cases, overnight cases, etc. 401,943; June 15. Class 3.
Bread. M. Kleitsch. 401,847; June 15; Serial No. 446,274; published Apr. 6, 1943. Class 46.
Brodkin, Milton, New York, N. Y. Women's and children's hats, berets, and tam-o-shanters. 401,897; June 15; Serial No. 457,673; published Mar. 30, 1943. Class 39.
Brooks, Robert W., doing business as Brooks Paper Company, to Brooks Paper Company, St. Louis, Mo., successor. Stereotyping and copying tissue. 172,926; renewed Sept. 11, 1943.
Burns, Jabez, & Sons, assignor to Jabez Burns & Sons, Inc., New York, N. Y. Roasters, and parts thereof. 174,160; renewed Oct. 9, 1943.
Carmel Canning Company, San Francisco, Calif. Canned fish. 171,630; renewed Aug. 7, 1943.
Carter Carburetor Corporation, St. Louis, Mo. Internal combustion engine carburetors. 401,839; June 15; Serial No. 421,597; published Mar. 30, 1943. Class 23.
Castaloy Corporation, Detroit, Mich. Fixtures. 401,861; June 15; Serial No. 453,633; published Mar. 30, 1943. Class 23.
Celludye Corporation, New York, N. Y. Textile dye. 401,926; June 15; Serial No. 458,585; published Apr. 6, 1943. Class 6.
Central Chemical Corporation of Maryland, Hagerstown, Md. Fumigant insecticide. 401,947; June 15. Class 6.
Chance, A. B., Company, Centralia, Mo. Anchor rods, bolts, nuts, etc. 401,922; June 15; Serial No. 458,389; published Apr. 6, 1943. Class 13.
Chaswick-Boston Lead Company, by change of name to National-Boston Lead Company, Boston, Mass. White lead, dry and in oil. 174,267; renewed Oct. 9, 1943.
Chemical Marketing Company, Incorporated, New York, N. Y. Wetting agent, emulsifier, fatty albumin acid, and animal protein extraction product. 401,860; June 15; Serial No. 453,615; published Apr. 6, 1943. Class 6.
Cohn-Hall-Marx Co., New York, N. Y. Piece goods. 401,876; June 15; Serial No. 456,097; published Mar. 16, 1943. Class 42.
Cohn-Hall-Marx Co., New York, N. Y. Piece goods. 401,889; June 15; Serial No. 457,382; published Feb. 23, 1943. Class 42.
Colgate & Company, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Perfumes and toilet waters. 174,679–82; renewed Oct. 23, 1943.
Colgate-Palmolive-Peet Company. (See Colgate & Company, assignor.)
Commander-Larabee Milling Company. (See Larabee Flour Mills Corporation, The, assignor.)
Comte Nursery. (See Kondo, Valentine Comte.)
Condit, Park N., Boston, Mass., to Park N. Condit, Newton Center Mass. Formalin, anodynes, eugenol dichloramine, etc. 167,462; renewed May 1, 1943.
Corning Glass Works, Corning, N. Y. Miscellaneous electric insulator bodies; electric lamp bulbs and sealing glass. 401,862; June 15; Serial No. 453,711; published Oct. 13, 1942. Class 21.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 401,907; June 15; Serial No. 458,091; published Apr. 6, 1943. Class 6.
Cream Balm Company, The, assignor to Wyeth Chemical Company, Jersey City, N. J. Medicinal compound. 172,568; renewed Sept. 11, 1943.
Cultivator Publishing Company, Los Angeles, Calif. Periodical. 175,138; renewed Oct. 30, 1943.
Cushman & Denison Manufacturing Company, Inc., New York, N. Y. Card indexes, cards and forms for indexes, loose leaf books, etc. 401,903; June 15; Serial No. 457,823; published Apr. 6, 1943. Class 37.
Dahl, Norman F., Toronto, Ontario, Canada, assignor to Lehn & Fink Products Corporation, Bloomfield, N. J. Cosmetics. 401,870; June 15; Serial No. 454,686; published Apr. 6, 1943. Class 6.
Dalco Textile Co., Inc., New York, N. Y. Dishcloths and untreated utility cloths. 401,931; June 15. Class 42.
Davidson, David, Providence, R. I. Pitcures. 174,117; renewed Oct. 2, 1943.

Delacour Bros. Ltd., assignor to Delco Briars Limited, London, England. Tobacco pipes. 170,615; renewed July 17, 1943.
Delco Briars Limited. (See Delacour Bros. Ltd., assignor.)
Dicalite Company, The, Los Angeles, Calif. Thermally insulating plastic. 401,952; June 15. Class 12.
Diplomat Products, Inc. (See Silz, A., Inc.)
Durakool, Inc., Elkhart, Ind. Electrical relays and switches. 401,939; June 15. Class 21.
Dobbs & Co., New York, N. Y., assignor, by mesne assignments, to Hat Corporation of America, Norwalk, Conn. Caps, hats, gloves, etc. 174,832; renewed Oct. 23, 1943.
Du-Tone Ribbon Corp., New York, N. Y. Ribbons. 401,949; June 15. Class 42.
Eastman Kodak Company. (See Fretz, Wm. F., & Son, assignor.)
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. 401,845–6; June 15; Serial Nos. 445,390–1; published Apr. 6, 1943. Class 6.
Edmonds, Allen, Shoe Corporation. (See Allen-Spiegel Shoe Mfg. Co., assignor.)
Edwin & Louis Bry, Inc., New York, N. Y. All wool tweed piece goods. 401,929; June 15. Class 42.
Ely & Walker Dry Goods Company. (See Wyman, Partridge & Co.)
Ely & Walker Dry Goods Company, St. Louis, Mo. Sweaters. 173,697; renewed Oct. 2, 1943.
Flower Foods, Inc., Maywood, Ill. Composition containing chemical ingredients for cut plants. 401,927; June 15; Serial No. 458,591; published Apr. 6, 1943. Class 6.
Foote & Jenks, Inc., Jackson, Mich. Carbonated mixer beverage, and syrup and extract for mixing the same. 401,954; June 15. Class 45.
Forgey, Charles L., doing business as Witcherie Laboratory, Detroit, Mich. Face rouge. 167,419; renewed May 1, 1943.
Forstner Chain Corporation, Irvington, N. J. Chains for personal adornment. 170,715; renewed July 24, 1943.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, paper towels, etc. 175,159; renewed Oct. 30, 1943.
Frederick Charles Company, The. (See Manheck, Frederick C.)
Fretz, Wm. F., & Son, Doylestown, Pa., assignor to Eastman Kodak Company, Rochester, N. Y. Rayon piece goods. 401,891–2; June 15; Serial Nos. 457,415–16; published Mar. 16, 1943. Class 42.
Gamble Stores Incorporated, Minneapolis, Minn. Felt base floor coverings. 401,940; June 15. Class 20.
General Mills, Inc., Minneapolis, Minn. Flour. 401,853; June 15; Serial No. 449,990; published Apr. 6, 1943. Class 46.
General Shoe Corporation, Nashville, Tenn. Shoes. 401,902; June 15; Serial No. 457,809; published Mar. 30, 1943. Class 39.
Goshen Churn & Ladder Company, The, by change of name to Goshen Churn & Ladder, Inc., Goshen, Ind. Ladders and step stools. 175,005; renewed Oct. 30, 1943.
Graphicut Corporation, New York, N. Y. Jig-saw puzzle games. 401,874; June 15; Serial No. 455,477; published Apr. 6, 1943. Class 22.
Gruen Watch Company, The, Cincinnati, Ohio. Watches, watchcases, and watch movements. 401,944; June 15. Class 27.
Gwin, White & Prince, Inc., Seattle, Wash. Apples and pears. 401,937; June 15. Class 46.
Hamersley Manufacturing Company, The, New York, N. Y., to The Hamersley Manufacturing Company, Garfield, N. J. Waxed paper. 172,417; renewed Aug. 28, 1943.
Hammermill Paper Company, Erie, Pa. Writing-paper, superfine writing-paper, ledger-paper, etc. 401,872; June 15; Serial No. 454,946; republished Apr. 6, 1943. Class 37.
Hammond Standish & Co., Detroit, Mich. Sausages, hams, bacon, etc. 401,933; June 15. Class 46.
Harpignies, Zinaida, New York, N. Y. Women's wearing apparel. 401,885; June 15; Serial No. 456,953; published Mar. 30, 1943. Class 39.
Hat Corporation of America. (See Dobbs & Co., assignor.)
Hayes, Oscar, doing business as Atlas Laboratories, Akron, Ohio. Lubricant. 401,865; June 15; Serial No. 454,369; published Apr. 6, 1943. Class 6.
Hayes, Oscar, doing business as Hayes Laboratories, Akron, Ohio. Medicative ointment for external and orificial application. 401,866; June 15; Serial No. 454,370; published Apr. 6, 1943. Class 6.
Hayes, Oscar, doing business as Atlas Laboratories. Kits or packages containing prophylactic rubber articles and a tube of lubricant therefor. 401,867; June 15; Serial No. 454,372; published Apr. 6, 1943. Class 44.
Hego Fabrics, Inc., New York, N. Y. Textile fabrics. 401,880; June 15; Serial No. 456,533; published Jan. 5, 1943. Class 42.
Herwitt-Quitman Curtain Corporation, Philadelphia, Pa. Curtains and bedspreads. 401,941; June 15. Class 42.
Heusner, H. N., & Son, Inc., Hanover, Pa. Cigars. 401,908; June 15; Serial No. 458,098; published Apr. 6, 1943. Class 17.
Hochbaum, Edward A. (See Lanzet, Annette.)
Hodes-Zink Mfg. Co., assignor to The Howard Zink Corporation, Fremont, Ohio. Automobile all fabric top re-covers, side and rear curtains, etc. 167,609; renewed May 1, 1943.
Hoffman, Elic A., doing business as E. A. Hoffman Candy Co., to E. A. Hoffman Candy Co. Inc., Los Angeles, Calif. Candy. 174,791; renewed Oct. 23, 1943.
Hohner, M., assignor to M. Hohner, Inc., New York, N. Y. Mouth harmonicas. 174,874; renewed Oct. 23, 1943.
Horn, A. C., Company, New York, N. Y., to A. C. Horn Company, Long Island City, N. Y. Ready-mixed paint. 171,165; renewed July 31, 1943.
Howey, Walter, doing business as International Research Laboratory, New York, N. Y. Automobile gas engine fuel mixing device. 401,863; June 15; Serial No. 453,801; published Mar. 23, 1943. Class 23.
Hoyland Steel Company, Incorporated, New York, N. Y. Tool steel. 401,909; June 15; Serial No. 458,099; published Apr. 6, 1943. Class 14.
Independent Drug Company, Inc., Jacksonville, Fla. Water bottles, fountain syringes, screw-capped ice bags. 174,420; renewed Oct. 16, 1943.
International Research Laboratory. (See Howey, Walter.)
Irwin Auger Bit Company, The, Wilmington, Ohio. Auger bit extensions. 401,843; June 15; Serial No. 434,722; published Apr. 6, 1943. Class 23.
Jackson, Edwin, Inc., New York, Andirons. 401,883; June 15; Serial No. 456,826; published Apr. 6, 1943. Class 13.
James Manufacturing Company, Fort Atkinson, Wis. Farm buildings, for housing cows, horses, sheep, etc., sheathing, metal windows and doors. 401,858; June 15; Serial No. 452,448; published Apr. 6, 1943. Class 12.
Jay Garment Company, The, to The Jar Garment Company, Portland, Ind., successor. Work shirts. 172,865; renewed Sept. 11, 1943.
Kantor Novelty, Inc., New York, N. Y. Necklaces, bracelets, finger rings, etc. 401,882; June 15; Serial No. 456,717; published Apr. 6, 1943. Class 28.
Kearney & Trecker Corporation, West Allis, Wis. Machine tools, milling machines, parts thereof and accessories. 401,935; June 15. Class 23.
Kellogg Company, Battle Creek, Mich. Coffeelike beverage. 174,517; renewed Oct. 16, 1943.
Keystone Lubricating Company, Philadelphia, Pa. Grease cups, oil cups, and lubricators. 175,062; renewed Oct. 30, 1943.
Kimble Glass Company, Vineland, N. J., and Chicago Heights, Ill. Glass floats for automatic valves. 401,881; June 15; Serial No. 456,605; published Apr. 6, 1943. Class 33.
Kistler Leather Company, South Boston, Mass., to Kistler Leather Company, Boston, Mass. Leather. 174,407; renewed Oct. 16, 1943.
Kleitsch, Mathias, doing business as Kleitsch Bakery, Detroit, Mich. Bread. 401,847; June 15; Serial No. 446,274; published Apr. 6, 1943. Class 46.
Kohnstamm, H., & Co., Inc., New York, N. Y. Washing powder. 174,868; renewed Oct. 23, 1943.
Kondo, Valentine Comte, doing business as Comte Nursery, Miami, Fla. Plants, cut stems, cut branches, etc. 401,950; June 15. Class 1.
L & L Mfg. Co., Van Dyke, Mich. Tools for use with hydraulic accessories. 401,914; June 15; Serial No. 458,155; published Apr. 6, 1943. Class 23.
Lanzet, Annette, doing business as Lanzette Laboratories, San Francisco, Calif., to Edward A. Hochbaum, doing business as Lanzette Laboratories, Chicago, Ill., successor. Face cleanser and massage pad. 167,464; renewed May 1, 1943.
Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo., assignor, by mesne assignments, to Commander-Larabee Milling Company, Minneapolis, Minn. Wheat flour. 170,807; renewed July 24, 1943.
Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo., assignor, by mesne assignments, to Commander-Larabee Milling Company, Minneapolis, Minn. Wheat flour. 170,841; renewed July 24, 1943.
Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo., assignor, by mesne assignments, to Commander-Larabee Milling Company, Minneapolis, Minn. Wheat flour. 170,931–2; renewed July 24, 1943.
Lehn & Fink Products Corpration, Bloomfield, N. J. Face powder, lipstick, compact rouge and cream rouge. 401,864; June 15; Serial No. 454,233; published Sept. 1, 1942. Class 6.
Lehn & Fink Products Corporation. (See Dahl, Norman F., assignor.)
Lehn & Fink Products Corporation, Bloomfield, N. J. Perfume, eau de cologne; toilet powder, etc. 401,915; June 15; Serial No. 457,177; published Apr. 6, 1943. Class 6.
Leonardi, S. B., & Co. Inc., New Rochelle, N. Y. Medicinal preparations for treatment of the blood, etc. 167,404; renewed May 1, 1943.
Lever Brothers Company, Cambridge, Mass. Soap. 174,859; renewed Oct. 23, 1943.

Liberty Vitamin Corporation, New York, N. Y. Vitamin B complex. 401,900; June 15; Serial No. 457,763; published Apr. 6, 1943. Class 6.
Linen Thread Co., Inc., The. (See Barbour Flax Spinning Co., Inc., assignor.)
Lockport Cotton Batting Co., Lockport, N. Y. Cotton batting or cotton batts. 401,855; June 15; Serial No. 451,085; published Apr. 6, 1943. Class 1.
Lucurell, John, Seattle, Wash. Ladies' trimmed hats. 401,890; June 15; Serial No. 457,394; published Mar. 30, 1943. Class 39.
Manheck, Frederick C., doing business as The Frederick Charles Company, Union, N. J. Shaving preparation. 401,905; June 15; Serial No. 458,042; published Apr. 6, 1943. Class 4.
Majestic Flour Mill. (See Majestic Milling Co.)
Majestic Milling Co., Aurora, Mo., to Majestic Flour Mill, Memphis, Tenn., successor. Self-rising wheat flour. 167,339; renewed May 1, 1943.
Mason, J. S., & Sons, Inc., Westboro, Mass. Cotton and linen tape, braids and webbing, wool braid, etc. 401,895; June 15; Serial No. 457,500; published Mar. 30, 1943. Class 40.
Minot, Hooper & Co., New York, N. Y. Cotton piece goods. 169,455; renewed June 19, 1943.
McKelvy, Alfred D., Company, New York, N. Y. Toilet water, cologne, and talcum powder. 401,878; June 15; Serial No. 456,342; published Jan. 5, 1943. Class 6.
Miller Manufacturing Company, Camden, N. J. Chemicals. 401,920; June 15; Serial No. 458,370; published Apr. 6, 1943. Class 6.
Mine Safety Appliances Company, Pittsburgh, Pa. Mine rock dust distributors, mine fire trucks, limestone pulverizers, etc. 401,854; June 15; Serial No. 450,264; published Mar. 30, 1943. Class 23.
Murphy, H. B., Brawley, Calif. Fresh vegetables and melons. 401,953; June 15. Class 46.
National Aluminum Cylinder Head Company, The, Cleveland, Ohio. Cylinder heads. 401,917; June 15; Serial No. 458,245; published Mar. 23, 1943. Class 23.
National Cylinder Gas Company, Chicago, Ill. Welding and brazing fluxes for cast iron, malleable iron, brass, etc. 401,928; June 15; Serial No. 458,635; published Apr. 6, 1943. Class 6.
National-Boston Lead Company. (See Chaswick-Boston Lead Company.)
Needlecraft Company, The. (See Roth, George W.)
Niagara Alkali Company, Niagara Falls, N. Y. Flake lye. 173,595; renewed Oct. 2, 1943.
Niagara Alkali Company, Niagara Falls, N. Y. Flake lye. 170,829; renewed July 24, 1943.
Northwestern Yeast Company, Chicago, Ill. Yeast. 401,896; June 15; Serial No. 457,528; published Apr. 6, 1943. Class 46.
Odosin Corporation, The, New York, N. Y. Housing-like devices or enclosures for exposing poisonous or entrapping substances to vermin and insects. 401,850; June 15; Serial No. 449,626; published Apr. 6, 1943. Class 50.
Osborn Manufacturing Company, Cleveland, Ohio. Brushes. 167,175; renewed Apr. 24, 1943.
Perfection Biscuit Company, Fort Wayne, Ind. Biscuits. 173,818; renewed Oct. 2, 1943.
Philadelphia Storage Battery Co., by change of name, to, Philco Corporation, Philadelphia, Pa. Batteries and parts and supplies therefor. 174,566; renewed Oct. 23, 1943.
Philco Corporation, Philadelphia, Pa. Storage batteries. 401,921; June 15; Serial No. 458,372; published Apr. 6, 1943. Class 21.
Philco Corportion. (See Philadelphia Storage Battery Co.)
Philippe, Louis, Inc., New York, N. Y., assignor, by mesne assignments, to Affiliated Products, Inc., Jersey City, N. J. Toilet preparations. 173,323; renewed Sept. 25, 1943.
Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass. Packaging and bottling equipment. 401,838; June 15; Serial No. 411,613; published Mar. 23, 1943. Class 23.
Pollyanna Corporation, New York, N. Y. Seam bindings. 401,942; June 15. Class 40.
Procter & Gamble Company, The (See The Van Camp Packing Company, Inc., assignor.)
Promotions, Inc., Youngstown, Ohio. Dinnerware and dinnerware sets of glassware, etc. 401,946; June 15. Class 33.
Puritan Rug Co., New York, N. Y. Scatter and novelty rugs. 401,901; June 15; Serial No. 457,778; published Mar. 30, 1943. Class 42.
Ray-Maling Co. Inc., Portland, Oregon, to, Ray-Maling Co., Inc., Hillsboro, Oregon. Canned fruits, canned berries, and canned vegetables. 174,487; renewed Oct. 16, 1943.
Remington Air Conditioning Company, Inc., New York, N. Y. Refrigeration compressors and refrigeration condensing units. 401,851; June 15; Serial No. 449,701; published Apr. 6, 1943. Class 31.
Revlon Products Corporation, New York, N. Y. Face powder, rouge and make-up base. 401,923; June 15; Serial No. 458,408; published Apr. 6, 1943. Class 6.
Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Piece goods for shirts, slacks, trousers, etc. 401,877; June 15; Serial No. 456,197; published Mar. 16, 1943. Class 42.
Rockford Wholesale Grocery Co., Rockford, Ill. Coffee. 170,647; renewed July 17, 1943.
Rogers Diesel and Aircraft Corporation, New York, N. Y. Power lawn mowers, power sweeping rotary floor brushes, and power snow removal sweeper blades. 401,911; June 15; Serial No. 458,121; published Apr. 6, 1943. Class 23.
Rosalak, Zenobia, New York, N. Y. Preparation for alleviating the discomforts of certain types of rheumatic pains. 401,840; June 15; Serial No. 427,918; published Apr. 6, 1943. Class 6.
Roth, George W., doing business as The Needlecraft Company, New York, N. Y. Shoulder pads. 401,948; June 15. Class 40.
Ruthman Machinery Company, The, Cincinnati, Ohio. Pumps. 401,842; June 15; Serial No. 433,362; published Mar. 23, 1943. Class 23.
S. A. Fabrica Argentina De Alpargatas, Buenos Aires, Argentina. Men's and women's jute or hemp soled fabric shoes. 401,868; June 15; Serial No. 454,464; published Mar. 30, 1943. Class 39.
Saks, M. J., Shoe Corp., New York, N. Y. Boots, shoes, pumps, etc. 401,888; June 15; Serial No. 457,371; published Mar. 30, 1943. Class 39.
Schwarzenbach Huber Company, The, West Hoboken, N. J., to The Schwarzenbach Huber Company, New York, N. Y. Silk piece goods. 172,973; renewed Sept. 11, 1943.
Schwarzenbach Huber Company, The, West Hoboken, N. J. to The Schwarzenbach Huber Company, New York, N. Y. Piece goods. 173,359; renewed Sept. 25, 1943.
Schwarzenbach Huber Company, The, West Hoboken, N. J. to The Schwarzenbach Huber Company, New York, N. Y. Cotton-back satin in the piece. 173,374; renewed Sept. 25, 1943.
Segal, H., New York, N. Y. Metal articles. 401,859; June 15; Serial No. 453,390; published Apr. 6, 1943. Class 28.
Silz, A., Inc., New York, N. Y., to Diplomat Products, Inc., North Bergen, N. J., successor. Canned plum pudding. 171,231; renewed July 31, 1943.
Stafford, George A., doing business as G. A. Stafford & Co., assignor to G. A. Stafford & Company, Inc., New York, N. Y. Woven cotton fabrics in the piece. 173,981; renewed Oct. 2, 1943.
Standard Brands Incorporated, New York, N. Y. Vitaminic composition. 401,918; June 15; Serial No. 458,253; published Apr. 6, 1943. Class 6.
Stanley Works, The, New Britain, Conn. Measuring tools and precision instruments. 175,063–4; renewed Oct. 30, 1943.
Star Electric Motor Co., Newark, N. J., to Star Electric Motor Co., Bloomfield, N. J. Electric motors, electric generators, and electric fans. 174,738–9; renewed Oct. 23, 1943.
Steel Products Corporation, South Windham, Maine. Tackle blocks and parts thereof. 401,875; June 15; Serial No. 455,807; published Mar. 23, 1943. Class 23.
Steiner, Rudolf, doing business as Bost Records Co., New York, N. Y. Phonographs and phonograph records. 401,938; June 15. Class 36.
Stern, Merritt Co. Inc., New York, N. Y. Neckties. 173,875–6; renewed Oct. 2, 1943.
Stout, Charles B., Memphis, Tenn. Wheat flour. 401,898; June 15; Serial No. 457,690; published Apr. 6, 1943. Class 46.
Stronghold Jewelry Co., New York, N. Y. Finger rings and finger ring guards. 401,906; June 15; Serial No. 458,084; published Apr. 6, 1943. Class 28.
Sun-Maid Raisin Growers of California, Fresno, Calif. Raisins. 401,912; June 15; Serial No. 458,126; published Apr. 6, 1943. Class 46.
Swiss Meal Co., Los Angeles, Calif. Bread. 401,932; June 15. Class 46.
Synthetic Latex Corporation, New York, N. Y. Synthetic rubber. 401,916; June 15; Serial No. 458,213; published Apr. 6, 1943. Class 1.
Syracuse Glass Company, Syracuse, N. Y. Plate glass, mirror glass, and crystal sheet. 173,007; renewed Sept. 11, 1943.
Tissue Company, The, Saugerties, N. Y. Crêpe paper. 171,002; renewed July 31, 1943.
Trio Curtain Corporation, New York, N. Y. Window curtains. 401,873; June 15; Serial No. 454,956; published Mar. 2, 1943. Class 42.
Turner Gauge Grinding Company, Ferndale, Mich. Metal gauges. 401,852; June 15; Serial No. 449,972; published Apr. 6, 1943. Class 26.
Tycer, Warren I., Roseville, to Warren I. Tycer, Zanesville, Ohio. Earthenware cooking utensils. 174,694; renewed Oct. 23, 1943.
Union-Baystate Co. Inc., Cambridge, Mass. Synthetic rubber. 401,919; June 15; Serial No. 458,256; published Apr. 6, 1943. Class 1.
Union Oil Company of California, Los Angeles, Calif. Transmission oils and greases. 174,656; renewed Oct. 23, 1943.
Union Oil Company of California, Los Angeles, Calif. Transmission oils and greases. 174,879; renewed Oct. 23, 1943.
United Chromium, Incorporated, New York, N. Y. Chemical compounds and compositions. 401,904; June 15; Serial No. 458,025; published Apr. 6, 1943. Class 6.

United Lace & Braid Mfg. Co., assignor to United Lace & Braid Company, Cranston, R. I. Lacings, galloons, and braids. 175,097; renewed Oct. 30, 1943.
United States Products Corporation, San Francisco, Calif., assignor to United States Products Corporation, Ltd., San Jose, Calif. Canned fruit, canned vegetables, canned fish, etc. 168,638; renewed May 29, 1943.
United States Products Corporation, San Francisco, Calif., assignor to United States Products Corporation, Ltd., San Jose, Calif. Canned fruit, canned vegetables, dried fruit. 167,847; renewed May 8, 1943.
United States Products Corporation, San Francisco, Calif., assignor to United States Products Corporation, Ltd., San Jose, Calif. Dried fruits or dehydrated fruits and vegetables. 165,966; renewed Mar. 27, 1943.
United Wall Paper Factories, Inc., Chicago, Ill. Wall paper. 401,910; June 15; Serial No. 458,108; published Apr. 6, 1943. Class 37.
Upson Company, The, Lockport, N. Y. Wallboard. 401,844; June 15; Serial No. 444,423; published Apr. 6, 1943. Class 12.
Van Camp Packing Company, The, Inc., Indianapolis, Ind., assignor, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio. Soap. 175,201; renewed Oct. 30, 1943.
Van Ess Laboratories, Inc., Chicago, Ill., assignor, by mesne assignments, to Affiliated Products, Inc., Jersey City, N. J. Massage preparations or tonics. 174,214; renewed Oct. 9, 1943.
Vitamin Club, The, Chicago, Ill. Vitamins. 401,924; June 15; Serial No. 458,419; published Apr. 6, 1943. Class 6.
Von Burg, Emil, doing business as American Grana Watch Company, New York, N. Y. Watches, parts thereof, watch movements, and clocks. 401,879; June 15; Serial No. 456,350; published Apr. 6, 1943. Class 27.
Waldport Sea Food Co., Inc., Newport, Oreg. Canned crabmeat. 401,945; June 15. Class 46.
Wallau, Alex L., assignor to Alex. Lee Wallau, Incorporated, New York, N. Y. Knitted scarfs and sweaters, and knit dresses. 173,197–8; renewed Sept. 18, 1943.
Wawak Company Inc., Chicago, Ill. Piece goods. 401,857; June 15; Serial No. 451,128; published May 19, 1942. Class 42.
Webster, William A., The, Company, Memphis, Tenn. Aspirin. 174,344; renewed Oct. 16, 1943.
Weck, Edward, & Company, Inc., Brooklyn, N. Y. Cutlery. 401,893; June 15; Serial No. 457,428; published Mar. 16, 1943. Class 23.
Wedrick, William R., assignor to W. R. Wedrick Farms, Inc., Silver Lake, Ind. Onions. 173,946; renewed Oct. 2, 1943.
Wedrick, W. R., Farms, Inc. (See Wedrick, William R., assignor.)
Western Paper Converting Company, Salem, Oreg. Paper, tablets, blank books, etc. 401,848; June 15; Serial No. 447,280; published Apr. 6, 1943. Class 37.
Westland Oil Company, Scobey, Mont., to Westland Oil Company, Minot, North Dakota. Gasoline, kerosene, and lubricating oils and greases. 174,764; renewed Oct. 23, 1943.
Wilson & Ross, Salinas, Calif. Game. 401,871; June 15; Serial No. 454,707; published Apr. 6, 1943. Class 22.
Wilson Welder and Metals Co. Inc., New York, N. Y. Electric arc welding machines. 401,913; June 15; Serial No. 458,133; published Apr. 6, 1943. Class 21.
Witcherie Laboratory. (See Forgey, Charles L.)
Wood, Gar, Industries, Inc., Detroit, Mich. Winches, cranes, derricks, etc. 401,930; June 15. Class 23.
Wyeth Chemical Company. (See Cream Balm Company, The, assignor.)
Wyman, Partridge & Co., Minneapolis, Minn., to Ely & Walker Dry Goods Company, St. Louis, Mo., successor. Work shirts and negligee shirts. 174,880; renewed Oct. 23, 1943.
Young Radiator Company, Racine, Wis. Cooling towers used for cooling jacket liquid and oil for internal combustion engines. 401,857; June 15; Serial No. 451,280; published Apr. 6, 1943. Class 34.
Zink, Howard, Corporation, The. (See Hodes-Zink Mfg. Co., assignor.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Batting or cotton batts, Cotton. Lockport Cotton Batting Co. 401,855; June 15; Serial No. 451,085; published Apr. 6, 1943.
Leather. Kistler Leather Company. 174,407; renewed Oct. 16, 1943.
Plants, cut stems, cut branches, etc. V. C. Kondo. 401,950; June 15.
Rubber, Synthetic. Synthetic Latex Corporation. 401,916; June 15; Serial No. 458,213; published Apr. 6, 1943.
Rubber, Synthetic. Union-Baystate Co. Inc. 401,919; June 15; Serial No. 458,256; published Apr. 6, 1943.

CLASS 2

Boxes, Weatherproof solid fibre board packing. Frederick G. Becker, Inc. 401,869; June 15; Serial No. 454,473; published Apr. 6, 1943.

CLASS 3

Suitcases, wardrobe cases, overnight cases, etc. Wallace H. Bracken. 401,943; June 15.

CLASS 4

Lye, Flake. Niagara Alkali Company. 173,595; renewed Oct. 2, 1943.
Shaving preparation. F. C. Manheck. 401,905; June 15; Serial No. 458,042; published Apr. 6, 1943.
Soap. Van Camp Packing Company. 175,201; renewed Oct. 30, 1943.
Soap. Lever Brothers Company. 174,859; renewed Oct. 23, 1943.
Washing powder. H. Kohnstamm & Co. 174,868; renewed Oct. 23, 1943.

CLASS 6

Aspirin. W. A. Webster Company. 174,344; renewed Oct. 16, 1943.
Chemical compounds and compositions. United Chromium, Incorporated. 401,904; June 15; Serial No. 458,025; published Apr. 6, 1943.
Chemicals. Miller Manufacturing Company. 401,920; June 15; Serial No. 458,370; published Apr. 6, 1943.
Cleanser and massage pad, Face. A. Lanzet. 167,464; renewed May 1, 1943.
Composition containing chemical ingredients for cut plants. Flower Foods, Inc. 401,927; June 15; Serial No. 458,591; published Apr. 6, 1943.
Cosmetics. N. F. Dahl. 401,870; June 15; Serial No. 454,686; published Apr. 6, 1943.
Dye, Textile. Celludye Corporation. 401,926; June 15; Serial No. 458,585; published Apr. 6, 1943.
Fluxes for cast iron, malleable iron, brass, etc., Welding and brazing. National Cylinder Gas Company. 401,928; June 15; Serial No. 458,635; published Apr. 6, 1943.
Formalin, anodynes, eugenol dichloramine, etc. P. N. Condit. 167,462; renewed May 1, 1943.
Fumigant insecticide. Central Chemical Corporation of Maryland. 401,947; June 15.
Gas used in the industrial arts, Highly refined. Autogenous Gas Co. 401,936; June 15.
Germicide. Boro Chemical Co. Inc. 167,560; renewed May 1, 1943.
Lubricant. O. Hayes. 401,865; June 15; Serial No. 454,369; published Apr. 6, 1943.
Lye, Flake. Niagara Alkali Company. 170,829; renewed July 24, 1943.
Medicinal compound. Cream Balm Company. 172,568; renewed Sept. 11, 1943.
Medicinal preparations for treatment of the blood, etc. S. B. Leonardi & Co. Inc. 167,404; renewed May 1, 1943.
Ointment for external and orificial application, Medicative. O. Hayes. 401,866; June 15; Serial No. 454,370; published Apr. 6, 1943.
Perfume, eau de cologne; toilet powders. Lehn & Fink Products Corporation 401,915; June 15; Serial No. 458,177; published Apr. 6, 1943.
Perfumes and toilet waters. Colgate & Company. 174,079–82; renewed Oct. 23, 1943.
Photographic chemicals. Eastman Kodak Company. 401,845–6; June 15; Serial No. 445,390–1; published Apr. 6, 1943.
Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 401,907; June 15; Serial No. 458,091; published Apr. 6, 1943.
Powder, lipstick, compact rouge and cream rouge, Face. Lehn & Fink Products Corporation. 401,864; June 15; Serial No. 454,233; published Sept. 1, 1942.
Powder, rouge and make-up base, Face. Revlon Products Corporation. 401,923; June 15; Serial No. 458,408; published Apr. 6, 1943.
Preparation for alleviating the discomforts of certain types of rheumatic pains. Z. Rosalak. 401,840; June 15; Serial No. 427,918; published Apr. 6, 1943.
Preparation for the treatment of psoriasis. E. Bischoff Company, Incorporated. 401,925; June 15; Serial No. 458,506; published Apr. 6, 1943.
Preparations or tonics, Massage. Van Ess Laboratories, Inc. 174,214; renewed Oct. 9, 1943.
Rouge, Face. C. L. Forgey. 167,419; renewed May 1, 1943.
Toilet preparations. L. Philippe, Inc. 173,323; renewed Sept. 25, 1943.
Toilet water, cologne and talcum powder. Alfred D. McKelvy Company. 401,878; June 15; Serial No. 456,342; published Jan. 5, 1943.

Vitamin B complex. Liberty Vitamin Corporation. 401,900; June 15; Serial No. 457,763; published Apr. 6, 1943.
Vitaminic composition. Standard Brands Incorporated. 401,918; June 15; Serial No. 458,253; published Apr. 6, 1943.
Vitamins. Vitamin Club. 401,924; June 15; Serial No. 458,419; published Apr. 6, 1943.
Wetting agent, emulsifier, fatty albumin acid, and animal protein extraction product. Chemical Marketing Company, Incorporated. 401,860; June 15; Serial No. 453,615; published Apr. 6, 1943.

CLASS 8

Pipes, Tobacco. Delacour Bros. Ltd. 170,615; renewed July 17, 1943.

CLASS 10

Fertilizer, Commercial. Armour Fertilizer Works. 169,633; renewed June 25, 1943.

CLASS 12

Buildings, for housing cows, horses, sheep, etc., sheathing, metal windows and doors, Farm. James Manufacturing Company. 401,858; June 15; Serial No. 452,448; published Apr. 6, 1943.
Integral, Liquid. Adensite Co. 175,086; renewed Oct. 30, 1943.
Plastic, Thermally insulating. Dicalite Company. 401,952; June 15.
Wallboard. Upson Company. 401,844; June 15; Serial No. 444,423; published Apr. 6, 1943.

CLASS 13

Anchor rods, bolts, nuts, etc. A. B. Chance Company. 401,922; June 15; Serial No. 458,389; published Apr. 6, 1943.
Andirons. Edwin Jackson, Inc. 401,883; June 15; Serial No. 456,826; published Apr. 6, 1943.

CLASS 14

Steel, Tool. Hoyland Steel Company, Incorporated. 401,909; June 15; Serial No. 458,099; published Apr. 6, 1943.

CLASS 15

Gasoline, kerosene, and lubricating oils and greases. Westland Oil Company. 174,764; renewed Oct. 23, 1943.
Oils and greases, and candles, etc. Atlantic Refining Company. 167,693; renewed May 8, 1943.
Oils and greases, Transmission. Union Oil Company of California. 174,656; renewed Oct. 23, 1943.
Oils and greases, Transmission. Union Oil Company of California. 174,879; renewed Oct. 23, 1943.

CLASS 16

Paint, Ready-mixed. A. C. Horn Company. 171,165; renewed July 31, 1943.
White lead, dry and in oil. Chaswick-Boston Lead Company. 174,267; renewed Oct. 9, 1943.

CLASS 17

Cigars. H. N. Heusner & Son, Inc. 401,908; June 15; Serial No. 458,098; published Apr. 6, 1943.

CLASS 19

Top re-covers, side and rear curtains, etc., Automobile all fabric. Hodes-Zink Mfg. Co. 167,609; renewed May 1, 1943.

CLASS 20

Floor coverings, Felt base. Gamble Stores Incorporated. 401,940; June 15.

CLASS 21

Batteries and parts and supplies therefor. Philadelphia Storage Battery Co. 174,566; renewed Oct. 23, 1943.
Batteries, Storage. Philco Corporation. 401,921; June 15; Serial No. 458,372; published Apr. 6, 1943.
Electrical relays and switches. Durakool Inc. 401,939; June 15.
Electric insulator bodies, electric lamp bulbs and sealing glass, Miscellaneous. Corning Glass Works. 401,862; June 15; Serial No. 453,711; published Oct. 13, 1942.
Electric motors, electric generators, and electric fans. Star Electric Motor Co. 174,738–9; renewed Oct. 23, 1943.
Welding machines, Electric arc. Wilson Welder and Metals Co. Inc. 401,913; June 15; Serial No. 458,133; published Apr. 6, 1943.

CLASS 22

Game. Wilson & Ross. 401,871; June 15; Serial No. 454,707; published Apr. 6, 1943.
Games, Jig-saw puzzle. Graphicut Corporation. 401,874; June 15; Serial No. 455,477; published Apr. 6, 1943.

CLASS 23

Auger bit extensions. Irwin Auger Bit Company. 401,843; June 15; Serial No. 434,722; published Apr. 6, 1943.
Blocks and parts thereof, Tackle. Steel Products Corporation. 401,875; June 15; Serial No. 455,807; published Mar. 23, 1943.
Cups, oil cups and lubricators, Grease. Keystone Lubricating Company. 175,062; renewed Oct. 30, 1943.
Cutlery. Edward Weck & Company. 401,893; June 15; Serial No. 457,428; published Mar. 16, 1943.
Cylinder heads. National Aluminum Cylinder Head Company. 401,917; June 15; Serial No. 458,245; published Mar. 23, 1943.
Distributors, mine fire trucks, limestone pulverizers, etc., Mine rock dust. Mine Safety Appliances Company. 401,854; June 15; Serial No. 450,264; published Mar. 30, 1943.
Engine carburetors, Internal combustion. Carter Carburetor Corporation. 401,839; June 15; Serial No. 421,597; published Mar. 30, 1943.
Engine fuel mixing device, Automobile gas. W. Howey. 401,863; June 15; Serial No. 453,801; published Mar. 23, 1943.
Equipment, Packaging and bottling. Pneumatic Scale Corporation. 401,838; June 15; Serial No. 411,613; published Mar. 23, 1943.
Fixtures. Castaloy Corporation. 401,861; June 15; Serial No. 453,633; published Mar. 30, 1943.
Machine tools, milling machines, parts thereof and accessories. Kearney & Trecker Corporation. 401,935; June 15.
Mowers, power sweeping rotary floor brushes, and power snow removal sweeper blades. Rogers Diesel and Aircraft Corporation. 401,911; June 15; Serial No. 458,121; published Apr. 6, 1943.
Pumps. Ruthman Machinery Company. 401,842; June 15; Serial No. 433,362; published Mar. 23, 1943.
Roasters, and parts thereof. J. Burns & Sons. 174,160; renewed Oct. 9, 1943.
Screens for use in de-watering, drying, and sizing coal and gravel, etc. Bixby-Zimmer Engineering Co. 401,884; June 15; Serial No. 456,841; published Apr. 6, 1943.
Tools for use with hydraulic accessories. L & L Mfg. Co. 401,914; June 15; Serial No. 458,155; published Apr. 6, 1943.
Winches, cranes, derricks, etc. G. Wood Industries, Inc. 401,930; June 15.

CLASS 26

Gauges, Metal. Turner Gauge Grinding Company. 401,852; June 15; Serial No. 449,972; published Apr. 6, 1943.
Measuring tools and precision instruments. Stanley Works. 175,063–4; renewed Oct. 30, 1943.

CLASS 27

Watches, parts thereof, watch movement and clocks. E. Von Burg. 401,879; June 15; Serial No. 456,350; published Apr. 6, 1943.
Watches, watchcases, and watch movements. Gruen Watch Company. 401,944; June 15.

CLASS 28

Chains for personal adornment. Forstner Chain Corporation. 170,715; renewed July 24, 1943.
Metal articles. H. Segal. 401,859; June 15; Serial No. 453,390; published Apr. 6, 1943.
Necklaces, bracelets, finger rings, etc. Kantor Novelty, Inc. 401,882; June 15; Serial No. 456,717; published Apr. 6, 1943.
Rings and finger ring guards, Finger. Stronghold Jewelry Co. 401,906; June 15; Serial No. 458,084; published Apr. 6, 1943.

CLASS 29

Brushes. Osborn Manufacturing Company. 167,175; renewed Apr. 24, 1943.

CLASS 30

Earthenware cooking utensils. W. I. Tycer. 174,694; renewed Oct. 23, 1943.

CLASS 31

Refrigeration compressors and refrigeration condensing units. Remington Air Conditioning Company. 401,851; June 15; Serial No. 449,701; published Apr. 6, 1943.

CLASS 33

Dinnerware and dinnerware sets of glassware, etc. Promotions, Inc. 401,946; June 15.
Glass floats for automatic valves. Kimble Glass Company. 401,881; June 15; Serial No. 456,605; published Apr. 6, 1943.
Plate glass, mirror glass and crystal sheet. Syracuse Glass Company. 173,007; renewed Sept. 11, 1943.

CLASS 34

Cooling towers used for cooling jacket liquid and oil for internal combustion engines. Young Radiator Company. 401,857; June 15; Serial No. 451,280; published Apr. 6, 1943.

CLASS 36

Mouth harmonicas. M. Hohner. 174,874; renewed Oct. 23, 1943.
Phonographs and phonograph records. R. Steiner. 401,938; June 15.

CLASS 37

Card indexes, cards and forms for indexes, loose leaf books, etc. Cushman & Denison Manufacturing Company. 401,903; June 15; Serial No. 457,823; published Apr. 6, 1943.
Cards, Identification. Addressograph-Multigraph Corporation. 401,886; June 15; Serial No. 457,059; published Apr. 6, 1943.

Paper, Crêpe. Tissue Company. 171,002; renewed July 31, 1943.
Paper, paper napkins, paper towels, etc., Toilet. Fort Howard Paper Company. 175,159; renewed Oct. 30, 1943.
Paper, tablets, blank books, etc. Western Paper Converting Company. 401,848; June 15; Serial No. 447,280; published Apr. 6, 1943.
Paper, Wall. United Wall Paper Factories, Inc. 401,910; June 15; Serial No. 458,108; published Apr. 6, 1943.
Paper, Waxed. Hammersley Manufacturing Company. 172,417; renewed Aug. 28, 1943.
Paper and mailing envelopes, Writing and printing. American Writing Paper Company. 173,464; renewed Sept. 25, 1943.
Stereotyping and copying tissue. R. W. Brooks. 172,926; renewed Sept. 11, 1943.
Tissue, toilet tissue, paper napkins, etc., Facial. Ashland Paper Mills, Inc. 401,849; June 15; Serial No. 448,404; published Apr. 6, 1943.
Writing-paper, superfine writing paper, ledger-paper, etc. Hammermill Paper Company. 401,872; June 15; Serial No. 454,946; published Apr. 6, 1943.

CLASS 38

Periodicals. Cultivator Publishing Company. 175,138; renewed Oct. 30, 1943.
Pictures. D. Davidson. 174,117; renewed Oct. 2, 1943.

CLASS 39

Boots, shoes, pumps, etc. M. J. Saks Shoe Corp. 401,888; June 15; Serial No. 457,371; published Mar. 30, 1943.
Caps, hats, gloves, etc. Dobbs & Co. 174,832; renewed Oct. 23, 1943.
Hats, berets, and tam-o-shanters, Women's and children's. M. Brodkin. 401,897; June 15; Serial No. 457,673; published Mar. 30, 1943.
Hats, Ladies' trimmed. J. Lucurell. 401,890; June 15; Serial No. 457,394; published Mar. 30, 1943.
Neckties. Stern, Merritt Co. Inc. 173,875–6; renewed Oct. 2, 1943.
Scarfs and sweaters, and knit dresses, Knitted. A. L. Wallau. 173,197–8; renewed Sept. 18, 1943.
Shirts and negligee shirts, Work. Wyman, Partridge & Co. 174,880; renewed Oct. 23, 1943.
Shirts, Work. Jay Garment Company. 172,865; renewed Sept. 11, 1943.
Shoes. General Shoe Corporation. 401,902; June 15; Serial No. 457,809; published Mar. 30, 1943.
Shoes, insoles and outersoles. Allen-Spiegel Shoe Mfg. Co. 170,399; renewed July 17, 1943.
Shoes, Men's and women's jute or hemp soled fabric. S. A. Fabrica Argentina De Alpargatas. 401,868; June 15; Serial No. 454,464; published Mar. 30, 1943.
Suits, Bathing. Artistic Foundations, Inc. 401,934; June 15.
Sweaters. Ely & Walker Dry Goods Company. 173,697; renewed Oct. 2, 1943.
Wearing apparel, Women's. Z. Harpignies. 401,885; June 15; Serial No. 456,953; published Mar. 30, 1943.

CLASS 40

Bindings, Seam. Pollyanna Corporation. 401,942; June 15.
Dress shields. Associated Merchandising Corporation. 173,716; renewed Oct. 2, 1943.
Lacings, galloons and braids. United Lace & Braid Mfg. Co. 175,097; renewed Oct. 30, 1943.
Pads, Shoulder. G. W. Roth. 401,948; June 15.
Ribbon and leather bows for shoes, ribbons bows, etc. Bowcraft Company. 401,951; June 15.
Tape, braids and webbing, wool braid, etc., Cotton and linen. J. S. Mason & Sons, Inc. 401,895; June 15; Serial No. 457,500; published Mar. 30, 1943.

CLASS 42

Cotton fabrics in the piece, Woven. G. A. Stafford. 173,981; renewed Oct. 2, 1943.
Curtains and bedspreads. Herwitt-Quitman Curtain Corporation. 401,941; June 15.
Curtains, Window. Trio Curtain Corporation. 401,873; June 15; Serial No. 454,956; published Mar. 2, 1943.
Dishcloths and untreated utility cloths. Dalco Textile Co. 401,931; June 15.
Piece goods. Lesem Bach & Co. Incorporated. 401,887; June 15; Serial No. 457,339; published Mar. 2, 1943.
Piece goods. Lesem Bach & Co. Incorporated. 401,894; June 15; Serial No. 457,474; published Mar. 16, 1943.
Piece goods. Cohn-Hall-Marx Co. 401,876; June 15; Serial No. 456,097; published Mar. 16, 1943.
Piece goods. Cohn-Hall-Marx Co. 401,889; June 15; Serial No. 457,382; published Feb. 23, 1943.
Piece goods. Schwarzenbach Huber Company. 173,359; renewed Sept. 25, 1943.
Piece goods. Wawak Company Inc. 401,857; June 15; Serial No. 451,128; published May 19, 1942.
Piece goods, Cotton. Minot, Hooper & Co. 169,455; renewed June 19, 1943.
Piece goods for shirts, slacks, trousers, etc. Riverside & Dan River Cotton Mills, Inc. 401,877; June 15; Serial No. 456,197; published Mar. 16, 1943.
Piece goods, Silk. Schwarzenbach Huber Company. 172,973; renewed Sept. 11, 1943.
Rayon piece goods. Wm. F. Fretz & Son. 401,891–2; June 15; Serial Nos. 457,415–16; published Mar. 16, 1943.
Ribbons. Du-Tone Ribbon Corp. 401,949; June 15.
Rugs, Scatter and novelty. Puritan Rug Co. 401,901; June 15; Serial No. 457,778; published Mar. 30, 1943.
Satin in the piece, Cotton-back. Schwarzenbach Huber Company. 173,374; renewed Sept. 25, 1943.
Textile fabrics. Hego Fabrics, Inc. 401,880; June 15; Serial No. 456,533; published Jan. 5, 1943.
Wool tweed piece goods, All. Edwin & Louis Bry, Inc. 401,929; June 15.
Woolen piece goods. Botany Worsted Mills. 401,899; June 15; Serial No. 457,697; published Feb. 23, 1943.

CLASS 43

Threads, Hand-sewing and machine-sewing linen. Barbour Flax Spinning Co. 174,092; renewed Oct. 2, 1943.

CLASS 44

Kits or packages containing prophylactic rubber articles and a tube of lubricant therefor. O. Hayes. 401,867; June 15; Serial No. 454,372; published Apr. 6, 1943.
Water bottles, fountain syringes, screw-capped ice bags, etc. Independent Drug Company. 174,420; renewed Oct. 16, 1943.

CLASS 45

Beverage, and syrup and extract for mixing the same, Carbonated mixer. Foote & Jenks, Inc. 401,954; June 15.
Beverages and concentrates for making the same, Grape. Bireley's, Inc. 401,841; June 15; Serial No. 430,375; published Apr. 6, 1943.

CLASS 46

Apples and pears. Gwin, White & Prince, Inc. 401,937; June 15.
Biscuits. Perfection Biscuit Company. 173,818; renewed Oct. 2, 1943.
Bread. Swiss Meal Co., Los Angeles, Calif. 401,932; June 15.
Candy. E. A. Hoffman. 174,791; renewed Oct. 23, 1943.
Canned crabmeat. Waldport Sea Food Co. 401,945; June 15.
Canned fish. Carmel Canning Company. 171,630; renewed Aug. 7, 1943.
Canned fruit, canned vegetables, and dried fruit. United States Products Corporation. 167,847; renewed May 8, 1943.
Canned fruit, canned vegetables, canned fish, etc. United States Products Corporation. 168,638; renewed May 29, 1943.
Canned fruit, canned vegetables, canned fish, etc. United States Products Corporation. 168,638; renewed May 29, 1943.
Canned fruits, canned berries, and canned vegetables. Ray-Maling Co. Inc. 174,487; renewed Oct. 16, 1943.
Canned plum pudding. A. Silz, Inc. 171,231; renewed July 31, 1943.
Coffee. Rockford Wholesale Grocery Co. 170,647; renewed July 17, 1943.
Coffeelike beverage. Kellogg Company. 174,517; renewed Oct. 16, 1943.
Flour. General Mills, Inc. 401,853; June 15; Serial No. 449,990; published Apr. 6, 1943.
Flour, Self-rising wheat. Majestic Milling Co. 167,339; renewed May 1, 1943.
Flour, Wheat. Larabee Flour Mills Corporation. 170,807; renewed July 24, 1943.
Flour, Wheat. Larabee Flour Mills Corporation. 170,841; renewed July 24, 1943.
Flour, Wheat. Larabee Flour Mills Corporation. 170,931–2; renewed July 24, 1943.
Flour, Wheat. C. B. Stout. 401,898; June 15; Serial No. 457,690; published Apr. 6, 1943.
Fruits or dehydrated fruits and vegetables, Dried. United States Products Corporation. 165,966; renewed Mar. 27, 1943.
Onions. W. R. Wedrick. 173,946; renewed Oct. 2, 1943.
Raisins. Sun-Maid Raisin Growers of California. 401,912; June 15; Serial No. 458,126; published Apr. 6, 1943.
Sausages, hams, bacon. Hammond Standish & Co. 401,933; June 15.
Vegetables and melons, Fresh. H. B. Murphy. 401,953; June 15.
Yeast. Northwestern Yeast Company. 401,896; June 15; Serial No. 457,528; published Apr. 6, 1943.

CLASS 50

Housing-like devices or enclosures for exposing poisonous or entrapping substances to vermin and insects. Odosin Corporation. 401,850; June 15; Serial No. 449,626; published Apr. 6, 1943.
Ladders and step stools. Goshen Churn & Ladder Company. 175,005; renewed Oct. 30, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Green, Walter H., Batavia, Ill., assignor to Infilco Incorporated. Liquid flow control. Re. 22,335; June 15.

Infilco Incorporated. (See Green, Walter H., assignor.)

LIST OF PLANT PATENTEES

Conrad-Pyle Company, The. (See Meilland, Francis, assignor.)

Dickson, Alexander, Jr., Newtonards, Belfast, Ireland, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 590; June 15.

Jackson & Perkins Company. (See Dickson, Alexander, Jr., assignor.)

Leckie, John S., Osoyoos, British Columbia, Canada. Peach. 592; June 15.

Meilland, Francis; Tassin-Les-Lyon, France, assignor to The Conrad-Pyle Company, West Grove, Pa. Rose plant. 591; June 15.

LIST OF DESIGN PATENTEES

American Hard Rubber Company. (See Carson, Oswald B., assignor.)

Appel, Robert, New York, N. Y. Handbag. 135,816; June 15.

Baldwin, Curtis C., Ottawa, Kans. Tractor carried material handler or the like. 135,828; June 15.

Baron, Arthur A., et al. (See Vendope, Van L., assignor.)

Bernstein, Maurice J., Brighton, assignor to Panther-Panco Rubber Co., Inc., Chelsea, Mass. Shoe. 135,811; June 15.

Bersin, Albert, Brooklyn, and Louis Samuels, New York, N. Y. Curtain display rack. 135,812; June 15.

Burdick, Richard, et al. (See Vendope, Van L., assignor.)

Carson, Oswald B., Scarsdale, assignor to American Hard Rubber Company, New York, N. Y. Dressing comb. 135,817; June 15.

Cobbs-Hopkins Company. (See Hopkins, Horner H., assignor.)

Crocker, Ernest O., Washington, D. C. Ring. 135,829; June 15.

Dinkelspiel, Samuel L., Chicago, Ill. Lamp. 135,830; June 15.

Doner, Halbert C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Wall cabinet. 135,813; June 15.

Gallagher, William M., Oklahoma City, Okla. Holder for inkwells and pens. 135,831; June 15.

Galvin Manufacturing Corporation. (See Holthouse, Harry B., assignor.)

Gholson, Samuel, Cincinnati, Ohio. Lapel button or the like. 135,818; June 15.

Golden, David T., New York, N. Y. Appliqué emblem or similar article. 135,838; June 15.

Greenspan, Abraham, New York, N. Y. Dress. 135,826; June 15.

Hagstrom, Jerome E., assignor to C. E. Hovey, Kansas City, Mo., as trustee. Work-holding rack. 135,832; June 15.

Heyman, Arthur, Oakland, assignor to Joe Koret, San Francisco, Calif. Skirt. 135,819; June 15.

Hinde & Dauch Paper Company, The. (See Larkin, Daniel A., assignor.)

Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Portable heating unit. 135,833; June 15.

Hopkins, Horner H., assignor to Cobbs-Hopkins Company, Des Moines, Iowa. Spice cabinet or similar article. 135,839; June 15.

Hovey, Earl C., trustee. (See Hagstrom, Jerome E., assignor.)

Hydraulic Development Corporation Inc., The. (See Mills, Howard V., assignor.)

Jolles, Ida, New York, N. Y. Handbag. 135,840; June 15.

Koret, Joe. (See Heyman, Arthur, assignor.)

Larkin, Daniel A., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Combined shipping and display container. 135,834; June 15.

Libbey-Owens-Ford Glass Company. (See Doner, Halbert C., assignor.)

Lundquist, Hazel M., San Francisco, Calif. Spring hair curl clip. 135,820; June 15.

Mills, Howard V., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation Inc., Wilmington, Del. Hydraulic press. 135,821; June 15.

Moncé, Amy, New York, N. Y. Hat. 135,822; June 15.

Naranick, Nicholas T., United States Army, Casper, Wyo. Holder for ration container. 135,835; June 15.

Oestreicher, Sally, Akron, Ohio. Combined ash tray and match box holder. 135,836; June 15.

Ours, Fred, Denver, Colo. Paper clip. 135,814; June 15.

Panther-Panco Rubber Co. (See Bernstein, Maurice J., assignor.)

Samuels, Louis. (See Bersin, A., and Samuels.)

Schmid, Albert P., assignor to Bernard Wilmsen, Philadelphia, Pa. Artificial Christmas tree. 135,823; June 15.

Segman, William, Flushing, N. Y. Finger ring. 135,824; June 15.

Seham, Bernice, New York, N. Y. Playsuit or similar article. 135,815; June 15.

Smith, Lewis E., Dallas, Tex. Valve. 135,825; June 15.

Stahl, Harold H., New York, N. Y. Dress. 135,827; June 15.

Vendope, Van L., New York, N. Y., assignor of thirty-three and one-third per cent to A. A. Baron and thirty-three and one-third per cent to Richard Burdick, both of Dallas, Tex. Portable light fixture. 135,837; June 15.

Wilmsen, Bernard. (See Schmid, Albert P., assignor.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF JUNE, 1943

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Abrasive Products, Inc. (See Hackett, Robert W., assignor.)

Ace Patents Corporation. (See Hooker, D. E., and Livingston, assignors.)

Adkins, Glen O., Hamlin, W. Va. Outlet box cover and fixture support. 2,321,640; June 15.

Aktiebolaget Imo-Industri. (See Montelius, Carl O. J., assignor.)

Aldeen, Gedor W., and E. Borchers, assignors to American Cabinet Hardware Corporation, Rockford, Ill. Catch operator. 2,321,724; June 15.

Alderfer, Sterling W., Akron, Ohio. Cutter for citrus fruits. 2,321,725; June 15.

Alderfer, Sterling W., assignor of one-half to Edward D. Andrews, Akron, Ohio. Manufacturing thread. 2,321,726; June 15.

Alien Property Custodian. (See Meisenburg, K., Dennstedt, and Zucker.)

Alien Property Custodian. (See van Zwet, Willem L. C.)

Allam, Philip S., Little Chesterford, near Saffron Walden, assignor to Simmonds Development Corporation Limited, Aldwych, London, England. Oil filter. 2,321,884; June 15.

Allen, Frank B., Lower Merion Township, Montgomery County, assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Material handling system. 2,321,885; June 15.

Allen-Sherman-Hoff Company, The. (See Allen, Frank B., assignor.)

Allied Chemical & Dye Corporation. (See Ogilvie, James, assignor.)

Allis-Chalmers Manufacturing Company. (See Bimpson, H. S., and Bilbe, assignors.)

Altman, Bernard, and P. Stiller, New York, N. Y. Steam electric sadiron. 2,322,103; June 15.

Aluminum Company of America. (See Shawcross, Roy, assignor.)

American Cabinet Hardware Corporation. (See Aldeen, G. W., and Borchers, assignors.)

American Can Company. (See Hothersall, John M., assignor.)

American Cyanamid Company. (See Jayne, D. W., Day, and Erickson, assignors.)

American Cyanamid Company. (See Jayne, D. W., and Day, assignors.)

American Cyanamid Company. (See Northey, E. H., and Dhein, assignors.)

American Hard Rubber Company. (See King, Harold D., assignor.)

American Hard Rubber Company. (See Schelhammer, H. J., and Hilemann, assignors.)

American Viscose Corporation. (See Heymann, Karl, assignor.)

American Viscose Corporation. (See Lodge, Alvin, assignor.)

American Viscose Corporation. (See Newhard, Wayne L., assignor.)

American Window Glass Company. (See Bishop, F. L., and Forman, assignors.)

Amphlett, Philip H. (See Twiss, D. F., and Amphlett.)

Anchor Hocking Glass Corporation. (See Stover, Harry E., assignor.)

Andersen, Ludvig, Wauwatosa, Wis. Washing machine. 2,321,641; June 15.

Anderson, Alva E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,321,886; June 15.

Anderson, Carl G. (See Marco, F. J., Anderson, and Brandstrom.)

Anderson, William M., Minneapolis, Minn., assignor to F. J. Kerner and himself. Automatic feed mechanism for punch presses. 2,321,788; June 15.

Andersson, Axel Olof, assignor to Cajs-Marie Nygren, Stockholm, Sweden. Combined hammock and sleeping bag. 2,321,966; June 15.

Andrews, Edward D. (See Alderfer, Sterling W., assignor.)

Andrews, Edward F. (See O'Brien, William J., assignor.)

Anthony, Howard E., Los Angeles, Calif. Vending machine. 2,321,642; June 15.

Arcier, Alex F., Dayton, and C. J. Brukner, Troy, Ohio, assignors to Waco Aircraft Company. Aircraft tank construction. 2,322,104; June 15.

Armour and Company. (See Potts, Ralph H., assignor.)

Arnold, Walter P., Orrville, Ohio, assignor, by mesne assignments, to Koppers Company. Bituminous coating for timber. 2,322,105; June 15.

Arrow-Hart & Hegeman Electric Company, The. (See Schleicher, Harold E., assignor.)

Arthur, James L., and W. D. Schrope, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Distributor rotor lock. 2,321,643; June 15.

Arundale, Erving, Colonia, N. J., assignor to Standard Oil Development Company. Dewaxing solvent. 2,321,967; June 15.

Ash, Laurence T., Fort Lauderdale, Fla. Printing device. 2,321,968; June 15.

Association of American Soap & Glycerine Producers, Inc. (See Du Puis, R. N., and Lenth, assignor.)

Atherholt, George L., Sr., Ferndale, E. P. Saunders, Berkley, and L. P. Graham, Lake Orion, ssignors to Triangle Engineering Company, Ferndale, Mich. Cam developing mechanism. 2,321,789; June 15.

Atwood, Edwin H., Woodbury, N. J., assignor to Socony-Vacuum Oil Company Incorporated, New York, N. Y. Eductor tank mixer. 2,322,087; June 15.

Auer, László, Bloomfield, assignor to Ridbo Laboratories, Inc., Paterson, N. J. Manufacture of coating compositions. 2,322,106; June 15.

Aughey, Clarence L. (See Johnson, R. W., and Aughey.)

Autogiro Company of America. (See Campbell, Harris S., assignor.)

Automatic Appliance Corporation. (See Whittaker, John R., assignor.)

Automatic Products Company. (See Johnson, R. W., and Aughey, assignors.)

Ayres, Arthur U., Chestnut Hill, assignor to The Sharples Corporation, Philadelphia, Pa. Centrifugally separating solids from liquids. 2,321,887; June 15.

Babcock, Lloyd L. (See Bishop, J. O., and Babcock.)

Babcock & Wilcox Company, The. (See Rowand, W. H., and Huge, assignors.)

Bailey, George C., Elizabeth, and O. Johnson, Metuchen, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Rubber coated ferrous metal article and process. 2,321,889; June 15.

Balaban & Katz Corporation. (See Eddy, William C., assignor.)

Balcar, John A., Cedar Rapids, assignor of one-half to Willard H. Seiffert, Iowa City, Iowa. Clamping means. 2,322,107; June 15.

Baldwin Locomotive Works, The. (See Sharp, R. E. B., and Francis, jr., assignors.)

Baldwin Packers, Limited. (See Fleming, Bruce L., assignor.)

Bany, Herman, Lansdowne, Pa., assignor to General Electric Company. Generator control system. 2,321,969; June 15.

Baraeskai, Joseph A., Elyria, Ohio. Gauge. 2,321,888; June 15.

Bardsley, Joseph R., Yonkers, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Insulating finish for apparatus cases. 2,321,727; June 15.

Barnes, Carl E., Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Interpolymerized substance containing unsaturated methylene groups. 2,321,728; June 15.

Barstow, Ormond, assignor to The Dow Chemical Company, Midland, Mich. Method of and apparatus for treating wells. 2,321,970; June 15.

Bartlett, C. O., and Snow Company, The. (See Hofmann, Maximillian P., assignor.)

Bass, Edward L., Chicago, Ill. Spring structure. 2,321,790; June 15.

Bass, Walter L. (See Kraft, W. W., and Bass.)

Battey, Alexander J. (See Rabezzana, H., and Battey.)

Beardsley, Melville W., Atlanta, Ga. Piston ring gas seal. 2,321,791; June 15.

Beasley, Harold H., Ashton Gate, Bristol, England. Sealing of cartons. 2,321,729; June 15.

Becker, Howard I., Schenectady, N. Y., assignor to General Electric Company. Telemetering system. 2,321,971; June 15.

Beech-Nut Packing Company. (See McBean, Douglas M., assignor.)

Behr-Manning Corporation. (See Oglesby, Nicholas E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Anderson, Alva E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bardsley, Joseph R., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bouton, G. M., Phipps, and Schumacher, assignors.)

Bell Telephone Laboratories, Incorporated. (See Brown, John T. L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Compton, Kenneth G., assignor.)

Bell Telephone Laboratories, Incorporated. (See Gent, Edgar W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hedberg, Carl A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Logan, Mason A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Stoller, Hugh M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Vroom, Edward, assignor.)

Bell Telephone Laboratories, Incorporated. (See Zinn, Marvel K., assignor.)

Bendix Aviation Corporation. (See Bimberg, Elmer M., assignor.)

Bendix Aviation Corporation. (See Frank, Frederick C., assignor.)

Bendix Aviation Corporation. (See Heftler, Maurice B., assignor.)

Benedix Aviation Corporation. (See Nardone, Romeo M., assignor.)

Bendix Aviation Corporation. (See Mock, Frank C., assignor.)

Bendix Home Appliances, Inc. (See Porter, Howard C., assignor.)

Benedict, Wayne L., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion process. 2,321,972; June 15.

Bennett, Harold F., assignor to Eastman Kodak Company, Rochester, N. Y. Telephoto objective. 2,321,973; June 15.

Benson, John S., Culver City, Calif. Weather strip. 2,321,730; June 15.

Berchet, Gerard J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric sulphonamide. 2,321,890; June 15.

Berchet, Gerard J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric sulphonamide. 2,321,891; June 15.

Bergstrom, Carl N., Portland, Oreg. Hood for battery caps. 2,321,892; June 15.

Bernhard Ulmann Co. Inc. (See Samuels, Sydney J., assignor.)

Best, Cyril, Deptford, London, assignor to Molins Machine Company, Limited, London, England. Weighing apparatus. 2,322,108; June 15.

Beyer, Frederick L. (See Talbot, R. C., and Beyer.)

Bicknell, John A., Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass. Making paper. 2,322,185; June 15.

Bilbe, Charles W. (See Bimpson, H. S., and Bilbe.)

Billing, Noel P., Kingston-on-Thames, England. Packaging of razor blades. 2,321,570; June 15.

Billing, Noel P., Kingston-on-Thames, England. Safety razor. 2,321,571; June 15.

Billstrom, Edwin J., and A. W. Redin, assignors to Nels J. Billstrom, Inc., Rockford, Ill. Glue clamp carrier. 2,321,644; June 15.

Billstrom, Nels J., Inc. (See Billstrom, E. J., and Redin, assignors.)

Bimberg, Elmer M., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,322,109; June 15.

Bimpson, Henry S., West Allis, and C. W. Bilbe, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Vapor scrubbing system. 2,321,893; June 15.

Bird, Whitworth F., Wallingford, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Producing shade and color contrasts in textile fabrics. 2,321,974; June 15.

Bischoff, Louis F., Brooklyn, N. Y. Lens and prism system. 2,321,894; June 15.

Bishop & Babcock Manufacturing Company, The. (See Mayo, Edward L., assignor.)

Bishop, Frederic L., Fox Chapel Manor, and L. P. Forman, Oakmont, assignors to American Window Glass Company, Pittsburgh, Pa. Manufacture of sheet glass. 2,321,975; June 15.

Bishop, James O., Torrance, and L. L. Babcock, Compton, Calif., assignors to The National Supply Company, Pittsburgh, Pa. Apparatus for flame hardening of articles. 2,321,645; June 15.

Black, Howard C., assignor to Industrial Patents Corporation, Chicago, Ill. Oleaginous preparation. 2,322,186; June 15.

Black, Howard C., assignor to Industrial Patents Corporation, Chicago, Ill. Deep fat frying. 2,322,187; June 15.

Black, James J., assignor, by mesne assignments, to The Fifth Third Union Trust Company, Cincinnati, Ohio. Door for freight carrying vehicles. 2,322,088; June 15.

Black, Wilbert, New Orleans, La. Storage tank. 2,321,976; June 15.

Blakeslee, G. S., & Co. (See Karp, Edward J., assignor.)

Blodgett, Albert G., assignor to Morgan Construction Company, Worcester, Mass. Apparatus for coiling wire. 2,321,646; June 15.

Boatright, Clyde G., San Pedro, Calif. Orthopter. 2,321,977; June 15.

Boatwright, Stevens W., Tampa, Fla. Razor. 2,321,895; June 15.

Bock, Frederick L., St. Louis, Mo. Evaporator. 2,322,110; June 15.

Bonniwell, Clarence E., Flint, Mich. Boot hanger. 2,322,188; June 15.

Borchers, Earl. (See Aldeen, G. W., and Borchers.)

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Terpene derivative. 2,321,978; June 15.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Terpene derivative. 2,321,979; June 15.

Bornscheuer, Alice C. (See Bornscheuer, Ernest, assignor.)

Bornscheuer, Ernest, Brooklyn, assignor of one-half to Alice C. Bornscheuer, New York, N. Y. Hull construction. 2,321,980; June 15.

Bossart, Paul N. (See Canetta, J., and Bossart.)

Bourret, Raymond R. (See Cone, H. M., Jr., Bourret and Michelfelder.)

Bouton, George M., Madison, G. S. Phipps, Chatham, and E. E. Schumacher, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Making repairs and joints in cable sheaths. 2,321,731; June 15.

Bowden (Engineers) Limited. (See Tondeur, Rene, assignor.)

Bowers, Marie A., Glendale, Calif. Scrub-bucket assembly. 2,321,981; June 15.

Bowie, Adrian St. J., assignor to Food Machinery Corporation, San Jose, Calif. Apparatus for atomizing liquid. 2,321,792; June 15.

Boyd, Randolph, Galva, Ill. Mail car. 2,322,111; June 15.

Brackett, Tracy F., assignor to General Motors Corporation, Detroit, Mich. Paint spray machine. 2,321,982; June 15.

Brackett, Tracy F., assignor to General Motors Corporation, Detroit, Mich. Roof spraying machine. 2,321,983; June 15.

Brackett, Tracy F., assignor to General Motors Corporation, Detroit, Mich. Duplicating mechanism. 2,321,984; June 15.

Brandstrom, Folke A. (See Marco, F. J., Anderson, and Brandstrom.)

Brandt, Thomas F., Barberton, assignor to The Ohio Brass Company, Mansfield, Ohio. Bushing insulator. 2,321,793; June 15.

Brant, Gilbert W., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for evaporative castings. 2,321,732; June 15.

Braun, August J., assignor to The Mostow Co., Chicago, Ill. Photographic film container. 2,321,794; June 15.

Brennan, Joseph B. (See Moynihan, John J., assignor.)

Breon, George A., & Company, Inc. (See Hoehn, W. M., and Schneider, assignors.)

Brickman, Alan E., Rostraver Township, Westmoreland County, Pa. Road guard bracket and clip. 2,321,988; June 15.

Briggs Clarifier Company. (See Briggs, Southwick W., assignor.)

Briggs, Southwick W., assignor to Briggs Clarifier Company, Washington, D. C. Method and apparatus for separating solids from fluids. 2,321,985; June 15.

Britton, Edgar C., and W. J. Le Fevre, assignors to The Dow Chemical Company, Midland, Mich. Copolymers of p-chlorostyrene. 2,321,896; June 15.

Britton, Edgar C., and G. H. Coleman, assignors to The Dow Chemical Company, Midland, Mich. Synthetic resin plastic compositions. 2,321,897; June 15.

Brooks, John W., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Electric light fixture. 2,322,112; June 15.

Brougham, Frank O., and E. E. Poulin, assignors to United States Envelope Company, Springfield, Mass. Apparatus for making containers. 2,321,647; June 15.

Brown, John T. L., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Noise reduction in telephone transmission systems. 2,321,986; June 15.

Brown, Wilbur F., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Mirror. 2,321,987; June 15.

Brukner, Clayton J. (See Arcier, A. F., and Brukner.)

Brunner, David J., Jr., Shaker Heights, Ohio. Suction cleaner. 2,321,648; June 15.

Bryant, Eugene F. (See McIntyre, G. H., and Bryant.)

Buckingham, William D., Southhampton, assignor to The Western Union Telegraph Company, New York, N. Y. Cable balancing method and apparatus. 2,321,649; June 15.

Buckman, Herbert S., Seattle, Wash. Nut cracking machine. 2,321,795; June 15.

Bucyrus-Erie Company. (See Paulsen, Thomas R., assignor.)

Budd, Edward G., Manufacturing Co. (See Winlock, J., and MacKinney, assignors.)

Burdick, Frank, assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 2,321,650; June 15.

Burke, William J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Triazone ring compound. 2,321,989; June 15.

Burkey, Lawrence G., Cresson, assignor to S. Liebovitz & Sons, Inc., Myerstown, Pa. Button sewing machine. 2,321,990; June 15.

Burnette Castings Company. (See Howlett, Lewis G., assignor.)

Burroughs Adding Machine Company. (See Kressler, D. Ellis, assignor.)

Burroughs Adding Machine Company. (See Pasinski, Walter J., assignor.)
Butler, Clyde G., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Attaching hose couplings. 2,321,991; June 15.
Butler, Edgar M., New Orleans, La. Water correction device. 2,321,796; June 15.
Butler, Edgar M., New Orleans, La. Electrolytic water correction device. 2,321,797; June 15.
Butler, William O. (See McCoy, C. J., and Butler.)
Byrkit, Gordon D. (See Davis, L. L., Lincoln, and Byrkit.)
Cabral, Jose B., New Bedford, Mass. Combined curtain and shade bracket. 2,321,733; June 15.
Cajs-Marie Nygren. (See Andersson, Axel O., assignor.)
Campbell, Harris S., Bryn Athyn, assignor to Autogiro Company of America, Willow Grove, Pa. Rotative winged aircraft. 2,321,577; June 15.
Canetta, John, Wilkinsburg, and P. N. Bossart, Cheswick, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Apparatus for detecting rate of change of speed. 2,321,992; June 15.
Capstaff, John G., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Method and optical system for color processes. 2,321,993; June 15.
Caraway, John B., Jr., Newark, N. J., assignor to Evansville on the Air, Inc., Evansville, Ind. Radio signaling system. 2,321,651; June 15.
Carbide and Carbon Chemicals Corporation. (See Felbeck, George T., assignor.)
Carbide and Carbon Chemicals Corporation. (See Harshberger, Norman P., assignor.)
Carliss, Oswald S., Fairfield, assignor to The Kron Company, Bridgeport, Conn. Portable force measuring apparatus. 2,321,652; June 15.
Carlson, Albin A., Muskegon, Mich. Air cleaner. 2,321,653; June 15.
Carney, Clifford R., Dearborn, assignor to General Motors Corporation, Detroit, Mich. Ice tray. 2,321,654; June 15.
Carr, Trem, Los Angeles, Calif. Dispensing package. 2,321,655; June 15.
Castedello, William. (See Schwartz, M., and Castedello.)
Celanese Corporation of America. (See Elvin, W. J., and Hivick, assignors.)
Chace, Thomas B., Winnetka, assignor to The Dole Valve Company, Chicago, Ill. Washing machine. 2,321,573; June 15.
Chamberlin Metal Weather Strip Company. (See Julien, Louis F., assignor.)
Chandler, Homer P., deceased, by L. C. Chandler, administratrix, assignor to The Ohio Brass Company, Mansfield, Ohio. Motor starter. 2,321,798; June 15.
Chandler, Lillian C., administratrix. (See Chandler, Homer P.)
Chaplin, Charles J., South Portland, assignor to Chaplin Corporation, Portland, Maine. Method of pulp molding. 2,321,574; June 15.
Chaplin Corporation. (See Chaplin, Charles J., assignor.)
Chapman, Frank D., Berlin, Wis. Receptacle filler. 2,321,994; June 15.
Chase-Shawmut Company, The. (See Taylor, Elmer H., assignor.)
Chester, Allan E., assignor to Poor & Company, Chicago, Ill. Enamel coating for ferrous metals. 2,321,656; June 15.
Chester, Allan E., assignor to Poor & Company, Chicago, Ill. Enamel coating for ferrous metals. 2,321,657; June 15.
Chester, Allan E., assignor to Poor & Company, Chicago, Ill. Process for use in coating metal surfaces. 2,321,658; June 15.
Chillson, Charles W. (See Clare, C. P., and Chillson.)
Christianson, Oscar. (See Conradson, Conrad M., assignor.)
Cincinnati Ball Crank Company, The. (See Butler, Clyde G., assignor.)
Clare, Carl P., Arlington Heights, Ill., and C. W. Chillson, Lake Packanack, N. J., assignor to Curtiss-Wright Corporation. Protective circuit. 2,322,114; June 15.
Claremont Waste Manufacturing Company. (See Hauge, Andrew, assignor.)
Clausing, Walter, Portsmouth, Ohio, assignor to Vulcan Corporation. Shoe and heel construction. 2,321,734; June 15.
Clayton, James O. (See Farrington, B. B., Clayton, and Rutherford.)
Clayton, James O., and B. B. Farrington, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded hydrocarbon oil. 2,321,575; June 15.
Clayton, James O., and B. B. Farrington, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded lubricant. 2,321,576; June 15.
Clayton, James O., and B. B. Farrington, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded hydrocarbon lubricant. 2,321,577; June 15.
Clayton, James O., and B. B. Farrington, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded lubricating oil. 2,321,578; June 15.
Clifford Manufacturing Company. (See Clifford, Walter B., assignor.)
Clifford, Walter B., assignor to Clifford Manufacturing Company, Boston, Mass. Method and machine for severing tubes. 2,321,735; June 15.
Clopay Corporation. (See Johnson, Samuel J., assignor.)
Cockburn, William R., Onetangi, Waiheke Island, Auckland, New Zealand. Device for the control of inflatable membranes in milking machines. 2,321,995; June 15.
Cohen, Samuel A., and T. L. Melgaard, Berkeley, assignors to The Paraffine Companies, Inc., San Francisco, Calif. Linoleum. 2,321,996; June 15.
Colby, Joseph M., United States Army, Lake Mills, Iowa. Combination heater and generating unit for armored vehicles. 2,321,579; June 15.
Cole, Harry A., Baltimore, Md., assignor to Industrial Patents Corporation, Chicago, Ill. Automatic knocker for fertilizer mixers. 2,322,189; June 15.
Coleman, Gerald H. (See Britton, E. C., and Coleman.)
Collins & Aikman Corporation. (See Bird, Whitworth F., assignor.)
Comar Electric Co. (See Marco, F. J., Anderson, and Brandstrom, assignors.)
Compton, Kenneth G., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrolytic condenser. 2,321,997; June 15.
Cone, Howard M., Jr., Douglaston, N. Y., R. R. Bourret, Coral Gables, and L. E. Michelfelder, Miami, Fla. Apparatus for instruction in radio direction finding. 2,321,799; June 15.
Connelly, Will H., Park Ridge, Ill. Card game. 2,322,113; June 15.
Connerty, Harold V., and W. H. Johnson, Washington, D. C. Variable frequency stimulator. 2,321,659; June 15.
Conover, Richard E., Dayton, Ohio. Indicator. 2,321,581; June 15.
Conradson, Conrad M., Detroit, Mich., deceased, Frederick R. Walter, administrator, assignor, by mesne assignments, to O. Christianson, Madison, Wis. Power belt construction. 2,321,580; June 15.
Consolidated Car Heating Company. (See Parsons, Robert J., assignor.)
Continental Aviation and Engineering Corporation. (See Vincent, Edward T., assignor.)
Continental Oil Company. (See Davis, L. L., Lincoln, and Byrkit, assignors.)
Conver Steel & Wire Company, Incorporated. (See La Grotta, Frank, assignor.)
Cordrey, Hancil, and W. J. Duvall, Chula Vista, assignors to J. Slutsky, Los Angeles, Calif. Operating means for swinging closures. 2,321,800; June 15.
Cornell, Gertrude R., Toronto, Ontario, Canada. Costume for use in modeling dresses and the like. 2,321,584; June 15.
Courtney, Joseph F., Chicago, assignor of one-half to T. L. Hedgpeth, River Forest, Ill. Milk container. 2,321,660; June 15.
Cox, Charles A., Homestead, and J. S. Holland, Coral Gables, Fla. Rock plow. 2,322,115; June 15.
Cox & Stevens Aircraft Corporation. (See Thurston, A. L., and Sweeney, assignors.)
Crane, Carl J., and R. K. Stout, Dayton, Ohio. Marker beacon and landing gear controlled throttle engine. 2,321,582; June 15.
Craig, Edward C., United States Navy, and G. W. Leyde, Arlington, Va. Buoyant insulating and protective overalls. 2,321,583; June 15.
Craig, Francis A., assignor to Economic Machinery Company, Worcester, Mass. Adjustable labeling machine. 2,321,661; June 15.
Crista, Joe A., Needles, Calif. Tank car. 2,321,898; June 15.
Crouch, Wentworth W., and A. W. M. Dickins, assignors to Eastman Kodak Company, Rochester, N. Y. Two-compartment container. 2,321,998; June 15.
Crown Fastener Corporation. (See Taylor, William H., assignor.)
Cummings, Earl M., Rockford, Ill. Bathroom scale. 2,321,585; June 15.
Curtis, James H. (See Mekler, V., and Curtis.)
Curtiss-Wright Corporation. (See Clare, C. P., and Chillson, assignors.)
Curtiss-Wright Corporation. (See Kearney, N. L., and Richardson, assignors.)
Cutler-Hammer, Inc. (See Lightfoot, E. N., and Seeger, assignors.)
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of a polymethylol melamine and a halogenated acetamide. 2,321,586; June 15.
Dalton, William, Schenectady, N. Y., assignor to General Electric Company. Terminal box. 2,321,999; June 15.
Davie, Preston, New York, and A. L. Halvorsen, Purdy, N. Y., said Halvorsen assignor to said Davie. Electrical conductive coating. 2,321,587; June 15.
Davis, Lloyd L., B. H. Lincoln, and G. D. Byrkit, assignors to Continental Oil Company, Ponca City, Okla. Lubricating oil. 2,322,116; June 15.
Day, Harold M. (See Jayne, D. W., and Day.)

Day, Harold M. (See Jayne, D. W., Day, and Erickson.)
Dazzo, Henry, Brooklyn, N. Y. Awning arm slant adjustment means. 2,321,801; June 15.
Decker, Alfred, & Cohn, Inc. (See Osth, Adam, assignor.)
Dennstedt, Ingofroh. (See Meisenburg, K., Dennstedt, and Zaucker.)
Dent, Roy J. (See Levine, A. A., and Dent.)
Detroit Harvester Company. (See Kost, Harold W., assignor.)
Deubener, Walter H., St. Paul, Minn. Home paper presser. 2,321,802; June 15.
Dhein, Leonard H. (See Northey, E. H., and Dhein.)
Dickins, Arthur W. M. (See Crouch, W. W., and Dickins.)
Dimitry, Theodore J., New Orleans, La. Artificial eye. 2,322,117; June 15.
Dodd, Arthur E., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus. 2,321,662; June 15.
Dole Valve Company, The. (See Chace, Thomas B., assignor.)
Donovan, Patrick L., Kewanee, Ill. Harrow. 2,321,663; June 15.
Dooley, William D., Springfield, Ohio. Method and apparatus for detecting the presence of blood in eggs. 2,321,899; June 15.
Dooley, William D., Springfield, Ohio. Method and apparatus for grading eggs. 2,321,900; June 15.
Douglas, John G., Aberfeldy, Scotland. Steering gear. 2,322,000; June 15.
Dow Chemical Company, The. (See Barstow, Ormond, assignor.)
Dow Chemical Company, The. (See Britton, E. C., and Le Fevre, assignors.)
Drybak Corporation. (See Govan, William, assignor.)
Dunlop Rubber Company Limited. (See Twiss, D. F., and Amphlett, assignors.)
Du Pont, E. I., de Nemours & Company. (See Bailey, G. C., and Johnson, assignors.)
Du Pont, E. I., de Nemours & Company. (See Barnes, Carl E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Berchet, Gerard J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Brant, Gilbert W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Burke, William J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gresham, William F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hopkins, J. H., and Marks, assignors.)
Du Pont, E. I., de Nemours & Company. (See Levine, A. A., and Dent, assignors.)
Du Pont, E. I., de Nemours & Company. (See Loder, D. J., Gresham, and Killian, assignors.)
Du Pont, E. I., de Nemours & Company. (See Macht, M. L., and Fletcher, assignors.)
Du Pont, E. I., de Nemours & Company. (See McDermott, Frank A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Mitchell, James A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Pratt, Burt C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Rothrock, Henry S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Taylor, Guy B., assignor.)
Du Pont, E. I., de Nemours & Company. (See Walker, Joseph F., assignor.)
Du Puis, Robert N., Chicago, and C. William Lenth, Wilmette, Ill., assignors to Association of American Soap & Glycerine Producers, Inc., New York, N. Y. Stimulating plants. 2,321,736; June 15.
Duvall, Walter J. (See Cordrey, Hancil, and Duvall.)
Eastman Kodak Company. (See Bennett, Harold F., assignor.)
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Crouch, W. W., and Dickins, assignors.)
Eastman Kodak Company. (See Ehrenfried, George, assignor.)
Eastman Kodak Company. (See Fierke, S. S., Vittum, and Wilder, assignors.)
Eastman Kodak Company. (See Hamer, F. M., and Rathbone, assignors.)
Eastman Kodak Company. (See Hopkins, Roy S., assignor.)
Eastman Kodak Company. (See Hutchinson, Miller R., Jr., assignor.)
Eastman Kodak Company. (See Jelley, E. E., and Vittum, assignors.)
Eastman Kodak Company. (See Lee, Charles M., assignor.)
Eastman Kodak Company. (See Lindquist, Carl G., assignor.)
Eastman Kodak Company. (See McFarlane, J. W., and Moses, assignors.)
Eastman Kodak Company. (See Nadeau, G. F., and Starck, assignors.)
Eastman Kodak Company. (See Soreny, Ernest V., assignor.)
Eastman Kodak Company. (See Wynd, C. L. A., and Lane, assignors.)
Eastman Kodak Company. (See Young, R. V., and Seymour, assignors.)
Eastman Kodak Company. (See Yutzy, Henry C., assignor.)
Eaton, George R., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. 2,321,588; June 15.
Economic Machinery Company. (See Craig, Francis A., assignor.)
Eddy, William C., Kenilworth, assignor to Balaban & Katz Corporation, Chicago, Ill. Collapsible dolly. 2,321,901; June 15.
Edison, Thomas A., Incorporated. (See Fritzinger, George H., assignor.)
Ehrenfried, George, assignor to Eastman Kodak Company, Rochester, N. Y. Producing dye images. 2,322,001; June 15.
Electrolux Corporation. (See Lofgren, Gustaf E., assignor.)
Eliel, Leon T., Pasadena, assignor to Fairchild, Polley & Eliel, Inc., Los Angeles, Calif. Determining scale of aerial photographs for map making. 2,321,902; June 15.
Elliott Company. (See McDermet, John R., assignor.)
Elliott, Harmon P., Watertown, Mass. Addressing machine. 2,322,119; June 15.
Ellis, Charles, Victoria, British Columbia, Canada. Heating system. 2,322,118; June 15.
Elvin, William J., Frostburg, and C. L. Hivick, Cresaptown, Md., assignors to Celanese Corporation of America. Spindle support. 2,321,664; June 15.
Engel, Ralph C., Ida, Mich. Converter cartridge. 2,321,737; June 15.
Erickson, Hans P., Saltcoats, Saskatchewan, Canada. Sludge pump. 2,322,120; June 15.
Erickson, Stephen E. (See Jayne, D. W., Day, and Erickson.)
Erland af Kleen, Nils, Stockholm, Sweden. Manufacture of cabinets for refrigerators. 2,321,589; June 15.
Eubanks, Edward F., et al. (See Eubanks, F. G., assignor.)
Eubanks, Floyd G., assignor of thirty-one and one-half per cent to F. E. Vaughan, Pasadena, five per cent to R. M. McManigal, South Pasadena, six per cent to E. F. Eubanks, six per cent to P. R. Eubanks, six per cent to P. R. Eubanks, eight per cent to E. U. Vaughan, and eight per cent to P. A. Vaughan, Pasadena, Calif. Drafting pen. 2,322,002; June 15.
Eubanks, Patricia R., et al. (See Eubanks, F. G., assignor.)
Eubanks, Philip R., et al. (See Eubanks, F. G., assignor.)
Evansville on the Air, Inc. (See Caraway, John B., Jr., assignor.)
Ewald, Raymond L., Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Fruit bobbing apparatus. 2,321,590; June 15.
Fairbanks, Morse & Co. (See Gebert, Sever C., assignor.)
Fairchild Aviation Corporation. (See Kuebert, Edward J., assignor.)
Fairchild, Polley & Eliel, Inc. (See Eliel, Leon T., assignor.)
Falge, Robert N., George W. Onksen, Jr., and Howard I. Slone, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Direction signal circuit. 2,321,803; June 15.
Fantur, Charles L., Hanover, N. H., and E. E. Lehmann, East Cleveland, Ohio, assignors to General Electric Company. Electric incandescent lamp. 2,321,665; June 15.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid type inertia device. 2,322,003; June 15.
Farny, Cyril, St. Charles, Ill., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Apparatus for producing multiply tubing. 2,321,738; June 15.
Farrington, Bruce B., J. O. Clayton, and J. T. Rutherford, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded mineral oil. 2,321,804; June 15.
Farrington, Bruce B. (See Clayton, J. O., and Farrington.)
Fast Bearing Company, The. (See Fast, Gustave, assignor.)
Fast, Gustave, Lindamoor-on-Severn, assignor, by mesne assignments, to The Fast Bearing Company, Baltimore, Md. Bearing. 2,322,004; June 15.
Felbeck, George T., Altadena, Calif., assignor to Carbide and Carbon Chemicals Corporation. Gas separation. 2,321,666; June 15.
Fernly, Joseph E., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa. Registering mechanism. 2,321,739; June 15.
Ferro Enamel Corporation. (See McIntyre, G. H., and Bryant, assignors.)
Fessler Machine Company, The. (See Tyrrell, Emmet R., assignor.)
Fierke, Scheuring S., P. W. Vittum and Lot S. Wilder, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic bleach-out layer. 2,322,005; June 15.
Fierke, Scheuring S., P. W. Vittum, and Lot S. Wilder, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic filter and antihalation layer. 2,322,006; June 15.

Fifth Third Union Trust Company, The. (See Black, James J., assignor.)
Fischer, Herbert G. M., Westfield, N. J., assignor to Standard Oil Development Company. Motor fuel. 2,322,007; June 15.
Fleming, Bruce L., Lahaina, Territory of Hawaii, assignor to Baldwin Packers, Limited. Fruit inspecting and trimming table. 2,322,190; June 15.
Fletcher, David A. (See Macht, M. L., and Fletcher.)
Flint, Arthur W., Toronto, Ontario, Canada. Article and a method of mounting characters of wood, or the like, on a background of wood, or similar materials. 2,321,740; June 15.
Flowers, Paul E., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Guiding means for press platens. 2,321,741; June 15.
Food Machinery Corporation. (See Bowie, A. St. J., assignor.)
Fodor, Joseph, London, England. Display system. 2,322,008; June 15.
Forman, Laurence P. (See Bishop, F. L., and Forman.)
Foster, Arthur S., Stourport on Severn, assignor to Underpressure Engineering Company, Limited, Mansfield, England. Service stopper for gas mains, branch pipe connections, and the like. 2,321,667; June 15.
Fowler, Owen H., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure producing device. 2,320,009; June 15.
Fowler, Owen H., assignor to Hydraulic Brake Company, Detroit, Mich. Piston. 2,322,010; June 15.
Francis, Harry, Jr. (See Sharp, R. E. B., and Francis.)
Fox, Raymond S., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Screw thread lead testing machine. 2,321,903; June 15.
Frank, Frederick C., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,322,121; June 15.
Frazier, Troy R., Covington, Ky. Aerial toy. 2,321,904; June 15.
French, Henry C., Elm Grove, assignor to The Heil Co., Milwaukee, Wis. Winch assembly. 2,321,905; June 15.
French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Slip ring assembly. 2,322,011; June 15.
Fritzinger, George H., Bloomfield, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Electric current distributor. 2,321,805; June 15.
Frolich, Per K., Westfield, N. J., assignor to Standard Oil Development Company. Wax modifying agent and method for making the same. 2,322,012; June 15.
Frolich, Per K., Westfield, and B. M. Vanderbilt, Cranford, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Preparing butadiene. 2,322,122; June 15.
Fuchs, Walter M. (See Jahoda, Edward, assignor.)
G & O Manufacturing Company, The. (See Mormile, Anthony R., assignor.)
Gair, Blair W., Brooklyn, N. Y., assignor of thirty-three and one-third per cent to A. Jensenia Gair, and thirty-three and one-third per cent to Estella H. Gair, Kings, N. Y. Coffee dispensing apparatus. 2,321,906; June 15.
Gair, A. Jensenia. (See Gair, Blair W., assignor.)
Gair, Estella H. (See Gair, Blair W., assignor.)
Garcia, Henry V., assignor to Southern Pecan Shelling Company, San Antonio, Tex. Grading and separating machine. 2,321,742; June 15.
Gardner, Clair C., Rockford, Ill. Automatic release mechanism for window sashes or the like. 2,321,591; June 15.
Garratt, Charles S., Jr., Suffolk, Va. Flush valve mechanism. 2,322,123; June 15.
Gebert, Sever C., Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill. Stoker of underfeed type. 2,322,124; June 15.
General Aniline & Film Corporation. (See Huss, Richard, assignor.)
General Aniline & Film Corporation. (See Schmidt, Otto, assignor.)
General Aniline & Film Corporation. (See Zerweck, W., and Hechtenberg, assignors.)
General Aniline & Film Corporation. (See Zerweck, W., and Trösken, assignors.)
General Electric Company. (See Bany, Herman, assignor.)
General Electric Company. (See Becker, Howard I., assignor.)
General Electric Company. (See D'Alelio, Gaetano F., assignor.)
General Electric Company. (See Dalton, William, assignor.)
General Electric Company. (See Fantur, C. L., and Lehmann, assignors.)
General Electric Company. (See French, Henry G., assignor.)
General Electric Company. (See Hemphill, Lawrence F., assignor.)
General Electric Company. (See Hinman, Donald D., assignor.)
General Electric Company. (See Potter, Wentworth M., assignor.)
General Electric Company. (See Powers, James H., assignor.)
General Electric Company. (See Roper, Val J., assignor.)
General Electric Company. See Schmidt, Alfred M., assignor.)
General Electric Company. (See Starie, George B., assignor.)
General Electric Company. (See Stimson, Allen G., assignor.)
General Electric Company. (See Wickler, H., and Heymann, assignors.)
General Motors Corporation. (See Arthur, J. L., and Schrope, assignors.)
General Motors Corporation. (See Brackett, Tracy F., assignor.)
General Motors Corporation. (See Carney, Clifford R., assignor.)
General Motors Corporation. (See Falge, R. N., Onksen, Jr., and Slone, assignors.)
General Motors Corporation. (See Geyer, Harvey D., assignor.)
General Motors Corporation. (See Hull, Harry B., assignor.)
General Motors Corporation. (See Kucher, Andrew A., assignor.)
General Motors Corporation. (See McDougal, Taine G., assignor.)
General Motors Corporation. (See Ogden, J., and Wilkins, assignors.)
General Motors Corporation. (See Pearce, George C., assignor.)
General Motors Corporation. (See Rabezzana, H., and Battey, assignors.)
General Motors Corporation. (See Randolph, Donald W., assignor.)
General Motors Corporation. (See Schweller, Edmund F., assignor.)
Gent, Edgar W., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Blower device. 2,321,907; June 15.
Gentry, Cleo J., assignor of one-half to F. E. Stone, Porterville, Calif. Airplane propeller. 2,321,668; June 15.
Gerlinger, Carl F., Dallas, Oreg. Apparatus for preheating and handling asphalt, heavy oil, and like viscous material. 2,321,908; June 15.
Geyer, Harvey D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Freezing tray. 2,321,669; June 15.
Gibson, Eleanor W., Detroit, Mich. High chair bib. 2,321,670; June 15.
Gibson Electric Refrigerator Corporation. (See Rosebrook, H. E., and Norberg, assignors.)
Gilbert, Carl B., South River, N. J., assignor to Hercules Powder Company, Wilmington, Del. Cellulose ether composition. 2,322,013; June 15.
Gilbert, Francis W. (See Fuller, Frederic B.)
Gilbertson, Elmer G., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Process of heat treating. 2,321,806; June 15.
Heftler, Maurice B., Grosse Pointe Park, Mich., assignor by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Filter. 2,322,131; June 15.
Gleason Works. (See Moyer, Richard E., assignor.)
Glickman, Norman N., Los Angeles, Calif. Kit. 2,321,807; June 15.
Golf Ball, Inc. (See Kalowski, Phillip, assignor.)
Govan, William, Chenango Bridge, assignor to The Drybak Corporation, Binghamton, N. Y. Belt for personal wear. 2,321,808; June 15.
Grace, Edward, Detroit, Mich. Clutch. 2,321,809; June 15.
Graham, Lewis P. (See Atherholt, G. L., Sr., Saunders, and Graham.)
Grant, Edmund G., South Pasadena, Calif. Ship propulsion. 2,322,014; June 15.
Green, Samuel G., Gray, Ga., and E. W. Hopkins, Enfield, Conn. Back plate and driving spring for machine guns. 2,321,592; June 15.
Green, Vernon L. (See Nystrom, K. F., and Green.)
Greenview Manufacturing Company. (See Siemund, Herman, assignor.)
Greitzer, Meyer, Los Angeles, Calif. Game table top. 2,322,089; June 15.
Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of unsymmetrical acetals. 2,321,593; June 15.
Gresham, William F. (See Loder, D. J., Gresham, and Killian.)
Griffith Laboratories, Inc., The. (See Hall, Lloyd A., assignor.)
Grimditch, William H., Rydal, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Loop antenna system. 2,322,126; June 15.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Vertical circular shaping machine. 2,322,127; June 15.
Gromiller, Inc. (See Miller, Grover C., assignor.)
Grosse, Aristid V. (See Ipatieff, V. N., and Grosse.)
Gschwind, Jean F., Scarsdale, assignor to J. O. Ross Engineering Corporation, New York, N. Y. Liquid flow regulator. 2,322,102; June 15.
Guibert, Francis W., Beverly Hills, and F. B. Fuller, Whittier, Calif., said Fuller assignor to said Guibert. Valve. 2,321,743; June 15.

Gurley, John W., Indianapolis, Ind. Rotary pump. 2,321,810; June 15.
Haas, Otto R., North Beverly, assignor to United Shoe Machinery Corporation, Flemington, N. J. Presser foot mechanism for shoe sewing machines. 2,321,596; June 15.
Hackett, Robert W., East Braintree, assignor to Abrasive Products, Inc., South Braintree, Mass. Sheet abrasive. 2,321,744; May 15.
Hall, Joseph M., and H. E. Tucker, Chicago, Ill. Change speed mechanism. 2,321,672; June 15.
Hall, Lloyd A., assignor to The Griffith Laboratories, Inc., Chicago, Ill. Yeast food. 2,321,673; June 15.
Halvorsen, Arthur L. (See Davie, P., and Halvorsen.)
Hamer, Frances M., and R. J. Rathbone, Wealdstone, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y. Dye and photographic emulsion containing the same. 2,322,015; June 15.
Hamilton, Lyle A. (See Moran, R. C., Reid, and Hamilton.)
Hammer, Bernard W. (See Lane, C. B., and Hammer.)
Hardeman, Hardin L., Waco, Tex. Fireplace furnace. 2,322,016; June 15.
Harnischfeger Corporation. (See Hettelsater, Henry C., assignor.)
Harris, Benjamin R., Chicago, Ill. Amino carboxylic acid esters of higher molecular weight carboxylic monoesters of glycols. 2,321,594; June 15.
Harris, Benjamin R., Chicago, Ill. Amino carboxylic acid esters. 2,321,595; June 15.
Harris, Frederic R., New York, N. Y. Concrete oil barge. 2,321,811; June 15.
Harshaw Chemical Company, The. (See Harshaw, William J., assignor.)
Harshaw, William J., Shaker Heights, assignor to The Harshaw Chemical Company, Elyria, Ohio. Gas treating apparatus. 2,321,745; June 15.
Harshberger, Norman P., Scarsdale, assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y. Roofing and siding granules and the like. 2,321,674; June 15.
Hartman, Byron K., Chicago, Ill., assignor to Link-Belt Company. Method and apparatus for treating industrial wastes and sewage. 2,322,017; June 15.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Production of solvents and wood preservatives. 2,321,909; June 15.
Hauge, Andrew, Claremont, N. H., assignor to Claremont Waste Manufacturing Company. Screen unit. 2,321,675; June 15.
Hausser, Anthony A. (See Hausser, Carl A.)
Hausser, Carl A. and A. A., Philadelphia, Pa. Erythrocytometer. 2,322,128; June 15.
Hawkins, Paul S., Los Angeles, Calif. Router. 2,322,129; June 15.
Hawley, Jesse B. (See Kyle, Colin, assignor.)
Hays, Robert F., Jr., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Time delay glow switch. 2,321,910; June 15.
Heaton, Harold F., Los Angeles, Calif. Adjustable clamp. 2,321,911; June 15.
Hechtenberg, Wilhelm. (See Zerweck, W., and Hechtenberg.)
Hedberg, Carl A., Roselle Park, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,321,912; June 15.
Hedding, Linnie K., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical regulating apparatus. 2,322,130; June 15.
Hedgpeth, Theron L. (See Courtney, Joseph F., assignor.)
Heeman & Froude Limited. (See Walker, George H., assignor.)
Heil Co., The. (See French, Henry C., assignor.)
Heller, Herman S., West Los Angeles, D. E. Ross, Eagle Rock, and F. J. Lilly, Los Angeles, Calif., said Ross and said Lilly assignors to said Heller. Tape driving system for magnetic sound recording machines and the like. 2,321,812; June 15.
Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Treating hydrocarbons. 2,322,019; June 15.
Hemphill, Lawrence F., Fort Wayne, Ind., assignor to General Electric Company. Commutator. 2,322,020; June 15.
Hengstler, John, Altoona, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Bell. 2,322,021; June 15.
Hennessy, Douglas J., Teaneck, N. J., assignor to Vitamoil Laboratory, Inc. Hydrogenation treatment of oils and fats. 2,321,913; June 15.
Hennessy, John F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Broiler grill. 2,321,676; June 15.
Henzel, John H., Garfield Heights, Ohio. Refractory panel construction. 2,321,813; June 15.
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hercules Powder Company. (See Gilbert, Carl B., assignor.)
Hercules Powder Company. (See Humphrey, Irvin W., assignor.)
Hercules Powder Company. (See Oswald, Frank G., assignor.)
Hess, Christian F., Wilmette, Ill. Rake. 2,322,132; June 15.
Hettelsater, Henry C., assignor to Harnischfeger Corporation, Milwaukee, Wis. Hydraulic power actuator. 2,322,133; June 15.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control device. 2,322,022; June 15.
Hewlett, Amiot P., Summit, and G. E. Phillips, Cranford, N. J., assignors to Standard Oil Development Company. Refining process. 2,321,914; June 15.
Heymann, Hugo. (See Wickler, H., and Heymann.)
Heymann, Karl, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Production of mono-filaments. 2,321,746; June 15.
Hick, Reuben J., Bridgeview, Alberta, Canada. Barrel rack. 2,321,814; June 15.
Hickey, James, Portland, Oreg. Overcasting device for sewing machines. 2,321,747; June 15.
Hiemann, Walter. (See Schelhamer, H. J., and Hiemann.)
Higgins, Andrew J., New Orleans, La. Amphibian bridge. 2,321,677; June 15.
Higley, Henry R., Pittsfield, Mass. Glaremeter. 2,321,915; June 15.
Hinman, Donald D., Cleveland Heights, Ohio, assignor to General Electric Company. Fluid cooled electric discharge device. 2,321,678; June 15.
Hivick, Charles L. (See Elvin, W. J., and Hivick.)
Hobbie, Albert C., assignor to International Pulverizing Corporation, Moorestown, N. J. Bag filling apparatus. 2,322,090; June 15.
Hobbs, James C., Painesville, Ohio. Valve construction. 2,321,597; June 15.
Hodge, Willard W., Pittsburgh, Pa., assignor to Mellon Institute of Industrial Research, as trusteee. Process for recovery of by-products from waste pickle liquors. 2,322,134; June 15.
Hoehn, Willard M., and A. W. Schneider, assignors to George A. Breon & Company, Inc., Kansas City, Mo. Preparation of desoxycholic acid. 2,321,598; June 15.
Hofmann, Maximillian P., Bay Village, assignor to The C. O. Bartlett and Snow Company, Cleveland, Ohio. Apparatus for mixing. 2,321,599; June 15.
Holland, James S. (See Cox, C. A., and Holland.)
Hooker, Donald E., and C. Livingston, assignors to Ace Patents Corporation, Chicago, Ill. Ball bumper. 2,322,091; June 15.
Hopkins, Edward W. (See Green, S. G., and Hopkins.)
Hopkins, John H., Arlington, and B. M. Marks, Upper Montclair, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Separation of mixtures of methanol and butyraldehyde. 2,321,748; June 15.
Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Device for exhibiting transparencies. 2,322,023; June 15.
Horn, Clarence A., assignor to Raytheon Production Corporation, Newton, Mass. Making molded stems. 2,321,600; June 15.
Hornaday, George F. (See Kalichevsky, V. A., and Hornaday.)
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 2,321,601; June 15.
Houston, George F., Alexandria, Va. Indicator valve. 2,321,679; June 15.
Houston, John W., Tama, Iowa. Post hole digger. 2,321,680; June 15.
Howell, John W., St. Louis, Mo. Vehicle license plate. 2,322,135; June 15.
Howlett, Lewis G., assignor to Burnette Castings Company, Hartford, Mich. Culinary utensil. 2,321,749; June 15.
Huber, Theodore A., Houston, Tex., assignor to Standard Oil Development Company. Sampling and metering device. 2,322,018; June 15.
Huge, Ernest C. (See Rowand, W. H., and Huge.)
Hull, Harry B., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,321,815; June 15.
Hultin, Oscar H., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Package. 2,321,681; June 15.
Humphrey, Irvin W., assignor to Hercules Powder Company, Wilmington, Del. Resinous compositions and their production. 2,321,750; June 15.
Hurley, Joseph M., St. Paul, Minn. Letter file. 2,321,682; June 15.
Huss, Richard, Frankfort-on-the-Main, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Process of producing fast dyeings on fibrous materials. 2,321,816; June 15.
Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Burnishing screw stick heads. 2,322,024; June 15.
Hutton, William E., Dickson, Tenn. Spring frame assembly. 2,321,817; June 15.
Hydraulic Brake Company. (See Fowler, Owen H., assignor.)
Hydraulic Brake Company. (See Swift, Harvey C., assignor.)
Hydraulic Development Corporation, Inc., The. (See Flowers, Paul E., assignor.)
Hydraulic Development Corporation, Inc., The. (See Tucker, Warren R., assignor.)

I.-T.-E. Circuit Breaker Company. (See Jensen, Otto, assignor.)
Imperial Chemical Industries Limited. (See Kirkbride, Frederick W., assignor.)
Industrial Patents Corporation. (See Black, Howard C., assignor.)
Industrial Patents Corporation. (See Cole, Harry A., assignor.)
Industrial Patents Corporation. (See Parsons, Clinton H., assignor.)
Industrial Patents Corporation. (See Ramsbottom, John M., assignor.)
Industrial Patents Corporation. (See Smith, S. E., and Straeten, assignors.)
Industrial Scientific Corporation. (See Tandler, W. S., and Mazur, assignor.)
Ingerman, Fred O., San Francisco, Calif. Scaffold ledger bracket. 2,321,916; June 15.
International Business Machines Corporation. (See Leathers, Ward, assignor.)
International Pulverizing Corporation. (See Hobbie, Albert C., assignor.)
Iowa State College Research Foundation. (See Lane, C. B., and Hammer, assignors.)
Ipatieff, Vladimir N., and A. V. Grosse, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,322,025; June 15.
Iron Fireman Manufacturing Company. (See Lunda, E. C., and Wald, assignors.)
Jacobson, Frank H., Minneapolis, Minn. Device for indicating enuresis to prevent bed wetting. 2,321,683; June 15.
Jaeckel, Frederick T., Wauwatosa, Wis. Gas mixer. 2,322,026; June 15.
Jahoda, Edward, assignor to W. M. Fuchs, Detroit, Mich. Reproduction process and apparatus. 2,322,136; June 15.
Jasco, Incorporated. (See Frolich, P. K., and Vanderbilt, assignors.)
Jasco, Incorporated. (See Thomas, R. M., and Lightbown.)
Jasco, Incorporated. (See Thomas, R. M., and Sparks, assignors.)
Jauch, Martin, Newark, N. J. Violin string adjuster. 2,322,137; June 15.
Jayne, David W., Jr., Old Greenwich, H. M. Day, Cos Cob, and S. E. Erickson, Glenbrook, Conn., assignors to American Cyanamid Company, New York, N. Y. Mineral concentration. 2,322,201; June 15.
Jayne, David W., Jr., Old Greenwich, and H. M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Talloel esters of amino alcohols. 2,322,202; June 15.
Jelley, Edwin E., and P. W. Vittum, assignors to Eastman Kodak Company, Rochester, N. Y. Color photography. 2,322,027; June 15.
Jenkins, Benjamin F. (See Jenkins, H. F., and Jenkins.)
Jenkins, Howard F. and B. F., Jeannette, Pa. Method of annealing. 2,321,917; June 15.
Jenny, Robert W., New Milford, N. J., assignor to Wright Aeronautical Corporation. Piston pin retainer. 2,322,138; June 15.
Jensen, Marthinus, Greenwich, Conn. Automobile jack. 2,321,602; June 15.
Jensen, Otto, Glenside, assignor to I.-T.-E. Circuit Breaker Company, Philadelphia, Pa. Circuit breaker. 2,321,603; June 15.
Johns-Manville Corporation. (See Quinn, Robert G., assignor.)
Johnson, Alfred, Skate Company, The. (See Schmidt, Gustav E., assignor.)
Johnson, Ernest W., Birmingham, assignor of one-half to Vandervell Products Limited, London, England. Shock absorber. 2,321,818; June 15.
Johnson, Irvin F., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Template. 2,322,028; June 15.
Johnson, Oscar. (See Bailey, G. C., and Johnson.)
Johnson, Pete, Rutland, N. Dak. Adjustable louver assembly. 2,321,684; June 15.
Johnson, Roy W., and C. L. Aughey, assignors to Automatic Products Company, Milwaukee, Wis., Mechanical refrigerating system. 2,321,819; June 15.
Johnson, Samuel J., West Chester, assignor to Clopay Corporation, Cincinnati, Ohio. Window shade attaching means. 2,322,092; June 15.
Johnson, Walter H. (See Connerty, H. V., and Johnson.)
Jones, Basil E., Flossmoor, assignor to The Pullman Company, Chicago, Ill. Faceplate arrangement. 2,322,192; June 15.
Jones, Leo D., assignor to The Sharples Corporation, Philadelphia, Pa. Centrifugal separating method and apparatus. 2,321,918; June 15.
Jones & Vining, Inc. (See Palardy, Andrew J., assignor.)
Julien, Louis F., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Weather stripping. 2,322,029; June 15.
Kalowski, Phillip, assignor to Golf Ball, Inc., Chicago, Ill. Making golf balls. 2,322,140; June 15.
Kachel, Charles, Williamsville, N. Y. Fishing reel. 2,321,820; June 15.
Kaelin, Edward S., assignor to Frederick C. Kingston, Los Angeles, Calif. Safety valve. 2,322,139; June 15.
Kaemmerling, Gustav H., assignor to Lord Manufacturing Company, Erie, Pa. Cushion. 2,322,193; June 15.
Kalart Company, The. (See Schwartz, M., and Castedello, assignor.)
Kalichevsky, Vladimir A., and G. F. Hornaday, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Hydrocarbon conversion. 2,321,604; June 15.
Karp, Edward J., assignor to G. S. Blakeslee & Co., Cicero, Ill. Power take-off. 2,321,751; June 15.
Katcher, Morris, New York, N. Y. Driven member for friction clutches. 2,321,821; June 15.
Kearney, Norman L., and H. L. Richardson, Buffalo, N. Y., assignors to Curtiss-Wright Corporation. Reverse countersink. 2,322,141; June 15.
Keinath, George, Larchmont, N. Y. Measuring system. 2,321,605; June 15.
Kellogg, M. W., Company. (See McNutt, Louis C., assignor.)
Kellogg Switchboard and Supply Company. (See Eaton, George R., assignor.)
Kemmerer, Ralph R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 2,322,142; June 15.
Kendis, Michael B., Kansas City, Mo. Lens drilling mechanism. 2,321,822; June 15.
Kennedy, Victor J., Kahoka, Mo. Chimney ventilator or cowl. 2,321,919; June 15.
Kerner, F. J. (See Anderson, William M., assignor.)
Kerr, Joseph J., Dillon, S. C. Bicycle handle-bar seat. 2,321,752; June 15.
Keuffel, Adolf W., Montclair, and D. E. Whitlock, Orange, assignors to Keuffel & Esser Company, Hoboken, N. J. Measuring tape. 2,321,920; June 15.
Keuffel & Esser Company. (See Keuffel, A. W., and Whitlock, assignors.)
Kilborn-Sauer Company, The. (See Sauer, Henry J., assignor.)
Kilian, Rudolph R., Baldwinsville, assignor to Rollway Bearing Company, Inc., Syracuse, N. Y. Cage construction for roller bearings. 2,322,143; June 15.
Killian, Donald B. (See Loder, D. J., Gresham, and Killian.)
Kimble Glass Company. (See Zarbo, George, assignor.)
King, George D., assignor to United States Gypsum Company, Chicago, Ill. Making cement products. 2,322,194; June 15.
King, Harold D., Medina, Ohio, assignor to American Hard Rubber Company, New York, N. Y. Cover for cooler cabinets. 2,321,753; June 15.
Kingston, Frederick C. (See Kaelin, Edward S., assignor.)
Kirkbride, Frederick W., Runcorn, England, assignor to Imperial Chemical Industries Limited. Oxidation of perchloroethylene. 2,321,823; June 15.
Kirschbaum, Harry M., Detroit, Mich. Sound recording means for motion picture cameras. 2,322,144; June 15.
Klasing, Augustus F., Joliet, Ill. Yieldable bracket means for the lower units of railway car brakes. 2,321,685; June 15.
Knapp-Monarch Company. (See Ward, Lawrence T., assignor.)
Knight, Clark, Houston, Tex. Can holder. 2,321,824; June 15.
Koehler, Arthur W., Pasadena, Calif. Flexible chain closure for shoes. 2,321,754; June 15.
Koepfle, Joseph F., Detroit, Mich., assignor of one-half to Leo G. Koepfle, Silver Spring, Md. Engine starter. 2,321,686; June 15.
Koepfle, Leo G. (See Koepfle, Joseph F., assignor.)
Kopec, Stanley J., Erie, Pa. Gear grinding wheel dresser and gear form checker. 2,321,825; June 15.
Koppers Company. (See Arnold, Walter P., assignor.)
Kost, Harold W., Birmingham, assignor to Detroit Harvester Company, Detroit, Mich. Device for connecting sheet metal panels. 2,321,755; June 15.
Kraft, Wheaton W., Scarsdale, N. Y., and W. L. Bass, East Orange, N. J., assignors to The Lummus Company, New York, N. Y. Fractionating hydrocarbon oils. 2,321,826; June 15.
Kressler, D. Ellis, assignor to Burroughs Adding Machine Company, Detroit, Mich. Manifolding means. 2,322,030; June 15.
Kritzer, Richard W., Chicago, Ill. Heat exchange coil. 2,322,145; June 15.
Krohn, Harvey R. (See Trapani, V., and Krohn.)
Kron Company, The. (See Carliss, Oswald S., assignor.)
Kucher, Andrew A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,321,687; June 15.
Kucher, Andrew A., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,321,688; June 15.
Kuebert, Edward J., Belmore, assignor to Fairchild Aviation Corporation, Jamaica, N. Y. Adjustable Cam. 2,322,031; June 15.

Kuhn, Herman C., Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y. Method and apparatus for removing coke from coking chambers. 2,322,146; June 15.
Kunze, Albert J., Cleveland, Ohio. Photographic apparatus. 2,322,032; June 15.
Kyle, Colin, assignor to Jesse B. Hawley, Geneva, Ill. Apparatus for drying accreted fibrous articles. 2,321,756; June 15.
Kyle, William D., Lake Forest, Ill., assignor to Line Material Company, Milwaukee, Wis. Housing for fuse devices. 2,321,827; June 15.
La Grotta, Frank, New York, N. Y., assignor to Conver Steel & Wire Co., Incorporated. Wall clip. 2,321,671; June 15.
Landauer, Fred, New York, N. Y. Rest structure, particularly for use in bath tubs. 2,322,147; June 15.
Lane, Clarence B., and B. W. Hammer, assignors to Iowa State College Research Foundation, Ames, Iowa. Method of making cheddar cheese. 2,322,148; June 15.
Lane, Fred A., assignor to Lane Motors Incorporated, Shelburn, Ind. Compressor. 2,321,828; June 15.
Lane, Gerould T. (See Wynd, C. L. A., and Lane.)
Lane Motors Incorporated. (See Lane, Fred A., assignor.)
Lathrop, Robert H., Niantic, Conn. Medicine cabinet attachment. 2,321,921; June 15.
Leake, James M., Toledo, Ohio, assignor to Toledo Stamping and Manufacturing Company. Driving hub for pulleys or gears. 2,321,829; June 15.
Lear Avia, Inc. (See Lear, William P., assignor.)
Lear, William P., Dayton, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio. Aircraft navigation instrument. 2,321,606; June 15.
Leathers, Ward, Brooklyn, assignor to International Business Machines Corporation, New York, N. Y. Automatic meter reading apparatus. 2,321,922; June 15.
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Le Brun, Rosario W., Waterloo, N. Y. Dial indicator attachment. 2,322,033; June 15.
Lee, Charles M., assignor to Eastman Kodak Company, Rochester, N. Y. Enlarger lens and diaphragm assembly. 2,322,034; June 15.
Leeson, William M., Glens Falls, assignor to The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y. Papermaking apparatus. 2,321,830; June 15.
Le Fevre, Walter J. (See Britton, E. C., and Le Fevre.)
Lehde, Henry, assignor to S. Shefsky and L. Levy, Brooklyn, and P. L. Rudick, New York, N. Y. Garment trimming machine. 2,321,831; June 15.
Lehmann, Erwin E. (See Fantur, C. L., and Lehmann.)
Leighton, John W., Port Huron, Mich. Individual wheel suspension. 2,321,832; June 15.
Lenth, Charles W. (See Du Puis, R. N., and Lenth.)
Levine, Arthur A., and R. J. Dent, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for extraction. 2,321,923; June 15.
Levy, Louis, et al. (See Lehde, Henry, assignor.)
Lewis, Robert P., Toledo, Ohio, assignor to Spicer Manufacturing Corporation. Tubular axle drive. 2,322,149; June 15.
Lewis, Thomas B., Wichita Falls, Tex. Derrick. 2,322,150; June 15.
Leyde, Glen W. (See Craig, E. C., and Leyde.)
Libbey-Owens-Ford Glass Company. (See Brown, Wilbur F., assignor.)
Libbey-Owens-Ford Glass Company. (See Johnson, Irwin F., assignor.)
Lichter, Malvin, New Rochelle, N. Y. Calendar. 2,321,607; June 15.
Lichty, Joy G., Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Cyanoethyl alpha chloracrylate. 2,322,035; June 15.
Lieber, Eugene, West New Brighton, Staten Island, N. Y., and H. T. Rice, Roselle, N. J., assignors to Standard Oil Development Company. Condensation product. 2,322,036; June 15.
Liebovitz, S., & Sons, Inc. (See Burkey, Lawrence G., assignor.)
Lightbown, Irving E. (See Thomas, R. M., and Lightbown.)
Lightfoot, Edwin N., and E. W. Seeger, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Mounting for electrical and other devices. 2,321,689; June 15.
Lilly, Forrest J. (See Heller, H. S., Ross, and Lilly.)
Lincoln, Bert H. (See Davis, L. L., Lincoln, and Byrkit.)
Lindquist, Carl G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film. 2,322,037; June 15.
Line Material Company. (See Kyle, William D., assignor.)
Link-Belt Company. (See Hartman, Byron K., assignor.)
Livingston, Callard. (See Hooker, D. E., and Livingston.)
Loder, Donald J., W. F. Gresham, and D. B. Killian, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenation of alkoxy-substituted esters and products. 2,321,608; June 15.
Lodge, Alvin, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Method and apparatus for crimping textile fibrous material. 2,321,757; June 15.
Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, Dover, Del. Cord-winding device. 2,322,038; June 15.
Logan, Mason A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,321,758; June 15.
Logemann, Willy, Berlin-Charlottenburg, Germany, assignor to Schering Corporation, Bloomfield, N. J. Manufacture of compounds of the cyclo-pentano-polyhydrophenanthrene series. 2,321,690; June 15.
Lord Manufacturing Company. (See Kaemmerling, Gustav H., assignor.)
Lowe, William N. (See Palmer, Clinton D., and Lowe.)
Luce, Stewart B. (See Webber, C. S., Luce, and Murdock.)
Lull, Le Grand H., Minneapolis, Minn. Motor vehicle underbody truck grader. 2,321,833; June 15.
Lummus Company, The. (See Kraft, W. W., and Bass, assignors.)
Lummus Company, The. (See Mekler, V., and Curtis, assignors.)
Lunda, Edward C., and R. E. Wald, assignors to Iron Fireman Manufacturing Company, Portland, Oreg. Inertia stabilized volumeter. 2,322,039; June 15.
Macht, Maurice L., Jersey City, and D. A. Fletcher, Bloomfield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Molding compounds. 2,321,759; June 15.
MacKenzie, Wilbur L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe bottom coating machine. 2,321,691; June 15.
MacKinney, John J. (See Winlock, J., and MacKinney.)
Mancini, Carlo V., Stratford, Conn. Weather strip. 2,321,924; June 15.
Mancini, Carlo V., Stratford, Conn. Weather strip. 2,321,925; June 15.
Marco Company. (See Marco, John, assignor.)
Marco, Frederick J., C. G. Anderson, and F. A. Brandstrom, assignors to Comar Electric Co., Chicago, Ill. Relay. 2,321,834; June 15.
Marco, John, assignor to Marco Company, Philadelphia, Pa. Rotary pump. 2,321,609; June 15.
Marinsky, Davis, and L. H. Morin, Bronx, N. Y. Hermetic separable fastener. 2,321,926; June 15.
Marks, Bernard M. (See Hopkins, J. H., and Marks.)
Marlow, Henry F., Los Angeles, Calif. Game. 2,321,835; June 15.
Martin, Walter, Orange, N. J. Preparation of color printing plates. 2,321,760; June 15.
Maruri, Jesús P., Pina, Camaguey, Cuba. Handle and latch operating device. 2,322,040; June 15.
Marzo, Fernando C. (See Rivard, Alfred G., assignor.)
Marzo, Fernando C., assignor of one-third to A. G. Rivard, Los Angeles, Calif. Dispensing cask for preserving liquids. 2,321,836; June 15.
Mathis, Clyde H., and C. Rampacek, Bartlesville, Okla., assignors to Phillips Petroleum Company. Plugging formations. 2,321,761; June 15.
Matus, John J., Jr., San Juan Bautista, Calif. Excavating mechanism. 2,322,151; June 15.
Maxwell, Frank R., Chester, Pa. Airplane and control device therefor. 2,321,837; June 15.
Mayo, Edward L., assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Automotive vehicle heating apparatus. 2,322,041; June 15.
Mazur, Paul M. (See Tandler, W. S., and Mazur.)
McBean, Douglas M., Rochester, assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Coffee bin. 2,321,838; June 15.
McClure, Glenn T., McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,322,042; June 15.
McCoy, Carl J., Orcutt, and W. O. Butler, Santa Maria, Calif. Packing device. 2,321,927; June 15.
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake cylinder device. 2,322,043; June 15.
McDermet, John R., Hempfield Township, Westmoreland County, assignor to Elliott Company, Pittsburgh, Pa. Heating and deaerating of liquids. 2,321,839; June 15.
McDermott, Frank A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Article of manufacture. 2,321,762; June 15.
McDougal, Taine G., Flint, assignor to General Motors Corporation, Detroit, Mich. Spark plug and making same. 2,321,840; June 15.
McFarlane, John W., and C. E. Moses, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic estimating and calculating device. 2,322,044; June 15.
McFarlane, William D., Ste. Anne de Bellevue, Quebec, and W. E. Parker, assignors to Ogilvie Flour Mills Company Limited, Montreal, Quebec, Canada. Recovery of tocopherol (vitamin E) and valuable by-products from vegetable oils. 2,321,928; June 15.

McGinnie, Walter R., assignor to York Ice Machinery Corporation, York, Pa. Absorption refrigeration system. 2,321,929; June 15.
McGovern, Thomas L., Providence, R. I. Flier frame structure. 2,322,125; June 15.
McIntyre, Glenn H., Cleveland Heights, and E. E. Bryant, Bedford, assignors to Ferro Enamel Corporation, Cleveland, Ohio. Porcelain enamel ground coat. 2,321,763; June 15.
McManigal, Robert M., et al. (See Eubanks, Floyd G., assignor.)
McNutt, Louis C., Scotch Plains, N. J., assignor to M. W. Kellogg Company, New York, N. Y. Scanning apparatus. 2,322,203; June 15.
McPhee, Joseph A., Pittsburg, Calif. Game charting device. 2,321,692; June 15.
Meisenburg, Kurt, and E. Dennstedt, Leverkusen I. G.-Werk, and E. Zaucker, Halle-on-the-Saale, Germany, vested in the Alien Property Custodian. Emulsion polymerization of halogen-2-butadienes-1,3. 2,321,693; June 15.
Mekler, Valentine, Jackson Heights, N. Y., and J. H. Curtis, Trenton, Mich., assignor to The Lummus Company, New York, N. Y. Refining hydrocarbons. 2,321,841; June 15.
Melgaard, Thomas L. (See Cohen, S. A., and Melgaard.)
Mellon Institute of Industrial Research, trustee. (See Hodge, Willard W., assignor.)
Methvin, Wilbur E., Lawrenceburg, Tenn. Torpedo guard for ships. 2,321,842; June 15.
Moynihan, John J., assignor of one-half to J. B. Brennan, Cleveland, Ohio. Television. 2,321,611; June 15.
Michelfelder, Louis E. (See Cone, H. M., Jr., Bourret and Michelfelder.)
Miller, Alexander, Chicago, Ill. Lamp shade. 2,322,045; June 15.
Miller, Grover C., San Gabriel, assignor to Gromiller, Inc., Los Angeles, Calif. Suppository or bougie. 2,321,694; June 15.
Miller, Lotus F., Cambridge City, Ind. Refrigerating apparatus. 2,321,695; June 15.
Miller, Royal R., Los Angeles, Calif. Serving implement. 2,322,046; June 15.
Minto, Robert E. (See Saxer, E. T., and Minto.)
Mitchell, James A., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Article of manufacture. 2,321,764; June 15.
Mock, Frank C., assignor to Bendix Aviation Corporation, South Bend, Ind. Throttle control for internal combustion engines. 2,322,195; June 15.
Moline Machine Company, Limited. (See Best, Cyril, assignor.)
Monsanto Chemical Company. (See Murdock, Frederick M., assignor.)
Monsanto Chemical Company. (See Webber, C. S., Luce and Murdock, assignors.)
Moloney, Raymond T. (See Nicholson, Ralph A., assignor.)
Montelius, Carl O. J., assignor to Aktiebolaget Imo-Industri, Stockholm, Sweden. Screw rotor. 2,321,696; June 15.
Moran, Frank P., Kansas City, Mo. Trowel holder. 2,322,152; June 15.
Moran, Robert C., Wenonah, N. J., E. E. Reid, Baltimore, Md., and L. A. Hamilton, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition. 2,322,093; June 15.
Morgan Construction Company. (See Blodgett, Albert G., assignor.)
Morin, Louis H. (See Morin, L. H., and Marinsky.)
Mormile, Anthony R., assignor to The G & O Manufacturing Company, New Haven, Conn. Oil cooler. 2,322,047; June 15.
Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Welt feeding device. 2,321,610; June 15.
Moses, Clyde E. (See McFarlane, J. W., and Moses.)
Mostow Co., The. (See Braun, August J., assignor.)
Moulin, Irving V., San Francisco, Calif. Photographic apparatus. 2,321,697; June 15.
Moyer, Richard E., assignor to Gleason Works, Rochester, N. Y. Tool mechanism for gear-cutting machines. 2,321,765; June 15.
Murdock, Frederick M., Chicopee Falls, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Phenol aldehyde resin. 2,321,766; June 15.
Murdock, Frederick M. (See Webber, C. S., Luce and Murdock.)
Murray Corporation. (See Murray, John A., assignor.)
Murray, John A., Baltimore County, Md., assignor to Murray Corporation. Hose clamp. 2,321,930; June 15.
Muckus, Anthony G. (See Woodford, J. C., and Muskus.)
Nadeau, Gale F., and C. B. Starck, assignors to Eastman Kodak Company, Rochester, N. Y. Nontacky adhesive coated sheeting. 2,322,048; June 15.
Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Driving mechanism for aircraft parts. 2,322,153; June 15.
Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,322,154; June 15.
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
Nash-Kelvinator Corporation. (See Wahlberg, Nils E., assignor.)
National Supply Company, The. (See Bishop, J. O., and Babcock, assignors.)
Nelson, Robert M., Evanston, assignor to Peerless Equipment Company, Chicago, Ill. Housing construction for draft gears. 2,321,843; June 15.
New, Fred M., New York, N. Y. Ball lifting game. 2,322,155; June 15.
Newell, George K., near Pitcairn, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake mechanism. 2,322,049; June 15.
Newell, George K., near Pitcairn, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Truck construction. 2,322,050; June 15.
Newhard, Wayne I., Conneautville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Production of monofilaments. 2,322,094; June 15.
Newman, Max M. (See Newman, Victor M., assignor.)
Newman, Victor M., assignor to Max M. Newman, New York, N. Y. Hair curler. 2,321,931; June 15.
Niagara Blower Company. (See Olstad, M. H., and Williams, assignors.)
Nicholson, Edward W., Detroit, Mich. Metal partition structure. 2,322,051; June 15.
Nicholson, Ralph A., assignor to R. T. Moloney, Chicago, Ill. Cup support and drain. 2,321,844; June 15.
Niles-Bement-Pond Company. (See Fox, Raymond S., assignor.)
Nolde, George V., Berkeley, Calif. Navigational guide system. 2,321,698; June 15.
No-Mercury Felt Corporation. (See Sartakoff, Jack D., assignor.)
Norberg, Oscar E. (See Rosebrook, H. E., and Norberg.)
Northey, Elmore H., and L. H. Dhein, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Sulphapyridine process. 2,322,196; June 15.
Nye, Norman H., assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Wire drawing apparatus. 2,321,612; June 15.
Nyhagen, Barney R., New York, N. Y. Hair cutting implement. 2,321,932; June 15.
Nystrom, Karl F., and V. L. Green, Milwaukee, Wis. Railway car truck. 2,321,845; June 15.
Obermaier, John A., Chicago, Ill. Temperature responsive device. 2,321,846; June 15.
O'Brien, William J., assignor to E. F. Andrews, Chicago, Ill. Remote indicator and control device. 2,321,699; June 15.
Obstfeld, Abraham. (See Obstfeld, Lou, assignor.)
Obstfeld, Lou, Brooklyn, assignor of one-half to Abraham Obstfeld, New York, N. Y. Staple for stapling machines. 2,321,847; June 15.
Ogden, Jack, Huntington Woods, and H. B. Wilkins, assignors to General Motors Corporation, Detroit, Mich. Weld analyzer. 2,322,052; June 15.
Ogilvie Flour Mills Company, Limited. (See McFarlane, W. D., and Parker, assignors.)
Ogilvie, James, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation. Manufacture of aminoanthraquinone compounds. 2,321,767; June 15.
Oglesby, Nicholas E., assignor to Behr-Manning Corporation, Troy, N. Y. Coated abrasive. 2,322,156; June 15.
Ohio Brass Company, The. (See Brandt, Thomas F., assignor.)
Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Ohio Brass Company, The. (See Smith, Edward P., assignor.)
Olstad, Martin H., Bayside, and Allan E. Williams, White Plains, assignors to Niagara Blower Company, New York, N. Y. Apparatus for maintaining the desired temperature of liquids. 2,321,933; June 15.
Onksen, George W., Jr. (See Falge, R. N., Onksen, Jr., and Stone.)
O'Reilly, Joe, Tacoma, Wash. Collapsible carton. 2,321,848; June 15.
Ostermann, Rudolf M., Kenilworth, Ill. Locomotive. 2,321,613; June 15.
Osth, Adam, assignor to Alfred Decker & Cohn, Inc., Chicago, Ill. Waistcoat attachment for dress coats. 2,321,768; June 15.
Oswald, Frank G., Newark, assignor to Hercules Powder Company, Wilmington, Del. Rosin base resin. 2,322,197; June 15.
Owens, Calvin A., St. Petersburg, Fla. Wood treatment. 2,321,849; June 15.
Paddock, Levi S. (See Ramsbottom, J. M., and Paddock.)
Palardy, Andrew J., Avon, assignor to Jones & Vining, Inc., Brockton, Mass. Adjustable shoe tree. 2,322,053; June 15.
Palmer, Clinton D., and W. N. Lowe, River Forest, Ill. Vehicle control mechanism. 2,321,614; June 15.
Paraffine Companies, The. (See Cohen, S. A., and Melgaard, assignors.)
Parker, Arthur H. (See Sebell, Harry, assignor.)
Parker, William E. (See McFarlane, W. D., and Parker.)
Parsons, Clinton H., assignor to Industrial Patents Corporation, Chicago, Ill. Coating composition. 2,322,198; June 15.

Parsons, Robert J., Schenectady, assignor to Consolidated Car Heating Company, Inc., Albany, N. Y. Heating and ventilating system. 2,322,054; June 15.
Pasinski, Walter J., Howell, assignor to Burroughs Adding Machine Company, Detroit, Mich. Spool. 2,322,055; June 15.
Pass & Seymour, Inc. (See Brooks, John W., assignor.)
Pataki, Denes, et al. (See Wallace, William D., assignor.)
Pato, Argimiro Rodriguez, Habana, Cuba. Rotating pump. 2,321,934; June 15.
Paul, Philip T., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Amino diaryl dialkyl cyclobutane. 2,321,935; June 15.
Paulsen, Thomas R., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Bulldozer. 2,321,615; June 15.
Paulus, Charles L. (See Stout, R. K., and Paulus.)
Pearce, George C., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,321,850; June 15.
Peerless Equipment Company. (See Nelson, Robert M., assignor.)
Penn Electric Switch Co. (See Shaw, Burton E., assignor.)
Pennsylvania Railroad Company, The. (See Hengstler, John, assignor.)
Perkins, Albert G., Warsaw, N. Y. Milk-flow indicator for milking machines. 2,321,616; June 15.
Persson, Henry, Bloomfield, N. J. Testing apparatus. 2,321,769; June 15.
Persson, Henry, Bloomfield, N. J. Loading tool. 2,321,698; June 15.
Peterson, Henry J., Webster City, Iowa. Mousetrap. 2,321,617; June 15.
Pfeiffer, Emil E., Pensacola, Fla. Garment hanger. 2,321,700; June 15.
Philco Radio and Television Corporation. (See Grimditch, William H., assignor.)
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,321,771; June 15.
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,321,772; June 15.
Phillips, Gerald E. (See Hewlett, A. P., and Phillips.)
Phillips Petroleum Company. (See Mathis, C. H., and Rampacek, assignors.)
Phipps, George S. (See Bouton, G. M., Phipps, and Schumacher.)
Pickens, C. C. (See Watson, James O., assignor.)
Pneumatic Scale Corporation, Limited. (See Hultin, Oscar H., assignor.)
Pollock, Randolph R., Lawrenceburg, Tenn. Tire shoe buffing machine and the like. 2,321,936; June 15.
Poor & Company. (See Chester, Allen E., assignor.)
Pope, Louis A., Melrose, Mass. Lamp socket for fluorescent lamps. 2,321,851; June 15.
Porter, Howard C., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Mixing device. 2,322,157; June 15.
Potter, Wentworth M., Lyndhurst, Ohio, assignor to General Electric Company. Lighting fixture. 2,321,701; June 15.
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Space discharge oscillating relay. 2,321,618; June 15.
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Start-stop repeater apparatus. 2,321,619; June 15.
Potts, Ralph H., La Grange, assignor to Armour and Company, Chicago, Ill. Treating fatty acid-containing stock. 2,322,056; June 15.
Poulin, Edmond E. (See Brougham, F. O., and Poulin.)
Poutinen, Paul T., Jackson Heights, assignor to Waldes Koh-I-Noor Inc., Long Island City, N. Y. Separable fastener display device. 2,322,057; June 15.
Powers, James H., Fort Wayne, Ind., assignor to General Electric Company. Waste disposal unit. 2,322,058; June 15.
Pratt, Burt C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Phenolic compounds. 2,321,620; June 15.
Pullman Company, The. (See Jones, Basil E., assignor.)
Quinn, Robert G., Bridgewater Township, Somerset County, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Coated product and making same. 2,321,937; June 15.
Quinn, Robert G., Bridgewater Township, Somerset County, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Coating process. 2,321,938; June 15.
Quinn, Robert G., Bridgewater Township, Somerset County, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Coating fibrous sheets. 2,321,939; June 15.
Rabezzana, Hector, and A. J. Battey, Flint, assignor to General Motors Corporation, Detroit, Mich. Spark plug adjusting device. 2,321,854; June 15.
Rampacek, Carl. (See Mathis, C. H., and Rampacek.)
Ramsbottom, John M., assignor to Industrial Patents Corporation, Chicago, Ill. Treating animal tissue. 2,321,621; June 15.
Ramsbottom, John M. and L. S. Paddock, assignors to Industrial Patents Corporation, Chicago, Ill. Treatment of animal tissue. 2,321,622; June 15.
Ramsbottom, John M. and L. S. Paddock, assignors to Industrial Patents Corporation, Chicago, Ill. Treating animal tissue. 2,321,623; June 15.
Ramsbottom, John M. and L. S. Paddock, assignors to Industrial Patents Corporation, Chicago, Ill. Treatment of animal tissue. 2,321,624; June 15.
Ramsbottom, John M., and L. S. Paddock, assignors to Industrial Patents Corporation, Chicago, Ill. Treating animal tissue. 2,321,625; June 15.
Randolph, Donald W., Flint, assignor to General Motors Corporation, Detroit, Mich. Indicator. 2,321,855; June 15.
Rathbone, Russell J. (See Hamer, F. M., and Rathbone.)
Ray, William A., Glendale, Calif. Control device. 2,321,852; June 15.
Ray, William A., Los Angeles, Calif. Valve structure. 2,321,853; June 15.
Raytheon Production Corporation. (See Horn, Clarence A., assignor.)
Read, Arthur, Portland, Oreg. Combination pouring spout and sifter. 2,321,856; June 15.
Redin, Andrew W. (See Billstrom, E. J., and Redin.)
Reid, Ebenezer E. (See Moran, R. V., Reid, and Hamilton.)
Renkin, Samuel M., Pittsburgh, Pa. Chain wheel. 2,321,702; June 15.
Rice, Harry T. (See Lieber, E., and Rice.)
Richardson, Harrison L. (See Kearney, N. L., and Richardson.)
Ridbo Laboratories, Inc. (See Auer, László, assignor.)
Rigerman, Harry F., Kenmore, N. Y. Container. 2,321,857; June 15.
Rivard, Alfred G. (See Marzo, Fernando C., assignor.)
Rivard, Alfred G., Los Angeles, Calif., assignor of one-third to Fernando Marzo. Attachment for lunch boxes. 2,321,703; June 15.
Roberts, Earle L., Modesto, Calif. Dehydrator. 2,321,858; June 15.
Robertson, John H., London, England. Heating system. 2,321,940; June 15.
Robson, William S., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Heating shoe machine tools. 2,321,704; June 15.
Roediger, Joseph C., Brooklyn, N. Y., assignor to Standard Oil Development Company. Saturating asphalt. 2,322,059; June 15.
Rollway Bearing Company. (See Kilian, Rudolph R., assignor.)
Roper, George D., Corporation. (See Hennessy, John F., assignor.)
Roper, Val J., South Euclid, Ohio, assignor to General Electric Company. Vehicle headlamp unit. 2,321,705; June 15.
Rose, Otto, assignor to Ira Saks, Cleveland, Ohio. Clutch plate. 2,321,941; June 15.
Rosebrook, Homer E., Greenville, Mich., and Oscar E. Norberg, Cincinnati, Ohio, assignors to Gibson Electric Refrigerator Corporation, Greenville, Mich. Shelf. 2,321,859; June 15.
Rosenblum, Israel, New York, N. Y. Oil-soluble phenolic resin and method of preparing same. 2,321,626; June 15.
Ross, Carl, et al. (See Wallace, William D., assignor.)
Ross, Donald E. (See Heller, H. S., Ross, and Lilly.)
Ross, J. R., Engineering Corporation. (See Gschwind, Jean F., assignor.)
Rothrock, Henry S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Phenol-formaldehyde resin. 2,321,627; June 15.
Rothrock, Henry S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric material. 2,321,942; June 15.
Rowand, Will H., Plainfield, N. J. and E. C. Huge, Barberton, Ohio, assignors to The Babcock & Wilcox Company, Newark, N. J. Fluid separator. 2,321,628; June 15.
Rudick, Philip L., et al. (See Lehde, Henry, assignor.)
Rudolph Wurlitzer Company, The. (See Farny, Cyril, assignor.)
Ruemelin, Richard, Milwaukee, Wis. Golfer's putter. 2,321,773; June 15.
Ruemelin, Richard, Milwaukee, Wis. Sandblast cabinet. 2,321,774; June 15.
Ruppel, Frederick H., Pasadena, Calif. Building construction and unit therefor. 2,321,860; June 15.
Rutherford, John T. (See Farrington, B. B., Clayton and Rutherford.)
Saks, Ira. (See Rose, Otto, assignor.)
Salsbury, Hubert I., Oakland, Calif. Knife. 2,321,706; June 15.
Sampietro, Achille C., Coventry, England. Internal combustion engine. 2,321,943; June 15.
Sams, Francis C., Bath, N. Y. Directional signal indicator. 2,322,158; June 15.
Samuels, Sydney J., Brooklyn, assignor to Bernhard Ulmann Co. Inc., New York, N. Y. Pompon making device and process. 2,322,060; June 15.
Sanders, Mack L., Brooklyn, N. Y. Information distribution system. 2,321,944; June 15.
Sandy Hill Iron & Brass Works, The. (See Leeson, William M., assignor.)
Sartakoff, Jack D., Douglaston, Long Island, N. Y., assignor to No-Mercury Felt Corporation. Dry carroting fur. 2,321,775; June 15.

Sauer, Henry J., assignor to The Kilborn-Sauer Company, Fairfield, Conn. Automotive accessory. 2,321,861; June 15.

Saunders, Enos P. (See Atherholt, G. L., Sr., Saunders, and Graham.)

Savage, Charles E., Santa Monica, Calif. Drafting instrument. 2,321,862; June 15.

Saxer, Edward T., Brecksville, and R. E. Minto, Cleveland, Ohio. Analytical furnace. 2,322,159; June 15.

Scheel, Walter G., Tenino, Wash. Drag saw. 2,321,863; June 15.

Schelhammer, Herman J., Whitestone, and W. Hiemann, assignors to American Hard Rubber Company, New York, N. Y. Hard rubber lining for receptacles. 2,321,777; June 15.

Schering Corporation. (See Logemann, Willy, assignor.)

Schlagel, Huntington R., Des Plaines, Ill. Boat hull. 2,322,160; June 15.

Schleicher, Harold E., West Hartford, assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Overload relay switch. 2,322,161; June 15.

Schmidt, Alfred M., Annaberg in Erz Gebirge, Germany, assignor to General Electric Company. Control arrangement for signal devices. 2,322,162; June 15.

Schmidt, Gustav E., assignor to The Alfred Johnson Skate Company, Chicago, Ill. Skate. 2,322,163; June 15.

Schmidt, Otto, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Catalytic hydrogenation of organic compounds. 2,322,095; June 15.

Schmidt, Otto, Heidelberg, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Catalytic hydrogenation of high molecular aliphatic carboxylic acids. 2,322,096; June 15.

Schmidt, Otto, Heidelberg, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Catalytic hydrogenation of aliphatic carboxylic acid anhydrides. 2,322,097; June 15.

Schmidt, Otto, Heidelberg, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Catalytic hydrogenation of alicyclic carboxylic acids. 2,322,098; June 15.

Schmidt, Otto, Heidelberg, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Catalytic hydrogenation of organic compounds. 2,322,099; June 15.

Schneider, Alexander W. (See Hoehn, W. M., and Schneider.)

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Automatic adjusting mechanism for brakes. 2,322,061; June 15.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Fluid trapping device. 2,322,062; June 15.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Booster-assisted fluid pressure compounding systems. 2,322,063; June 15.

Schoenrock, George B., Detroit, Mich. Tandem wheel trailer. 2,321,864; June 15.

Schriever, Henry, Douglas, Minn. Filter for milk and the like. 2,321,776; June 15.

Schrope, William D. (See Arthur, J. L., and Schrope.)

Schumacher, Earle E. (See Bouton, G. M., and Phipps, and Schumacher.)

Schwartz, Morris, and W. Castedello, Stamford, Conn., assignors to The Kalart Company, Inc., Stamford, Conn. Camera attachment. 2,321,945; June 15.

Schweller, Edmund F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,321,865; June 15.

Scott, David C., Providence, R. I., assignor to Henry L. Scott Company. Constant rate of load testing apparatus. 2,322,100; June 15.

Scott, Henry L., Company. (See Scott, David C., assignor.)

Scott, Lawrence B., Houston, Tex. Means for repairing fractured eastings. 2,321,629; June 15.

Scudder, Isaiah C., Bloomfield, N. J. Spanish moss puller. 2,322,164; June 15.

Sebell, Harry, Marblehead, assignor of one-half to A. H. Parker, Lexington, Mass. Container. 2,321,946; June 15.

Seeger, Edwin W. (See Lightfoot, E. N., and Seeger.)

Seiffert, William H. (See Balcar, John A., assignor.)

Sender, Leopold, Philadelphia, Pa., and J. H. Wilson, West Roxbury, Mass., assignors to The Sharples Corporation, Philadelphia, Pa. Manufacture of soap. 2,321,947; June 15.

Sewell, Benjamin W., Tulsa, Okla., assignor to Standard Oil Development Company. Coring device. 2,322,064; June 15.

Sexton, Everett P., East McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Combination speed governor and decelerometer. 2,322,065; June 15.

Seymour, Merrill W. (See Young, R. V., and Seymour.)

Shakespeare Company. (See Burdick, F., assignor.)

Shannon Carlisle, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Material working apparatus. 2,321,707; June 15.

Sharp, Robert E., Brunswick, and H. Francis, Jr., Philadelphia, Pa., assignors to The Baldwin Locomotive Works. Rotary hydraulic machine. 2,321,950; June 15.

Sharples Corporation, The. (See Ayres, Arthur U., assignor.)

Sharples Corporation, The. (See Jones, Leo D., assignor.)

Sharples Corporation, The. (See Sender, L., and Wilson, assignors.)

Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Air volume control. 2,322,166; June 15.

Shawcross, Roy, Salina, assignor to Aluminum Company of America, Pittsburgh, Pa. Protective coating on magnesium. 2,321,948; June 15.

Shefsky, et al. (See Lehde, Henry, assignor.)

Sheldon, Leonard C., Hillsgrove, R. I. Aerial flare. 2,321,866; June 15.

Shell Development Company. (See van der Plas, Franciscus J. F., assignor.)

Shell Development Company. (See White, Ellis R., assignor.)

Shippee, Charles W., Worcester, Mass. Combined power shovel and truck. 2,321,630; June 15.

Shoemaker, Emory C., Troy, Pa. Micrometer. 2,322,167; June 15.

Sibal, Ludvik, Long Island City, N. Y. Fluid pressure controlling apparatus. 2,321,631; June 15.

Siemund, Herman, assignor to Greenview Manufacturing Company, Chicago, Ill. Stick handling mechanism. 2,321,632; June 15.

Simmonds Development Corporation Limited. (See Allam, Philip S., assignor.)

Simpson, Earl W., Walton, N. Y. Spray gun. 2,322,165; June 15.

Sinclair Refining Company. (See Kuhn, Herman C., assignor.)

Sklar, Harry B., Los Angeles, Calif. Support for relatively movable parts. 2,321,708; June 15.

Slone, Howard I. (See Faige, R. N., Onksen, and Slone.)

Slutsky, Joseph. (See Cordrey, Hancil, and Duvall, assignors.)

Smith, Charles T., Cleveland Heights, Ohio. Hose coupling. 2,322,168; June 15.

Smith, Daniel D., Valdosta, Ga. Method of filling capsules. 2,322,169; June 15.

Smith, Edward P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail bond. 2,321,867; June 15.

Smith, George R., Richmond Heights, assignor to Wm. Wurdack Electric Manufacturing Company, St. Louis, Mo. Panel or switch box. 2,321,868; June 15.

Smith, Lois I., Klamath Falls, Oreg. Polish and process of making it. 2,322,066; June 15.

Smith, Roy H. (See Stratford, R. K., and Smith.)

Smith, Sayle E., Elmhurst, Long Island, N. Y., and C. L. Straeten, assignors to Industrial Patents Corporation, Chicago, Ill. Divider for meat boilers. 2,322,199; June 15.

Snyder, Paul, Baltimore, Md. Undergarment. 2,322,170; June 15.

Socony-Vacuum Oil Company. (See Kalichevsky, V. A., and Hornaday, assignors.)

Socony-Vacuum Oil Company. (See Moran, R. C., Reid, and Hamilton, assignors.)

Socony-Vacuum Oil Company Incorporated. (See Atwood, Edwin H., assignor.)

Solomon, Nathan L., Mt. Vernon, N. Y. Featherweight hair curler. 2,321,709; June 15.

Sorensen, Andrew R., San Francisco, Calif. Cutting apparatus. 2,321,949; June 15.

Soreny, Ernest V., assignor to Eastman Kodak Company, Rochester, N. Y. Flashlight synchronizing device. 2,322,067; June 15.

Southern Pecan Shelling Company. (See Garcia, Henry V., assignor.)

Southern Wood Preserving Company. (See Harvey, Jacquelin E., Jr., assignor.)

Sparks, William J. (See Thomas, R. M., and Sparks.)

Spatz, Harry F., Woodhaven, N. Y. Traction and antiskid device for vehicles. 2,322,171; June 15.

Special Equipment Company. (See Ewald, Raymond L., assignor.)

Spencer Aircraft Motors, Inc. (See Spencer, Louis R., assignor.)

Spencer, Louis R., assignor to Spencer Aircraft Motors, Inc., West Hartford, Conn. Valve actuating mechanism. 2,322,172; June 15.

Spencer, Louis R., assignor to Spencer Aircraft Motors, Inc., West Hartford, Conn. Valve actuating mechanism. 2,322,173; June 15.

Spencer, Louis R., assignor to Spencer Aircraft Motors, Inc., West Hartford, Conn. Valve actuating mechanism. 2,322,174; June 15.

Spicer Manufacturing Corporation. (See Lewis, Robert P., assignor.)

Standard Oil Company of California. (See Clayton, J. O., and Farrington, assignors.)

Standard Oil Company of California. (See Farrington, B. B., Clayton, and Rutherford, assignors.)

Standard Oil Development Company. (See Arundale, Erving, assignor.)

Standard Oil Development Company. (See Frolich, Per K., assignor.)

Standard Oil Development Company. (See Hemminger, Charles E., assignor.)

Standard Oil Development Company. (See Hewlett, A. P., and Phillips, assignors.)

Standard Oil Development Company. (See Huber, Theodore A., assignor.)

Standard Oil Development Company. (See Roediger, Joseph C., assignor.)

Standard Oil Development Company. (See Stratford, R. K., and Smith, assignors.)

Standard Products Company, The. (See Watts, Felix J., assignor.)

Stanyer, Clarence, South Pasadena, Calif. Dispenser for dry materials. 2,321,869; June 15.

Starck, Clemens B. (See Nadeau, G. F., and Starck.)

Starle, George B., Schenectady, N. Y., assignor to General Electric Company. Panel. 2,322,068; June 15.

Standard Oil Company of California. (See Clayton, J. O., and Farrington, assignors.)

Standard Oil Development Company. (See Fischer, Herbert G. M., assignor.)

Standard Oil Development Company. (See Lieber, E., and Rice, assignors.)

Standard Oil Development Company. (See Swell, Benjamin W., assignor.)

Standard Oil Development Company. (See Tyson, Charles W., assignor.)

Steele, James W., North Kansas City, Mo. Shirt ironing, finishing and folding operation. 2,321,870; June 15.

Stevenson Engineering Corporation. (See Stevenson, Robert, assignor.)

Stevenson, Robert, Providence, R. I., assignor to Stevenson Engineering Corporation. Rotary seal. 2,321,871; June 15.

Stiller, Paul. (See Altman, B., and Stiller.)

Stimson, Allen G., Lynnfield, Mass., assignor to General Electric Company. Relay. 2,322,069; June 15.

Stoller, Hugh M., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,321,710; June 15.

Stone, Frederick E. (See Gentry, Cleo J., assignor.)

Stout, Raymond K. (See Crane, C. J., and Stout.)

Stout, Raymond K., and C. L. Paulus, Dayton, Ohio. Altimeter or barometer. 2,321,633; June 15.

Stout, William H., Eugene, Oreg. Pipe coupling means. 2,321,778; June 15.

Stover, Harry E., Leonia, N. J., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Apparatus for sealing containers. 2,321,779; June 15.

Straeten, Charles L. (See Smith, S. E., and Straeten.)

Strasser, Elmer, et al. (See Wallace, William D., assignor.)

Stratford, Reginald K., Corunna, and R. H. Smith, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company. Method for converting hydrocarbon oils. 2,322,070; June 15.

Süsskind, Albert, Lugano, Switzerland. Device for the continuous fastening of slide fastener elements on slide fastener bands. 2,321,951; June 15.

Sweeney, Beauregard. (See Thurston, A. L., and Sweeney.)

Swift, Harvey C., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure system. 2,322,071; June 15.

Szalla, Frank I., Chicago, Ill. Combination light fixture and ornament mounting. 2,321,872; June 15.

Talbot, Richard C., and F. L. Beyer, assignors to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C. Machine for supplying inserts to packages. 2,322,175; June 15.

Tandler, William S., and P. M. Mazur, assignors to Industrial Scientific Corporation, New York, N. Y. Robot vehicle. 2,321,874; June 15.

Tate, Alexander, Fareham, England. Joint for concrete structures. 2,321,873; June 15.

Tatosian, Harry G., and R. A. Yohai, New York, N. Y. Machine for making and shaping cakes. 2,321,634; June 15.

Taylor, Guy B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of polyamide films. 2,321,635; June 15.

Taylor, Elmer H., assignor to The Chase-Shawmut Company, Newburyport, Mass. Fusible electric protective device. 2,321,711; June 15.

Taylor, William H., Pawtucket, assignor to Crown Fastener Corporation, Warren, R. I. Package. 2,321,952; June 15.

Tedd, James R., Willamette, Oreg. Lawn mower sharpener. 2,321,953; June 15.

Teletype Corporation. (See Gilbertson, Elmer G., assignor.)

Teletype Corporation. (See Potts, Louis M., assignor.)

Temple, Robert, Swissvale, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc. Load testing apparatus. 2,321,875; June 15.

Temple Velocity Equipment, Inc. (See Temple, Robert, assignor.)

Thoma, Maurice R., Boonville, Mo. Timing apparatus. 2,321,876; June 15.

Thomas, Robert M., Union, and I. E. Lightbown, Roselle, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Purification of interpolymers. 2,322,072; June 15.

Thomas, Robert M., Union, and W. J. Sparks, Alexandria, Va., assignors, by mesne assignments, to Jasco, Incorporated. Olefinic interpolymerization process and product. 2,322,073; June 15.

Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 2,321,712; June 15.

Thorsness, Edgar R., Worthington, Minn. Spring wheel. 2,321,954; June 15.

Thurner, Robert E., Milwaukee, Wis. Separating and grading machine. 2,322,074; June 15.

Thurston, Arthur L., Wantagh, and B. Sweeney, Great Neck, assignors to Cox & Stevens Aircraft Corporation, Mineola, N. Y. Plotting device. 2,321,955; June 15.

Todd, John P., Mamaroneck, N. Y. Black-out lamp. 2,321,636; June 15.

Toledo Stamping and Manufacturing Company. (See Leake, James M., assignor.)

Tondeur, Rene, Lechdale, assignor to Bowden (Engineers) Limited, Willesden Junction, London, England. Remote control of parts actuated through flexible power transmission mechanisms. 2,321,780; June 15.

Trapani, Vincent, and H. R. Krohn, Los Angeles, Calif. Scissors sharpener. 2,321,956; June 15.

Triangle Engineering Company. (See Atherholt, G. L., Sr., Saunders, and Graham, assignors.)

Trösken, Otto. (See Zerweck, W., and Trösken.)

Troyer, John S., Moyock, N. C. Poultry feeder. 2,321,877; June 15.

Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Ring binder. 2,322,176; June 15.

Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Binder. 2,322,177; June 15.

Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)

Tucker, Herbert E. (See Hall, Joseph M.)

Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Injection unit. 2,322,200; June 15.

Turner, Chester D., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe and shoe bottom unit and method of making the same. 2,321,713; June 15.

Twiss, Douglas F., S. Coldfield, and P. H. Amphlett, Erdington, Birmingham, assignors to Dunlop Rubber Company Limited, London, England. Production of goods of or containing rubber or similar material. 2,321,957; June 15.

Tyler, Ernest, Daisytown, Pa. Pick handle protector. 2,322,178; June 15.

Tyler, Warren C., Huntington Park, Calif. Compressor. 2,321,781; June 15.

Tyrrell, Emmet R., Youngstown, Ohio, assignor to The Fessler Machine Company, Sharon, Pa. Strip uncoiler. 2,321,878; June 15.

Tyson, Charles W., Summit, N. J., assignor to Standard Oil Development Company. Regeneration of powder. 2,322,075; June 15.

Underpressure Engineering Company Limited. (See Foster, Arthur S., assignor.)

Union Switch & Signal Company, The. (See Hedding, Linnie K., assignor.)

Union Switch & Signal Company, The. (See Kemmerer, Ralph R., assignor.)

United Aircraft Corporation. (See von Mertens, Ernest K., assignor.)

United Shoe Machinery Corporation. (See Haas, Otto R., assignor.)

United Shoe Machinery Corporation. (See MacKenzie, Wilbur L., assignor.)

United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)

United Shoe Machinery Corporation. (See Robson, William S., assignor.)

United Shoe Machinery Corporation. (See Turner, Chester D., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Envelope Company. (See Brougham, F. O., and Poulin, assignors.)

United States Gypsum Company. (See King, George D., assignor.)

United States Rubber Company. (See Paul, Philip T., assignor.)

Union Switch & Signal Company, The. (See Dodd, Arthur E., assignor.)

Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)

Universal Oil Products Company. (See Benedict, Wayne L., assignor.)

Universal Oil Products Company. (See Ipatieff, V. N., and Grosse, assignors.)

Valdez, Rafael, New York, N. Y. Gaseous diffuser. 2,321,879; June 15.

Vandervilt, Byron M. (See Frolich, P. K., and Vanderbilt.)

Van der Plas, Franciscus J. F., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Extraction process. 2,322,083; June 15.
Vandervell Products Limited. (See Johnson, Ernest W., assignor.)
Van Zwet, Willem L. C., Eindhoven, Netherlands; vested in Alien Property Custodian. Producing ceramic bodies. 2,322,179; June 15.
Vaughan, Edward U., et al. (See Eubanks, F. G., assignor.)
Vaughan, Francis E., et al. (See Eubanks, Floyd G., assignor.)
Vaughan, Philip A., et al. (See Eubanks, F. G., assignor,)
Vaughn Machinery Company, The. (See Nye, Norman H., assignor.)
Vernon, Murray, assignor to S. E. & M. Vernon Inc., New York, N. Y. Loose-leaf book construction. 2,322,180; June 15.
Vernon, S. E. & M., Inc. (See Vernon, Murray, assignor.)
Vickers, Harry F., assignor to Vickers, Incorporated, Detroit, Mich. Hydraulic hoisting unit and control system therefor. 2,321,880; June 15.
Vickers, Incorporated. (See Vickers, Harry F., assignor.)
Vincent, Edward T., Ann Arbor, Mich., assignor, by mesne assignments, to Continental Aviation and Engineering Corporation. Fuel injecting and metering means. 2,321,181; June 15.
Vitamoil Laboratory, Inc. (See Hennessy, Douglas J., assignor.)
Vittum, Paul W. (See Fierke, S. S., Vittum and Wilder.)
Vittum, Paul W. (See Fierke, S. S., Vittum, and Wilder.)
Vittum, Paul W. (See Jelley, E. E., and Vittum.)
Von Mertens, Ernest K., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Spark plug wire terminal. 2,321,782; June 15.
Vroom, Edward, Ossining, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,321,714; June 15.
Vulcan Corporation. (See Clausing, Walter, assignor.)
Waco Aircraft Company. (See Arcier, A. F., and Brukner, assignors.)
Waelty, Angelica B., Sunnyvale, Calif. Fruit cutting and pitting device. 2,321,881; June 15.
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Motor mount. 2,321,715; June 15.
Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Adjustable seat. 2,321,716; June 15.
Wald, Reuben E. (See Lunda, E. C., and Wald.)
Waldes Koh-I-Noor Inc. (See Poutinen, Paul T., assignor.)
Walker, George H., assignor to Heenan & Froude Limited, Worcester, England. Transmission dynamometer. 2,322,182; June 15.
Walker, Joseph F., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Formaldehyde addition products and their preparation. 2,321,958; June 15.
Wallace, John H., Alhambra, Calif. Cooling engine cylinders. 2,321,882; June 15.
Wallace, William D., Wayne, Mich., assignor of forty-six and two-thirds percent to Denes Pataki, thirty-three and one-third percent to Carl Ross, and twenty percent to Elmer Strasser. Hardness testing machine. 2,321,717; June 15.
Walter, Frederick R., administrator. (See Conradson, Conrad M.)
Ward, Lawrence T., Philadelphia, Pa., assignor to Knapp-Monarch Company, St. Louis, Mo. Dispensing bulb. 2,322,183; June 15.
Warren, S. D., Company. (See Bicknell, John A., assignor.)
Watrous, Ward W., Jr., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Full wave rectifier. 2,321,959; June 15.
Watson, James O., assignor of one-fourth to C. C. Pickens, Cooper, Tex. Stalk cutter. 2,322,076; June 15.
Watts, Felix J., Detroit, Mich., assignor to The Standard Products Company, Port Clinton, Ohio. Contouring machine. 2,321,637; June 15.
Wearn, James S., Saint Albans, Christchurch, New Zealand. Drive control mechanism. 2,321,960; June 15.
Webber, Charles S., and S. B. Luce, Springfield, and F. M. Murdock, Chicopee Falls, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Manufacture of cast phenolic resins. 2,321,783; June 15.
Wells, Marcus A., Worcester, Mass. Printing apparatus. 2,321,718; June 15.
Wells, Martin, Los Angeles, Calif. Electrode holder. 2,322,077; June 15.
West, William R., Montebello, Calif. Gaseous fuel mixer. 2,321,719; June 15.
Western Electric Company, Inc. (See Shannon, Carlisle, assignor.)
Western Union Telegraph Company, The. (See Buckingham, William D., assignor.)
Westinghouse Air Brake Company, The. (See Canetta, J., and Bossart, assignors.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company. (See Hewitt, Ellis E., assignor.)
Westinghouse Air Brake Company, The. (See McClure, Glenn T., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Air Brake Company, The. (See Newell, George K., assignor.)
Westinghouse Air Brake Company, The. (See Sexton, Everett P., assignor.)
Westinghouse Air Brake Company. (See Whitney, Ralph T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hays, Robert F., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Watrous, Ward W., Jr., assignor.)
White, Ellis R., Albany, assignor to Shell Development Company, San Francisco, Calif. Lubricating composition. 2,322,184; June 15.
Whiting, Richard R., Norwood, Ohio. Picture display box. 2,322,078; June 15.
Whitlock, Donald E. (See Keuffel, A. W., and Whitlock.)
Whitney, Ralph T., Irwin, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake device. 2,322,079; June 15.
Whittaker, John R., Babylon, assignor to Automatic Appliance Corporation, New York, N. Y. Magazine for firearms. 2,321,720; June 15.
Wickler, Herbert, Berlin-Hohenschonhausen, and H. Heymann, Berlin-Lankwitz, Germany, assignors to General Electric Company. Control for runout tables of reversing mills. 2,322,080; June 15.
Wilde, James M., Philadelphia, Pa. Pan greasing brush. 2,321,961; June 15.
Wilder, Lot S. (See Fierke, S. S., Vittum and Wilder.)
Wilder, Lot S. (See Fierke, S. S., Vittum and Wilder, assignors.)
Wilkins, Harold B. (See Ogden, J., and Wilkins.)
Williams, Allan E. (See Olstad, M. H., and Williams.)
Williams, Francis A., Toronto, Ontario, Canada. Coated mold and molding concrete. 2,321,638; June 15.
Wilson, James H. (See Sender, L., and Wilson.)
Wilson, John H., Wichita Falls, Tex. Clutch. 2,321,565; June 15.
Wilson, Winfred E., Los Angeles, Calif. Structural unit. 2,321,566; June 15.
Wilson, Winfred E., Los Angeles, Calif. Structural unit. 2,321,567; June 15.
Wilson, Winfred E., Los Angeles, Calif. Building structure. 2,321,568; June 15.
Wingfoot Corporation. (See Lichty, Joy G., assignor.)
Winkler, John, Cleveland, Ohio. Beater mechanism. 2,321,784; June 15.
Winkler, Marion R., Chicago, Ill. Electromagnet. 2,321,569; June 15.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Leveling machine. 2,321,721; June 15.
Winlock, Joseph, and J. J. MacKinney, assignors to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Welding electrode. 2,322,101; June 15.
Wood, John, Manufacturing Company. (See Fernly, Joseph E., assignor.)
Wood, John, Manufacturing Company. (See Woodford J. C., and Maskus, assignors.)
Woodford, Joseph C., Spring Lake, and A. G. Maskus, Conshohocken, assignors to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Fluid meter. 2,321,785; June 15.
Wotton, Edward, Chicago, Ill. Device for cleaning side wall ports in cylinders. 2,321,786; June 15.
Wright Aeronautical Corporation. (See Jenny, Robert W., assignor.)
Wright, Alvin C., Grand Rapids, Mich. Swivel mount for striking bags. 2,322,081; June 15.
Wright's Automatic Tobacco Packing Machine Company. (See Talbot, R. C., and Beyer, assignors.)
Wurdack, Wm., Electric Manufacturing Company. (See Smith, George R., assignor.)
Wynd, Clarence L. A., and G. T. Lane, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic process. 2,322,082; June 15.
Yohai, Robert A. (See Tatosian, H. G., and Yohai.)
York Ice Machinery Corporation. (See McGinnis, Walter R., assignor.)
York Ice Machinery Corporation. (See Zieber, William E., assignor.)
Young, Douglas, Inc. (See Young, Lewis D., assignor.)
Young, Lewis D., Providence, R. I., assignor to Douglas Young, Inc. Display box cover. 2,321,883; June 15.
Young, Richard V., and M. W. Seymour, assignors to Eastman Kodak Company, Rochester, N. Y. Simultaneous bleaching and fixing bath. 2,322,084; June 15.
Yutzy, Henry C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,322,085; June 15.

Zandecki, John, Alpha, Wash. Log cutting machine. 2,321,962; June 15.
Zarbo, George, assignor to Kimble Glass Company, Vineland, N. J. Funnel and filtering. 2,321,639; June 15.
Zaucker, Ewald. (See Meisenburg, K., Dennstedt and Zaucker.)
Zelony, Emanuel M., New York, N. Y. Visual color comparator. 2,321,722; June 15.
Zerweck, Werner, Frankfort-on-the-Main-Fechenheim, and Wilhelm Hechtenberg, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Sulphur dyestuffs. 2,321,787; June 15.
Zerweck, Werner, and O. Trösken, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Quaternary ammonium compounds. 2,321,963; June 15.
Zieber, William E., assignor to York Ice Machinery Corporation, York, Pa. Purge system for refrigerative circuits. 2,321,964; June 15.
Zimmerman, Emil, Everett, Wash. Sawdust hopper. 2,321,965; June 15.
Zimmerman, Herman W., Rock Valley, Iowa. Draw bar. 2,322,086; June 15.
Zinn, Manvel K., Manhasset, assignor to Bell Telephone Laboratories, Incorporated. Speech transmission system. 2,321,723; June 15.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Liquid flow control. W. H. Green. Re. 22,335; June 15.

LIST OF PLANT INVENTIONS

Peach. J. S. Leckie. 592; June 15.
Rose plant. A. Dickson, Jr. 590; June 15.
Rose plant. F. Meilland. 591; June 15.

LIST OF DESIGN INVENTIONS

Ash tray and match box holder, Combined. S. Oestreicher. 135,836; June 15.
Button or the like, Lapel. S. Gholson. 135,518; June 15.
Cabinet or similar article, Spice. H. H. Hopkins. 135,839; June 15.
Cabinet, Wall. H. C. Doner. 135,813; June 15.
Clip, Paper. F. Ours. 135,814; June 15.
Clip, Spring hair curl. H. M. Lunquist. 135,820; June 15.
Comb, Dressing. O. B. Carson. 135,817; June 15.
Dress. A. Greenspan. 135,826; June 15.
Dress. H. H. Stahl. 135,827; June 15.
Emblem or similar article, Appliqué. D. T. Golden. 135,838; June 15.
Handbag. R. Appel. 135,816; June 15.
Handbag. I. Jolles. 135,840; June 15.
Hat. A. Moncé. 135,822; June 15.
Heating unit, Portable. H. B. Holthouse. 135,833; June 15.
Holder for inkwells and pens. W. M. Gallagher. 135,831; June 15.
Holder for ration container. N. T. Naranick. 135,835; June 15.
Lamp. S. L. Dinkelspiel. 135,830; June 15.
Light fixture, Portable. V. L. Vendope. 135,837; June 15.
Material handler or the like, Tractor carried. C. C. Baldwin. 135,828; June 15.
Playsuit or similar article. B. Seham. 135,815; June 15.
Press, Hydraulic. H. V. Mills. 135,821; June 15.
Rack, Curtain display. A. Bersin and L. Samuels. 135,812; June 15.
Rack, Work-holding. J. E. Hagstrom. 135,832; June 15.
Ring. E. O. Crocker. 135,829; June 15.
Ring, Finger. W. Segman. 135,824; June 15.
Shipping and display container, Combined. D. A. Larkin. 135,834; June 15.
Shoe. M. J. Bernstein. 135,811; June 15.
Skirt. A. Heyman. 135,819; June 15.
Tree, Artificial Christmas. A. P. Schmid. 135,823; June 15.
Valve. L. E. Smith. 135,825; June 15.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive, Coated. N. E. Oglesby. 2,322,156; June 15.
Abrasive, Sheet. R. W. Hackett. 2,321,744; June 15.
Acetals, Preparation of unsymmetrical. W. F. Gresham. 2,321,593; June 15.
Acid, Preparation of desoxycholic. W. M. Hoehn and A. W. Schneider. 2,321,598; June 15.
Addressing machine. H. P. Elliott. 2,322,119; June 15.
Adjustable clamp. H. F. Heaton. 2,321,911; June 15.
Adjustable labeling machine. F. A. Craig. 2,321,661; June 15.
Adjustable seat. N. E. Wahlberg. 2,321,716; June 15.
Adjusting mechanism for brakes, Automatic. S. Schnell. 2,322,061; June 15.
Adjustment means, Awning arm slant. H. Dazzo. 2,321,801; June 15.
Aerial photographs for map making, Method of determining scale. L. T. Eliel. 2,321,902; June 15.
Air cleaner. A. A. Carlson. 2,321,653; June 15.
Aircraft, Rotative winged. H. S. Campbell. 2,321,572; June 15.
Aircraft tank construction. A. F. Arcier and C. J. Brukner. 2,322,104; June 15.
Airplane and control device therefor. F. R. Maxwell. 2,321,837; June 15.
Air volume control. B. E. Shaw. 2,322,166; June 15.
Altimeter or barometer. R. K. Stout and C. L. Paulus. 2,321,633; June 15.
Amino diaryl dialkyl cyclobutane. P. T. Paul. 2,321,935; June 15.
Aminoanthraquinone compounds, Manufacture of. J. Ogilvie. 2,321,767; June 15.
Ammonium compounds, Quaternary. W. Zerweck and O. Trösken. 2,321,963; June 15.
Analytical furnace. E. T. Saxer and R. E. Minto. 2,322,159; June 15.
Analyzer, Weld. J. Ogden and H. B. Wilkins. 2,322,052; June 15.
Animal tissue, Treating. J. M. Ramsbottom. 2,321,621; June 15.
Animal tissue, Treating. J. M. Ramsbottom and L. S. Paddock. 2,321,625; June 15.
Animal tissue, Treatment of. J. M. Ramsbottom and L. S. Paddock. 2,321,622–3; June 15.
Animal tissue, Treatment of. J. M. Ramsbottom and L. S. Paddock. 2,321,624; June 15.
Annealing. H. F. and B. F. Jenkins. 2,321,917; June 15.
Antenna system, Loop. W. H. Grimditch. 2,322,126; June 15.
Apparatus for atomizing liquid. A. St. J. Bowie. 2,321,792; June 15.
Apparatus for coiling wire. A. G. Blodgett. 2,321,646; June 15.
Apparatus for detecting rate of change of speed. J. Canetta and P. N. Bossart. 2,321,992; June 15.
Apparatus for drying accreted fibrous articles. C. Kyle. 2,321,756; June 15.
Apparatus for evaporative castings. G. W. Brant. 2,321,732; June 15.
Apparatus for extraction. A. A. Levine and R. J. Dent. 2,321,923; June 15.
Apparatus for flame hardening of articles. J. O. Bishop and L. L. Babcock. 2,321,645; June 15.
Apparatus for instruction in radio direction finding. H. M. Cone, Jr., R. R. Bourret, and L. E. Michelfelder. 2,321,799; June 15.
Apparatus for maintaining the desired temperature of liquids. M. H. Olstad and A. E. Williams. 2,321,933; June 15.
Apparatus for making containers. F. O. Brougham and E. E. Poulin. 2,321,647; June 15.
Apparatus for mixing. M. P. Hofmann. 2,321,599; June 15.
Apparatus for preheating and handling asphalt, heavy oil, and like viscous material. C. F. Gerlinger. 2,321,908; June 15.
Apparatus for producing multiply tubing. C. Farny. 2,321,738; June 15.
Apparatus for sealing containers. H. E. Stover. 2,321,779; June 15.
Appliance, Domestic. G. C. Pearce. 2,321,850; June 15.
Article and a method of mounting characters of wood or the like, on a background of wood, or similar materials. A. W. Flint. 2,321,740; June 15.
Article of manufacture. F. A. McDermott. 2,321,762; June 15.
Article of manufacture. J. A. Mitchell. 2,321,764; June 15.
Artificial eye. T. J. Dimitry. 2,322,117; June 15.
Asphalt, Saturating. J. C. Roediger. 2,322,059; June 15.
Attachment for lunch-boxes. A. G. Rivard. 2,321,703; June 15.
Automatic knocker for fertilizer mixers. H. A. Cole. 2,322,189; June 15.
Automobile jack. M. Jensen. 2,321,602; June 15.
Automotive accessory. H. J. Sauer. 2,321,861; June 15.
Bag filling apparatus. A. C. Hobbie. 2,322,090; June 15.
Balls, Making golf. P. Kalowski. 2,322,140; June 15.
Bar: *See*—
Draw bar.
Barrel rack. R. J. Hick. 2,321,814; June 15.
Bath, Simultaneous bleaching and fixing. R. V. Young and M. W. Seymour. 2,322,084; June 15.
Beacon and landing gear controlled throttle engine, Marker. C. J. Crane and R. K. Stout. 2,321,582; June 15.
Bearing. G. Fast. 2,322,004; June 15.
Beater mechanism. J. Winkler. 2,321,784; June 15.
Bell. J. Hengstler. 2,322,021; June 16.
Belt for personal wear. W. Govan. 2,321,808; June 15.
Bicycle handle-bar seat. J. J. Kerr. 2,321,752; June 15.
Bin, Coffee. D. M. McBean. 2,321,838; June 15.
Binder. C. D. Trussell. 2,322,177; June 15.
Binder, Ring. C. D. Trussell. 2,322,176; June 15.
Bituminous coating for timber. W. P. Arnold. 2,322,105; June 15.
Black-out lamp. J. P. Todd. 2,321,636; June 15.
Blower device. E. W. Gent. 2,321,907; June 15.
Book construction, Loose leaf. M. Vernon. 2,322,180; June 15.
Boot hanger. C. E. Bonniwell. 2,322,188; June 15.
Box: *See*—
Panel or switch box.
Terminal box.
Picture display box.
Bracket: *See*—
Combined curtain and shade bracket.
Scaffold ledger bracket.
Bracket and clip, Road guard. A. E. Brickman. 2,321,988; June 15.
Bracket means for the lower unit of railway car brakes, Yieldable. A. F. Klasing. 2,321,685; June 15.
Brake. F. C. Frank. 2,322,121; June 15.
Brake control means. G. T. McClure. 2,322,042; June 15.
Brake cylinder device. J. C. McCune. 2,322,043; June 15.
Brake device. R. T. Whitney. 2,322,079; June 15.
Brake mechanism. G. K. Newell. 2,322,049; June 15.
Bridge, Amphibian. A. J. Higgins. 2,321,677; June 15.
Brush, Pan greasing. J. M. Wilde. 2,321,961; June 15.
Buffing machine and the like, Tire shoe. R. R. Pollock. 2,321,936; June 15.
Building construction and unit therefor. F. H. Ruppel. 2,321,860; June 15.
Building structure. W. E. Wilson. 2,321,568; June 15.
Bulb, Dispensing. L. T. Ward. 2,322,183; June 15.
Bulldozer. T. R. Paulsen. 2,321,615; June 15.
Bumper, Ball. D. E. Hooker and C. Livingston. 2,322,091; June 15.
Butadiene, Preparing. P. K. Frolich and B. M. Vanderbilt. 2,322,122; June 15.
Cabinet: *See*—
Sand blast cabinet.
Cabinet attachment, Medicine. R. H. Lathrop. 2,321,921; June 15.
Cabinets for refrigerators, Manufacture of. N. Erland af Kleen. 2,321,589; June 15.
Cable balancing method and apparatus. W. D. Buckingham. 2,321,649; June 15.
Cable sheaths, Making repairs and joints in. G. M. Bouton, G. S. Phipps, and E. E. Schumacher. 2,321,731; June 15.
Cage construction for roller bearings. R. R. Kilian. 2,322,143; June 15.
Calendar. M. Lichter. 2,321,607; June 15.
Cam, Adjustable. E. J. Kuebert. 2,322,031; June 15.
Cam developing mechanism. G. L. Atherholt, Sr., E. P. Saunders, and L. G. Graham. 2,321,789; June 15.
Camera attachment. M. Schwartz and W. Castedello. 2,321,945; June 15.
Can holder. C. Knight. 2,321,824; June 15.
Capsules, Filling. D. D. Smith. 2,322,169; June 15.
Car: *See*—
Mail car.
Tank car.
Carburetor. E. M. Bimberg. 2,322,109; June 15.
Carrier: *See*—
Glue clamp carrier.
Carton, Collapsible. J. O'Reilly. 2,321,848; June 15.
Cartons, Sealing of. H. H. Beasley. 2,321,729; June 15.
Cask for preserving liquids, Dispensing. F. C. Marza. 2,321,836; June 15.

Castings, Repairing fractured. L. B. Scott. 2,321,629; June 15.
Catalytic hydrogenation of alicyclic carboxylic acids. O. Schmidt. 2,322,098; June 15.
Catalytic hydrogenation of aliphatic carboxylic acid anhydrides. O. Schmidt. 2,322,097; June 15.
Catalytic hydrogenation of high molecular aliphatic carboxylic acids. O. Schmidt. 2,322,096; June 15.
Catalytic hydrogenation of organic compounds. O. Schmidt. 2,322,095; June 15.
Catalytic hydrogenation of organic compounds. O. Schmidt. 2,322,099; June 15.
Cellulose ether composition. C. B. Gilbert. 2,322,013; June 15.
Cement products, Making. G. D. King. 2,322,194; June 15.
Centrifugal separating method and apparatus. L. D. Jones. 2,321,918; June 15.
Ceramic bodies, Producing. W. L. C. van Zwet. 2,322,179; June 15.
Chain closure for shoes, Flexible. A. W. Koehler. 2,321,754; June 15.
Chain wheel. S. M. Renkin. 2,321,702; June 15.
Change speed mechanism. J. M. Hall and H. E. Tucker. 2,321,672; June 15.
Cheese, Making cheddar. C. B. Lane and B. W. Hammer. 2,322,148; June 15.
Circuit: *See*—
Direction signal circuit.
Protective circuit.
Circuit breaker. O. Jensen. 2,321,603; June 15.
Clamp: *See*—
Adjustable clamp.
Hose clamp.
Clamping means. J. A. Balcar. 2,322,107; June 15.
Cleaner: *See*—
Air cleaner.
Suction cleaner.
Clip: *See*—
Wall clip.
Clutch. E. Grace. 2,321,509; June 15.
Clutch. J. H. Wilson. 2,321,565; June 15.
Coated mold and molding concrete. F. A. Williams. 2,321,638; June 15.
Coated product and making same. R. G. Quinn. 2,321,937; June 15.
Coating composition. C. H. Parsons. 2,322,198; June 15.
Coating compositions, Manufacture of. L. Auer. 2,322,106; June 15.
Coating on magnesium, Protective. R. Shawcross. 2,321,948; June 15.
Coating process. R. G. Quinn. 2,321,938; June 15.
Coil, Heat exchange. R. W. Kritzer. 2,322,145; June 15.
Color photography. E. E. Jelley and P. W. Vittum. 2,322,027; June 15.
Color printing plates, Preparation of. W. Martin. 2,321,760; June 15.
Combined curtain and shade bracket. J. B. Cabral. 2,321,733; June 15.
Combined hammock and sleeping bag. A. O. Andersson. 2,321,966; June 15.
Commutator. L. F. Hemphill. 2,322,020; June 15.
Compressor. F. A. Lane. 2,321,828; June 15.
Compressor. W. C. Tyler. 2,321,781; June 15.
Concrete oil barge. F. R. Harris. 2,321,811; June 15.
Condensation product. E. Lieber and H. T. Rice. 2,322,036; June 15.
Condenser: *See*—
Electrolytic condenser.
Constant rate of load testing apparatus. D. C. Scott. 2,322,100; June 15.
Container: *See*—
Milk container.
Photographic film container.
Two-compartment container.
Container. J. M. Hothersall. 2,321,601; June 15.
Container. H. F. Rigerman. 2,321,857; June 15.
Container. H. Sebell. 2,321,946; June 15.
Contouring machine. F. J. Watts. 2,321,637; June 15.
Control arrangement for signal devices. A. M. Schmidt. 2,322,162; June 15.
Control device. E. E. Hewitt. 2,322,022; June 15.
Control device. W. A. Ray. 2,321,852; June 15.
Control for run-out tables of reversing mills. H. Wickler and H. Heymann. 2,322,080; June 15.
Control mechanism, Drive. J. S. Wearn. 2,321,960; June 15.
Control mechanism, Vehicle. C. D. Palmer and W. N. Lowe. 2,321,614; June 15.
Control system, Generator. H. Bany. 2,321,969; June 15.
Converter cartridge. R. C. Engel. 2,321,737; June 15.
Copolymers of p-chlorostyrene. E. C. Britton and W. J. Le Fevre. 2,321,896; June 15.
Cord-winding device. G. E. Lofgren. 2,322,038; June 15.
Coring device. B. W. Sewell. 2,322,064; June 15.
Costume for use in modeling dresses and the like. G. R. Cornell. 2,321,584; June 15.
Coupling: *See*—
Hose coupling.
Cover: *See*—
Display box cover.
Cover for cooler cabinets. H. D. King. 2,321,753; June 15.
Culinary utensil. L. G. Howlett. 2,321,749; June 15.
Curler, Featherweight hair. N. L. Solomon. 2,321,709; June 15.
Curler, Hair. V. M. Newman. 2,321,931; June 15.
Current distributor, Electric. G. H. Fritzinger. 2,321,805; June 15.
Cushion. G. H. Kaemmerling. 2,322,193; June 15.
Cutter: *See*—
Stalk cutter.
Cutter for citrous fruits. S. W. Alderfer. 2,321,725; June 15.
Cutting and pitting device, Fruit. A. B. Waelty. 2,321,881; June 15.
Cutting apparatus. A. R. Sorensen. 2,321,949; June 15.
Cutting implement, Hair. B. R. Nyhagen. 2,321,932; June 15.
Cyanoethyl alpha chloracrylate. J. G. Lichty. 2,322,035; June 15.
Cyclopentano-polyhydrophenanthrene series, Manufacture of compounds of the. W. Logemann. 2,321,690; June 15.
Dehydrator. E. L. Roberts. 2,321,858; June 15.
Derrick. T. B. Lewis. 2,322,150; June 15.
Device for cleaning side wall ports in cylinders. E. Wotton. 2,321,786; June 15.
Device for connecting sheet metal panels. H. W. Kost. 2,321,755; June 15.
Device for exhibiting transparencies. R. S. Hopkins. 2,322,023; June 15.
Device for indicating enuresis to prevent bed wetting. F. H. Jacobson. 2,321,683; June 15.
Device for the continuous fastening of slide fastener elements on slide fastener bands. A. Süsskind. 2,321,951; June 15.
Device for the control of inflatable membranes in milking machines. W. R. Cockburn. 2,321,995; June 15.
Device, Fusible electric protective. E. H. Taylor. 2,321,711; June 15.
Dial indicator attachment. R. W. Le Brun. 2,322,033; June 15.
Digger, Post hole. J. W. Houston. 2,321,680; June 15.
Direction signal circuit. R. N. Falge, G. W. Onksen, Jr., and H. I. Slone. 2,321,803; June 15.
Directional signal indicator. F. C. Sams. 2,322,158; June 15.
Dispenser for dry materials. C. Stanyer. 2,321,869; June 15.
Dispensing apparatus, Coffee. B. W. Gair. 2,321,906; June 15.
Dispensing package. T. Carr. 2,321,655; June 15.
Display box cover. L. D. Young. 2,321,883; June 15.
Display system. J. Fodor. 2,322,008; June 15.
Distributor rotor lock. J. L. Arthur and W. D. Schrope. 2,321,643; June 15.
Divider for meat boilers. S. E. Smith and C. L. Straeten. 2,322,199; June 15.
Dolly, Collapsible. W. C. Eddy. 2,321,901; June 15.
Domestic appliance. H. B. Hull. 2,321,815; June 15.
Door for freight carrying vehicles. J. J. Black. 2,322,088; June 15.
Drafting instrument. C. E. Savage. 2,321,862; June 15.
Draw bar. H. W. Zimmerman. 2,322,086; June 15.
Driven member for friction clutches. M. Katcher. 2,321,821; June 15.
Driving mechanism for aircraft parts. R. M. Nardone. 2,322,153; June 15.
Duplicating mechanism. T. F. Brackett. 2,321,984; June 15.
Dye and photographic emulsion containing the same. F. M. Hamer and R. J. Rathbone. 2,322,015; June 15.
Dye images, Producing. G. Ehrenfried. 2,322,001; June 15.
Dynamometer, Transmission. G. H. Walker. 2,322,182; June 15.
Eductor tank mixer. E. H. Atwood. 2,322,087; June 15.
Electric incandescent lamp. C. L. Fantur and E. E. Lehmann. 2,321,665; June 15.
Electric light fixture. J. W. Brooks. 2,322,112; June 15.
Electrical apparatus. A. E. Dodd. 2,321,662; June 15.
Electrical conductive coating. P. Davie and A. L. Halvorsen. 2,321,587; June 15.
Electrical regulating apparatus. L. K. Hedding. 2,322,130; June 15.
Electrode holder. M. Wells. 2,322,077; June 15.
Electrode, Welding. J. Winlock and J. J. MacKinney. 2,322,101; June 15.
Electrolytic condenser. K. G. Compton. 2,321,997; June 15.
Electrolytic water correction device. E. M. Butler. 2,321,797; June 15.
Electromagnet. M. R. Winkler. 2,321,569; June 15.
Electron discharge apparatus. C. A. Hedberg. 2,321,912; June 15.
Electron discharge device. A. E. Anderson. 2,321,886; June 15.
Emulsion polymerization of halogen-2-butadienes-1,3. K. Meisenburg, I. Dennstedt, and E. Zaucker. 2,321,693; June 15.
Enamel coating for ferrous metals. A. E. Chester. 2,321,656–7; June 15.
Engine: *See*—
Internal combustion engine.
Engine cylinders, Cooling. J. H. Wallace. 2,321,882; June 15.

Engine starting mechanism. R. M. Nardone. 2,322,154; June 15.
Erythrocytometer. C. A. Hausser and A. A. Hausser. 2,322,128; June 15.
Esters, Amino carboxylic acid. B. R. Harris. 2,321,595; June 15.
Esters of higher molecular weight carboxylic monoesters of glycols, Amino carboxylic acid. B. R. Harris. 2,321,594; June 15.
Evaporator. F. L. Bock. 2,322,110; June 15.
Excavating mechanism. J. J. Matus, Jr. 2,322,151; June 15.
Extraction process. F. J. F. van der Plas. 2,322,083; June 15.
Faceplate arrangement. B. E. Jones. 2,322,192; June 15.
Fast dyeings on fibrous materials, Producing. R. Huss. 2,321,816; June 15.
Fastener: *See*—
Hermetic separable fastener.
Fastener display device, Separable. P. T. Poutinen. 2,322,057; June 15.
Fatty acid-containing stock, Treating. R. H. Potts. 2,322,056; June 15.
Feed mechanism for punch presses, Automatic. W. M. Anderson. 2,321,788; June 15.
Feeder: *See*—
Poultry feeder.
Fibrous sheets, Coating. R. G. Quinn. 2,321,939; June 15.
File, Letter. J. M. Hurley. 2,321,682; June 15.
Film, Photographic. C. G. Lindquist. 2,322,037; June 15.
Films, Treatment of polyamide. G. B. Taylor. 2,321,635; June 15.
Filter. M. B. Heftler. 2,322,131; June 15.
Filter for milk or the like. H. Schriever. 2,321,776; June 15.
Finish for apparatus cases, Insulating. J. R. Bardsley. 2,321,727; June 15.
Fireplace furnace. H. L. Hardeman. 2,322,016; June 15.
Fishing reel. F. Burdick. 2,321,650; June 15.
Fishing reel. C. Kachel. 2,321,820; June 15.
Flare, Aerial. L. C. Sheldon. 2,321,866; June 15.
Flashlight synchronizing device. E. V. Soreny. 2,322,067; June 15.
Flier frame structure. T. L. McGovern. 2,322,125; June 15.
Fluid cooled electric discharge device. D. D. Hinman. 2,321,678; June 15.
Fluid meter. J. C. Woodford and A. G. Muskus. 2,321,785; June 15.
Fluid pressure compounding systems, Booster-assisted. S. Schell. 2,322,063; June 15.
Fluid pressure controlling apparatus. L. Sibal. 2,321,631; June 15.
Fluid pressure producing device. O. H. Fowler. 2,322,009; June 15.
Fluid pressure system. H. C. Swift. 2,322,071; June 15.
Fluid separator. W. H. Rowand and E. C. Huge. 2,321,628; June 15.
Fluid trapping device. S. Schnell. 2,322,062; June 15.
Fluid type inertia device. C. C. Farmer. 2,322,003; June 15.
Foot mechanism for shoe sewing machines, Presser. O. R. Haas. 2,321,596; June 15.
Force measuring apparatus, Portable. O. S. Carliss. 2,321,652; June 15.
Formaldehyde addition products and their preparation. J. F. Walker. 2,321,958; June 15.
Fruit bobbing apparatus. R. L. Ewald. 2,321,590; June 15.
Fruit inspecting and trimming table. B. L. Fleming. 2,322,190; June 15.
Frying, Deep fat. H. C. Black. 2,322,187; June 15.
Fuel injecting and metering means. E. T. Vincent. 2,322,181; June 15.
Fuel, Motor. H. G. M. Fischer. 2,322,007; June 15.
Funnel and method of filtering. G. Zarbo. 2,321,639; June 15.
Fur, Dry carroting. J. D. Sartakoff. 2,321,775; June 15.
Furnace: *See*—
Analytical furnace.
Fireplace furnace.
Game. H. F. Marlow. 2,321,835; June 15.
Game, Ball lifting. F. M. New. 2,322,155; June 15.
Game, Card. W. H. Connelly. 2,322,113; June 15.
Game charting device. J. A. McPhee. 2,321,692; June 15.
Garment hanger. E. E. Pfeiffer. 2,321,700; June 15.
Garment trimming machine. H. Lehde. 2,321,831; June 15.
Gas mixer. F. T. Jaeckel. 2,322,026; June 15.
Gas treating apparatus. W. J. Harshaw. 2,321,745; June 15.
Gaseous diffuser. R. Valdez. 2,321,879; June 15.
Gaseous fuel mixer. W. R. West. 2,321,719; June 15.
Gauge. J. A. Baracskai. 2,321,888; June 15.
Gear: *See*—
Steering gear.
Glaremeter. H. R. Higley. 2,321,915; June 15.
Glass, Manufacture of sheet. F. L. Bishop and L. P. Forman. 2,321,975; June 15.
Glue clamp carrier. E. J. Billstrom and A. W. Redin. 2,321,644; June 15.
Goods of or containing rubber or similar material, Production of. D. F. Twiss and P. H. Amphlett. 2,321,957; June 15.
Governor and decelerometer, Combination speed. E. P. Sexton. 2,322,065; June 15.
Grading and separating machine. H. V. Garcia. 2,321,742; June 15.
Granules and the like, Roofing and siding. N. P. Harshberger. 2,321,674; June 15.
Grill, Broiler. J. F. Hennessy. 2,321,676; June 15.
Ground coat, Porcelain enamel. G. H. McIntyre and E. E. Bryant. 2,321,763; June 15.
Guard for ships, Torpedo. W. E. Methvin. 2,321,842; June 15.
Guiding means for press platens. P. E. Flowers. 2,321,741; June 15.
Gun, Spray. E. W. Simpson. 2,322,165; June 15.
Handle and latch operating device. J. P. Maruri. 2,322,040; June 15.
Handling mechanism, Stick. H. Siemund. 2,321,632; June 15.
Hanger: *See*—
Boot hanger.
Garment hanger.
Harrow. P. L. Donovan. 2,321,663; June 15.
Heat treating, Process of. E. G. Gilbertson. 2,321,806; June 15.
Heater and generating unit for armored vehicles, Combination. J. M. Colby. 2,321,579; June 15.
Heating and ventilating system. R. J. Parsons. 2,322,054; June 15.
Heating means for shoe machine tools. W. S. Robson. 2,321,704; June 15.
Heating system. C. Ellis. 2,322,118; June 15.
Heating system. J. H. Robertson. 2,321,940; June 15.
Hermetic separable fastener. D. Marinsky and L. H. Morin. 2,321,926; June 15.
High chair bib. E. W. Gibson. 2,321,670; June 15.
Hoisting unit and control system therefor, Hydraulic. H. F. Vickers. 2,321,880; June 15.
Holder: *See*—
Can holder.
Trowel holder.
Electrode holder.
Home paper presser. W. H. Daubener. 2,321,802; June 15.
Hood for battery caps. C. N. Bergstrom. 2,321,892; June 15.
Hopper, Sawdust. E. Zimmerman. 2,321,965; June 15.
Hose clamp. J. A. Murray. 2,321,930; June 15.
Hose coupling. C. T. Smith. 2,322,168; June 15.
Hose couplings, Attaching. C. G. Butler. 2,321,991; June 15.
Housing construction for draft gears. R. M. Nelson. 2,321,843; June 15.
Housing for fuse devices. W. D. Kyle. 2,321,827; June 15.
Hub for pulleys or gears, Driving. J. M. Leake. 2,321,829; June 15.
Hull, Boat. H. R. Schlager. 2,322,160; June 15.
Hull construction. E. Bornscheuer. 2,321,980; June 15.
Hydraulic power actuator. H. C. Hettelsater. 2,322,133; June 15.
Hydrocarbon conversion. V. A. Kalichevsky and G. F. Hornaday. 2,321,604; June 15.
Hydrocarbon conversion process. W. L. Benedict. 2,321,972; June 15.
Hydrocarbon lubricant, Compounded. J. O. Clayton and B. B. Farrington. 2,321,577; June 15.
Hydrocarbon oil, Compounded. J. O. Clayton and B. B. Farrington. 2,321,575; June 15.
Hydrocarbon oils, Converting. R. K. Stratford and R. H. Smith. 2,322,070; June 15.
Hydrocarbons, Conversion of. V. N. Ipatieff and A. V. Grosse. 2,322,025; June 15.
Hydrocarbons, Refining. V. Mekler and J. H. Curtis. 2,231,841; June 15.
Hydrocarbons, Treating. C. E. Hemminger. 2,322,019; June 15.
Hydrogenation of alkoxy-substituted esters and products. D. J. Loder, W. F. Gresham and D. B. Killian. 2,321,608; June 15.
Hydrogenation treatment of oils and fats. D. J. Hennessy. 2,321,913; June 15.
Indicator: *See*—
Directional signal indicator.
Indicator. R. E. Conover. 2,321,581; June 15.
Indicator. D. W. Randolph. 2,321,855; June 15.
Indicator and control device, Remote. W. J. O'Brien and E. F. Andrews. 2,321,699; June 15.
Indicator for milking machines, Milk-flow. A. G. Perkins. 2,321,616; June 15.
Indicator valve. G. F. Houston. 2,321,679; June 15.
Information distribution system. M. L. Sanders. 2,321,944; June 15.
Injection unit. W. R. Tucker. 2,322,200; June 15.
Insulator, Bushing. T. F. Brandt. 2,321,793; June 15.
Internal combustion engine. A. C. Sampietro. 2,321,943; June 15.
Interpolymers, Purification of. R. M. Thomas and I. E. Lightbown. 2,322,072; June 15.

Ironing, finishing and folding operation, Shirt. J. W. Steele. 2,321,870; June 15.
Jack: *See*—
Automobile jack.
Joint for concrete structures. A. Tate. 2,321,873; June 15.
Kit. N. N. Glickman. 2,321,807; June 15.
Knife. H. I. Salsbury. 2,321,706; June 15.
Lamp: *See*—
Black-out lamp.
Electric incandescent lamp.
Lens and diaphragm assembly, Enlarger. C. Lee. 2,322,034; June 15.
Lens and prism system. L. F. Bischoff. 2,321,894; June 15.
Lens drilling mechanism. M. B. Kendis. 2,321,822; June 15.
Leveling machine. E. E. Winkley. 2,321,721; June 15.
License plate, Vehicle. J. W. Howell. 2,322,135; June 15.
Light fixture and ornament mounting, Combination. F. I. Szalla. 2,321,872; June 15.
Lighting fixture. W. M. Potter. 2,321,701; June 15.
Linoleum. S. A. Cohen and T. L. Malgaard. 2,321,996; June 15.
Liquid flow regulator. J. F. Gschwind. 2,322,102; June 15.
Liquids, Heating and deaerating of. J. R. McDermet. 2,321,839; June 15.
Loading tool. H. Persson. 2,321,770; June 15.
Lock: *See*—
Distributor rotor lock.
Locomotive. R. M. Ostermann. 2,321,613; June 15.
Log-cutting machine. J. Zandecki. 2,321,962; June 15.
Louver assembly, Adjustable. P. Johnson. 2,321,684; June 15.
Lubricant, Compounded. J. O. Clayton and B. B. Farrington. 2,321,576; June 15.
Lubricating composition. E. R. White. 2,322,184; June 15.
Machine for making and shaping cakes. H. G. Tatosian and R. A. Yohai. 2,321,634; June 15.
Machine for supplying inserts to packages. R. C. Talbot and F. L. Beyer. 2,322,175; June 15.
Magazine for firearms. J. R. Whittaker. 2,321,720; June 15.
Mail car. R. Boyd. 2,322,111; June 15.
Manifolding means. D. E. Kressler. 2,322,030; June 15.
Material handling system. F. B. Allen. 2,321,885; June 15.
Material working apparatus. C. Shannon. 2,321,707; June 15.
Measuring system. G. Keinath. 2,321,605; June 15.
Mechanical refrigerating system. R. W. Johnson and C. L. Aughey. 2,321,819; June 15.
Metal article and process, Rubber coated ferrous. G. C. Bailey and O. Johnson. 2,321,889; June 15.
Metal partition structure. E. W. Nicholson. 2,322,051; June 15.
Meter: *See*—
Fluid meter.
Meter. W. Leathers. 2,321,922; June 15.
Method and apparatus for crimping textile fibrous material. A. Lodge. 2,321,757; June 15.
Method and apparatus for detecting the presence of blood in eggs. W. D. Dooley. 2,321,899; June 15.
Method and apparatus for grading eggs. W. D. Dooley. 2,321,900; June 15.
Method and apparatus for removing coke from coking chambers. H. C. Kuhn. 2,322,146; June 15.
Method and apparatus for separating solids from fluids. S. W. Briggs. 2,321,985; June 15.
Method and apparatus for treating industrial wastes and sewage. B. K. Hartman. 2,322,017; June 15.
Method and apparatus for treating wells. O. Barstow. 2,321,970; June 15.
Method and machine for severing tubes. W. B. Clifford. 2,321,735; June 15.
Method and optical system for color processes. J. G. Capstaff. 2,321,993; June 15.
Micrometer. E. C. Shoemaker. 2,322,167; June 15.
Milk container. J. F. Courteny. 2,321,660; June 15.
Mineral concentration. D. W. Jayne, Jr., H. M. Day and S. E. Erickson. 2,322,201; June 15.
Mineral oil, Compounded. B. B. Farrington, J. O. Clayton and J. T. Rutherford. 2,321,804; June 15.
Mirror. W. F. Brown. 2,321,987; June 15.
Mixer: *See*—
Eductor tank mixer.
Fuel mixer.
Gas mixer.
Mixing device. H. C. Porter. 2,322,157; June 15.
Molding compounds. M. L. Macht and D. A. Fletcher. 2,321,759; June 15.
Mono-filaments, Production of. K. Heymann. 2,321,746; June 15.
Monofilaments, Production of. W. I. Newhard. 2,322,094; June 15.
Mount for striking bags, Swivel. A. C. Wright. 2,322,081; June 15.
Mount, Motor. N. E. Wahlberg. 2,321,715; June 15.
Mounting for electrical and other devices. E. N. Lightfoot and E. W. Seeger. 2,321,689; June 15.
Mousetrap. H. J. Peterson. 2,321,617; June 15.
Navigation instrument, Aircraft. W. P. Lear. 2,321,606; June 15.
Navigational guide system. G. V. Nolde. 2,321,698; June 15.
Noise reduction in telephone transmission systems. J. T. L. Brown. 2,321,986; June 15.
Nut cracking machine. H. S. Buckman. 2,321,795; June 15.
Oil composition, Mineral. R. C. Moran, E. E. Reid, and L. A. Hamilton. 2,322,093; June 15.
Oil, Compounded lubricating. J. O. Clayton, and B. B. Farrington. 2,321,578; June 15.
Oil cooler. A. R. Mormile. 2,322,047; June 15.
Oil filter. P. S. Allam. 2,321,884; June 15.
Oil-soluble phenolic resin and preparing same. I. Rosenblum. 2,321,626; June 15.
Oils, Fractionating hydrocarbon. W. W. Kraft and W. L. Bass. 2,321,826; June 15.
Oils, Lubricating. L. L. Davis, B. H. Lincoln, and G. D. Byrkit. 2,322,116; June 15.
Oleaginous preparation. H. C. Black. 2,322,186; June 15.
Olefinic interpolymerization process and product. R. M. Thomas and W. J. Sparks. 2,322,073; June 15.
Operating means for swinging closures. H. Cordrey and W. J. Duvall. 2,321,800; June 15.
Operator, Catch. G. W. Aldeen and E. Rorchers. 2,321,724; June 15.
Orthopter. C. G. Boatright. 2,321,977; June 15.
Outlet box cover and fixture support. G. O. Adkins. 2,321,640; June 15.
Overalls, Buoyant insulating and protective. E. C. Craig. 2,321,583; June 15.
Overcasting device for sewing machines. J. Hickey. 2,321,747; June 15.
Overload relay switch. H. E. Schleicher. 2,322,161; June 15.
Oxidation of perchloroethylene. F. W. Kirkbride. 2,321,823; June 15.
Package. O. H. Hultin. 2,321,681; June 15.
Package. W. H. Taylor. 2,321,952; June 15.
Packing device. C. J. McCoy and W. O. Butler. 2,321,927; June 15.
Panel. G. B. Starie. 2,322,068; June 15.
Panel construction, Refractory. J. H. Henzel. 2,321,813; June 15.
Panel or switch box. G. R. Smith. 2,321,868; June 15.
Paper, Making. J. A. Bicknell. 2,322,185; June 15.
Papermaking apparatus. W. M. Leeson. 2,321,830; June 15.
Pen, Drafting. F. G. Eubanks. 2,322,002; June 15.
Phenolic compounds. B. C. Pratt. 2,321,620; June 15.
Photographic apparatus. A. J. Kunze. 2,322,032; June 15.
Photographic apparatus. I. V. Moulin. 2,321,697; June 15.
Photographic bleach-out layer. S. S. Fierke, P. W. Vittum, and L. S. Wilder. 2,322,005; June 15.
Photographic emulsion. H. C. Yutzy. 2,322,085; June 15.
Photographic estimating and calculation device. J. W. McFarlane and C. E. Moses. 2,322,044; June 15.
Photographic film container. A. J. Braun. 2,321,794; June 15.
Photographic filter and antihalation layer. S. S. Fierke, P. W. Vittum, and L. S. Wilder. 2,322,006; June 15.
Photographic process. C. L. A. Wynd and G. T. Lane. 2,322,082; June 15.
Pick handle protector. E. Tyler. 2,322,178; June 15.
Picture display box. R. R. Whiting. 2,322,078; June 15.
Pipe coupling means. W. H. Stout. 2,321,778; June 15.
Piston. O. H. Fowler. 2,322,010; June 15.
Piston pin retainer. R. W. Jenny. 2,322,138; June 15.
Piston ring gas seal. M. W. Beardsley. 2,321,791; June 15.
Plants, Stimulating. R. N. Du Puis and C. W. Lenth. 2,321,736; June 15.
Plate and driving spring for machine guns, Back. S. G. Green and E. W. Hopkins. 2,321,592; June 15.
Plate, Clutch. O. Rose. 2,321,941; June 15.
Plotting device. A. L. Thurston and B. Sweeney. 2,321,955; June 15.
Plow, Rock. C. A. Cox and J. S. Holland. 2,322,115; June 15.
Polish and making it. L. I. Smith. 2,322,066; June 15.
Polymeric materials. H. S. Rothrock. 2,321,942; June 15.
Pompon making device and process. S. J. Samuels. 2,322,060; June 15.
Poultry feeder. J. S. Troyer. 2,321,877; June 15.
Pouring spout and sifter, Combination. A. Read. 2,321,856; June 15.
Powder, Regeneration of. C. W. Tyson. 2,322,075; June 15.
Power belt construction. C. M. Conradson. 2,321,580; June 15.

Power shovel and truck, Combined. C. W. Shippee. 2,321,630; June 15.
Power take-off. E. J. Karp. 2,321,751; June 15.
Printing apparatus. M. A. Wells. 2,321,718; June 15.
Printing device. L. T. Ash. 2,321,968; June 15.
Process for gas separation. G. T. Felbeck. 2,321,666; June 15.
Process for plugging formations. C. H. Mathis and C. Rampacek. 2,321,761; June 15.
Process for use in coating metal surfaces. A. E. Chester. 2,321,658; June 15.
Propeller, Airplane. C. J. Gentry. 2,321,668; June 15.
Protective circuit. C. P. Clare and C. W. Chillson. 2,322,114; June 15.
Protector: *See*—
Pick handle protector.
Pulp molding. C. J. Chaplin. 2,321,574; June 15.
Pump: *See*—
Rotary pump.
Rotating pump.
Sludge pump.
Purge system for refrigerative circuits. W. E. Zieber. 2,321,964; June 15.
Putter, Golfer's. R. Ruemelin. 2,321,773; June 15.
Rack: *See*—
Barrel rack.
Radio signaling system. J. B. Careway, Jr. 2,321,651; June 15.
Rail bond. E. P. Smith. 2,321,867; June 15.
Railway car truck. K. F. Nystrom and V. L. Green. 2,321,845; June 15.
Railway signaling system. R. R. Kemmerer. 2,322,142; June 15.
Railway signaling system. H. A. Thompson. 2,321,712; June 15.
Rake. C. F. Hess. 2,322,132; June 15.
Razor. S. W. Boatwright. 2,321,895; June 15.
Razor blades, Packaging of. N. P. Billing. 2,321,570; June 15.
Razor, Safety. N. P. Billing. 2,321,571; June 15.
Reaction product of a polymethylol melamine and a halogenated acetamide. G. F. D'Alelio. 2,321,586; June 15.
Receptacle filler. F. D. Chapman. 2,321,994; June 15.
Recovery of by-products from waste pickle liquors. W. W. Hodge. 2,322,134; June 15.
Recovery of tocopherol (vitamin E) and valuable by-products from vegetable oils. W. D. McFarlane, W. E. Parker. 2,321,928; June 15.
Rectifier, Full wave. W. W. Watrous, Jr. 2,321,959; June 15.
Reel: *See*—
Fishing reel.
Refining process. A. P. Hewlett and G. E. Phillips. 2,321,914; June 15.
Refrigerating apparatus. A. A. Kucher. 2,321,687–8; June 15.
Refrigerating apparatus. L. F. Miller. 2,321,695; June 15.
Refrigerating apparatus. L. A. Philipp. 2,321,771–2; June 15.
Refrigerating apparatus. E. F. Schweller. 2,321,865; June 15.
Refrigeration system, Absorption. W. R. McGinnis. 2,321,929; June 15.
Registering mechanism. J. E. Fernly. 2,321,739; June 15.
Regulator: *See*—
Liquid flow regulator.
Relay. F. J. Marco, C. G. Anderson, and F. A. Brandstrom. 2,321,834; June 15.
Relay. A. G. Stimson. 2,322,069; June 15.
Relay. H. M. Stoller. 2,321,710; June 15.
Relay, Space discharge oscillating. L. M. Potts. 2,321,618; June 15.
Release mechanism for window sashes and the like, Automatic. C. C. Gardner. 2,321,591; June 15.
Remote control of parts actuated through flexible power transmission mechanisms. R. Tondeur. 2,321,780; June 15.
Repeater apparatus, Start-stop. L. M. Potts. 2,321,619; June 15.
Reproduction process and apparatus. E. Jahoda. 2,322,136; June 15.
Resin, Phenol aldehyde. F. M. Murdock. 2,321,766; June 15.
Resin, Phenol-formaldehyde. H. S. Rothrock. 2,321,627; June 15.
Resin plastic composition, Synthetic. E. C. Britton and G. H. Coleman. 2,321,897; June 15.
Resin, Rosin base. F. G. Oswald. 2,322,197; June 15.
Resinous compositions and their production. I. W. Humphrey. 2,321,750; June 15.
Resins, Manufacture of cast phenolic. C. S. Weber, S. B. Luce and F. M. Murdock. 2,321,783; June 15.
Rest structure, particularly for use in bath tubs. F. Landauer. 2,322,147; June 15.
Reverse countersink. N. L. Kearney and H. L. Richardson. 2,322,141; June 15.
Robot vehicle. W. S. Tandler and P. M. Mazur. 2,321,874; June 15.
Roof spraying machine. T. F. Brackett. 2,321,983; June 15.
Rotary hydraulic machine. R. E. Sharp and H. Francis, Jr. 2,321,950; June 15.
Rotary pump. J. W. Gurley. 2,321,810; June 15.
Rotary pump. J. Marco. 2,321,609; June 15.
Rotating pump. A. R. Pato. 2,321,934; June 15.
Router. P. S. Hawkins. 2,322,129; June 15.
Rubber lining for receptacles, Hard. H. J. Schelhammer and W. Hiemann. 2,321,777; June 15.
Safety valve. E. S. Kaelin. 2,322,139; June 15.
Sampling and metering device. T. A. Huber. 2,322,018; June 15.
Sand blast cabinet. R. Ruemelin. 2,321,774; June 15.
Saw, Drag. W. G. Scheel. 2,321,863; June 15.
Scaffold ledge bracket. F. O. Ingerman. 2,321,916; June 15.
Scale, Bathroom. E. M. Cummings. 2,321,585; June 15.
Scanning apparatus. L. C. McNutt. 2,322,203; June 15.
Screen unit. A. Hauge. 2,321,675; June 15.
Screw rotor. C. O. J. Montelius. 2,321,696; June 15.
Screw stick heads, Burnishing. M. R. Hutchison, Jr. 2,322,024; June 15.
Screw thread lead testing machine. R. S. Fox. 2,321,903; June 15.
Scrub-bucket assembly. M. A. Bowers. 2,321,981; June 15.
Seal, Rotary. R. Stevenson. 2,321,871; June 15.
Seat: *See*—
Adjustable seat.
Bicycle handle bar seat.
Separating and grading machine. R. E. Thurner. 2,322,074; June 15.
Separation of mixtures of methanol and butyraldehyde. J. H. Hopkins and B. M. Marks. 2,321,748; June 15.
Separator: *See*—
Fluid separator.
Service stopper for gas mains, branch pipe connections, and the like. A. S. Foster. 2,321,667; June 15.
Serving implement. R. R. Miller. 2,322,046; June 15.
Sewing machine, Button. L. G. Burkey. 2,321,990; June 15.
Shade and color contrasts in textile fabrics, Producing. W. F. Bird. 2,321,974; June 15.
Shade, Lamp. A. Miller. 2,322,045; June 15.
Shaping machine, Vertical circular. W. F. Groene. 2,322,127; June 15.
Sharpener, Lawn mower. J. R. Tedd. 2,321,953; June 15.
Sharpener, Scissors. V. Trapani and H. R. Krohn. 2,321,956; June 15.
Sheeting, Nontacky adhesive coated. G. F. Nadeau and C. B. Starck. 2,322,048; June 15.
Shelf. H. E. Rosebrook and O. E. Norberg. 2,321,859; June 15.
Ship propulsion. E. G. Grant. 2,322,014; June 15.
Shock absorber. E. W. Johnson. 2,321,818; June 15.
Shoe and heel construction. W. Clausing. 2,321,734; June 15.
Shoe and shoe bottom unit and making the same. C. D. Turner. 2,321,713; June 15.
Shoe bottom coating machine. W. L. MacKenzie. 2,321,691; June 15.
Shoe tree, Adjustable. A. J. Palardy. 2,322,053; June 15.
Skate. G. E. Schmidt. 2,322,163; June 15.
Slip ring assembly. H. G. French. 2,322,011; June 15.
Sludge pump. H. P. Erickson. 2,322,120; June 15.
Soap, Manufacture of. L. Sender and J. H. Wilson. 2,321,947; June 15.
Socket for fluorescent lamps, Lamp. L. A. Pope. 2,321,851; June 15.
Solids from liquids, Centrifugally separating. A. U. Ayres. 2,321,887; June 15.
Solvent, Dewaxing. E. Arundale. 2,321,967; June 15.
Solvents and wood preservative, Production of. J. E. Harvey, Jr. 2,321,909; June 15.
Sound recording means for motion picture cameras. H. M. Kirschbaum. 2,322,144; June 15.
Spanish moss puller. I. C. Scudder. 2,322,164; June 15.
Spark plug adjusting device. H. Rabezzana and A. J. Battey. 2,321,854; June 15.
Spark plug and making the same. T. G. McDougal. 2,321,840; June 15.
Spindle support. W. J. Elvin and C. L. Hivick. 2,321,664; June 15.
Spool. W. J. Pasinski. 2,322,055; June 15.
Spray machine, Paint. T. F. Brackett. 2,321,982; June 15.
Spring frame assembly. W. E. Hutton. 2,321,817; June 15.
Spring structure. E. L. Bass. 2,321,790; June 15.
Spring wheel. E. R. Thorsness. 2,321,954; June 15.
Stalk cutter. J. O. Watson. 2,322,076; June 15.
Staple for stapling machine. L. Obstfeld. 2,321,847; June 15.
Starter, Engine. J. F. Koepfle. 2,321,686; June 15.
Starter, Motor. H. P. Chandler. 2,321,798; June 15.
Steam electric sadiron. B. Altman and P. Stiller. 2,322,103; June 15.
Steering gear. J. G. Douglas. 2,322,000; June 15.

Stems, Making molded. C. A. Horn. 2,321,600; June 15.
Stimulator, Variable frequency. H. V. Connerty and W. H. Johnson. 2,321,659; June 15.
Stoker of underfeed type. S. C. Gebert. 2,322,124; June 15.
Storage tank. W. Black. 2,321,976; June 15.
Strip uncoiler. E. R. Tyrrell. 2,321,878; June 15.
Strip, Weather. C. V. Mancini. 2,321,924–5; June 15.
Structural unit. W. E. Wilson. 2,321,566–7; June 15.
Substance containing unsaturated methylene groups, Interpolymerized. C. E. Barnes. 2,321,728; June 15.
Suction cleaner. D. J. Brunner, Jr. 2,321,648; June 15.
Sulphapyridine process. E. H. Northey and L. H. Dheim. 2,322,196; June 15.
Sulphonamide, Polymeric. G. J. Berchet. 2,321,890–1; June 15.
Sulphur dyestuffs. W. Zerweck and W. Hechtenberg. 2,321,787; June 15.
Support: *See*—
Outlet box cover and fixture support. Spindle support.
Support and drain, Cup. R. A. Nicholson. 2,321,844; June 15.
Support for relatively movable parts. H. B. Sklar; 2,321,708; June 15.
Suppository or bougie. G. C. Miller. 2,321,694; June 15.
Switch: *See*—
Overload relay switch. Time delay glow switch.
Table: *See*—
Fruit inspecting and trimming table.
Table top, Game. M. Greitzer. 2,322,089; June 15.
Tallocl esters of amino alcohols. D. W. Jayne, Jr., and H. M. Day. 2,322,202; June 15.
Tank: *See*—
Storage tank.
Tank car. J. A. Crista. 2,321,898; June 15.
Tape driving system for magnetic sound recording machines and the like. H. S. Heller, D. E. Ross, and F. J. Lilly. 2,321,812; June 15.
Tape, Measuring. A. W. Keuffel and D. E. Whitlock. 2,321,920; June 15.
Telemetering system. H. I. Becker. 2,321,971; June 15.
Telephone system. M. A. Logan. 2,321,758; June 15.
Telephone system. E. Vroom. 2,321,714; June 15.
Telephone system, Automatic. G. R. Eaton. 2,321,588; June 15.
Telephoto objective. H. F. Bennett. 2,321,973; June 15.
Television. J. J. Moynihan. 2,321,611; June 15.
Temperature responsive device. J. A. Obermaier. 2,321,846; June 15.
Template. I. F. Johnson. 2,322,028; June 15.
Terminal box. W. Dalton. 2,321,999; June 15.
Terpene derivative. J. S. Borglin. 2,321,978–9; June 15.
Testing apparatus. H. Persson. 2,321,769; June 15.
Testing apparatus, Lead. R. Temple. 2,321,875; June 15.
Testing machine, Hardness. W. D. Wallace. 2,321,717; June 15.
Thread, Manufacturing. S. W. Alderfer. 2,321,726; June 15.
Throttle control for internal combustion engines. F. C. Mock. 2,322,195; June 15.
Time delay glow switch. R. F. Hays, Jr. 2,321,910; June 15.
Timing apparatus. M. R. Thoma. 2,321,876; June 15.
Tool: *See*—
Loading tool.
Tool mechanism for gear-cutting machines. R. E. Moyer. 2,321,765; June 15.
Toy, Aerial. T. R. Frazier. 2,321,904; June 15.
Traction and antiskid device for vehicles. H. F. Spatz. 2,322,171; June 15.
Transmission system, Speech. M. K. Zinn. 2,321,723; June 15.
Trailer, Tandem wheel. G. B. Schoenrock. 2,321,864; June 15.
Tray, Freezing. H. D. Geyer. 2,321,669; June 15.
Tray, Ice. C. R. Carney. 2,321,654; June 15.
Triazone ring compounds. W. J. Burke. 2,321,989; June 15.
Trowel holder. F. P. Moran. 2,322,152; June 15.
Truck construction. G. K. Newell. 2,322,050; June 15.
Truck grader, Motor vehicle under-body. Le G. H. Lull. 2,321,833; June 15.
Tubular axle drive. R. P. Lewis. 2,322,149; June 15.
Two-compartment container. W. W. Crouch and A. W. M. Dickins. 2,321,998; June 15.
Undergarment. P. Snyder. 2,322,170; June 15.
Valve: *See*—
Indicator valve. Safety valve.
Valve. F. W. Guibert and F. B. Fuller. 2,321,743; June 15.
Valve actuating mechanism. L. R. Spencer. 2,322,172–4; June 15.
Valve construction. J. C. Hobbs. 2,321,597; June 15.
Valve mechanism, Flush. C. S. Garratt, Jr. 2,322,123; June 15.
Valve structure. W. A. Ray. 2,321,853; June 15.
Vapor scrubbing system. H. S. Bimpson and C. W. Bilbe. 2,321,893; June 15.
Vehicle: *See*—
Robot vehicle.
Vehicle headlamp unit. V. J. Roper. 2,321,705; June 15.
Vehicle heating apparatus, Automotive. E. L. Mayo. 2,322,041; June 15.
Vending machine. H. E. Anthony. 2,321,642; June 15.
Ventilator or cowl, Chimney. V. J. Kennedy. 2,321,919; June 15.
Violin string adjuster. M. Jauch. 2,322,137; June 15.
Visual color comparator. E. M. Zelony. 2,321,722; June 15.
Volumeter, Inertia stabilized. E. C. Lunda and R. E. Wald. 2,322,039; June 15.
Waistcoat attachment. A. Osth. 2,321,768; June 15.
Wall clip. F. La Grotta. 2,321,671; June 15.
Washing machine. L. Andersen. 2,321,041; June 15.
Washing machine. T. B. Chace. 2,321,573; June 15.
Waste disposal unit. J. H. Powers. 2,322,058; June 15.
Water correction device. E. M. Butler. 2,321,796; June 15.
Wax modifying agent and making the same. P. K. Frolich. 2,322,012; June 15.
Weather strip. J. S. Benson. 2,321,730; June 15.
Weather stripping. L. F. Julien. 2,322,020; June 15.
Weighing apparatus. C. Best. 2,322,108; June 15.
Welt feeding device. A. R. Morrill. 2,321,610; June 15.
Wheel: *See*—
Chain wheel. Spring wheel.
Wheel dresser and gear form checker, Gear grinding. S. J. Kopec. 2,321,825; June 15.
Wheel suspension, Individual. J. W. Leighton. 2,321,832; June 15.
Winch assemblies. H. C. French. 2,321,905; June 15.
Window shade attaching means. S. J. Johnson. 2,322,092; June 15.
Wire drawing apparatus. N. H. Nye. 2,321,612; June 15.
Wire terminal, Spark plug. E. K. von Mertens. 2,321,782; June 15.
Wood treatment. C. A. Owens. 2,321,849; June 15.
Yeast food. L. A. Hall. 2,321,673; June 15.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

JUNE 15, 1943

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CLASS 8

A.P.C. 197,895. Bleaching textile fibre. Ehrhart Franz, Berlin-Frohnau, Germany. Published June 15, 1943.

CLASS 13

A. P. C. 416,888. Gas removing device for electric furnaces. Leon Michelat, Pamiers, France. Published June 15, 1943.

CLASS 18

A.P. C. 247,986. Manufacture of rubber powders, rubber dispersions, ebonite powders and the like. Jan Willem Van Dalfsen, Buitenzorg, Java, Netherlands East Indies. Published June 15, 1943.

A.P.C. 345,220. Method and apparatus for the production of curled threads from cellulose acetate. Georg Rutishauser, Basel, Switzerland. Published June 15, 1943.

A.P.C. 391,198. Manufacture of molded reinforced objects. Eugene Adrien Chapuis, Oyonnax, France. Published June 15, 1943.

CLASS 21

A.P.C. 367,306. Applying chemicals to plants. Kurt Schutz, Leipzig, Germany. Published June 15, 1943.

CLASS 22

A.P.C. 387,531. Molds. Ernest Mayer, Leipzig, Germany. Published June 15, 1943.

A.P.C. 414,208. Method of applying a lining to machine elements. Ernst Meier, Senior, Braunschweig, Germany. Published June 15, 1943.

CLASS 23

A.P.C. 727,832. Process for the production of salts by base-exchanging substances. Henry Johnsen, Notodden, Norway. Published June 15, 1943.

A.P.C. 399,397. Method for carrying out base exchanging processes. Antonius Foss, Heggeli, near Oslo, Norway. Published June 15, 1943.

CLASS 25

A.P.C. 422,459. Agglomerating mixtures of solid material and liquid. Georges Passelecq, Paris, France. Published June 15, 1943.

CLASS 36

A.P.C. 289,028. Shoes and the like. Serge Brandel et al., Villefrancha-sur-Mar, Alpes-Maritimes, Paris, France. Published June 15, 1943.

CLASS 41

A.P.C. 366,503. Process for plastically reproducing objects. Isao Morioka, Tokyo, Japan. Published June 15, 1943.

CLASS 44

A.P.C. 152,413. Heating process. Alfred Schmid, Berlin-Dahlem, Germany. Published June 15, 1943.

CLASS 51

A.P.C. 420,312. Machines for manufacturing rotation or revolution bodies. Eugen Fouquet, Clermont-Ferrand, France. Published June 15, 1943.

A.P.C. 420,313. Grinding machines. Eugen Fouquet, Clermont-Ferrand, France. Published June 15, 1943.

CLASS 52

A.P.C. 393,137. Explosive and method of making the same. Charles Baron, Grenoble, France. Published June 15, 1943.

CLASS 53

A.P.C. 322,224. Filter-machines for coffee. Octave A. De Matteis, New York, N. Y. Published June 15, 1943.

CLASS 60

A.P.C. 266,723. Hydraulic power transmission apparatus. Piero Mariano Salerni, Cox Green, near Maidenhead, England. Published June 15, 1943.

A.P.C. 289,763. Hydraulic power transmission apparatus. Piero Mariano Salerni, Cox Green, Berkshire, England. Published June 15, 1943.

CLASS 73

A.P.C. 251,010. Apparatus for testing and indicating the condition of vehicle brakes. Emile Piquerez, Saint Cloud, France. Published June 15, 1943.

A.P.C. 260,164. Fluid delivery meters. Emile Piquerez, Saint-Cloud, France. Published June 15, 1943.

A.P.C. 283,196. Psychrometers. Jules Crapez, Mons-en-Baroeul, France. Published June 15, 1943.

CLASS 74

A.P.C. 318,000. Device for directing and calculating apparatus. Karl Papello et al., Jena, Germany. Published June 15, 1943.

A.P.C. 339,411. Gradual speed changing device. Umberto Finzi, Toulouse, France. Published June 15, 1943.

A.P.C. 373,705. Assembly of devices permitting a rational transmission of mechanical power, particularly fitted for motor-cars. Baptistin Branda, Marseille, France. Published June 15, 1943.

A.P.C. 444,734. Multi-drive gear box for accessories on board aircraft. Charles Raymond Waseige, Saint-Etienne (Loire), France. Published June 15, 1943.

CLASS 75

A.P.C. 369,749. Magnesium base alloys. Franz Sauerwald et al., Breslau, Germany. Published June 15, 1943.
A.P.C. 369,824. Magnesium base alloys. Franz Sauerwald et al., Breslau, Germany. Published June 15, 1943.
A.P.C. 428,794. Process for the manufacture of metallic glucinum and of its alloys. Robert Andre Gadeau, Saint Jean De-Maurienne, France. Published June 15, 1943.

CLASS 82

A.P.C. 395,450. Automatic slicing lathes. Georges Emile Cuttat, Paris, France. Published June 15, 1943.
A.P.C. 395,451. Lathes for metal jobs. Georges Emile Cuttat, Paris, France. Published June 15, 1943.

CLASS 85

A.P.C. 190,868. Improvements relating to tubular rivets and like hollow elements. Jacques Francois Gabriel Chobert, Saint-Etienne, France. Published June 15, 1943.

CLASS 88

A.P.C. 395,494. Process and device for obtaining an appearance of relief in the projection of still or moving images. Louis Lumiere, Bandol, France. Published June 15, 1943.

CLASS 91

A.P.C. 92,371. Manufacture of materials comprising artificial resins. Paul Vogele, Berlin-Dahlem, Germany. Published June 15, 1943.
A.P.C. 137,892. Production of metallic surface layers. Max Auwarter, Hanau-on-the-Main, Germany. Published June 15, 1943.

CLASS 92

A.P.C. 180,047. Process for the manufacture of safety paper. Adolf Schroth, Neu-Kaliss, Germany. Published June 15, 1943.
A.P.C. 429,343. Cellulose boiling. Thor Carlander, Paris, France. Published June 15, 1943.

CLASS 94

A.P.C. 326,823. Ground facing. Jean Bedin, Saint-Cyr-sur-Loire, France. Published June 15, 1943.

CLASS 99

A.P.C. 159,323. Dispersions. Boerge Petersen, Juelsminde, Denmark. Published June 15, 1943.
A.P.C. 184,967. Plastic dispersions. Herbert Schou, Juelsminde, Denmark. Published June 15, 1943.
A.P.C. 270,845. Emulsifiers and the production of emulsions. Anders Herlow, Grindsted, Denmark. Published June 15, 1943.

CLASS 101

A.P.C. 310,443. Address printing machine. Joseph Krell, Berlin-Zehlendorf, Germany. Published June 15, 1943.
A.P.C. 399,913. Address printing plate. Richard Rose, Berlin, Germany. Published June 15, 1943.

CLASS 102

A.P.C. 254,521. Aquatic torch or light buoy. Antoine Thiebault, Marseilles, France. Published June 15, 1943.

CLASS 106

A.P.C. 235,108. Manufacture of synthetic mineral products. Wladimir Diterichs, Paris, France. Published June 15, 1943.
A.P.C. 262,232. Method for preparing non-inflammable paints, lac-varnishes, lacquers, coatings and the like. Johannes Hubertus Casparus Penners, Amsterdam, Netherlands. Published June 15, 1943.

CLASS 117

A.P.C. 326,801. Process for causing luminescent substances to adhere to glass walls. Andre Claude, Paris, France. Published June 15, 1943.
A.P.C. 342,712. Sizing materials for sizing textile threads of all kinds. Louis Antoine Billion, Lyon, France. Published June 15, 1943.

CLASS 123

A.P.C. 286,744. Cylinders of internal-combustion engines with combustion and whirling chambers in the pistons. Luis Leizaola, Anglet, France. Published June 15, 1943.
A.P.C. 374,800. Devices feeding with air the explosion chamber of internal combustion motors. Andre Perreau, Lyon, France. Published June 15, 1943.
A.P.C. 381,656. Free-piston engine with oppositely moving masses. Franz Neugebauer, Munich-Allach, Germany. Published June 15, 1943.
A.P.C. 431,003. Internal combustion engine. Victor Breslav, Brussels, Belgium. Published June 15, 1943.

CLASS 128

A.P.C. 388,441. Medicinal applicator and dispenser. James P. Robinson, Tokyo, Japan. Published June 15, 1943.

CLASS 131

A.P.C. 168,181. Devices for the conveyance of cigars during their manufacture. Constantin Friedrich Rober, Dresden, Germany. Published June 15, 1943.

CLASS 148

A.P.C. 247,661. Process for treatment of metallic surfaces. Rene Marie Berthier, Chambery, France. Published June 15, 1943.

CLASS 152

A.P.C. 456,846. Elastic wheel. Armand Raymond Ernest Andre Perreau, Lyon, France. Published June 15, 1943.

CLASS 153

A.P.C. 272,281. Methods and devices for shaping pieces. Felix Amiot, Neuilly-sur-Seine, France. Published June 15, 1943.

CLASS 154

A.P.C. 106,014. Stiffeners for articles of apparel. Willy Steikens, Koln-Marienburg, Germany. Published June 15, 1943.
A.P.C. 178,648. Semi-stiff multi-layer fabrics and a process of preparing them. Franz Streng, Frankfurt-am-Main, Germany. Published June 15, 1943.
A.P.C. 224,636. Coating method. Fritz Schmidt, Troisdorf, Germany. Published June 15, 1943.
A.P.C. 233,783. Laminated products. Conrad Herrmann, Wuppertal-Elberfeld, Germany. Published June 15, 1943.
A.P.C. 254,744. Protective material against war gases and chemicals and methods of making the same. Gerhard Van Der Veen, The Hague, Holland. Published June 15, 1943.
A.P.C. 281,735. Method of firmly uniting rubber with inserts or applied layers of fibrous material. Otto Giese, Fulda, Germany. Published June 15, 1943.

CLASS 167

A.P.C. 188,058. Preparations for protection from insects. Eduard Dorr et al., Wuppertal-Elberfeld, Germany. Published June 15, 1943.

A.P.C. 188,059. Preparations for protection from insects. Eduard Dorr et al., Wuppertal-Elberfeld, Germany. Published June 15, 1943.

CLASS 169

A.P.C. 309,471. Method of extinguishing fire. Karl Friedrich, Berlin-Wilmersdorf, Germany. Published June 15, 1943.

CLASS 171

A.P.C. 388,811. Current-generating gear for pocket electric lamps. Georges Bardin, Tournus, France. Published June 15, 1943.
A.P.C. 427,480. Charging apparatus for network connection, for accumulator pocket lamps. Ewald Zdansky, Berlin, Germany. Published June 15, 1943.

CLASS 172

A.P.C. 278,941. Device for the speed regulation of electric commutator machines. Placido Flury, Novara, Italy. Published June 15, 1943.

CLASS 175

A.P.C. 421,996. Apparatus for interrupting alternating current. Vitezslav Havlicek et al., Plzen, Bohemia and Moravia. Published June 15, 1943.

CLASS 178

A.P.C. 399,706. Arrangement for ultra short waves. Walter Dallenbach, Berlin, Germany. Published June 15, 1943.
A.P.C. 428,971. Telecinema transmission device. Henri De France, Lyon, France. Published June 15, 1943.
A.P.C. 428,972. Telecinema transmission. Henri De France, Lyon, France. Published June 15, 1943.
A.P.C. 428,973. Television device. Henri De France, Lyon, France. Published June 15, 1943.

CLASS 184

A.P.C. 246,211. Lubrication of aero and other engines. Emile Piquerez, Saint-Cloud, France. Published June 15, 1943.

CLASS 189

A.P.C. 319,098. Portable building structures. Andre Faure et al., Firminy (Loire), France. Published June 15, 1943.

CLASS 192

A.P.C. 374,882. Clutch for automobiles. Rudolf Fuchs, Brunn, Moravia. Published June 15, 1943.

CLASS 200

A.P.C. 187,354. Thermostatic switch. Jean-Leon Reutter, Paris, France. Published June 15, 1943.
A.P.C. 287,348. Electric circuit-breakers with compressed fluid blow out. Bernard Marie Hilaier Paul Fernier, Lyon, France. Published June 15, 1943.

CLASS 204

A.P.C. 144,078. Process of separation by electrolysis of the organic acids and salts from albuminoids and their accompanying pectic substances. Umberto Busico, Lecce, Italy. Published June 15, 1943.
A.P.C. 150,309. Process of making aluminium or its alloys anti-corrosive and coloring the same. Kenzo Nagata, Naka-ku, Yokohama, Japan. Published June 15, 1943.
A.P.C. 203,242. Electrolytic production of manganese compounds. Uscha Gottesmann et al., Paris, France. Published June 15, 1943.
A.P.C. 402,242. Method of manufacturing artificial dioxides of manganese. Alfred Felix Sebastien Bellone, Lyon, France. Published June 15, 1943.

CLASS 218

A.P.C. 286,713. Methods of fixing tubular rivets. Jacques Francois Gabriel Chobert, Saint-Etienne, France. Published June 15, 1943.

CLASS 226

A.P.C. 314,513. Filling limiters. Emile Piquerez, Saint-Cloud, France. Published June 15, 1943.

CLASS 230

A.P.C. 418,666. Starter for free piston motor compressors. Paul Mullejans et al., Lindau, Germany. Published June 15, 1943.

CLASS 237

A.P.C. 381,240. Low-pressure steam heating plant particularly adapted for railway vehicles. Hans Appel, Prague, Czechoslovakia. Published June 15, 1943.

CLASS 240

A.P.C. 360,215. Switching-case for electric pocket lamps. Emile Venot, Marseilles, France. Published June 15, 1943.

CLASS 244

A.P.C. 230,120. Automatic control for aircraft and the like. Eduard Fischel et al., Berlin-Charlottenburg, Germany. Published June 15, 1943.
A.P.C. 381,153. Shock-absorbing devices of the frictional type. Georges Dreyfus, Montauban, France. Published June 15, 1943.

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A.P.C. 364,305. Electrical musical instruments of the keyboard type such as organs. Christopher Hook, Thiers, France. Published June 15, 1943.
A.P.C. 374,950. Apparatus for producing an electrical magnitude to be measured or controlled. Rudolf Schobelt, Berlin-Lichterfelde, West, Germany. Published June 15, 1943.
A.P.C. 429,583. Beacon systems. Henri De France, Lyon, France. Published June 15, 1943.

CLASS 252

A.P.C. 302,687. Lubricating oil composition. Franz Rudolf Moser, Amsterdam, Netherlands. Published June 15, 1943.

CLASS 257

A.P.C. 304,666. Cylinder fin construction for air-cooled engines. Theodor Helmbold, Munich, Germany. Published June 15, 1943.

CLASS 259

A.P.C. 35,394. Method of mixing or granulating of pulverulent and plastic materials of all kinds. Joseph Eirich et al., Hardheim, Germany. Published June 15, 1943.

CLASS 260

A.P.C. 758,606. Treatment of organic materials. Ehrhart Franz et al., Leipzig, Germany. Published June 15, 1943.
A.P.C. 108,196. Production of acetaldehyde. Friedrich Lieseberg, et al., Ludwigshafen-on-Rhine, Germany. Published June 15, 1943.
A.P.C. 129,813. Production of sulphonation products. Bruno V. Reibnitz, Mannheim, Germany. Published June 15, 1943.
A.P.C. 132,770. Production of fatty alcohol sulfonates. Winfrid Hentrich et al., Duesseldorf-Reisholz, Germany. Published June 15, 1943.
A.P.C. 192,964. Production of wetting agents. Hans Haussmann et al., Mannheim, Germany. Published June 15, 1943.
A.P.C. 237,278. Condensation products. Robert Behnisch et al., Wuppertal-Elberfeld, Germany. Published June 15, 1943.

A.P.C. 245,916. Sulphonation products and a process for the manufacture of the same. Richard Michel et al., Krefeld-Uerdingen, Germany. Published June 15, 1943.

A.P.C. 251,044. Aqueous emulsions and a process of preparing them. Werner Starck et al., Hofheim (Taunus), Germany. Published June 15, 1943.

A.P.C. 251,396. Process for the preparation of polyamines and their derivatives, and products obtained therefrom. Alexis Tchitchibabine, Paris, France. Published June 15, 1943.

A.P.C. 254,730. Process for the manufacture and production of deterging, emulsifying, wetting and dispersing agents. Shosaburo Akahori, Tokyo, Japan. Published June 15, 1943.

A.P.C. 262,728. Production of substituted aromatic sulphonic acids. Fritz Guenther et al., Heidelberg, Germany. Published June 15, 1943.

A.P.C. 266,701. Method of obtaining cream of tarter. Isaac Braun, Beregszasz, Hungary. Published June 15, 1943.

A.P.C. 284,711. Condensation products. Erich Haack, Radebeul, near Dresden, Germany. Published June 15, 1943.

A.P.C. 304,859. Intermediary products, dyes derived from the same and their manufacturing processes. Pierre Petitcolas, Rouen, France. Published June 15, 1943.

A.P.C. 307,933. Heteropolymeric peroxides from aliphatic ketones. Franz Rudolf Moser, Amsterdam, Netherlands. Published June 15, 1943.

A.P.C. 359,978. Process for the activation of normally liquid fatty materials containing unsaturated compounds. Hein Israel Waterman et al., Delft, Netherlands. Published June 15, 1943.

A.P.C. 373,690. Hydration of olefines. Henri Martin Guinot, Niort, France. Published June 15, 1943.

A.P.C. 374,864. Pimelic acid derivatives disubstituted in the γ position and a process of preparing same. Georg Wiest, et al., Ludwigshafen-on-Rhine, Germany. Published June 15, 1943.

CLASS 261

A.P.C. 369,721. Carburetors for internal combustion engines. Fritz Fiedler, Munich, Germany. Published June 15, 1943.

A.P.C. 393,138. Fuel humidifier for internal combustion engines. Charles Baron et al., Grenoble, France. Published June 15, 1943.

A.P.C. 400,874. Devices for saving gasoline and improving the carburization of explosion motors of any kind, through the simultaneous addition of oil vapours and moist air. Raoul Ghezzi, Monte Carlo, Monaco. Published June 15, 1943.

CLASS 267

A.P.C. 333,847. Shock absorbers. Georges Henri Ernest De Ram, Boulogne-sur-Seine, France. Published June 15, 1943.

CLASS 274

A.P.C. 339,491. Base material for grammophone records and other sound records. Harald Mediger, Dessau, Germany. Published June 15, 1943.

CLASS 281

A.P.C. 262,847. Pad, note-book or calendar. Abraham Jakob Grossfeld, Krakow, Poland. Published June 15, 1943.

CLASS 285

A.P.C. 381,739. Resilient tubular bodies. Friedrich Tolke, Berlin-Charlottenburg, Germany. Published June 15, 1943.

A.P.C. 403,856. Coupling devices for the assembly of tubular elements. Edmond Gabriel Laffly, Paris, France. Published June 15, 1943.

CLASS 287

A.P.C. 275,747. Ball-and-socket joint for control transmissions. Michel Joseph Meyer, Paris, France. Published June 15, 1943.

CLASS 309

A.P.C. 346,964. Reservoirs for fluid filled cable. Walter Van Den Berg, Koln-Mulheim, Germany. Published June 15, 1943.

A.P.C. 402,418. Piston and piston-rod rings. Pierre Anselme Ignace Cuvelier, Cannes, France. Published June 15, 1943.

CLASSIFICATION OF PATENTS

ISSUED JUNE 15, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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4— 67: 2,322,123
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5— 122: 2,321,966
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62: Pl.Pt. 592
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21: 2,322,174
121: 2,322,004
217: 2,322,143
309— 4: 2,322,010
28: 2,321,791
312— 1: 2,321,774
2,322,008
20: 2,321,794
44: 2,321,642
156: 2,321,865
193: 2,321,921
315— 112: 2,321,678

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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U. S. GOVERNMENT PRINTING OFFICE: 1943

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Patents	539	No. 2,322,204 to No.	2,322,742, inclusive.
Designs	32	No. 135,841 to No.	135,872, inclusive.
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Order No. 3721

U. S. PATENT OFFICE, *Washington, D. C. Apr. 24, 1943.*

Acting under the provisions of section 487 Revised Statutes (U. S. C., title 35, sec. 11) L. Edward Flaherty of Washington, D. C., whose registration number is 12,709, is hereby disbarred from practice before the United States Patent Office for gross misconduct.

CONWAY P. COE,
Commissioner.

Adjudicated Patent

(C. C. A. 7) Johnson and Johnson patent, No. 1,929,315, for lamp shade, *Held* invalid. *Pleet-Olite Corporation* v. *Pleatex Corporation*, 134 F.(2) 724.

Notice

See page xxvii for list of applications published by the Alien Property Custodian.

Notice Regarding Payment of Fees

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Applicant's Address

The requirement of Rule 33, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

Rule 72

RULE 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the paper which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

Photostat Copies

In ordering photostat copies of United States and foreign patents, when only the number of the patent is given, the whole patent, comprising specification and drawing, will be furnished, unless the order specifically states that the "specification only" or "drawing only" is required. Care should be taken in making out orders for foreign patents to give the year of the patent, as in old French and British patents the same number may appear in different years.

Conditions of Applications Under Examination at Close of Business June 5, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,126; Trade-Mark Division, 940. Oldest new case, Aug. 3, 1942; oldest amended, Aug. 5, 1942)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	†Jan. 16	†Feb. 12	283
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textiles Wringers; Butchering.	†Mar. 5	†Feb. 15	230
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Aug. 13	Aug. 11	913
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 16	Dec. 24	386
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Oct. 1	Oct. 1	510
6. GENIESSE, E. W., Carbon Chemistry (part)	Oct. 7	Oct. 13	998
7. JARBOE, C. G., Optics; Photography	Nov. 7	Nov. 12	827
8. ADAMS, F. L., Furniture; Kitchen and Table Articles: Racks and Cabinets	Nov. 28	Nov. 27	581
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 10	Nov. 2	733
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 6	†Jan. 7	386
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	†Jan. 13	†Jan. 7	310
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Nov. 24	Dec. 21	606
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Feb. 5	†Feb. 6	467
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Dec. 17	Dec. 22	693
16. SPENCER, C. J., Telegraphy; Telephony	Oct. 30	Oct. 30	619
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 15	Aug. 12	706
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 22	Oct. 21	542
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Sept. 16	Sept. 11	580
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	†Jan. 2	†Jan. 7	428
21. THOMPSON, T. J., Textiles	†Jan. 23	†Jan. 7	306
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Aug. 29	Aug. 31	1716
23. BARROWS, B., Cash Registers; Calculators (part)	Dec. 19	Dec. 24	144
24. LUSBY CHARLES, Apparel; Apparel Apparatus; Sewing Machines	†Feb. 3	†Feb. 4	491
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 9	Dec. 3	587
26. YOUNG, R. R., Electricity—Generation and Motive Power	Nov. 4	Oct. 12	705
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 26	Oct. 22	561
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Oct. 23	Sept. 21	618
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	†Jan. 9	†Feb. 24	335
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Feb. 13	†Feb. 11	299
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 18	Dec. 18	1351
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Oct. 29	Oct. 29	630
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	†Jan. 9	†Jan. 8	640
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Dec. 15	Dec. 8	394
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	†Jan. 20	†Jan. 1	548
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	†Jan. 11	†Jan. 8	344
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 22	Dec. 12	403
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Dec. 1	Nov. 9	599
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	†Feb. 17	†Feb. 12	390
40. DRUMMOND, E. J., Receptacles	†Mar. 2	†Feb. 19	348
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Nov. 10	Nov. 13	383
42. MARANS, H., Electric Signaling	†Feb. 11	†Feb. 27	303
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Aug. 3	Aug. 5	847
44. HARVEY, L. P., Refrigeration	Nov. 16	Aug. 28	311
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Dec. 11	†Jan. 5	690
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Dec. 23	Dec. 23	414
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Nov. 23	Dec. 1	998
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Aug. 18	Aug. 10	725
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Dec. 7	Dec. 1	555
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Nov. 11	Nov. 11	1169
51. BACKUS, C. D., Radiant Energy	Nov. 11	Nov. 10	1071
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Dec. 7	Dec. 1	679
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Oct. 31	†Feb. 9	161
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Aug. 9	Oct. 22	468
55. BOWEN, S. T., Artificial Body Members; Denistry; Surgery	Aug. 20	Aug. 15	830
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Dec. 1	Dec. 3	711
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 3	Sept. 9	432
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Dec. 12	Dec. 12	532
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Aug. 8	Aug. 10	1204
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Sept. 16	Sept. 16	458
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Oct. 30	Nov. 25	528
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	†Feb. 9	†Jan. 19	439
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Oct. 2	Oct. 12	967
64. NASH, P. M., Acetylene Gas Mixers; Compositions (part); Distillation; Fuel	Dec. 26	Dec. 28	1089
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Oct. 8	Oct. 14	695
Trade Marks: RICHMOND, F. A.	†May 6	†May 18	260
Designs: KALUPY, H. H.	†May 5	†May 19	940

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

STEINMAYER
v.
RAMSEY

No. 4,623. Decided December 1, 1942. Petition for rehearing denied January 29, 1943

[132 F.(2d) 1007]

1. APPEAL—JURISDICTION.

Where the Board of Appeals, on appeal thereto by interferant S, affirmed the decision of the Examiner of Interferences denying, at final hearing, a motion by S to dissolve based on the ground that the assignee of the patent to interferant R was estopped under rule 109 to contest priority as to claims copied by S from said patent to R, and also affirmed, in view of evidence, the award of priority by the Examiner of Interferences to R; and S did not include said evidence in his transcript upon appeal to the Court of Customs and Patent Appeals, but in his reasons of appeal did reassert the ground of his motion to dissolve *Held* that the issue of priority of invention was raised by the reasons of appeal and that the court had jurisdiction to determine the question of estoppel.

2. SAME—SAME.

"If appellee was estopped to contest the issue of priority of invention, as claimed in appellant's reasons of appeal, then, of course, the Board of Appeals erred in considering the evidence introduced by appellee and in awarding priority of invention to him. We conclude that the issue of priority of invention is raised by appellant's reasons of appeal. Accordingly, appellee's motion to dismiss the appeal is denied."

3. INTERFERENCE—APPLICATION AND PATENT—RIGHT OF PATENTEE TO MAKE CLAIMS.

"Relative to the claim in the reasons of appeal that appellant was prejudiced by the issuance of the Ramsey patent in that he was deprived of the right to contest appellee's right to make the claims constituting the counts in issue, it is sufficient to say that, although appellee is a patentee, appellant had the right during the motion period to move to dissolve the involved interference on the ground that appellee could not make the claims constituting the counts in issue. Such a motion, however, would not have been considered until final hearing. *Summers* v. *Esau*, 1937 C. D. 8, 485 O. G. 513."

4. SAME—ESTOPPEL.

Where S was involved upon the same application in three interferences: *T* v. *S*, *L* v. *S*, and *S* v. *R*, the interfering applications of T and L and the patent to R being owned by a common assignee, and these three interferences were concurrently decided by the Examiner of Interferences and also by the Board of Appeals, with an award of priority to S in interference *T* v. *S* and in interference *L* v. *S*, but with an award to R in interference *S* v. *R*, and neither interference *T* v. *S* nor interference *L* v. *S* had been terminated when S appealed interference *S* v. *R* to the Court of Customs and Patent Appeals *Held* that R was not estopped by judgment to contest interference *S* v. *R* because of the said awards to S in interferences *T* v. *S* and *L* v. *S*.

5. SAME—SAME.

Where the application which matured into the patent to R was pending until two days prior to the expiration of the motion period in interference *T* v. *S*, and that application and the application of T were owned by a common assignee and each disclosed the invention defined by the counts of interference *S* v. *R*, which interference was declared subsequently to the motion period in interference *T* v. *S* upon S copying claims of the R patent in his application involved in interference *T* v. *S* *Held* that, if said common assignee had desired to contest with S priority of invention of the subject matter of interference *S* v. *R*, either it should have inserted claims to such subject matter in the T application and moved, during the motion period, to include such claims in interference *T* v. *S*, or it should have moved, during the same motion period, to include the R application in interference.

6. SAME—SAME.

Held that the responsibilities under rule 109 of the common assignee of the T and R applications were not affected by the fact that the application of S did not during the motion period in interference *T* v. *S* contain claims to the invention expressed in the counts of interference *S* v. *R*, nor by the fact that claims to said invention had been canceled in the S application prior to the declaration of interference *T* v. *S*.

7. SAME—SAME—ESTOPPEL AGAINST ESTOPPEL.

Where the application of T in interference *T* v. *S* disclosed the invention defined by the counts of interference *S* v. *R* *Held* that it was the duty of S, as well as the duty of the common assignee of the T and R applications, if either desired to contest the issue of priority of invention of the subject matter of interference *S* v. *R*, to have moved during the motion period to include claims to said subject matter in interference *T* v. *S*; that, having failed to do so, each was thereafter estopped from bringing into interference *T* v. *S* the subject matter of interference *S* v. *R*; and that each was thereafter estopped from presenting claims to said subject matter "as a basis for another interference between the same parties."

8. SAME—SAME—SAME.

"The facts of record present a typical case of 'mutual estoppel' or 'estoppel against estoppel.' That being so, estoppel does not run in favor of either party. 31 C. J. S., Estoppel, §65."

APPEAL from the Patent Office. Affirmed.

Mr. Charles W. Hills, Jr., *Mr. Charles F. Meroni*, and *Mr. Chester W. Brown* for Steinmayer.

Messrs. Brown, Jackson, Boettcher & Dienner (*Mr. John A. Dienner* and *Mr. Robert R. Lockwood* of counsel) for Ramsey.

HATFIELD, *J.*:

This is an appeal in an interference proceeding from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner of Interferences awarding priority of invention of the subject matter defined in the four counts in issue to appellee, Allan Ramsey.

The intereference is between appellant's application, No. 753,358, filed November 16, 1934, and appellee's patent, No. 2,144,707, issued January 24, 1939, on an application filed July 22, 1937, which application was a division of appellee's application, No. 730,075, filed June 9, 1934, which matured into Patent No. 2,108,993, February 22, 1938.

Appellant is the junior party, and the burden was upon him to establish priority of invention by a preponderance of the evidence.

On September 21, 1938, prior to the declaration of the involved interference and during the prosecution of appellee's application which matured into his involved patent, an interference (No. 76,255) was declared between appellant's application and

the application of one Hugh A. Triplett. The motion period in that interference expired January 26, 1939. (As hereinbefore noted, appellee's involved patent issued January 24, 1939.) As a result of motions filed during the motion period, interference No. 76,255 was redeclared on August 9, 1939, and, on that date, interference No. 77,377 was declared between appellant's application and an application of one Siguard I. Lindell.

Appellant's application is owned by the Line Material Company of South Milwaukee, Wisconsin.

Appellee's patent, the application upon which it issued, and the applications of Triplett and Lindell are owned by a common assignee, Schweitzer & Conrad, Inc., of Chicago, Illinois.

On March 23, 1939, appellant Steinmayer copied the claims corresponding to the four counts in issue from appellee's patent, and requested that an interference be declared between his involved application and appellee's patent. In response to such request, the instant interference was declared on April 25, 1939. Thereafter, on July 5, 1939, during the motion period, appellant moved to dissolve the instant interference on the ground that as the common assignee of the Triplett application and appellee's application (now patent) failed to move during the motion period in interference No. 76,255 to add appellee's application or patent to that interference, in accordance with the provisions of rule 109 of the Rules of Practice in the United States Patent Office, it was estopped to contest, in the instant interference, the issue of priority of invention of the subject matter defined by the counts in issue.

The invention involved in the instant interference and that involved in interference No. 76,255 is a replaceable fuse link structure adapted to be positioned in a fuse cartridge which is used to protect a distribution line carrying electric current of high voltage from overloads. The counts in the two interferences differ merely in scope, those involved in the instant interference being broader than those in interference No. 76,255.

On July 10, 1939, the Examiner of Interferences notified the parties that appellant's motion to dissolve would not be set for hearing and that consideration thereof would be deferred until final hearing of the case on the merits. On August 7, 1939, appellant Steinmayer petitioned the Commissioner of Patents to direct the Examiner of Interferences to set the motion to dissolve for hearing before the Primary Examiner. That motion was denied by the Commissioner on October 4, 1939.

Evidence was submitted by the parties concurrently in each of the three interferences hereinbefore referred to; i. e., the instant interference, the original interference (No. 76,255) between appellant Steinmayer's involved application and the Triplett application, and interference No. 77,377 between appellant's involved application and the application of Lindell. Decisions in the three interferences were rendered concurrently by the Examiner of Interferences, and also by the Board of Appeals. In interferences Nos. 76,255 and 77,377, priority of invention was awarded to Steinmayer by both the Examiner of Interferences and the Board of Appeals. In the instant interference, appellant Steinmayer's motion to dissolve was denied and priority of invention awarded to appellee Ramsey by both those tribunals. An appeal was taken to this court by the party Triplett in interference 76,255 as to two counts only. Other counts involved in that interference and the counts in interference No. 77,377 were taken before the District Court of Illinois, Eastern Division, suit No. 3383, under the title *Hugh A. Triplett, Siguard I. Lindell, and Schweitzer & Conrad, Inc.*, v. *Line Material Company*. In the case of *Triplett* v. *Steinmayer*, involving the two counts hereinbefore referred to, this court affirmed the decision of the Board of Appeals awarding priority of invention to the party Steinmayer—29 C. C. P. A. (Patents) 1243, 129 F.(2d) 869, 545 O. G. 229. (At the time of our decision in that case, the involved interference was pending in this court, and according to the brief of appellee, filed October 14, 1942, the case in the District Court of Illinois is still pending.)

In denying appellant's motion to dissolve the instant interference, the Examiner of Interferences held that the failure of the common assignee of the Triplett application and the Ramsey application (now patent) to move, in accordance with the provisions of rule 109, supra, to add the Ramsey application or patent to the original interference (No. 76,255) for the purpose of contesting with appellant the issue of priority of invention of the subject matter here involved, did not estop the common assignee from contesting such issue with appellant in another and subsequently declared interference; that as the original interference had not been terminated, the common assignee was not estopped by judgment; and that appellant had not been prejudiced in any way by the failure of the common assignee to comply with the provisions of rule 109, supra.

In affirming the decision of the Examiner of Interferences denying appellant's motion to dissolve the interference, the Board of Appeals, among other things, said:

> Here Ramsey was claiming the common subject matter broadly at all times and, while Steinmayer did at one time have broad claims in his case, at the time the Ramsey case was passed to issue, there were no claims broad enough to read on the Ramsey disclosure.
>
> Under these conditions we believe that Ramsey was justified in assuming that Steinmayer, who had at that time access to the patented parent case, Patent No. 2,108,993, did not wish to contest priority on issues broad enough to read on the Ramsey Patents No. 2,108,993 or 2,091,452. The Primary Examiner seems to have followed the customary practice and sent the Ramsey application to issue, assuming that if Steinmayer desired to contest priority on these broader claims, he could copy them, which he did, and in time so that this interference could run concurrently with the related interferences Nos. 76,255 and 77,377. It is not seen that Steinmayer has suffered any material injury. The chief reason for rule 109 is to settle all differences as to common subject matter pending in this Office at one and the same time as this course will save time and expense. This end seems to have been reached by the course followed in this case. Of course, since Ramsey has a patent and the counts are taken from said patent, the party Steinmayer was precluded from moving to dissolve on the ground that the counts are unpatentable, but he must have assumed that they were else he would not have sought the interference.

It is contended by appellant in his reasons of appeal in this court that the Board of Appeals erred in the following respects: In not holding appellee estopped

> "to contest this interference"

because of the failure of the common assignee, during the motion period, to bring into interference No. 76,255 the Ramsey application which matured into Patent No. 2,144,707 (here involved) as well as the subject matter in the instant interference; in not granting appellant's timely motion to dissolve the interference for the reasons stated therein; in refusing to invoke the doctrine of estoppel against appellee for the reason that he is a patentee; in holding that appellant was not prejudiced by the declaration of the involved interference,

> "notwithstanding the fact that Ramsey by having issued his patent deprived the party Steinmayer of the right to contest Ramsey's right to make the counts in issue";

and in not holding that appellee was estopped to contest the instant interference in view of the fact that appellant had prevailed in the parent interference (No. 76,255) as well as in interference No. 77,377. Appellant's reason of appeal numbered 11 reads:

> In not holding that since the party Steinmayer was awarded priority as to all of the counts in both the main interference No. 76,255 and the ancillary interference No. 77,377, said party Steinmayer under *In re Marconi*, 1912 C. D. 483, and *In re Capen*, 1915 C. D. 115, is entitled to all common patentable subject matter including the issue of the present interference and that Ramsey is hence estopped to contest this interference.

[1] Appellee Ramsey moved to dismiss the instant appeal on the ground that appellant's reasons of appeal do not raise the issue of priority of invention, and that as the jurisdiction of this court is limited in interference proceedings to the issue of priority of invention and questions ancillary thereto, the court is without jurisdiction to determine the issue of estoppel attempted to be raised by appellant's reasons of appeal.

In appellant's praecipe for transcript of record, filed in the Patent Office, appellant states:

> (None of the testimony or exhibits of the parties are to be included since the only issue on which an appeal has been taken is that of estoppel and the ancillary questions.)

and in their brief in this court counsel for appellant state that they do not contest the Board of Appeals

> "interpretation of the stipulated evidence of the parties and hence did not include in the Transcript of Record herein any of the stipulated testimony or exhibits, especially since such evidence is not necessary for an adjudication of the points of error raised by this appeal."

It will be observed that appellant states in his reasons of appeal that appellee is estopped to contest the issue of priority of invention in the instant interference and that appellant is entitled to all common patentable subject matter disclosed by appellant's involved application and appellee's patent.

[2] If appellee was estopped to contest the issue of priority of invention, as claimed in appellant's reasons of appeal, then, of course, the Board of Appeals erred in considering the evidence introduced by appellee and in awarding priority of invention to him. We conclude that the issue of priority of invention is raised by appellant's reasons of appeal. Accordingly, appellee's motion to dismiss the appeal is denied.

We find nothing in the decision of the Board of Appeals to indicate that the Board refused, as claimed in appellant's reasons of appeal, to apply the doctrine of estoppel for the reason that appellee is a patentee.

[3] Relative to the claim in the reasons of appeal that appellant was prejudiced by the issuance of the Ramsey patent in that he was deprived of the right to contest appellee's right to make the claims constituting the counts in issue, it is sufficient to say that, although appellee is a patentee, appellant had the right during the motion period to move to dissolve the involved interference on the ground that appellee could not make the claims constituting the counts in issue. Such a motion, however, would not have been considered until final hearing. *Summers* v. *Esau*, 1937 C. D. 8, 485 O. G. 513.

[4] With regard to appellant's contention in his seventh reason of appeal that appellee was estopped to "contest this interference" because appellant had won interference No. 76,255 as well as interference No. 77,377 and was, therefore, entitled to all common patentable subject matter, it is sufficient to say that neither of those interferences had been terminated at the time appellant appealed the instant interference to this court. Accordingly, the Board of Appeals did not err in holding that appellee was not estopped by judgment to contest the involved interference. See *Saunders* v. *Browne*, 28 C. C. P. A. (Patents) 884, 891, 117 F.(2d) 547, 528 O. G. 785.

It may be said at this point that in their brief filed October 14, 1942, counsel for appellee state, which statement is concurred in by counsel for appellant in a memorandum filed in this court November 25, 1942, that the Triplett application involved in interference No. 76,255 disclosed the involved invention.

Rule 109, supra, so far as pertinent to the issues here involved, reads:

> Any party to an interference may bring a motion to put in interference any claims already in his application or patent which should be made the basis of interference between himself and any of the other parties. Any party to an interference may bring a motion to add or substitute any other application owned by him, as to the existing issue, or to include an application or a patent owned by him, as to claims which should be made the basis of interference between himself and any of the other parties.

[5] [6] As hereinbefore stated, interference No. 76,255, between the applications of Steinmayer and Triplett, was declared on September 21, 1938, and appellee's application which matured into his involved patent on January 24, 1939, was filed on July 22, 1937, and was, therefore, pending in the Patent Office at the time of the declaration of that interference and thereafter until two days prior to the expiration of the motion period—January 26, 1939. As appellee's application and the Triplett application, which was involved in interference No. 76,255, were owned by the common assignee

(Schweitzer & Conrad, Inc.), the common assignee was in entire control of the prosecution of those applications and fully aware of the fact that each of those applications and appellant's application disclosed the invention defined by the counts in issue. Accordingly, had it desired to contest with appellant priority of invention of the involved subject matter, it should have inserted claims to such subject matter in the Triplett application and moved, during the motion period, in accordance with the provisions of rule 109, supra, to include such claims in that interference, or, if it preferred to contest the issue of priority of invention between the Ramsey application and appellant's application, it should have moved, during the motion period, in accordance with the provisions of rule 109, supra, to include the Ramsey application in that interference, regardless of the fact that appellant's application did not contain claims to the involved invention. *In re Walter M. Austin*, 17 C. C. P. A. (Patents) 1202, 1208, 1209, 40 F.(2d) 756, 759. 399 O. G. 625; *In re Shimer*, 21 C. C. P. A. (Patents) 979, 69 F.(2d) 556, 446 O. G. 5; *In re Rhodes*, 23 C. C. P. A. (Patents) 816, 80 F.(2d) 525, 464 O. G. 712; *Saunders* v. *Browne*, supra. Nor were the responsibilities of the common assignee under rule 109 in any way affected by the fact that claims to the involved invention, which were theretofore present in appellant's application, had been canceled prior to the declaration of interference No. 76,255, as appellant had the right to reinsert such claims in his application for interference purposes. *Writer* v. *Kiwad*, 20 C. C. P. A. (Patents) 869, 878, 63 F.(2d) 259. 264, 431 O. G. 263.

It is claimed here, however, by counsel for appellee that even should it be held that the common assignee failed to comply with the provisions of rule 109, supra, estoppel does not run in favor of appellant because the Triplett application involved in the earlier declared interference (No. 76,255) disclosed the involved invention; that had appellant desired to contest with the common assignee the issue of priority of invention of the subject matter involved in the instant interference, he should have inserted claims to such subject matter in his application, and moved, in accordance with the provisions of rule 109, supra, to put those claims in interference No. 76,255; that, had he done so, the interference would have been reformed to include such claims and the common assignee would have been required to contest priority of invention of such subject matter either with the Triplett application or the Ramsey application, or thereafter be estopped from contesting priority of invention of such subject matter with either of those applications; and that as appellant failed to move in accordance with the provisions of rule 109, supra, to include claims to such subject matter in the earlier declared interference (No. 76,255), the Board of Appeals was right in denying appellant's motion to dissolve the instant interference and in awarding priority of invention to appellee.

[7] [8] Owing to the fact that the Triplett application, involved in interference No. 76,255, disclosed the involved invention, it was the duty of appellant, as well as that of the common assignee of the Triplett and Ramsey applications, if either desired to contest the issue of priority of invention of the involved subject matter, to have moved during the motion period, in accordance with the provisions of rule 109, supra, to include claims to such subject matter in that interference. Having failed to do so, each was in precisely the same situation—each was thereafter estopped from bringing into interference No. 76,255 the subject matter involved in the instant interference, and each was thereafter estopped from presenting claims to such subject matter as a basis for another interference between the same parties. *Saunders* v. *Browne*, supra, and cases therein cited. In other words, the facts of record present a typical case of "mutual estoppel" or "estoppel against estoppel." That being so, estoppel does not run in favor of either party. 31 C. J. S., Estoppel, § 65. As appellant's motion to dissolve the instant interference did not raise the issue of "mutual estoppel" or "estoppel against estoppel," it was properly denied by the tribunals of the Patent Office.

Counsel for appellee, apparently relying upon certain observations in one of the concurring opinions in the case of *Saunders* v. *Browne*, supra, state in their brief that the court in its decision in that case overruled our decisions in the cases of *In re Rhodes*, supra, *Avery* v. *Chase*, 26 C. C. P. A. (Patents) 823, 101 F.(2d) 205, 502 O. G. 875, and *Dirkes et al.* v. *Eitzen*, 26 C. C. P. A. (Patents) 1198, 103 F.(2d) 520, 507 O. G. 507, in each of which the doctrine of estoppel was stated and applied.

The case of *Dirkes et al.* v. *Eitzen* was not cited in our decision in the case of *Saunders* v. *Browne*, supra, because it was thought that it was not particularly applicable to the issues there under consideration. The case of *In re Rhodes* was not cited because of an oversight. The case of *Avery* v. *Chase* was cited in support of the propositions of law therein stated to be applicable to the facts presented.

In view of the fact that counsel for appellee have misconstrued our decision in the case of *Saunders* v. *Browne*, supra, we deem it proper to say that the court had no intention of there overruling or in any way modifying any of the principles of law announced and applied in the cases referred to by counsel, nor are we able to find, after careful consideration, anything in that decision to warrant the construction placed upon it by counsel for appellee.

For the reasons herein stated, the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE JENNINGS ET AL.

No. 4,680. Decided February 1, 1943

[133 F.(2d) 906]

1. PATENTABILITY—DIAPHRAGM.
   Certain claims to a diaphragm *Held* patentable over the prior art.
2. TREND OF DECISIONS OF U. S. SUPREME COURT.
   With reference to appellants' reliance upon the decision of the U. S. Supreme Court in the case of *Eibel Process Company* v. *Minnesota & Ontario Paper Company*, 261 U. S. 45, 310 O. G. 3, *Held* that "We cannot be unmindful of the fact that the recent decisions of that court indicate a somewhat stricter interpretation of the patent statutes than prevailed at the time the decision in the *Eibel Process Company* case was rendered."
3. CLAIMS—VAGUENESS AND INDEFINITENESS.
   Certain claims to a method of treating fabric to form a diaphragm *Held* vague and indefinite.

APPEAL from the Patent Office. Modified.

Messrs. Barnes, Kisselle, Laughlin & Raisch (*Mr. John M. Kisselle* of counsel) for Jennings et al.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claims 1, 2, 3, 5, 6, 8, 9, 13, 15, 16, 18, 19, and 23 of appellants' application for a patent.

No claims were allowed by the Primary Examiner, but on appeal he was reversed with respect to claims 10, 11, 12, 20, 21, 22, 24, 25, and 26, and these claims stand allowed. All of the allowed claims are method claims.

Before us appellants have moved to dismiss the appeal as to claims 18 and 23, which motion will be granted.

Of the claims before us for consideration claims 1, 2, 3, 5, 6, 8, and 9 are article claims and claims 13, 15, 16, and 19 are method claims.

Claim 1 is illustrative of the article claims and reads as follows:

1. As a new article of manufacture, a diaphragm comprising a fabric having an exposed surface coated with a relatively tough and hard layer of a cured thermosetting resinous substance rendering the fabric substantially impermeable, and a relatively soft uncured mass of plastic material of the same composition as the hard layer surrounding the fibers of the fabric whereby to render the diaphragm relatively soft and flexible.

Claim 13 is illustrative of the method claims and reads as follows:

13. The steps in treating fabrics to render the same impervious and flexible, which comprises using resinous substances of such relatively high viscosity that when heated above approximately 150° F. it will thoroughly penetrate the fabric, coating the fabric, and then subjecting the coated fabric to a relatively high temperature to form relatively tough and hard outer coatings and retain the materials between the outer coatings in relatively soft condition.

All of the article claims were rejected as lacking invention over the cited prior art.

The method claims were rejected by the Primary Examiner as lacking invention over the cited prior art and also upon the ground of being vague and indefinite and merely directed to a desired result.

The Board of Appeals affirmed the decision of the Primary Examiner rejecting the article claims upon the cited art, and also expressly affirmed his rejection of the method claims upon the ground of being vague and indefinite, and did not reverse his rejection of these claims upon the ground of lacking invention over the cited art.

The references cited are: Dickey, 1,352,436, September 14, 1920; Duncan, 1,410,899, March 28, 1922; Durant et al., 2,060,665, November 10, 1936; Bennett, 2,083,423, June 8, 1937; Okie, 2,169,277, August 15, 1939.

Of these references the Dickey patent was relied upon only with respect to a claim not now before us, and the Board stated that the Durant patent was not as pertinent as the other references.

Appellants' alleged invention is concisely described in the Examiner's statement as follows:

This application relates to a pump diaphragm and a method of forming the same. Applicants have discovered that if a cloth layer is heavily impregnated with a thermosetting resin and then cured in such a way as to produce a tough skin surface and a soft plastic center that such a diaphragm will give longer service when used in a pump than those conventionally used. The cloth used may be a balloon cloth, airplane fabric and sail duck. This cloth is treated with a hot, viscous, freely flowing resin. The preferred resin being an alkyd resin, specifically a glyptal resin. Other resins may be used such as phenolformaldehyde and natural resins. Drying oils may also be used.

In view of the foregoing, the only references which we need to consider are the patents to Duncan, Bennett and Okie.

The patent to Duncan. as stated by the Board,

"describes a fabric which is coated in layers or portions, the outer layer being formed of hard cured cementing material as regular Bakelite varnish and the other layers are impregnated with softer curing material and for this purpose castor oil is used."

With respect to the patent to Bennett, the Board in its decision stated:

Bennett describes the coating of condensible synthetic resin on a fabric which is heated to complete the final polymerization and the hardening of the resin without detriment to the supporting fabric. While the patentee describes a coating of the material with as much as 8 oz. of the synthetic resin per square yard and hardening at temperatures between 350 and 550° F., yet the patentee does not teach a treatment which provides a hard tough layer of cured resinous substance and a relatively soft uncured mass of plastic material surrounding the fibers of the fabric.

The patent to Okie, after describing in detail the invention claimed, states:

From the foregoing it will be seen that the sheeted material of this invention includes the following principal elements, namely: a backing sheet (conveniently of paper) may contain soft oils in such manner as to render the sheet substantially waterproof; a presizing or intermediate sizing front coat of a material which does not tend to penetrate the backing, whether previously waterproofed or not; an external finishing coat applied to the presizing or intermediate sizing coat and controlled thereby against penetration unduly into the backing; and one or more backsizing coats which prevent the entrance of moisture into the back of the sheet; and, lastly, where desired, an external sizing coat applied to the binder or finishing coat in order to enhance the desired lustrous and smooth finish.

That the process described in the allowed claims will produce the article here claimed is admitted.

It is clear that the references do not disclose an article such as is described in the article claims before us, for each of them discloses an article in which the outer hard surface is of a composition different from the soft uncured mass of plastic material surrounding the fibers of the fabric.

The patent to Duncan is the more pertinent of the references, but it describes two coatings, one in

which regular Bakelite varnish is employed to secure the hard exposed layer, and the other coating consists of a composition of Bakelite varnish and fifteen to thirty per cent of castor oil. This composition is described in the patent as "soft curing" material, while the Bakelite varnish alone is described as "hard curing" material. The patent states that after the composition of Bakelite and castor oil is applied and cured the castor oil may amount to from twenty-five to thirty-five per cent of the cured cementing material.

[1] It will thus be seen that appellants' article is novel in that the exposed hard layer is of the same composition as the inner soft uncured mass of plastic material, and the question is whether this renders the claim patentable over the disclosures of the prior art.

Appellants contend that their article is superior to that of the articles disclosed in the references for the reason that inasmuch as they employ the same composition throughout, the outer surface of their article is inherently joined with the plastic permeating substance and there can never be any cracking or pealing off of one portion of the applied substance from the other.

This seems reasonable to us. Therefore it is our opinion that patentability of appellants' article claims is not negatived by the references and such claims should be allowed.

We next come to the consideration of the method claims, numbers 13, 15, 16, and 19.

As we have stated, one of the grounds of rejection of these claims was that they are vague and indefinite as being merely directed to a desired result.

In claims 13 and 16, the only specific temperature mentioned is heating the resinous substances to "above approximately 150° F." in order to properly apply the coating to fabric.

Claim 15 recites a temperature of between 150° F. and 250° F. for the same purpose.

Claim 19 does not recite any specific degrees of temperature.

Each of the methods claims, 13, 15 and 16, consists of three steps:

1. Treating a resinous substance by heating above 150° F. to render it sufficiently viscous to penetrate the fabric.

2. Coating the fabric with the substance so heated.

3. Subjecting the coated fabric to a "relatively high temperature" to secure the result desired.

It is clear that there is nothing novel in the first or second steps above recited, and if the claims describe an invention it lies wholly in the novelty of the third step.

It is not clear what is meant by "a relatively high temperature." As the Examiner pointed out, a temperature of 250° F. is a high temperature as compared with the normal atmospheric temperature, but as is shown by the references it is not high as compared with the temperature usually employed in curing resins.

Furthermore, as observed by the Examiner, according to appellants' specification the temperature must be related to the duration of its application to secure the desired results. None of the claims under discussion recite any time during which the "relatively high temperature" is employed.

[2] Appellants rely upon the case of *Eibel Process Company* v. *Minnesota & Ontario Paper Company*, 261 U. S. 45, 310 O. G. 3, in which patent claims reciting "high elevation" and "substantial elevation" were found to be valid.

With respect to that case, we would first observe that, granting that the claims there involved would under the peculiar facts there existing now be found valid by the Supreme Court, it does not follow that the method claims before us are allowable; and, secondly, we cannot be unmindful of the fact that the recent decisions of that court indicate a somewhat stricter interpretation of the patent statutes than prevailed at the time the decision in the Eibel Process Company case was rendered.

One of the latest cases upon the subject of indefiniteness of patent clams is that of *General Electric Co.* v. *Wabash Appliance Corp. et al.*, 304 U. S. 364, 491 O. G. 463, in which the following claim was found invalid because of indefiniteness:

"25. A filament for electric incandescent lamps or other devices, composed substantially of tungsten and made up mainly of a number of comparatively large grains of such size and contour as to prevent substantial sagging and offsetting during a normal or commercially useful life for such a lamp or other device."

The court with respect to said claim said:

The claim uses indeterminate adjectives which describe the function of the grains to the exclusion of any structural definition, and thus falls within the condemnation of the doctrine that a patentee may not broaden his product claims by describing the product in terms of function. Claim 25 vividly illustrates the vice of a description in terms of function. "As a description of the invention it is insufficient and if allowed would extend the monopoly beyond the invention." 277 U. S. at 258. The Court of Appeals for the Ninth Circuit relied on the fact that the description in the claims is not "wholly" functional. 80 F.(2d) 958, 963. But the vice of a functional claim exists not only when a claim is "wholly" functional, if that is ever true, but also when the inventor is painstaking when he recites what has already been seen, and then uses conveniently functional language at the exact point of novelty.

In the case at bar a like observation is applicable. Here the applicants are definite and exact in stating steps in the claims which are old, but use conveniently functional language at the exact point of novelty. Appellants in their brief contend that "novelty of the claims does not solely reside in the high temperature but in the combined steps of coating and curing * * *."

The answer to this contention is that if it be conceded that the temperatures actually employed by appellants are not novel there is clearly no invention involved, for their specification clearly recites that their invention depends upon the temperature applied and the duration of its application in curing the coating upon the fabric.

In the very recent case of *United Carbon Co.* v. *Binney & Smith Co.*, decided by the Supreme Court on December 7, 1942, 317 U. S. —, 55 U. S. P. Q. 381, 546 O. G. 593, the following claim was held invalid as being indefinite:

1. Substantially pure carbon black in the form of commercially uniform, *comparatively small*, rounded, smooth aggregates having a spongy or porous interior. [Italics ours.]

In this court in the case of *In re Duggan et al.*, 29 C. C. P. A. (Patents) 765, 124 F.(2d) 215, 536 O. G. 721, we had before us certain patent claims of which the following was typical:

1. A method of preshrinking and finishing cellulosic textile fabric, consisting in padding the same with copper sulphate, subjecting the padded cloth to a bath containing caustic soda and ammonia, removing excess alkali, setting the fibre by means of acid, and removing the excess acid, *the strength and temperature of said baths and the time of treatment being so adjusted that substantial solubilizing of the fiber is avoided.* [Italics ours.]

We there held that the claims were indefinite and not allowable.

In our opinion we stated:

We agree with the Board of Appeals that the said functional statement attempts to cover appellants' real invention by stating results rather than conditions and leaves it open to subsequent workers in the art to experiment on the strength and temperatures of the baths and the time of treatment so as to accomplish the desirable results although they say such results flow from certain stated critical strengths and temperatures of the baths and the time of treatment in the process. Appellants have obtained the allowance of claims specifically defining their invention. They now seek to obtain claims which do not mark the limits of the invention and which, in our opinion do not comply with the statutory requirements relating to such subject matter.

In the case of *In re Newton et al.*, 27 C. C. P. A. (Patents) 914, 110 F.(2d) 110, 517 O. G. 283, one of the involved claims reads as follows:

9. The method of treating supercooled shortening which comprises subjecting the supercooled fluid shortening to attrition by passing the supercooled fluid through a relatively long unrefrigerated pipe and permitting the shortening to crystalize while passing through the pipe.

This, with other like claims, had been rejected by the Patent Office tribunals as being indefinite.

We affirmed this holding and in our opinion stated:

We are in agreement with the conclusion reached by the Patent Office tribunals that claims 8, 9, and 10 were properly rejected as being indefinite. It is our view that appellants seek to claim by the indefinite phrase "a relatively long unrefrigerated pipe" a pipe which might or might not respond to the length and character of pipe, the use of which appellants teach in their specification.

In support of the above holding we cited the case of *General Electric Co.* v. *Wabash Appliance Corp. et al.*, supra.

We deem it unnecessary further to discuss these method claims.

[3] Upon the principle of the later decisions of the Supreme Court hereinbefore cited, and of this court, we are convinced that the Patent Office tribunals did not err in rejecting these claims upon the ground of indefiniteness.

In view of this conclusion it is unnecessary for us to consider the ground of their rejection upon the prior art.

The motion of appellants to dismiss their appeal as to claims 18 and 23 is granted.

The decision of the Board of Appeals with respect to claims 1, 2, 3, 5, 6, 8, and 9 is reversed and its decision with respect to claims 13, 15, 16, and 19 is affirmed.

Modified.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

608,372. (See 646,639.)

646,639, 694,621, 694,622, C. P. Dubbs, Distilling petroleum; 1,123,502, 1,002,570, 1,100,717, 890,762, same, Treating oil; 1,057,227, same, Treating petroleum and petroleum residues; 608,372, same, Asphaltum and method of manufacturing same; 862,318, same, Paving material and manufacture thereof; 862,454, same, Saturating fibrous material; 1,488,325, 1,231,509, 2,091,196, same, Method and apparatus for treating hydrocarbons; 1,392,629, 1,411,961, 1,543,832, 1,958,267, 1,484,445, 1,627,159, 1,686,654, 1,534,927, 1,820,057, 1,829,637, same, Method for treating hydrocarbons; 1,806,616, 1,756,019, same, Process for producing lower boiling point hydrocarbons; 1,886,946, 1,901,950, 1,440,772, 1,543,831, 1,582,585, 1,690,997, 1,857,532, 1,546,634, 1,658,400, 1,638,112, 1,652,167, same, Apparatus for treating petroleum and other hydrocarbons; 1,850,261, same, Process of cracking hydrocarbon oils; 1,890,316, 1,799,413, same, Apparatus for producing lower boiling point hydrocarbons; 1,319,053, L. A. Dubbs, Process and apparatus for treating hydrocarbons; 1,135,506, same, Treatment of oil; D. C., S. D. Calif., C. Div., Doc. 2229–H, *Dean Caulfield Daily et al.* v. *The Universal Oil Products Co. et al.* Dismissed without prejudice, pursuant to stipulation May 3, 1943.

694,621. (See 646,639.) 694,622. (See 646,639.)

862,318. (See 646,639.) 862,454. (See 646,639.)

890,762. (See 646,639.) 1,002,570. (See 646,639.)

1,057,227. (See 646,639.) 1,100,717. (See 646,639.)

1,123,502. (See 646,639.) 1,231,509. (See 646,639.)

1,256,265. (See 1,815,733.) 1,392,689. (See 646,639.)

1,402,309. (See 1,815,733.) 1,411,961. (See 646,639.)

1,440,772. (See 646,639.) 1,484,445. (See 646,639.)

1,488,325. (See 646,639.)

1,507,325, C. B. Reynolds, Self-setting slip for rotary tables; 1,521,390, same, Mud and oil stripper, D. C., S. D. Calif., C. Div., Doc. 2132–H, *C. B. Reynolds* v. *Shaffer Tool Works.* Dismissed for lack of prosecution May 4, 1943.

1,521,390. (See 1,507,325.) 1,534,927. (See 646,639.)

1,543,831. (See 646,639.) 1,543,832. (See 646,639.)

1,546,634. (See 646,639.) 1,568,400. (See 646,639.)

1,582,585. (See 646,639.) 1,627,159. (See 646,639.)

1,638,112. (See 646,639.) 1,652,167. (See 646,639.)

1,655,968. (See 1,815,733.) 1,686,654. (See 646,639.)

1,690,997. (See 646,639.)

1,724,542, J. Zabel, Fur-brushing and ironing machine; 1,776,114, S. Friedman, Fur-treating method and apparatus, D. C. N. J., Doc. 2329, *Reliable Machine Works, Inc.*, v. *Goldhill Tanning Corp.* Judgment for plaintiff April 2, 1943.

1,737,670, J. W. Ogden et al., Mailing machine; 1,995,577, Ogden & Donaldson, Driving mechanism for postage meter machines; 2,130,897, J. W. Ogden, Timer tripping device; 1,879,964, R. G. Whitlock, Postal machine; 2,302,060, C. D. Ryan, Conveyer mechanism for mail treating apparatus, filed July 11, 1943, D. C., S. D. N. Y., Doc. 15/75, *Pitney-Bowes Postage Meter Co.* v. *National Postal Meter Co., Inc.*

1,756,019. (See 646,639.) 1,763,523. (See 1,815,733.)

1,776,114. (See 1,724,542.) 1,799,413. (See 646,639.)

1,806,616. (See 646,639.)

1,815,733, E. J. Gulick, Piston; 1,763,523, F. Jardine, same; 1,655,968, H. E. Maynard, same; 1,403,309, L. P. Mooers, Piston for internal combustion motors; 1,256,265, V. E. Schmiedeknecht, same; 1,927,611, G. L. Moore, same, D. C., N. D. Ohio, E. Div., Doc. 5064, *Sterling Products Corp.* v. *The Cleveland Trust Co.* Consent Judgment May 7, 1943.

1,820,057. (See 646,639.) 1,829,637. (See 646,639.)

1,843,429, N. Marcalus, Mounting cutters on box blanks, filed April 1, 1943, D. C. N. J., Doc. 2826, *Automatic Paper Machinery Co., Inc.*, v. *Marcalus Mfg. Co., Inc., et al.*

1,850,261. (See 646,639.) 1,857,532. (See 646,639.)

1,871,825. (See 2,053,284.)

1,875,077, A. R. Maulsby, Method of applying backing fabrics to linings, filed April 28, 1943. D. C., W. D. Wash., N. Div., Doc. 688, *A. R. Maulsby* v. *R. M. Collins.*

1,879,964. (See 1,737,670.) 1,886,946. (See 646,639.)

1,890,316. (See 646,639.) 1,901,950. (See 646,639.)

1,905,091, P. J. Hanson, Combined harvester, thresher and separator; 1,972,031, T. N. Pierson, Straw retarder, C. C. A., 8th Cir., Doc. 12,404, *J. I. Case Co.* v. *Gleaner Harvester Corp.* Judgment of lower court reversed and cause remanded with direction to dismiss plaintiff's complaint May 5, 1943.

1,910,476, J. M. Ruhng, Identification device, filed April 29, 1943, D. C., S. D. Fla. (Jacksonville), Doc. 586–J, *Identification Devices, Inc.*, v. *City of Jacksonville, Fla.*

1,920,145, H. Hueber, Wiper arm and mounting therefor; Re. 22,244, 2,215,371, E. C. Horton, Wiper arm; Re. 21,594, same, Windshield cleaner, filed May 7, 1943, D. C., N. D. Ind. (Hammond), Doc. 380, *Trico Products Corp.* v. *Anderson Co.*

1,927,611. (See 1,815,733.)

1,947,493, Rose & Engle, Coating of machine elements, D. C. Ariz. (Phoenix), Doc. 63, *Metals Processing Corp. et al.* v. *Maricopa Machine Works.* Judgment of January 8, 1940 reversed by C. C. A. on April 7, 1941, and case dismissed April 26, 1943.

1,958,267. (See 646,639.) 1,972,031. (See 1,905,091.)

1,984,134, Himmel & Himmel, Structural member, D. C., E. D. Mich., S. Div., Doc. 2920, *The Himmel Bros. Co.* v. *Herron-Zimmers Moulding Co.* Consent order of dismissal without prejudice (notice May 5, 1943).

1,995,577. (See 1,737,670.)

2,018,061, Gillen & Packer, Bottle closure, D. C. Del., Doc. 225, *G. M. Gillen et al.* v. *Reynolds Metal Co.* Dismissed May 7, 1943.

2,053,284, Grau & Lundeen, Elevator for external upset pipe; 1,871,825, N. K. Smith, Elevator latch, D. C., S. D. Calif. (Los Angeles), Doc. 685–M, *Byron Jackson Co.* v. *W. W. Wilson.* Claims 1, 4 and 11 of 1,871,825 held invalid, claims relative 2,053,284 dismissed with prejudice April 27, 1943.

2,065,182, B. R. Harris, Process for the treatment of cheese, D. C., N. D. Calif. (Sacramento), Doc. 4455, *Kraft Cheese Co.* v. *California Cheese Co.* Consent judgment for plaintiff April 6, 1943.

2,065,520. (See 2,132,393.) 2,091,196. (See 646,639.)

2,096,119, Lensch & Leder, Metal spray gun, D. C. Ariz. (Phoenix), Doc. 45, *R. Lensch et al.* v. *Phelps-Dodge Corp.* Dismissed April 26, 1943.

2,106,043, Urquhart & Urquhart, Method and apparatus for foam generating and distributing; 2,198,585, same, Fire extinguishing foam, filed May 5, 1943, D. C., E. D. Pa., Doc. 3149, *Pyrene Mfg. Co.* v. *R. M. Urquhart et al.*

2,109,678, N. A. Nelson, Contact switch for ball rolling games, D. C., N. D. Ill., E. Div., Doc. 4876, *Ace Patents Corp.* v. *D. Gottlieb & Co.* On stipulation bill dismissed Mar. 29, 1943.

2,130,897. (See 1,737,670.)

2,132,393, 2,132,398, H. S. Coith et al., Shortening and method of making same; 2,132,397, 2,132,396, same, Baked goods and method of making same; 2,132,437, Richardson & Eckey, Preparing edible fat; 2,065,520, Eckey & Clark, Process of liberating fatty acids in fatty material; 2,206,168, 2,206,167, Edeler & Richardson, Process of manufacturing fatty esters; D. C., N. D. Ill., E. Div., Doc. 4334, *The Procter & Gamble Co.* v. *Swift & Co.* On stipulation of parties bill dismissed with prejudice April 1, 1943.

2,132,396. (See 2,132,393.) 2,132,397. (See 2,132,393.)

2,132,398. (See 2,132,393.) 2,132,437. (See 2,132,393.)

2,198,585. (See 2,106,043.) 2,206,167. (See 2,132,393.)

2,206,168. (See 2,132,393.) 2,215,371. (See 1,920,145.)

2,238,451, F. Roth, Phonograph disk record holder, D. C., S. D. N. Y., Doc 14/136, *Peerless Album Co., Inc.*, v. *Musicraft Records, Inc.* Judgment on C. C. A. Mandate (notice May 6, 1943).

2,280,360, F. Z. Walsh, Garment, D. C., S. D. N. Y., Doc. 18/277, *G. M. Friend, Inc.*, v. *American Dickey Corp.* Judgment May 4, 1943.

2,297,947, E. L. Dreyer, Cartridge for air gun, D. C., S. D. N. Y., Doc. 21/98, *A. B. T. Mfg. Corp.* v. *P. Friedman.* Consent judgment (notice May 5, 1943).

2,302,060. (See 1,737,670.)

Re. 20,024, M. J. Kohler, Apparatus for treating nuts, filed April 21, 1943, D. C., N. D. Ill., E. Div., Doc. 43C423, *National Nut Co. of California* v. *Kelling Nut Co. et al.*

Re. 21,594. (See 1,920,145.)

Re. 22,244. (See 1,920,145.)

Des. 133,553, E. O. Shreffler, Automobile storage horse, D. C., N. D. Ill., E. Div., Doc. 43C171, *Automotive Improvement Co. et al.* v. *Wieboldt Stores, Inc.* Dismissed April 27, 1943.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 22, 1943

[VOL. 551. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

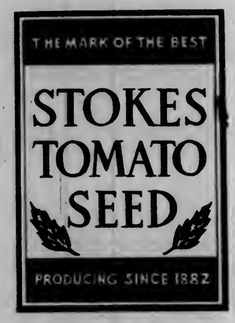
Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 459,951. FRANCIS C. STOKES COMPANY, Vincentown, N. J. Filed Apr. 16, 1943. Under 10-year proviso.



Applicant is the owner of Reg. No. 400,260, registered under the 10-year proviso.

FOR TOMATO SEEDS.

Claims use since 1881.

CLASS 2

RECEPTACLES

Ser. No. 456,266. BAY WEST PAPER COMPANY, Green Bay, Wis. Filed Oct. 19, 1942.

METEOR

FOR WOODEN DISPENSING CABINETS FOR PAPER TOWELS.

Claims use since Sept. 10, 1942.

Ser. No. 459,180. UNITED STATES ENVELOPE COMPANY, Springfield, Mass. Filed Mar. 17, 1943.

VICTOR

FOR PAPER DRINKING CUPS.

Claims use since July 1, 1919.

Ser. No. 459,977. VERN W. BUSCH, doing business as V. W. Busch Manufacturing Company, Rushton, South Lyons, Mich. Filed Apr. 19, 1943.

VICTORY VU-KIT

The word "Kit" is disclaimed apart from the mark.

FOR LUNCH BOXES.

Claims use since July 15, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 453,132. VICTORY BAG COMPANY, Paterson, N. J., assignor to Alfred Merwin Hickman, doing business as Victory Bag Company, Paterson, N. J. Filed May 19, 1942.

VICTORY
IT'S IN THE
BAG

Applicant disclaims the word "Bag" except as shown.

FOR UTILITY BAGS MADE OF CLOTH.

Claims use since Feb. 18, 1942.

Ser. No. 459,342. ISAAC LEHRHOFF, doing business as I. Lehrhoff & Co., Newark, N. J. Filed Mar. 25, 1943.



"Fine leather goods" is disclaimed apart from the mark.

FOR PORTFOLIOS, POCKETBOOKS, PASSPORT CASES, LEATHER RECORD-CARRYING CASES, LEATHER ENVELOPES OF WALLET FORM, AND WALLETS.

Claims use since Jan. 19, 1943.

Ser. No. 460,111. IDA JOLLES, doing business as J. Jolles Studios, New York, N. Y. Filed Apr. 23, 1943.

PLAS-TI-CATO

FOR LADIES' HANDBAGS.
Claims use since Dec. 18, 1942.

Ser. No. 460,212. MARK CROSS COMPANY, New York, N. Y. Filed Apr. 27, 1943.

NOAH

FOR HANDBAGS.
Claims use since November 1938.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 456,219. MOHAWK CHEMICAL PRODUCTS CO., Philadelphia, Pa., assignor to Mohawk Chemical Products, Inc., a corporation of Pennsylvania. Filed Oct. 15, 1942.

RUB-R-ITE

FOR LIQUID PREPARATION FOR CLEANING, PRESERVING, AND RENEWING TYPEWRITER AND WRINGER ROLLERS AND FOR CLEANING TYPEWRITER TYPE.
Claims use since Aug. 25, 1942.

Ser. No. 460,391. PITTSBURGH CHEMICAL LABORATORY, Pittsburgh, Pa. Filed May 3, 1943.

LIMEGON

FOR WASHING POWDER.
Claims use since June 1941.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 447,409. STOMAR PRODUCTS COMPANY, Kansas City, Mo., assignor, by mesne assignments, to Stomar Products Co., Kansas City, Mo., a corporation. Filed Sept. 29, 1941.



The words "Fosters" and "30 Minute Corn & Callous Remover" are disclaimed apart from the mark.
FOR PREPARATION USED AS A CORN AND CALLOUS REMOVER.
Claims use since June 15, 1941.

Ser. No. 451,611. PRINTING ARTS RESEARCH LABORATORIES, INC., Santa Barbara, Calif. Filed Mar. 13, 1942.

FLUOROGRAPHIC

FOR CHEMICAL PREPARATIONS FOR INCORPORATION INTO, OR APPLICATION TO, AN ARTIST'S DRAWING ON PAPER TO RENDER THE WORK AREAS OF THE DRAWING ABSORBENT OF ULTRAVIOLET LIGHT WHEREBY TO ADAPT THE DRAWING FOR REPRODUCTION BY A PHOTOENGRAVING PROCESS WHEREIN THE HIGH LIGHT AREAS ON THE NEGATIVE ARE CLEARED OF SCREEN PATTERN BY EXPOSURE TO ULTRAVIOLET LIGHT REFLECTED BY THE NON-WORK AREAS OF THE DRAWING, SAID PREPARATIONS BEING IN THE FOLLOWING FORMS: (*a*) A LIQUID PREPARATION (DEVOID OF ANY FLUORINE OR FLUORINE COMPOUND), CONTAINING ULTRAVIOLET LIGHT ABSORBENT MATERIAL, TO BE MIXED WITH A PIGMENT TO FORM AN ARTIST'S WASH FOR MAKING THE PAPER DRAWING TO BE REPRODUCED; (*b*) A SOLID PREPARATION (DEVOID OF ANY FLUORINE OR FLUORINE COMPOUND) IN CRAYON OR PENCIL FORM, CONTAINING AN ARTIST'S PIGMENTING MATERIAL AND ULTRAVIOLET LIGHT ABSORBENT MATERIAL, FOR MAKING THE PAPER DRAWING TO BE REPRODUCED; AND (*c*) A LIQUID PREPARATION (DEVOID OF ANY FLUORINE OR FLUORINE COMPOUND), COMPRISING A SOLVENT FOR ULTRAVIOLET LIGHT ABSORBENT MATERIAL, FOR APPLICATION TO THE PAPER DRAWING TO BE REPRODUCED.
Claims use since Feb. 1, 1939, as to preparation (*a*); and since Nov. 1, 1939, as to preparations (*b*) and (*c*).

Ser. No. 456,491. IOLINE COMPANY, Newark, N. J. Filed Oct. 28, 1942.

IOLINE

FOR IODINE COMPOSITIONS.
Claims use since Sept. 8, 1942.

Ser. No. 456,839. BAXTER LABORATORIES, INC., Glenview, Ill. Filed Nov. 16, 1942.

BAXTRAMIN

FOR PREPARATIONS CONTAINING AMINO ACIDS AND MIXTURES THEREOF FOR USE IN NUTRITIONAL THERAPY.
Claims use since Oct. 30, 1942.

Ser. No. 458,060. BONCILLA LABORATORIES, INCORPORATED, Indianapolis, Ind. Filed Jan. 21, 1943.

Boncilla

FOR FACE PACK COSMETIC, WHITE FACE PACK COSMETIC, COLD CREAM, VANISHING CREAM, FACE POWDER, CLEANSING CREAM, LEMON CREAM, DENTAL CREAM, SKIN SOFTENER, HEALING CREAM, SKIN LOTION (ASTRINGENT), LIP STICK, ROUGE, DEPILATORY, ZINC STEARATE POWDER, BATH POWDER, BATH CRYSTALS, PERFUME, TOILET WATER, TALCUM POWDER, AND SHAMPOO.
Claims use since September 1916 and on face pack cosmetics since September 1916; on white face pack cosmetic since February 1930; on cold cream since March 1917; on vanishing cream since May 1917; on face powder since June 1916; on cleansing cream since August 1924; on lemon cream since March 1922; on dental cream since August 1920; on skin softener since May 1939; on healing cream since December 1920; on skin lotion (astringent) since October 1920; on lip stick since June 1924; on rouge since June 1924; on depilatory since February 1921; on zinc stearate powder since October 1921; on bath powder since October 1921; on bath crystals since December 1929; on perfume since July 1921; on toilet water since July 1921; on talcum powder since June 1920; on shampoo since February 1921.

Ser. No. 458,451. ACTOMIN PRODUCTS LIMITED, Wembley, England. Filed Feb. 10, 1943.

Actomin

FOR PREPARATIONS OF MINERAL SALTS FOR USE AS A NUTRITIVE ADJUNCT TO FOODSTUFFS.
Claims use since Aug. 10, 1942.

Ser. No. 459,413. HELEN A. EISEMAN, doing business as Vitamond Vitamin Company, New York, N. Y. Filed Mar. 27, 1943.

VITABOND

FOR VITAMINS AND VITAMIN COMPOUNDS.
Claims use since Jan. 20, 1943.

Ser. No. 459,572. MITCHELL-BRADFORD CHEMICAL COMPANY, Bridgeport, Conn. Filed Apr. 1, 1943.



FOR SALTS FOR USE IN MOLTEN STATE TO DARKEN METAL SURFACES.
Claims use since April 1939.

Ser. No. 459,603. RED ROSE CHEMICAL CO., Newark, N. J. Filed Apr. 3, 1943.



The drawing is lined for red.
FOR BOTTLED SODIUM HYPOCHLORITE SOLUTION USED AS A DEODORANT AND DISINFECTANT.
Claims use since Mar. 22, 1943.

Ser. No. 459,680. WILLIAM R. WARNER & CO., INC., Wilmington, Del., and New York, N. Y. Filed Apr. 6, 1943.

Q-S

FOR VEHICLE FOR USE IN COMPOUNDING PRESCRIPTIONS.
Claims use since Apr. 1, 1943.

Ser. No. 459,682. THE AKTIVIN CORPORATION, New York, N. Y. Filed Apr. 7, 1943.

CORPOLIN

FOR HUMECTANTS.
Claims use since Feb. 23, 1937.

Ser. No. 459,775. THE BENJAMIN ANSEHL CO., St. Louis, Mo. Filed Apr. 10, 1943.

BASE-TEX

No claim is made to the word "Base" apart from the mark.
FOR LEG MAKE-UP FOUNDATION.
Claims use since Mar. 1, 1943.

Ser. No. 459,801. CYRUS D. BIAS, doing business as Tobacco States Chemical Company, Cave City, Ky. Filed Apr. 12, 1943.

Fungi-San

The term "Fungi" is disclaimed apart from the association shown.
FOR CHEMICAL PREPARATION FOR FUMIGATING TOBACCO.
Claims use since September 1941.

Ser. No. 459,837. RICHARD HUDNUT, New York, N. Y. Filed Apr. 13, 1943.

GRIMELINS

FOR OINTMENTS AND CREAMS FOR PROTECTION OF THE SKIN FROM FOREIGN MATTER AND IRRITATION.
Claims use since Apr. 6, 1943.

Ser. No. 459,838. RICHARD HUDNUT, New York, N. Y. Filed Apr. 13, 1943.

INSULATION

FOR OINTMENTS AND CREAMS FOR PROTECTION OF THE SKIN FROM FOREIGN MATTER AND IRRITATION.
Claims use since Apr. 8, 1943.

Ser. No. 459,877. THE HUNTER DRUG COMPANY, Lima, Ohio. Filed Apr. 14, 1943.

NOTARIZED VITAMINS

Applicant disclaims the word "Vitamins" apart from the mark.
FOR VITAMIN PREPARATIONS.
Claims use since Feb. 25, 1943.

Ser. No. 459,878. THE JOHNSON-MARCH CORPORATION, New York, N. Y. Filed Apr. 14, 1943.



FOR WETTING AGENT MORE PARTICULARLY FOR USE IN THE WETTING OF DUST.
Claims use since Mar. 22, 1943.

Ser. No. 459,921. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed Apr. 16, 1943.

GARDANTHROL

FOR AROMATIC CHEMICAL FOR USE IN SOAPS, COSMETICS, AND PERFUME EXTRACTS.
Claims use since Mar. 2, 1942.

Ser. No. 459,922. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed Apr. 16, 1943.

CYCLOTENE

FOR AROMATIC CHEMICAL FOR USE IN SOAPS, COSMETICS, PERFUME EXTRACTS, AND FLAVORING EXTRACTS.
Claims use since Nov. 17, 1942.

Ser. No. 459,923. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed Apr. 16, 1943.

PALATONE

FOR AROMATIC CHEMICAL FOR USE IN SOAPS, COSMETICS, PERFUME EXTRACTS, AND FLAVORING EXTRACTS.
Claims use since Nov. 17, 1942.

Ser. No. 459,946. RAYMOND LABORATORIES, INC., St. Paul, Minn. Filed Apr. 16, 1943.

RAYette

FOR CHEMICAL SOLUTION TO BE USED IN THE PERMANENT WAVING OF HAIR.
Claims use since Feb. 26, 1942.

Ser. No. 459,957. DR. HESS & CLARK, INC., Ashland, Ohio. Filed Apr. 17, 1943.

Coxitrol

FOR PREPARATION USED IN THE PREVENTION AND TREATMENT OF COCCIDIOSIS.
Claims use since Apr. 2, 1943.

Ser. No. 460,002. ROBERT BRUCE DOUGLAS LAUDER, doing business as Ferroid Supply Company, Stretford, Manchester, England. Filed Apr. 19, 1943.

FERROID

FOR FLUXES FOR SOLDERING AND WELDING METALS.
Claims use since June 26, 1924.

Ser. No. 460,071. REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 21, 1943.

Wind-Milled

FOR FACE POWDER, ROUGE AND MAKE-UP BASE.
Claims use since Feb. 23, 1943.

Ser. No. 460,155. JOHN T. KENNEDY SALES COMPANY, Kansas City, Mo. Filed Apr. 24, 1943.

Clerton

FOR SKIN LOTION.
Claims use since Mar. 1, 1943.

Ser. No. 460,194. PARFUMS CHARBERT, INC., New York, N. Y. Filed Apr. 26, 1943.

"AS YOU WERE"

FOR GENTLEMEN'S TOILETRIES CONSISTING OF EAU DE COLOGNE, AFTER SHAVING LOTION, TALCUM POWDER, FACE POWDER, TOILET POWDER, HAIR LOTION, HAIR POMADE, AND DEODORANT.
Claims use since Apr. 5, 1943.

Ser. No. 460,293. E. FOUGERA & CO. INCORPORATED, New York, N. Y. Filed Apr. 30, 1943. Under 10-year proviso.

LAROCHE

FOR FERRUGINOUS TONIC USED AS A STIMULANT TO THE APPETITE AND NUTRITIONAL ANEMIA.
Claims use since 1868.

Ser. No. 460,311. THE SELIG COMPANY, Atlanta, Ga. Filed Apr. 30, 1943.

MOTHAL

FOR INSECTICIDE.
Claims use since Apr. 17, 1943.

Ser. No. 460,355. E. R. SQUIBB & SONS, New York, N. Y. Filed May 1, 1943.

CAJANDOL

FOR ANTISEPTIC AND ANALGESIC PREPARATIONS.
Claims use since Mar. 30, 1943.

Ser. No. 460,427. JAMES C. GRIMES, Opp, Ala. Filed May 5, 1943.



The picture is that of the applicant.
FOR LAXATIVE POWDER.
Claims use since Dec. 1, 1942.

Ser. No. 460,428. SAMUEL I. MARKS, Chicago, Ill. Filed May 5, 1943.

Sima

FOR TOILET PREPARATIONS—NAMELY, PREPARATIONS FOR THE CARE AND TREATMENT OF THE HAIR AND SCALP.
Claims use since Mar. 10, 1937.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 459,445. UNITED GILSONITE LABORATORIES, Scranton, Pa. Filed Mar. 27, 1943.

CERFEX

FOR SPACHTLING COMPOUND.
Claims use since Feb. 1, 1940.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 459,307. HOPP PRESS INC., New York, N. Y. Filed Mar. 24, 1943.



FOR PLASTIC PRICE TICKETS MOLDINGS AND PLASTIC PRICE TICKETS HOLDERS.
Claims use since Apr. 1, 1942.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,836. HOYLAND STEEL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 13, 1943.

HSC SPECIAL

The word "Special" is disclaimed apart from the mark.
FOR TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS, AND STRIPS.
Claims use since Sept. 15, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 455,110. THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa. Filed Aug. 25, 1942.

HANDPIECE-EASE-L

Applicant disclaims the word "Handpiece" per se.
FOR LUBRICATING GREASE FOR HANDPIECES. ANGLES, ENGINE ARMS AND MOTORS, AND OTHER MECHANISM.
Claims use since Aug. 7, 1933.

Ser. No. 457,273. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Dec. 8, 1942.

D

FOR GRAPHITE LUBRICANTS.
Claims use since May 29, 1942.

Ser. No. 460,099. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Apr. 22, 1943.

PENOLA-MAR

Applicant is the owner of registration No. 162,576.
FOR LUBRICATING OILS AND GREASES.
Claims use since Mar. 27, 1943.

Ser. No. 460,100. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Apr. 22, 1943.

PENOLAMARINE

Applicant is the owner of registration No. 162,576.
FOR LUBRICATING OILS AND GREASES.
Claims use since Mar. 27, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 451,921. THE WHITE COMPANY, Baltimore, Md. Filed Mar. 26, 1942.

Hydrolite

FOR CASEIN WALL PAINT.
Claims use since July 1, 1935.

Ser. No. 459,231. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 19, 1943.

SOVATONE

FOR EMULSIFIED WALL FINISHING PAINT.
Claims use since Dec. 3, 1942.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 459,012. MEDALIST CO., INC., Passaic, N. J. Filed Mar. 10, 1943.



No claim is made to the word "Maker." Applicant is owner of Reg. Nos. 173,053 and 317,493.
FOR CIGARS.
Claims use since Mar. 1, 1941.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 458,295. THE TRAILER COMPANY OF AMERICA, Cincinnati, Ohio. Filed Feb. 1, 1943.

TRAIL-AXLE

No claim is made to the word "Axle" apart from the mark.
FOR UNITARY AXLE ASSEMBLY SOLD AS AN AUXILIARY FOR TRUCK OR TRACTOR.
Claims use since January 1941.

Ser. No. 458,360. UNITED AIRCRAFT CORPORATION, East Hartford, Conn. Filed Feb. 5, 1943.

AUTOPITCH

FOR AIRCRAFT PROPELLERS, PARTS, AND ATTACHMENTS THEREFOR.
Claims use since Jan. 19, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 449,734. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Dec. 24, 1941.

THERMOCELL

FOR QUARTZ CRYSTAL ELECTRIC OSCILLATOR.
Claims use since Dec. 18, 1936.

Ser. No. 451,816. G AND N ENGINEERING COMPANY, Boston, Mass. Filed Mar. 21, 1942.



FOR SWITCH GEAR INCLUDING CUBICLES AND SWITCHBOARDS FOR CONTROL OF ELECTRIC POWER; OUTLET BOXES, INSULATING SLABS, BUS RUNS, AND PARTS THEREOF.
Claims use since 1931.

Ser. No. 458,780. THE FRANCE MANUFACTURING COMPANY, Cleveland, Ohio. Filed Feb. 26, 1943.

INSTA-START

No claim is made to the word "Start" apart from the mark.
FOR GASEOUS TUBE LIGHTING UNITS.
Claims use since Feb. 17, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 459,164. CHILDHOOD INTERESTS, INC., Roselle, N. J. Filed Mar. 17, 1943.

Cradle Gym

FOR EXERCISERS FOR BABIES.
Claims use since Mar. 4, 1942.

Ser. No. 459,541. GEORGE H. FORSYTH, Evanston, Ill. Filed Mar. 31, 1943.

SMASH

FOR TABLE BALL GAME.
Claims use since Mar. 16, 1939.

Ser. No. 459,999. KASCO MILLS, INC., Toledo, Ohio. Filed Apr. 19, 1943.

KASCO

FOR CARD GAME.
Claims use since Jan. 1, 1943.

Ser. No. 460,122. NOMA ELECTRIC CORPORATION, New York, N. Y. Filed Apr. 23, 1943.

NOMA WOODIES

FOR PULL TOYS.
Claims use since Mar. 19, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 452,986. PRODUCTION DEVICES INCORPORATED, East Hartford, Conn. Filed May 13, 1942.

AIRLOX

FOR PNEUMATICALLY OPERATED MACHINERY—NAMELY, PNEUMATIC VISES, PNEUMATIC CLAMPS, PNEUMATIC CHUCKS, AND PNEUMATIC PUNCHES.
Claims use since Dec. 2, 1940.

Ser. No. 460,263. LEVENE MOTOR COMPANY, doing business as The Bucher & Gibbs Plow Company, Tacony, Philadelphia, Pa. Filed Apr. 29, 1943.

IMPERIAL

FOR PLOWS, PLOWSHARES, MOLDBOARDS, PLOW-POINTS, LANDSIDES, PLOW-STANDARDS, PLOW-BEAMS, PLOW-HANDLES, AND DISK HARROWS.
Claims use since 1871.

Ser. No. 460,383. OHLEN-BISHOP MANUFACTURING COMPANY, Columbus, Ohio. Filed May 3, 1943.



FOR SAWS.
Claims use since Jan. 1, 1894.

Ser. No. 460,418. JOSEPH A. COGBILL, doing business as Dixie Tool Company, Newark, N. J. Filed May 5, 1943.

LIXIT

FOR WRENCHES.
Claims use since Feb. 25, 1943.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 458,393. GYRO-BALANCE CORPORATION, Greenwich, Conn. Filed Feb. 8, 1943.

ELECTRODYNASCOPE

FOR MACHINE FOR BALANCING MASSES, MACHINES FOR DETERMINING AND/OR CORRECTING UNBALANCE IN MASSES, MACHINES FOR PRODUCING, MEASURING, AND/OR ELIMINATING VIBRATIONS IN ROTATING MASSES.
Claims use since Dec. 15, 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 460,058. EMIL LEICHTER, New York, N. Y. Filed Apr. 21, 1943.

DAVIDA

FOR WATCHES.
Claims use since Apr. 1, 1943.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 459,667. IDENTAG, INC., New York, N. Y. Filed Apr. 6, 1943.

Identag

FOR IDENTIFICATION BRACELETS AND TAGS NOT INCLUDING WATCHES.
Claims use since Mar. 24, 1943.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 460,124. PORTABLE ELEVATOR MFG. CO., Bloomington, Ill. Filed Apr. 23, 1943.

PELCO

FOR REFRIGERATORS AND COOLERS FOR COOLING AND MAINTAINING COOL OR COLD, FOODS, BEVERAGES, DAIRY AND FARM PRODUCTS; ICE BOXES, ICE CHESTS, ICE CREAM FREEZERS, ICE MAKING MACHINES.
Claims use since Feb. 1, 1936.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 459,340. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 25, 1943.

POLYFOAM

FOR CUSHIONS, PILLOWS, MATTRESSES, SEATS FOR CHAIRS, ARM RESTS, AND PADS FOR USE ON CHAIR SEATS.
Claims use since Mar. 3, 1943.

Ser. No. 459,859. ECLIPSE SLEEP PRODUCTS, INC., Brooklyn, N. Y. Filed Apr. 14, 1943.

Compartress

FOR MATTRESSES.
Claims use since Nov. 5, 1942.

CLASS 33

GLASSWARE

Ser. No. 451,649. NATIONAL GLASS DISTRIBUTORS ASSOCIATION, Chicago, Ill. Filed Mar. 16, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

NATIONAL GLASS DISTRIBUTORS ASSOCIATION
AUTO GLASS PARTS SERVICE

The words "Auto Glass Parts Service" are disclaimed apart from the mark.
FOR FLAT GLASS.
Claims use since 1936.

Ser. No. 459,017. SUN FLAME APPLIANCES LIMITED, Ridgefield, N. J. Filed Mar. 10, 1943.

Sun Flame

FOR GLASS TABLE AND COOKING WARE.
Claims use since August, 1939.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 459,623. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 5, 1943.

Firestone

FOR PYROPHORIC CIGARETTE LIGHTERS.
Claims use since Jan. 1, 1934.

Ser. No. 459,692. LOGAN ENGINEERING CO., Chicago, Ill. Filed Apr. 7, 1943.

ARIDIFIER

FOR CENTRIFUGAL SEPARATORS OF MOISTURE AND/OR DUST FROM FLOWING GASES.
Claims use since Aug. 25, 1937.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 459,894. WOODWARD-WANGER COMPANY, Philadelphia, Pa. Filed Apr. 14, 1943.

RHINO-PRENE

FOR NONMETALLIC FAUCET WASHERS.
Claims use since July, 1940.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 452,537. PEERLESS ALBUM CO., INC., New York, N. Y. Filed Apr. 23, 1942.

"Protecto-Flap"

No claim is made to the word "Flap" apart from the mark.
FOR ALBUMS FOR HOLDING PHONOGRAPH RECORDS.
Claims use since Oct. 1, 1941.

CLASS 37

PAPER AND STATIONERY

Ser. No. 459,100. AMERICAN ART SERVICE, doing business as Spector-Goodman Advertising, Chicago, Ill. Filed Mar. 15, 1943.

KEEP 'EM SMILIN'

FOR STATIONERY—NAMELY, WRITING PAPER AND ENVELOPES SOLD IN THE FORM OF PACKETS AND IN BOXES.
Claims use since Dec. 17, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 458,739. ROY P. PALMER, Minneapolis, Minn. Filed February 24, 1943.

PRESS-O-GRAM

FOR PRINTED ADVERTISING MATERIAL SOLD AS SUCH.
Claims use since Feb. 10, 1943.

Ser. No. 459,157. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y. Filed Mar. 17, 1943.

RPM *News*

The word "News" per se is disclaimed.
FOR TRADE ORGAN PUBLISHED FROM TIME TO TIME DEVOTED LARGELY, ALTHOUGH NOT ENTIRELY, TO ADVERTISING CONSTRUCTION MATERIALS, PROTECTIVE PRODUCTS, AND OTHER GOODS SOLD BY THE APPLICANT.
Claims use since Oct. 22, 1942.

Ser. No. 459,372. KRAFT CHEESE COMPANY, Chicago, Ill. Filed Mar. 26, 1943.

Kraftsman

FOR HOUSE ORGAN—NAMELY, A PUBLICATION DIRECTED PRIMARILY TO THE EMPLOYES OF THE KRAFT CHEESE COMPANY.
Claims use since March 1943.

CLASS 39

CLOTHING

Ser. No. 456,933. CAMBRIDGE HANDKERCHIEF WORKS, INC., New York, N. Y. Filed Nov. 20, 1942.

VICTORY

FOR HANDKERCHIEFS.
Claims use since May 20, 1942.

Ser. No. 457,422. THE PACIFIC LUMBER COMPANY, San Francisco, Calif. Filed Dec. 15, 1942.

Palconia

FOR MEN'S AND WOMEN'S HATS.
Claims use since Dec. 4, 1942.

Ser. No. 457,998. NELSON SCHLESINGER, New York, N. Y. Filed Jan. 18, 1943.

janecroft

FOR WOMEN'S OUTER GARMENTS—NAMELY, COATS, SUITS, SKIRTS, AND JACKETS.
Claims use since Nov. 25, 1942.

Ser. No. 458,464. KLINKERFUES BROS., Co., St. Paul, Minn. Filed Feb. 10, 1943.



No claim is made to the words "North Country Outdoor Wear" apart from the mark. The drawing is lined for red, green, and gold.

FOR MEN'S, WOMEN'S, AND CHILDREN'S OUTER WEAR GARMENTS—NAMELY, WOOLEN MACKINAWS, WOOLEN COSSACK JACKETS, WOOLEN FLANNEL SHIRTS, WOOLEN RAILROAD COATS, REVERSIBLE COATS, GABARDINE AND POPLIN JACKETS, AND SNOW AND SKI-SUITS.

Claims use since January 1922.

Ser. No. 458,951. PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y. Filed Mar. 6, 1943.

SUPERLAD

FOR BOYS' CLOTHING—NAMELY, DRESS SHIRTS, SPORT SHIRTS, SUITS, CONSISTING OF COATS, VESTS, AND TROUSERS, SLACK SETS, CONSISTING OF SHIRTS AND TROUSERS, SNOW SUITS, TROUSERS, MACKINAWS, JACKETS, RAINCOATS, HATS, CAPS, PAJAMAS, NECKTIES, SCARFS, MUFFLERS, BELTS FOR OUTER WEAR, SUSPENDERS AND SWEATERS.

Claims use since Mar. 9, 1942.

Ser. No. 459,469. ZINAIDA HARPIGNIES, New York, N. Y. Filed Mar. 29, 1943.

BATTLEFIELD

FOR WOMEN'S DRESSES, SUITS, CAPS, HATS, AND SHOES OF ALL TYPES MADE OF LEATHER, RUBBER, FABRIC, OR ANY COMBINATION THEREOF.

Claims use since Jan. 2, 1943.

Ser. No. 459,470. ZINAIDA HARPIGNIES, New York, N. Y. Filed Mar. 29, 1943.

REVENGE

FOR WOMEN'S DRESSES, SUITS, CAPS, HATS, AND SHOES OF ALL TYPES MADE OF LEATHER, RUBBER, FABRIC, OR ANY COMBINATION THEREOF.

Claims use since Mar. 1, 1943.

Ser. No. 459,499. C. B. SHANE CORPORATION, Chicago, Ill. Filed Mar. 29, 1943.

Two Timer

FOR MEN'S, BOYS', WOMEN'S, AND GIRLS' OVERCOATS AND TOPCOATS.

Claims use since February 1937 for men's and boys' overcoats and topcoats; and since October 1938 for women's and girls' overcoats and topcoats.

Ser. No. 459,561. BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Apr. 1, 1943.

BUSTER BROWN

"Buster Brown" is the name of a fictional juvenile character in a popular newspaper comic section (R. F. Outcault, author), during the early part of the twentieth century.

FOR BOYS' AND GIRLS' LEATHER, CANVAS, AND CLOTH SHOES.

Claims use since Aug. 4, 1903.

Ser. No. 459,657. GLENSDER TEXTILE CO., New York, N. Y. Filed Apr. 6, 1943.

Cloud-Mist

No claim is made to the word "Cloud" apart from the mark.

FOR WOMEN'S SCARFS.

Claims use since Feb. 1, 1943.

Ser. No. 459,769. DANIEL L. ROSENTHAL, New York, N. Y. Filed Apr. 9, 1943.

BATTLEFIELD

FOR NECKTIES, INCLUDING FOUR-IN-HAND AND BOW TIES; HANDKERCHIEFS; MEN'S AND BOYS' OUTER SHIRTS; HOSIERY; GLOVES OF LEATHER AND FABRIC; MEN'S AND BOYS' SUITS, COATS, PANTS AND OVERCOATS; WOMEN'S AND MISSES' SUITS, COATS, AND DRESSES; HATS; SWEATERS; APRONS; UNDERWEAR FOR MEN, WOMEN AND CHILDREN; KNEE AND ELBOW PROTECTORS; SCARFS; CORSETS; BRASSIÈRES; PAJAMAS; SHOES OF LEATHER AND FABRIC; OVERSHOES; SUSPENDERS; GARTERS; AND BELTS FOR OUTER WEAR.

Claims use since Jan. 5, 1943.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 457,152. BERTHA HINES, Garnerville, N. Y. Filed Dec. 1, 1942.

PERFUMIDOR

FOR SACHETS CONSISTING OF PADS ADAPTED FOR PERFUMING.

Claims use since July 25, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 459,403. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

Kodacrest

FOR RAYON PIECE GOODS.

Claims use since Feb. 28, 1941.

Ser. No. 459,404. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

koda shan

FOR RAYON PIECE GOODS.

Claims use since Oct. 8, 1941.

Ser. No. 459,405. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

Koda Rio

FOR RAYON PIECE GOODS.

Claims use since Jan. 19, 1942.

Ser. No. 459,406. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

GLEN KODA

FOR RAYON PIECE GOODS.

Claims use since Oct. 30, 1942.

Ser. No. 459,407. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

TECALIN

FOR RAYON PIECE GOODS.

Claims use since Feb. 17, 1942.

Ser. No. 459,409. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

Tecatone

FOR RAYON PIECE GOODS.

Claims use since Aug. 14, 1942.

Ser. No. 459,410. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

MILITECA

FOR RAYON PIECE GOODS.

Claims use since Feb. 9, 1942.

Ser. No. 459,563. ESSELL MANUFACTURING CO., Brooklyn, N. Y. Filed Apr. 1, 1943.

ESSELL

FOR MATTRESS COVERS, IRONING BOARD COVERS, BLANKET COVERS, QUILT COVERS, PILLOW-SLIPS, AND PILLOW COVERS.

Claims use since Apr. 1, 1941.

Ser. No. 459,982. CANNON MILLS COMPANY, Kannapolis, N. C. Filed Apr. 19, 1943.

TROPHY

FOR SHEETS AND PILLOW CASES.

Claims use since December 1938.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 459,959. MASTER SURGICAL INSTRUMENT CORPORATION, Irvington, N. J. Filed Apr. 17, 1943.



The representation of the surgical scissors is disclaimed apart from the mark.

FOR HAEMOSTATIC FORCEPS, HOLDERS FOR SURGICAL NEEDLES, TISSUE FORCEPS, SKIN CLIPS, OPERATING SCISSORS, DISSECTING SCISSORS.

Claims use since Mar. 25, 1943.

Ser. No. 460,128. SURGITUBE PRODUCTS CORP., New York, N. Y. Filed Apr. 23, 1943.

"SURGITUBE"

FOR TUBULAR GAUZE BANDAGES.
Claims use since April 1941.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 459,995. MONROE HARRISON, Chicago, Ill. Filed Apr. 19, 1943.

SUN-VALE

FOR NON-ALCOHOLIC MALTLESS FRUIT JUICES AND FRUIT CONCENTRATES FOR BEVERAGE PURPOSES.

Claims use since Jan. 4, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 445,751. GUS SCLAFANI, Stamford, Conn. Filed July 29, 1941.



Translation of the mark is "Good Morning."

FOR CANNED COMPOUND OF COTTONSEED, PEANUT AND IMPORTED OLIVE OIL.

Claims use since June 20, 1941.

Ser. No. 451,241. JACK POLIN, doing business as Packard Food Products Co., Brooklyn, N. Y. Filed Feb. 26, 1942.

Energetic

FOR CHOCOLATE MALTED MILK PREPARATION IN POWDER AND LIQUID FORM.

Claims use since July 15, 1940.

Ser. No. 457,539. DALE BUMSTEAD, Phoenix, Ariz. Filed Dec. 21, 1942.

TAL-WI-WI

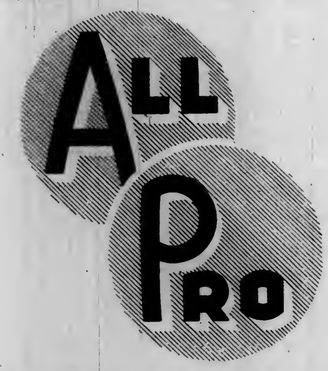
FOR FRESH CITRUS FRUITS.
Claims use since Nov. 14, 1942.

Ser. No. 458,679. RAY M. CRANE, doing business as Associated Fruit Distributors of California, Los Angeles, Calif. Filed Feb. 22, 1943.



FOR FRESH CITRUS FRUITS.
Claims use since July 1941.

Ser. No. 459,581. ROBERT F. HUNSICKER, doing business as Allen Products Company, Allentown, Pa. Filed Apr. 2, 1943.



FOR CANNED AND BOXED DOG FOODS.
Claims use since Jan. 1, 1941.

Ser. No. 459,913. THE SHOTWELL MFG. CO., Chicago, Ill. Filed Apr. 15, 1943.

"Hi-Mac"

FOR CANDY BARS.
Claims use since Feb. 12, 1943.

Ser. No. 460,184. JAVATONE MANUFACTURING COMPANY, doing business as Javatone Company, Los Angeles, Calif. Filed Apr. 26, 1943.

Javatone

FOR COFFEE SUBSTITUTE AND DILUTENT.
Claims use since Dec. 4, 1942.

Ser. No. 460,202. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill. Filed Apr. 26, 1943.

STOY

FOR SOY FLOUR.
Claims use since Apr. 17, 1943.

Ser. No. 460,206. ALLIED MILLS, INC., Chicago, Ill. Filed Apr. 27, 1943.



The application is the owner of Trade-Mark No. 167,278, registered Apr. 24, 1923.

FOR POULTRY FEED.
Claims use since Sept. 14, 1941.

CLASS 47

WINES

Ser. No. 457,751. QUALITY FRUIT WINES CORPORATION, Yonkers, N. Y. Filed Jan. 4, 1943.

BERRYCUP

FOR WINES.
Claims use since Oct. 8, 1942.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 459,358. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill. Filed Mar. 26, 1943.

Certain-teed

FOR BOTTLE CROWN DISCS.
Claims use since Jan. 20, 1943.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 22, 1943

401,955. PORTABLE OIL-BURNING HEATERS FOR DOMESTIC AND INDUSTRIAL COOKING PURPOSES. THE FINGLES COMPANY, Baltimore, Md.
Filed December 3, 1940. Serial No. 438,474. PUBLISHED APRIL 13, 1943. Class 34.

401,956. WRINGER ROLLS. MULLINS MANUFACTURING CORPORATION, Salem, Ohio.
Filed February 1, 1941. Serial No. 440,207. PUBLISHED APRIL 13, 1943. Class 24.

401,957. WRINGER ROLLS. MULLINS MANUFACTURING CORPORATION, Salem, Ohio.
Filed February 1, 1941. Serial No. 440,208. PUBLISHED APRIL 13, 1943. Class 24.

401,958. WOOD PRODUCTS TREATED WITH WOOD PRESERVATIVES—NAMELY, ROUGH LUMBER, DRESSED LUMBER, MILLWORK, MOLDING, DOORS, FRAMES, SASH, POLES, CROSSARMS, PILING, FENCE POSTS, AND CROSSTIES. CELCURE WOOD PRESERVING CORPORATION, Jacksonville, Fla.
Filed May 3, 1941. Serial No. 443,221. PUBLISHED APRIL 13, 1943. Class 12.

401,959. ELECTRIC FANS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed February 10, 1942. Serial No. 450,889. PUBLISHED MAY 12, 1942. Class 21.

401,960. SHEET ROOFING MATERIAL OF FELT BASE SATURATED WITH A BITUMINOUS SATURANT AND USED AS CONSTRUCTION MATERIAL. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y.
Filed February 17, 1942. Serial No. 451,030. PUBLISHED APRIL 13, 1943. Class 12.

401,961. CERAMIC GLAZED BRICK AND TILE STRUCTURAL BUILDING UNITS. HYDRAULIC-PRESS BRICK COMPANY, Indianapolis, Ind.
Filed March 5, 1942. Serial No. 451,412. PUBLISHED APRIL 13, 1943. Class 12.

401,962. BEEF CUTS. COUNTY FAIR PACKING CORP., Jamaica, N. Y.
Filed March 19, 1942. Serial No. 451,741. PUBLISHED APRIL 13, 1943. Class 46.

401,963. CIGARS AND CIGARETTES. CLARENCE C. FRANKLIN, Chicago, Ill.
Filed May 23, 1942. Serial No. 453,194. PUBLISHED APRIL 13, 1943. Class 17.

401,964. FEED CONCENTRATE FOR DUCKS. SEA BOARD SUPPLY CO., INC., Philadelphia, Pa.
Filed July 13, 1942. Serial No. 454,205. PUBLISHED APRIL 13, 1943. Class 46.

401,965. FEED CONCENTRATE FOR ANIMALS, PARTICULARLY HOGS. SEA BOARD SUPPLY CO., INC., Philadelphia, Pa.
Filed July 13, 1942. Serial No. 454,206. PUBLISHED APRIL 13, 1943. Class 46.

401,966. METAL TUBING, PLAIN AND FORMED. CALUMET AND HECLA CONSOLIDATED COPPER COMPANY, Boston, Mass.
Filed July 20, 1942. Serial No. 454,327. PUBLISHED NOVEMBER 17, 1942. Class 13.

401,967. WOMEN'S AND CHILDREN'S DRESSES MADE OF RAYON, COTTON, WOOL, SILK, AND MIXTURES THEREOF. SMARTCRAFT, New York, N. Y.
Filed August 20, 1942. Serial No. 455,010. PUBLISHED APRIL 6, 1943. Class 39.

401,968. KNITTING WOOLS. JOHN C. HORSFALL & SONS LIMITED, Glusburn, near Keighley, England.
Filed August 21, 1942. Serial No. 455,019. PUBLISHED MARCH 30, 1943. Class 43.

401,969. WINES. PASTENE WINE & SPIRITS CO., INC., Boston, Mass.
Filed September 10, 1942. Serial No. 455,458. PUBLISHED APRIL 6, 1943. Class 47.

401,970. CLEANING AND WASHING COMPOUNDS CONSISTING OF LAUNDRY SOURS, SILICATED ALKALIS CONTAINING SODIUM OXIDE AND SILICA, ALKALIS CONTAINING SODIUM COMPOUNDS, DRY CLEANERS, LAUNDRY SODAS, CLEANERS AND CLEANSERS ALL OF WHICH ARE FOR GENERAL LAUNDRY USE. DIAMOND ALKALI COMPANY, Pittsburgh, Pa.
Filed September 16, 1942. Serial No. 455,562. PUBLISHED APRIL 13, 1943. Class 4.

401,971. INTERLININGS AND STIFFENER FABRICS SOLD BOTH IN THE PIECE AND IN THE BOLT. THE KENDALL COMPANY, Walpole, Mass.
Filed October 8, 1942. Serial No. 456,077. PUBLISHED APRIL 13, 1943. Class 42.

401,972. COTTON PIECE GOODS. PACIFIC MILLS, Boston, Mass.
Filed October 15, 1942. Serial No. 456,221. PUBLISHED APRIL 6, 1943. Class 42.

401,973. MIXED COTTON AND RAYON PIECE GOODS. PACIFIC MILLS, Boston, Mass.
Filed October 15, 1942. Serial No. 456,222. PUBLISHED APRIL 6, 1943. Class 42.

401,974. POST CARDS CONTAINING PICTURES. PHILIP H. LASHER, doing business as Western Movie Supply Co., San Francisco, Calif.
Filed October 20, 1942. Serial No. 456,289. PUBLISHED APRIL 13, 1943. Class 38.

401,975. CANNED VEGETABLES. NATIONAL CANNERS ASSOCIATION, Wilmington, Del., and Washington, D. C.
Filed October 26, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 456,427. PUBLISHED APRIL 13, 1943. Class 46.

401,976. ELECTRICALLY DRIVEN SUCTION FAN WITH HOUSING AND DUCTS THEREFOR, AND PARTS THEREOF—NAMELY, AS ADAPTED TO CLEAN AWAY PARTICLES FROM A MECHANICAL OPERATION. AGET MANUFACTURING CO., Adrian, Mich.
Filed November 4, 1942. Serial No. 456,634. PUBLISHED APRIL 13, 1943. Class 21.

401,977. COMBINATION FOLDING FABRIC CLOTHES BASKETS AND CLOTHES-PIN HOLDERS. WELMAID PRODUCTS, Chicago, Ill.
Filed November 4, 1942. Serial No. 456,643. PUBLISHED APRIL 13, 1943. Class 2.

401,978. MECHANICAL PACKING—VIZ., PACKING RINGS, PACKING FOR PISTON RODS, PACKING FOR SLIDE VALVE RODS, AND PACKING FOR USE IN STUFFING BOXES. A. W. CHESTERTON COMPANY, Boston, Mass.
Filed November 18, 1942. Serial No. 456,884. PUBLISHED APRIL 13, 1943. Class 35.

401,979. SYNTHETIC RUBBER COMPOUND IN THE FORM OF A SOLID OR SPONGY MASS. VIKING CHEMICAL CORPORATION, New York, N. Y.
Filed December 3, 1942. Serial No. 457,194. PUBLISHED APRIL 13, 1943. Class 1.

401,980. FABRICS MADE OF RAYON, CELLULOSE ACETATE RAYON, SILK, COTTON, WOOL, AND MIXTURES THEREOF, IN THE PIECE. THE PAUL WHITIN MANUFACTURING COMPANY, Northbridge, Mass.
Filed December 7, 1942. Serial No. 457,259. PUBLISHED APRIL 13, 1943. Class 42.

401,981. FABRICS MADE OF RAYON, CELLULOSE ACETATE RAYON, SILK, COTTON, WOOL, AND MIXTURES THEREOF, IN THE PIECE. THE PAUL WHITIN MANUFACTURING COMPANY, Northbridge, Mass.
Filed December 7, 1942. Serial No. 457,260. PUBLISHED APRIL 13, 1943. Class 42.

401,982. FABRICS MADE OF RAYON, CELLULOSE ACETATE RAYON, SILK, COTTON, WOOL, AND MIXTURES THEREOF, IN THE PIECE. THE PAUL WHITIN MANUFACTURING COMPANY, Northbridge, Mass.
Filed December 7, 1942. Serial No. 457,261. PUBLISHED APRIL 13, 1943. Class 42.

401,983. RAYON YARN. THE HARTFORD RAYON CORPORATION, Rocky Hill, Conn.
Filed December 11, 1942. Serial No. 457,338. PUBLISHED FEBRUARY 23, 1943. Class 43.

401,984. PEANUTS AND NUT MEATS. WILLIAM HENRY ILIFF, Los Angeles, Calif.
Filed December 12, 1942. Serial No. 457,364. PUBLISHED APRIL 13, 1943. Class 46.

401,985. YARN. SPINNERIN YARN CO., INC., New York, N. Y.
Filed December 19, 1942. Serial No. 457,532. PUBLISHED FEBRUARY 23, 1943. Class 43.

401,986. JACKETS FOR MEN, WOMEN, AND CHILDREN. CHARLES A. BLOCK, doing business as H & L Block, San Francisco, Calif.
Filed December 21, 1942. Serial No. 457,537. PUBLISHED MARCH 30, 1943. Class 39.

401,987. CHILDREN'S SWEATERS, TWO-PIECE ROMPER SUITS, PANTS AND CREEPERS. ALPHA MILLS, Schuylkill Haven, Pa.
Filed December 22, 1942. Serial No. 457,560. PUBLISHED MARCH 23, 1943. Class 39.

401,988. DOLLS, DOG AND CAT TOYS—NAMELY, SIMULATED FIGURES OF LEATHER, AND COTTON, RAYON OR WOOLEN FABRICS, AND COMBINATIONS THEREOF, AND GAMES—NAMELY, BEAN BAGS, SAND SETS, TOY THEATRE SETS, AND PAPER CUTTING GAMES. ROSALIE M. CAMPBELL, New York, N. Y.
Filed December 24, 1942. Serial No. 457,585. PUBLISHED APRIL 13, 1943. Class 22.

401,989. PAINTS, ENAMELS, AND VARNISHES IN LIQUID AND CONCENTRATE FORM. NEW WRINKLE, INC., Dayton, Ohio.
Filed December 24, 1942. Serial No. 457,591. PUBLISHED APRIL 13, 1943. Class 16.

401,990. AMMUNITION CHESTS. THE CITY AUTO STAMPING COMPANY, Toledo, Ohio.
Filed December 28, 1942. Serial No. 457,624. PUBLISHED APRIL 13, 1943. Class 2.

401,991. WATER REPELLENT FABRICS IN THE PIECE OF COTTON, RAYON, AND COMBINATIONS THEREOF. EMILE MEYER, doing business as Haslin Mills, New York, N. Y.
Filed December 28, 1942. Serial No. 457,629. PUBLISHED MARCH 30, 1943. Class 42.

401,992. SEMIVITREOUS CHINA TABLEWARE. NATIONAL UNIT DISTRIBUTORS, INC., Boston, Mass.
Filed December 28, 1942. Serial No. 457,634. PUBLISHED APRIL 13, 1943. Class 30.

401,993. WEDDING AND ENGAGEMENT RINGS, CLIPS, BRACELETS, NOT INCLUDING WATCHES, BROOCHES, AND EARRINGS. SEA WAVE WEDDING & ENGAGEMENT RING, INC., New York, N. Y.
Filed December 29, 1942. Serial No. 457,643. PUBLISHED APRIL 13, 1943. Class 28.

401,994. WALL PAPER. UNITED WALL PAPER FACTORIES, INC., Chicago, Ill.
Filed January 7, 1943. Serial No. 457,798. PUBLISHED APRIL 13, 1943. Class 37.

401,995. INFANTS' AND CHILDREN'S CREEPERS, SWEATERS, TWO-PIECE ROMPER SUITS, PANTS, NIGHTGOWNS, AND PAJAMAS. ALPHA MILLS, Schuylkill Haven, Pa.
Filed January 8, 1943. Serial No. 457,801. PUBLISHED MARCH 30, 1943. Class 39.

401,996. LADIES' AND GIRLS' OVERALLS, OUTER SHIRTS, BLOUSES, JACKETS, DRESSES, SLACKS, SLACK-SUITS, COATS, AND SKIRTS. LOUIS GEIGER, INC., New York, N. Y.
Filed January 9, 1943. Serial No. 457,828. PUBLISHED APRIL 6, 1943. Class 39.

401,997. PAINTS, ENAMELS, AND VARNISHES IN LIQUID, READY-MIXED FORM, BOTH READY-MIXED AND AS A CONCENTRATE; AND PAINT OILS HAVING A LINSEED BASE. NEW WRINKLE, INC., Dayton, Ohio.
Filed January 9, 1943. Serial No. 457,837. PUBLISHED APRIL 13, 1943. Class 16.

401,998. SWEATERS AND HOSIERY. SAMUEL A. GOLDBERG, Chicago, Ill.
Filed January 11, 1943. Serial No. 457,853. PUBLISHED MARCH 23, 1943. Class 39.

401,999. TWINE. LUDLOW MANUFACTURING & SALES CO., Boston, Mass.
Filed January 14, 1943. Serial No. 457,917. PUBLISHED APRIL 13, 1943. Class 7.

402,000. HAND KNITTING YARN. CENTRAL YARN COMPANY, INC., Brooklyn, N. Y.
Filed January 16, 1943. Serial No. 457,947. PUBLISHED APRIL 6, 1943. Class 43.

402,001. WAX POLISH FOR LINOLEUM, WOOD FLOORS, RUBBER TILE, FURNITURE, AND THE LIKE. TURCO PRODUCTS, INC., Los Angeles, Calif.
Filed January 18, 1943. Serial No. 458,002. PUBLISHED APRIL 13, 1943. Class 16.

402,002. IMITATION COFFEE MADE FROM MALT WHICH CONTAINS NO CAFFEINE. JEANNE ADLER, doing business as Cofytex Sales Co., New York, N. Y.
Filed January 20, 1943. Serial No. 458,027. PUBLISHED APRIL 13, 1943. Class 46.

402,003. PRESSURE SENSITIVE ADHESIVE TAPES. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J.
Filed January 20, 1943. Serial No. 458,040. PUBLISHED APRIL 13, 1943. Class 5.

402,004. LADIES' AND MEN'S HOSIERY. SAMUEL O. STONE, JR., doing business as Hos-O-Mat, Concord, N. C.
Filed January 20, 1943. Serial No. 458,050. PUBLISHED MARCH 23, 1943. Class 39.

402,005. WATCHES. ICEK M. TENENBAUM, doing business as Tenens Watch Co., Great Neck, N. Y.
Filed January 20, 1943. Serial No. 458,051. PUBLISHED APRIL 13, 1943. Class 27.

402,006. LADIES' AND MISSES' SUITS, JACKETS, SKIRTS, DRESSES, COATS, DRESS ENSEMBLES, AND BLOUSES. DAVIDOW, INC., New York, N. Y.
Filed January 21, 1943. Serial No. 458,063. PUBLISHED MARCH 23, 1943. Class 39.

402,007. LIQUID CLEANSING COMPOSITION FOR SURGICAL INSTRUMENTS. MEINECKE & Co. INC., New York, N. Y.
Filed January 21, 1943. Serial No. 458,078. PUBLISHED APRIL 13, 1943. Class 4.

402,008. SUITCASES, LUGGAGE-CARRYING CASES, AND WARDROBE SUITCASES. HARTMANN TRUNK COMPANY, Racine, Wis.
Filed January 23, 1943. Serial No. 458,115. PUBLISHED APRIL 13, 1943. Class 3.

402,009. WINES. JOSEPH MUTASCIO, doing business as Prosperity California Wines, New York, N. Y.
Filed January 23, 1943. Serial No. 458,118. PUBLISHED APRIL 13, 1943. Class 47.

402,010. TABLE HOLLOW WARE MADE OF NON-PRECIOUS METAL. AMERICAN ART ALLOYS, INC., Kokomo, Ind.
Filed January 25, 1943. Serial No. 458,137. PUBLISHED APRIL 13, 1943. Class 13.

402,011. TABLE HOLLOW WARE MADE OF NON-PRECIOUS METAL. AMERICAN ART ALLOYS, INC., Kokomo, Ind.
Filed January 25, 1943. Serial No. 458,138. PUBLISHED APRIL 13, 1943. Class 13.

402,012. DRY CLEANING DETERGENT. R. R. STREET & Co. INC., Chicago, Ill.
Filed January 25, 1943. Serial No. 458,162. PUBLISHED APRIL 13, 1943. Class 4.

402,013. HOSIERY. HATCH FULL FASHIONED HOSIERY Co., Belmont, N. C.
Filed January 27, 1943. Serial No. 458,191. PUBLISHED MARCH 30, 1943. Class 39.

402,014. MISSES' AND JUNIOR MISSES' COATS, SUITS, AND COAT AND SUIT ENSEMBLES. FASHION TOWNE, INC., New York, N. Y.
Filed January 30, 1943. Serial No. 458,237. PUBLISHED APRIL 13, 1943. Class 39.

402,015. FRESH NATURAL GRANULAR WHEAT EMBRYO. SPARK-O-LIFE COMPANY, Kansas City, Kans.
Filed February 4, 1943. Serial No. 458,345. PUBLISHED APRIL 13, 1943. Class 46.

402,016. CANDY. VOLPIT CHEWING CANDY Co., INC., Long Island City, N. Y.
Filed February 6, 1943. Serial No. 458,378. PUBLISHED APRIL 13, 1943. Class 46.

402,017. MEN'S AND BOYS' SLACK SUITS. SEARS, ROEBUCK AND Co., Chicago, Ill.
Filed February 8, 1943. Serial No. 458,411. PUBLISHED APRIL 13, 1943. Class 39.

402,018. WOMEN'S, MISSES', AND GIRLS' WEARING APPAREL—NAMELY, DRESSES, SUITS, BLOUSES, SLACKS, PLAY SUITS, BATHING SUITS, SWEATERS, SKIRTS, JACKETS, AND JUMPERS. SUPREME SPORTSWEAR Co., St. Louis, Mo.
Filed February 8, 1943. Serial No. 458,416. PUBLISHED APRIL 6, 1943. Class 39.

402,019. GAMES PLAYED WITH CARDS AND EQUIPMENT, THE CARDS BEARING INSTRUCTIONAL DATA AND SAID EQUIPMENT COMPRISING FIGURES AND VARIOUS AND SUNDRY ARTICLES OF WEARING APPAREL ADAPTED TO BE PLACED ON AND REMOVED FROM THE FIGURES ACCORDING TO THE INSTRUCTIONS CONTAINED ON THE CARDS. CECIL L. JENSEN, Glen Ellyn, Ill.
Filed February 11, 1943. Serial No. 458,475. PUBLISHED APRIL 13, 1943. Class 22.

402,020. LADIES' AND MISSES' DRESSES, COATS, DRESS AND JACKET ENSEMBLES, SUITS, BLOUSES, SKIRTS, COVERALLS, AND JUMPERS. TOWNLEY FROCKS, INC., New York, N. Y.
Filed February 15, 1943. Serial No. 458,555. PUBLISHED APRIL 13, 1943. Class 39.

402,021. LADIES' AND MISSES' DRESSES, COATS, DRESS AND JACKET ENSEMBLES, SUITS, BLOUSES, SKIRTS, COVERALLS, AND JUMPERS. TOWNLEY FROCKS, INC., New York, N. Y.
Filed February 15, 1943. Serial No. 458,556. PUBLISHED APRIL 13, 1943. Class 39.

402,022. MAGAZINE FOR ALL WOMEN WHO WRITE, A PUBLICATION FOR SALE TO THE PUBLIC, SCHOOLS, LIBRARIES, AND INDIVIDUALS. THETA SIGMA PHI, Chicago, Ill.
Filed February 10, 1943. Serial No. 458,560. PUBLISHED APRIL 13, 1943. Class 38.

402,023. CANNED FISH. THE BELL SMOKED FISH Co., San Francisco, Calif.
Filed February 19, 1943. Serial No. 458,622. PUBLISHED APRIL 13, 1943. Class 46.

402,024. CANDIES AND CHOCOLATES. MASON, AU & MAGENHEIMER CONF. MFG. Co., Brooklyn, N. Y.
Filed February 20, 1943. Serial No. 458,659. PUBLISHED APRIL 13, 1943. Class 46.

402,025. DETERGENTS USED IN PROCESSING OF TEXTILES. ARKANSAS COMPANY, INC., Newark, N. J.
Filed February 22, 1943. Serial No. 458,674. PUBLISHED APRIL 13, 1943. Class 4.

402,026. YARNS COMPOSED OF COTTON, WOOL, RAYON, AND WORSTED, AND COMBINATIONS THEREOF. BADGER WORSTED MILLS, Grafton, Wis.
Filed February 24, 1943. Serial No. 458,717. PUBLISHED APRIL 13, 1943. Class 43.

402,027. FRESH VEGETABLES. N. GIANANDREA, doing business as Valley Growers Exchange, San Jose, Calif.
Filed February 24, 1943. Serial No. 458,720. PUBLISHED APRIL 13, 1943. Class 46.

402,028. WHEAT FLOUR. INTERNATIONAL MILLING COMPANY, Minneapolis, Minn.
Filed February 24, 1943. Serial No. 458,733. PUBLISHED APRIL 13, 1943. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,029. (CLASS 38. PRINTS AND PUBLICATIONS.) BROADCASTING PUBLICATIONS, INC., Washington, D. C.
Filed Feb. 1, 1941. Serial No. 440,187.

BROADCASTING
The Weekly Newsmagazine of Radio Broadcast Advertising

FOR WEEKLY PERIODICAL IN THE NATURE OF A TRADE MAGAZINE CONTAINING ADVERTISING, NEWS, AND COMMENTS ON RADIO BROADCASTING.
Claims use since Feb. 15, 1933.

402,030. (CLASS 38. PRINTS AND PUBLICATIONS.) BROADCASTING PUBLICATIONS, INC., Washington, D. C.
Filed Feb. 1, 1941. Serial No. 440,188.

BROADCASTING

FOR WEEKLY PERIODICAL IN THE NATURE OF A TRADE MAGAZINE CONTAINING ADVERTISING, NEWS, AND COMMENTS ON RADIO BROADCASTING.
Claims use since Oct. 15, 1931.

402,031. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) THE HAEGER POTTERIES, INCORPORATED, Dundee, Ill. Filed May 15, 1941. Serial No. 443,602.

Haeger

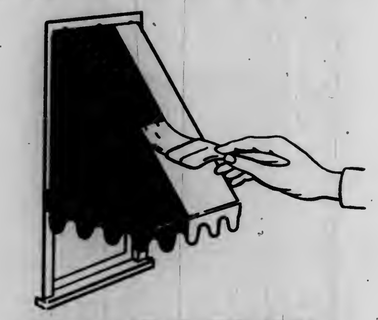
FOR VASES, BOWLS, FLOWERPOTS, CONSOLE SETS, AND NOVELTY PLANT OR FLOWER HOLDERS, MADE OF EARTHENWARE AND PORCELAIN.
Claims use since 1914.

402,032. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARIDYE CORPORATION, Fair Lawn, N. J.
Filed Dec. 17, 1941. Serial No. 449,537.

Setfast

FOR PAINTS IN READY-MIXED FORM.
Claims use since Nov. 28, 1941.

402,033. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARIDYE CORPORATION, Fair Lawn, N. J.
Filed Jan. 23, 1942. Serial No. 450,412.



FOR PAINTS IN READY-MIXED FORM.
Claims use since Jan. 8, 1942.

402,034. (CLASS 48. MALT BEVERAGES AND LIQUORS.) MOUNT CARBON BREWERY, Pottsville, Pa.
Filed Feb. 7, 1942. Serial No. 450,837.

MT. CARBON
Old German
BRAND

FOR BEER.
Claims use since Jan. 19, 1942.

402,035. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WALTER H. WILKENING, doing business as Gemetal Company, Cincinnati, Ohio.
Filed Feb. 27, 1942. Serial No. 451,276.

Gemetal

FOR SILVER POLISH AND JEWELRY CLEANER.
Claims use since November 1935.

402,036. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE PERMANENTE METALS CORPORATION, Oakland, Calif. Filed Mar. 16, 1942. Serial No. 451,651.

PERMANENTE

FOR MAGNESIUM AD MAGNESIUM ALLOYS.
Claims use since Jan. 15, 1942.

402,037. (CLASS 37. PAPER AND STATIONERY.) AMERICAN SALES BOOK COMPANY, INC., Niagara Falls and Elmira, N. Y. Filed Mar. 18, 1942. Serial No. 451,702.

METERCHEK

FOR RECORD BLANK FORMS—NAMELY, MANIFOLDING RECORD SETS HAVING RECORD BLANK FORMS WITH INTERLEAVED TRANSFER MATERIAL, INCLUDING SUCH SETS HAVING BLANK FORMS FOR USE AS FUEL OIL DELIVERY SLIPS.
Claims use since Dec. 11, 1941.

402,038. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) ED. PHILLIPS & SONS COMPANY, Minneapolis, Minn. Filed Apr. 9, 1942. Serial No. 452,250.

de ESPAY frères

FOR A BRANDY BLEND.
Claims use since Oct. 28, 1941.

402,039. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) ED. PHILLIPS & SONS COMPANY, Minneapolis, Minn. Filed Apr. 9, 1942. Serial No. 452,251.

LIQUEUR de SECTOR

FOR LIQUEUR.
Claims use since Sept. 15, 1941.

402,040. (CLASS 43. THREAD AND YARN.) THE LEON-FERENBACH SILK COMPANY, INC., New York N. Y., Wilkes-Barre, Pa., and Johnson City, Tenn., now by change of name Leon-Ferenbach Incorporated. Filed May 6, 1942. Serial No. 452,829.

Superset

FOR RAYON YARN.
Claims use since Mar. 20, 1942.

402,041. (CLASS 48. MALT BEVERAGES AND LIQUORS.) MOUNT CARBON BREWERY, Pottsville, Pa. Filed May 25, 1942. Serial No. 453,250.

MT. CARBON

Old Bohemian Beer

FOR BEER.
Claims use since Apr. 25, 1942.

402,042. (CLASS 37. PAPER AND STATIONERY.) JOHN A. SMITH, Ponca City, Okla. Filed Jan. 26, 1943. Serial No. 458,185.

"Out of The West"

FOR STATIONERY—NAMELY, LETTERHEADS AND ENVELOPES.
Claims use since Feb. 15, 1942.

402,043. (CLASS 38. PRINTS AND PUBLICATIONS.) ANNUAL REVIEWS, INC., Stanford University, Calif. Filed Feb. 5, 1943. Serial No. 458,352.

ANNUAL REVIEW OF BIOCHEMISTRY

FOR A PUBLICATION PUBLISHED ANNUALLY REVIEWING MATTERS DEALING WITH BIOCHEMISTRY.
Claims use since May 1932.

402,044. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE THEW SHOVEL COMPANY, Lorain, Ohio. Filed Mar. 8, 1943. Serial No. 458,975.

LORAIN

FOR POWER CRANES, POWER SHOVELS, AND POWER DRAGLINE MACHINES.
Claims use since Jan. 1, 1926.

402,045. (CLASS 39. CLOTHING.) STAVISKY LINING CO., New York, N. Y. Filed Mar. 27, 1943. Serial No. 459,441.

'TAILOR-FASHUN' Formfront

FOR CUT-OUT INTERLININGS AND INTERFACINGS FOR GARMENTS.
Claims use since Mar. 10, 1942.

402,046. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) COLLEGE INN FOOD PRODUCTS COMPANY, Chicago, Ill. Filed Apr. 9, 1943. Serial No. 459,726.

CAVENHAM CLUB

FOR A BLENDED WHISKEY.
Claims use since Oct. 18, 1941.

402,047. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARNER & STEWART, Yuma, Ariz. Filed Apr. 14, 1943. Serial No. 459,893.

Warner Stewart

FOR FRESH VEGETABLES AND MELONS.
Claims use since December 1941.

402,048. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CANNON MILLS COMPANY, Kannapolis, N. C. Filed Apr. 19, 1943. Serial No. 459,979.

Edgemont

FOR SHEETS AND PILLOWCASES.
Claims use since January 1940.

402,049. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CANNON MILLS COMPANY, Kannapolis, N. C. Filed Apr. 19, 1943. Serial No. 459,980.

MONTEREY

FOR SHEETS AND PILLOWCASES.
Claims use since November 1938.

TRADE-MARK REGISTRATIONS RENEWED

23,160. **STANDARD.** SEWING MACHINES. Registered May 30, 1893. THE STANDARD SEWING MACHINE COMPANY, Cleveland, Ohio. Re-renewed May 30, 1943, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey, assignee by mesne assignments.

23,770. **H—O.** OATMEAL AND SIMILAR OAT FOODS. Registered October 31, 1893. THE H—O (HORNBY'S OATMEAL) COMPANY. Re-renewed October 31, 1943, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey, assignee.

167,278. **ECONOMY.** STOCK AND POULTRY FEED. Registered April 24, 1923. M. C. PETERS MILL CO,. Omaha, Nebr. Renewed April 24, 1943, to Allied Mills, Inc., Chicago, Ill., a corporation of Indiana, successor.

161,406. **RAYFIELD.** CARBURETORS, THERMOSTATIC CONTROLS FOR INTERNAL-COMBUSTION ENGINES, COOLING SYSTEMS FOR HYDROCARBON ENGINES, DASH CONTROLS FOR CARBURETORS. Registered November 14, 1922. BENEKE & KROPF MANUFACTURING COMPANY. Renewed November 14, 1942, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois, successor.

167,473. **"THE COOK'S" AND DRAWING.** GRATED CHEESE. Registered May 1, 1923. D. COLONNA & SON, Union Hill, N. J. Renewed May 1, 1943, to J. Colonna Bros., North Bergen, N. J., a firm, assignee.

167,485. **WILGLEN.** CLOTHS AND STUFFS OF WOOL, WORSTED, OR HAIR; VESTINGS, COTTON CLOTH, AND LINEN CLOTH. Registered May 1, 1923. WILSON & GLENNY LTD., Hawick, Scotland, an incorporated company of Great Britain and Northern Ireland. Renewed May 1, 1943.

167,683. **CASTANADA.** TOILET SOAP. Registered May 8, 1923. ANDREW JERGENS COMPANY OF CALIFORNIA, Burbank, Calif. Renewed May 8, 1943, to The Andrew Jergens Company, Cincinnati, Ohio, a corporation of Ohio, assignee.

167,698. **IMPERIAL PEARL.** FRESH CANTALOUPES. Registered May 8, 1923. SAWDEY AND HUNT, Los Angeles, Calif. Renewed May 8, 1943, to Curtis I. Sawdey, doing business as Sawdey Farms Company, Los Angeles and El Centro, Calif., assignee by mesne assignments.

167,853. **BLEACHO.** CERTAIN NAMED TOILET AND MEDICINAL PREPARATIONS. Registered May 8, 1923. JOSEPH HENRY KARP, doing business as Bleacho Golden Hair Rinse Co., New York, N. Y. Renewed May 8, 1943.

167,878. **BLEACHO.** CERTAIN NAMED CHEMICALS AND BLEACHES AND OTHER CHEMICAL PREPARATIONS. Registered May 8, 1923. JOSEPH HENRY KARP, doing business as Bleacho Golden Hair Rinse Co., New York, N. Y. Renewed May 8, 1943.

168,048. **GIT UM DUST.** CHEMICALLY-TREATED CLEANING CLOTHS FOR FURNITURE, AUTOMOBILES, AND SIMILAR ARTICLES EMBODYING MATERIAL WHICH WILL COLLECT DUST. Registered May 15, 1923. LESLIE P. GALBRAITH, Pueblo, Colo. Renewed May 18, 1943, to The Auto-Supplies Mfg. Co., Inc., Denver, Colo., a corporation of Colorado, assignee.

168,480. **"K C P C" AND DRAWING.** CANNED FRUITS. Registered May 22, 1923. KINGS COUNTY PACKING CO., Armona, Calif. Renewed May 22, 1943, to Kings County Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

168,598. **BLUE TOT.** CANNED FRUITS AND VEGETABLES. Registered May 29, 1923. KINGS COUNTY PACKING CO., Armona, Calif. Renewed May 29, 1943, to Kings County Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

168,702. **"HEART OF AMERICA" AND DRAWING.** FRESH TOMATOES. Registered May 29, 1923. UNION CELERY COMPANY, Kansas City, Mo. Renewed May 29, 1943, to J. J. De Maria, Merriam, Kans., assignee.

168,736. **AUTO-LIFE.** POLISH USED FOR POLISHING ENAMELLED, PAINTED, OR VARNISHED SURFACES. Registered May 29, 1923. SHELDON BOOTH & Co., Chicago, Ill. Renewed May 29, 1943, to The A. S. Boyle Company, Jersey City, N. J., a corporation of Ohio, assignee by mesne assignments.

168,802. **"CRESTO" AND DRAWING.** CALCIMINE. Registered May 29, 1923. THE REARDON COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed May 29, 1943.

169,207. **KING'S DELIGHT.** CANNED FRUITS AND VEGETABLES. Registered June 12, 1923. KINGS COUNTY PACKING COMPANY, Armona, Calif. Renewed June 12, 1943, to Kings County Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

169,305. **BLUE FEATHER.** CANNED FRUITS. Registered June 12, 1923. KINGS COUNTY PACKING CO., Armona, Calif. Renewed June 12, 1943, to Kings County Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

169,661. **NOKORODE.** SOLDERING FLUX IN SALTS, PASTE, AND FLUID FORMS. Registered June 26, 1923. FRANK CHAPMAN, doing business as The M. W. Dunton Co. Renewed June 26, 1943, to The M. W. Dunton Company, Providence, R. I., a corporation of Rhode Island, assignee.

170,439. **UNIVERSITY.** MEN'S LEATHER GLOVES. Registered July 17, 1923. JOHN WANAMAKER NEW YORK, New York, N. Y., a corporation of New York. Renewed July 17, 1943.

170,624. **ESQUIRE.** TOBACCO PIPES. Registered July 17, 1923. DELACOUR BROS. LTD. Renewed July 17, 1943, to Delco Briars Limited, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, assignee.

170,666. **WOLF CREEK.** SOAPS, BOTH IN THE FORM OF CAKES AND IN THE FORM OF CHIPS. Registered July 17, 1923. THE WOLF CREEK SOAP WORKS COMPANY, Dayton, Ohio, a corporation of Ohio. Renewed July 17, 1943.

170,667. **MILADY.** COFFEE, RICE, AND EVAPORATED MILK. Registered July 17, 1923. H. P. LAU Co., Lincoln, Nebr., a corporation of Nebraska. Renewed July 17, 1943.

170,680. **"P" AND DRAWING.** CERTAIN NAMED SHARPENING STONES, STONES FOR GRINDING PURPOSES, GRINDING DISKS AND WHEELS, HONES AND STROPS. Registered July 17, 1923. PIKE MANUFACTURING COMPANY, Pike and Littleton, N. H., Evansville, Vt., New York, N. Y., Orleans, Ind., and Hot Springs, Ark. Renewed July 17, 1943, to Norton Pike Company, Littleton, N. H., a corporation of Massachusetts, assignee by mesne assignments.

170,697. **"THE H—O MILLS" AND DRAWING.** FLOUR MADE FROM CERTAIN CEREALS, AND OTHER CERTAIN NAMED CEREAL PRODUCTS. Registered July 24, 1923. THE H—O CEREAL COMPANY, INC., Buffalo, N. Y. Renewed July 24, 1943, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey, by merger.

170,755. **MIRROR.** NAIL POLISH. Registered July 24, 1923. HENRY L. HUGHES CO. INC. Renewed July 24, 1943, to Hughes-Autograf Brush Co., Inc., New York, N. Y., a corporation of New York, by change of name.

170,855. **KEEP-FIT.** POULTRY FEEDS. Registered July 24, 1923. THE H—O CEREAL COMPANY, INC., Buffalo, N. Y. Renewed July 24, 1943, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey, by merger.

171,177. **"RICHMOND MAID" AND DRAWING.** COFFEE. Registered July 31, 1923. THE LAIRD MANUFACTURING CO., INC. Renewed July 31, 1943, to Rich Maid Manufacturing Company, Inc., Richmond, Va., a corporation of Virginia, by change of name.

171,323. **GOLDEN ORCHARD.** CANNED FRUITS. Registered August 7, 1923. KINGS COUNTY PACKING CO., Armona, Calif. Renewed August 7, 1943, to Kings County Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

171,328. **SHERBICLE.** SHERBET BARS. Registered August 7, 1923. COVERDALE & BRUEBAKER, Sioux City, Iowa. Renewed August 7, 1943, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

171,350. **"PIKE" AND DRAWING.** CERTAIN NAMED SHARPENING STONES, STONES FOR GRINDING PURPOSES, GRINDING DISKS AND WHEELS, HONES, AND STROPS. Registered August 7, 1923. PIKE MANUFACTURING COMPANY, Pike and Littleton, N. H., Evansville, Vt., New York, N. Y., Orleans, Ind., and Hot Springs, Ark. Renewed August 7, 1943, to Norton Pike Company, Littleton, N. H., a corporation of Massachusetts, assignee by mesne assignments.

171,357. **MAN OF WAR.** CANNED SALMON. Registered August 7, 1923. CHINOOK PACKING COMPANY, Chinook, Wash., a corporation of Washington. Renewed August 7, 1943.

171,553. **SPONGE.** PETROLEUM AND PRODUCTS OF PETROLEUM WITH OR WITHOUT ADMIXTURES OF OTHER MATERIALS FOR ILLUMINATING AND HEATING, LUBRICATING, GREASING, SOLVENT, WATERPROOFING, RUST-PREVENTING, SURFACE-PRESERVING, AND TEMPERING. Registered August 7, 1923. STANDARD OIL COMPANY OF NEW YORK. Renewed August 7, 1943, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, by changes of name.

171,556. **TUNNEL.** PETROLEUM AND PRODUCTS OF PETROLEUM WITH OR WITHOUT ADMIXTURES OF OTHER MATERIALS FOR ILLUMINATING AND HEATING, LUBRICATING, GREASING, SOLVENT, WATERPROOFING, RUST PREVENTING, SURFACE PRESERVING, AND TEMPERING. Registered August 7, 1923. STANDARD OIL COMPANY OF NEW YORK. Renewed August 7, 1943, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, by changes of name.

171,816. **"METRO PICTURES" AND DRAWING.** MOTION PICTURE FILMS. Registered August 14, 1923. METRO PICTURES CORPORATION, New York, N. Y. Renewed August 14, 1943, to Loew's Incorporated, Dover, Del., a corporation of Delaware, assignee by mesne assignments.

171,839. **KINGS FANCY.** CANNED FRUITS AND VEGETABLES. Registered August 14, 1923. KINGS COUNTY PACKING CO., Armona, Calif. Renewed August 14, 1943, to Kings County Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

172,143. **BONDCRETE.** CALCINED GYPSUM, STUCCO AND WALL PLASTERS. Registered August 21, 1923. UNITED STATES GYPSUM COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 21, 1943.

172,145. **GYP-LAP.** PLASTER BOARD AND PLASTER WALL BOARD. Registered August 21, 1923. UNITED STATES GYPSUM COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 21, 1943.

172,680. **"GLOBE LABORATORIES" AND DRAWING.** ANTI-HOG CHOLERA SERUMS, HOG-CHOLERA VIRUS, CERTAIN BACTERIUS AND VACCINE FOR SWINE, AND CERTAIN BACTERIUS FOR CATTLE AND SHEEP. Registered September 11, 1923. GLOBE LABORATORIES, Fort Worth, Tex., a corporation of Texas. Renewed September 11, 1943.

172,798. **NO. 6.** CLEANSER, DISINFECTANT AND DEODORIZER. Registered September 11, 1923. UNITED CHEMICAL COMPANIES. Renewed September 11, 1943, to United Chemical Company, Inc., Kansas City, Mo., a corporation of Missouri, assignee.

172,812. **"COLONIAL" AND DRAWING.** DAIRY FEED. Registered September 11, 1923. THE ALBERT DICKINSON COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,927. **RED TOP.** CALCINED GYPSUM WALL PLASTERS. Registered September 11, 1923. UNITED STATES GYPSUM COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,965. **"PINE TREE" AND DRAWING.** POULTRY FEED. Registered September 11, 1923. THE ALBERT DICKINSON COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,992. **ROVER.** MOTOR CARS, BICYCLES, TRICYCLES ADAPTED TO BE USED BOTH BY CHILDREN AND ADULTS, AND MOTOR CYCLES. Registered September 11, 1923. ROVER COMPANY, LIMITED, Coventry, England. Renewed September 11, 1943, to The Rover Company Limited, Chesford Grange, near Kenilworth, England, a corporation of Great Britain.

173,041. **DETROIT.** LOCOMOTIVE LUBRICATORS, STATIONARY LUBRICATORS, AND OIL CUPS. Registered September 11, 1923. DETROIT LUBRICATOR COMPANY, Detroit, Mich., a corporation of Michigan. Renewed September 11, 1943.

173,345. **KING-KO.** CANNED AND PRESERVED FIGS, CANNED FRUITS, AND CANNED VEGETABLES. Registered September 25, 1923. KINGS COUNTY PACKING CO., Armona, Calif. Renewed September 25, 1943, to Kings County Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

173,669. **CHICAGO SUNDAY TRIBUNE.** NEWSPAPER AND NEWSPAPER SUPPLEMENTS PUBLISHED WEEKLY. Registered October 2, 1923. TRIBUNE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 2, 1943.

173,689. **RESILINE.** ALL-WOOL TEXTILE PIECE GOODS USED PRINCIPALLY TO MAKE INTERLININGS FOR SILK NECKWEAR. Registered October 2, 1923. W. H. HOLBROOK COMPANY, Boston, Mass. Renewed October 2, 1943, to Myron B. Levy Co. Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

173,732. **LUISANT.** WOOLEN GOODS IN THE PIECE. Registered October 2, 1923. WORUMBO MANUFACTURING COMPANY, Bath, Maine. Renewed October 2, 1943, to Worumbo Manufacturing Company, Lisbon Falls, Maine, a corporation of Maine.

173,844. **SNO-KIST.** CANNED SALMON. Registered October 2, 1923. CHINOOK PACKING COMPANY, Chinook, Wash., a corporation of Washington. Renewed October 2, 1943.

173,905. **REPRESENTATION OF A TORCH AND SERPENT.** LYE. Registered October 2, 1923. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 2, 1943.

173,906. **REPRESENTATION OF A LION.** LYE. Registered October 2, 1923. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 2, 1943.

173,907. **AMERICAN.** LYE. Registered October 2, 1923. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 2, 1943.

174,202. **"CHM" AND DRAWING.** COTTON PIECE GOODS. Registered October 9, 1923. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed October 9, 1943.

174,229. **UNCLE WIGGILY.** ENVELOPES, WRITING PAPER, PADS, DRAWING PAPER, CARDBOARD, TISSUE PAPER, AND PENCILS. Registered October 9, 1923. FRED A. WISH, INCORPORATED, New York, N. Y. Renewed October 9, 1943, to Howard R. Garis, East Orange, N. J., assignee.

174,230. **UNCLE WIGGILY.** METAL AND PAPER FANCY CONTAINERS AND BOXES. Registered October 9, 1923. FRED A. WISH, INCORPORATED, New York, N. Y. Renewed October 9, 1943, to Howard R. Garis, East Orange, N. J., assignee.

174,338. **ICEBERGS.** CONFECTION COMPRISING A FROZEN EDIBLE MATERIAL COVERED WITH A COATING OF HARDENED CHOCOLATE. Registered October 16, 1923. H. P. HOOD & SONS, INC., Boston, Mass., a corporation of Massachusetts. Renewed October 16, 1943.

174,403. **MUR-COP.** BOAT PAINT. Registered October 16, 1923. WESTCOTT, SLADE AND BALCOM COMPANY, Provi[illegible] R. I., a corporation of Rhode Island. Renewed [illegible]er 16, 1943.

174,447. **"BERKELEY" AND DRAWING.** GROUND LIME AND HYDRATED LIME. Registered October 16, 1923. SECURITY CEMENT & LIME CO., Hagerstown, Md. Renewed October 16, 1943, to North American Cement Corporation, New York, N. Y., a corporation of Delaware, assignee.

174,509. **DETROIT.** METAL VALVES FOR PIPE LINES AND THE LIKE. Registered October 16, 1923. DETROIT LUBRICATOR COMPANY, Detroit, Mich., a corporation of Michigan. Renewed October 16, 1943.

174,583. **UNCLE WIGGILY.** HOSIERY, SLEEPING GARMENTS, BIBS, AND APRONS. Registered October 23, 1923. FRED A. WISH, INCORPORATED, New York, N. Y. Renewed October 23, 1943, to Howard R. Garis, East Orange, N. J., assignee.

174,748. **EL VENADO.** CANNED FRUITS. Registered October 23, 1923. KINGS COUNTY PACKING CO., Armona, Calif. Renewed October 23, 1943, to Kings County Packing Company, Ltd., San Francisco, Calif., a corporation of California, successor.

174,759. **INVESTORS' GUIDE.** HEADING FOR A NEWSPAPER COLUMN. Registered October 23, 1923. TRIBUNE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 23, 1943.

174,806. **UNCLE WIGGILY.** BATH SOAP. Registered October 23, 1923. FRED A. WISH, INCORPORATED, New York, N. Y. Renewed October 23, 1943, to Howard R. Garis, East Orange, N. J.

174,809. **KADOX.** ZINC OXIDE INTENDED PRIMARILY AS A COMPOUNDING PIGMENT FOR INCORPORATION IN RUBBER COMPOUNDS. Registered October 23, 1923. THE NEW JERSEY ZINC COMPANY, Newark and Franklin, N. J. Renewed October 23, 1943, to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey.

174,985. **"DRILOX 200" AND DRAWING.** WOVEN COTTON FABRICS IN THE PIECE. Registered October 30, 1923. GEORGE ALBERT STAFFORD, doing business as G. A. Stafford & Company. Renewed October 30, 1943, to G. A. Stafford & Company, Inc., New York, N. Y., a corporation of Virginia, assignee.

174,987. **"ARISTOCRAT" AND DRAWING.** MEN'S AND BOYS' SUITS, OVERCOATS, AND HATS. Registered October 30, 1923. L. KLEIN, INC., Chicago, Ill., a corporation of Illinois. Renewed October 30, 1943.

174,991. **"BEST BY TEST" AND DRAWING.** FISHING RODS AND POLES AND OTHER CERTAIN NAMED FISHING TACKLE AND ACCESSORIES. Registered October 30, 1923. HORROCKS-IBBOTSON CO., Utica, N. Y., a corporation of New York. Renewed October 30, 1943.

175,035. **SUPERIOR.** SEEDING IMPLEMENTS, PARTICULARLY GRAIN DRILLS AND BROAD-CAST SEEDERS. Registered October 30, 1943. THE AMERICAN SEEDING MACHINE COMPANY, Springfield, Ohio. Renewed October 30, 1943, to Oliver Farm Equipment Company, Chicago, Ill., a corporation of Delaware, assignee.

175,070. **THE LUCKY DOG KIND.** ATHLETIC SHIRTS, JERSEYS, AND SWEATERS. Registered October 30, 1923. THE DRAPER-MAYNARD COMPANY, Plymouth, N. H. Renewed October 30, 1943, to Sport Products, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

175,072. **"HASN'T SCRATCHED YET" AND DRAWING.** SCOURING SOAP IN CAKE OR POWDER FORM. Registered October 30, 1923. THE BON AMI COMPANY, New York, N. Y., a corporation of Delaware. Renewed October 30, 1943.

175,078. **FRACTO.** OIL CONDENSERS, HEAT EXCHANGERS, AND DEPHLEGMATORS. Registered October 30, 1923. C. H. LEACH COMPANY, Boston, Mass. Renewed October 30, 1943, to C. H. Leach Company, Englewood, N. J., a corporation of New Jersey, assignee.

175,089. **CELORON.** A CERTAIN NAMED LAMINATED PHENOLIC CONDENSATION PRODUCT. Registered October 30, 1923. DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa. Renewed October 30, 1943, to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware, assignee.

175,090. **"VULCAN" AND DRAWING.** OFFSET BLANKETS, RUBBER SHEETINGS, SHEET RUBBER, RUBBERIZED PIANO-PLAYER CLOTHS AND RUBBERIZED AUTO TOP FABRICS, AND RUBBERIZED FABRIC OF ANY DESCRIPTION. Registered October 30, 1923. VULCAN PROOFING COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed October 30, 1943.

175,110. **GILTEDGE.** MOLASSES. Registered October 30, 1923. WM. WIRT WICKES & SON. Renewed October 30, 1943, to W. Wirt Wickes & Son, New York, N. Y., a corporation of New York, assignee.

175,129. **AL-LON.** IRONING BOARD PADS AND COVERS, AND WASHABLE MATTRESS COVERS, ALL BEING MADE OF TEXTILE FABRICS. Registered October 30, 1923. AL-LON MANUFACTURING COMPANY, INC., Baltimore, Md., a corporation of Maryland. Renewed October 30, 1943.

175,168. **ARCAIRIS.** SEWING SILK. Registered October 30, 1923. THE H. K. H. SILK CO., Watertown, Conn. Renewed October 30, 1943, to Belding Heminway Company, New York, N. Y., a corporation of Connecticut, assignee.

175,172. **SOFTEX.** HANDKERCHIEFS. Registered October 30, 1923. DRUGGISTS' SUPPLY CORPORATION, New York, N. Y., a corporation of New York. Renewed October 30, 1943.

175,442. **DEPENDON.** GUMMED PAPER. Registered November 6, 1923. IDEAL COATED PAPER COMPANY, assignor to McLaurin-Jones Co. Renewed November 6, 1943, to McLaurin-Jones Co., Brookfield, Mass., a corporation of Massachusetts, assignee.

175,459. **"HARCO" AND DRAWING.** COAL. Registered November 6, 1923. HARRISBURG COLLIERY COMPANY. Renewed November 6, 1943, to Peabody Coal Company, Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

175,495. **"JAMES I. FELLOWS" AND DRAWING.** PREPARATION OF HYPOPHOSPHITES. Registered November 6, 1923. FELLOWS MEDICAL MANUFACTURING, INC., New York, N. Y., a corporation of New York. Renewed November 6, 1943.

175,497. **"HUFFMAN'S" AND DRAWING.** LAXATIVE. Registered November 6, 1923. WILLIAM G. HUFFMAN, JR. Renewed November 6, 1943, to Velma C. Huffman, Greenville, Tex., successor.

175,502. **MONEY BACK.** CORN SALVE. Registered November 6, 1923. ABRAHAM WOLFE, doing business as Wolfe's Shoe Store, Plattsburg, N. Y. Renewed November 6, 1943.

175,507. **"S-P BRAND" AND DRAWING.** READY-MIXED PAINTS, VARNISHES, STAINS, AND PAINT-ENAMELS. Registered November 6, 1923. STAR-PEERLESS WALL PAPER MILLS, Joliet, Ill. Renewed November 6, 1943, to Star-Peerless Wall Paper Mills, Chicago, Ill., a corporation of Illinois.

175,664. **VOGLASTIC.** ELASTIC KNITTED GOODS IN THE PIECE. Registered November 6, 1923. WALLSTEIN INDUSTRIAL CORP., New York, N. Y., a corporation of New York. Renewed November 6, 1943.

REISSUES

JUNE 22, 1943

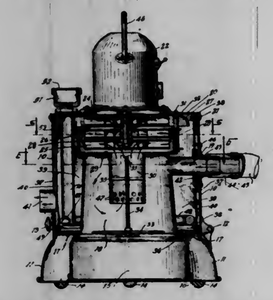
22,336

VACUUM CLEANER

Walter E. Bible, Denver, Colo., assignor to The Western Battery and Supply Company, Denver, Colo., a corporation of Colorado

Original No. 2,247,472, dated July 1, 1941, Serial No. 327,976, April 5, 1940. Application for reissue June 10, 1942, Serial No. 446,515

22 Claims. (Cl. 183—35)



18. A vacuum cleaner comprising: a hollow base member; a dust pan within said base member; a housing mounted on said base member; a whirl chamber in said housing opening to said dust pan; means for introducing air into said whirl chamber at its periphery; a motor-operated blower device supported from said housing; an intake sleeve from said blower device extending axially downward into said whirl chamber to evacuate air from the lower mid-portion thereof; a cylindrical fabric partition wall in said housing between said whirl chamber and the wall of said housing dividing the latter into an annular filter chamber and an annular discharge chamber, said blower device discharging into said filter chamber; a movable suction nozzle within said filter chamber for cleaning the inner surface of said fabric partition wall; and means for connecting said suction nozzle with the intake of said blower.

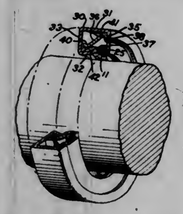
22,337

FLUID SEAL

Dwight O. Johnson, Woodside, and Antone Fred Anderson, Bell, Calif., assignors to National Motor Bearing Co., Inc., Oakland, Calif., a corporation of California

Original No. 2,290,593, dated July 21, 1942, Serial No. 180,151, December 16, 1937. Application for reissue April 12, 1943, Serial No. 482,798

4 Claims. (Cl. 288—3)



1. A unitary fluid seal adapted for press fit insertion to seal the space between moving parts having cylindrical faces, comprising a cage member having a peripheral surface for press fit engagement with a cylindrical face, and having a radial portion, said radial portion having its edge adjacent the surface to be sealed bent to form an axial flange inclined slightly away from said last named surface, a flexible sealing member extending substantially co-axially of the cylindrical face being sealed and having one end adjacent the inside surface of said axial flange, and a one piece self-tightening clamping member comprising a complementary axial flange substantially concentric with the aforesaid axial flange, a radial end closure wall, said flange and said wall being formed integral with a dished washer which bears on its opposite edge against the inner periphery of said cage member whereby the further said washer is pushed into the cage the tighter will be the hold on the sealing member.

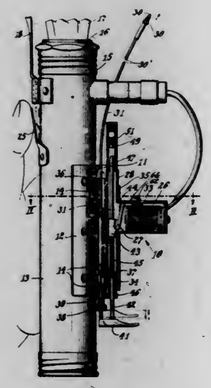
22,338

PHOTOFLASH SYNCHRONIZER

Samuel Mendelsohn, Montclair, N. J.

Original No. 2,204,424, dated June 11, 1940, Serial No. 101,782, September 21, 1936. Application for reissue May 14, 1941, Serial No. 393,468

11 Claims. (Cl. 67—29)



1. A device for operating a photoflash lamp and a camera shutter simultaneously, comprising a shutter actuating member, means for storing potential energy upon a movement of said member, a solenoid having an armature arranged to constitute a trigger member for holding said shutter actuating member ready for actuation, means for adjusting said trigger member for varying the time factor of operation of said device, means for supporting a photoflash lamp, a solenoid circuit, a photoflash lamp circuit in parallel with said solenoid circuit, and means for causing a flow of electrical energy through said

circuits to flash said lamp and move said trigger within a predetermined time period following initial flow of energy in said circuits to release said shutter actuating member at substantially the peak of the flash.

9. A camera shutter operating device comprising a plunger, means for moving the plunger to actuate a shutter release, movable means for holding the plunger in set position, an armature connected to said holding means, an electromagnet arranged to act on said armature for moving the holding means out of engagement with the plunger, and means for regulating the extent of movement of said armature.

PLANT PATENTS

GRANTED JUNE 22, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

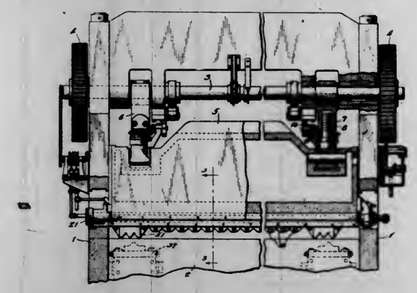
593
PEACH TREE
Philip B. Hoffman, Marysville, Calif.
Application December 28, 1942, Serial No. 470,365
1 Claim. (Cl. 47—62)

A new and distinct variety of peach tree characterized by glandless leaves, high productivity, lack of defects and gum, and clingstone fruit ripening at approximately the same time as the Phillips cling and having flesh of fine texture, excellent color after canning, and a flavor when canned resembling canned freestone variety peaches.

PATENTS

GRANTED JUNE 22, 1943

2,322,204
MACHINE FOR THE MANUFACTURE OF EXPANDED METAL
Bernard T. Ballard, Warren, Ohio, assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application June 1, 1942, Serial No. 445,276
15 Claims. (Cl. 164—6.5)



15. In a machine for the manufacture by the guillotine method of expanded metal having projections on the bonds, the combination of opposed metal cutting and forming knives having a plurality of complementary ribs and grooves in cutting edges thereof to form expanded metal having opposed projections and depressions on the bonds, means for feeding a sheet of metal to be expanded between said knives, means for relatively shifting said knives and feeding said sheet of metal forward between each cutting operation whereby said sheet is provided with a series of staggered slit and expanded portions, and means for guiding said knives and assuring accurate registry of the projections and depressions thereon, said last means comprising a pilot block on one set of said knives and a resiliently mounted pilot slide on the other set of said knives, said pilot block and pilot slide having complementary inclined aligning surfaces for engagement in either position of said knives.

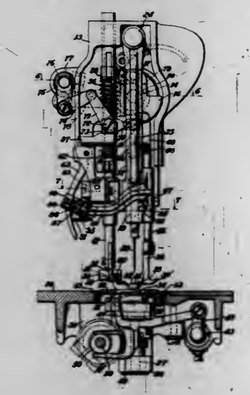
2,322,205
METHOD OF TREATING MAGNESIUM AND ITS ALLOYS
Herbert K. De Long, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 1, 1939, Serial No. 271,167
9 Claims. (Cl. 204—56)

6. In a method of treating uncoated articles of magnesium and its alloys, the steps which consist in immersing the article in an aqueous solution consisting essentially of more than about 2 per cent of a soluble chromate and from about 0.001 to about 0.01 per cent of the fluoride in the dissolved state, and applying a potential to the article so as to make it anodic while immersed in the solution.

2,322,206
GAS ABSORBENT AND METHOD FOR PREPARING THE SAME
Clyde B. Gardenier, Belleville, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
No Drawing. Application December 16, 1942, Serial No. 469,231
11 Claims. (Cl. 252—189)

1. A substantially dry solid product for absorbing acidic gases comprising calcium hydroxide and a material amount of barium hydroxide containing water of crystallization, said barium hydroxide being present in such amount as to give a product resistant to erosion and crumbling, said product being substantially free of caustic alkali and being substantially non-hygroscopic, said product being permeable to said gases.

2,322,207
FEEDING MECHANISM FOR SEWING MACHINES
Arthur N. Hale, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 14, 1940, Serial No. 370,105
14 Claims. (Cl. 112—209)



1. In a work-feeding mechanism for sewing machines including an endwise reciprocatory and laterally vibratory needle, a four-motion feed-dog, a presser-foot opposed to said feed-dog, and means for imparting unison work-feeding movements to said needle and feed-dog, the improvement which consists in the provision of an auxiliary feeding foot disposed entirely in advance of said needle and at the presser-foot side of the work, and operative connections for actuating said feeding foot differentially with respect to the work-advancing movements of said feed-dog and needle.

2,322,208

METHOD OF PROVIDING A PROTECTIVE COATING ON MAGNESIUM AND ITS ALLOYS

William S. Loose and Herbert K. De Long, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application November 14, 1938, Serial No. 240,345
15 Claims. (Cl. 204—35)

1. In a method of producing a protective coating upon articles of magnesium and magnesium base alloys, the steps which consist in subjecting the article to the action of a bath, the active constituent of which is a fluoride, to produce a coating on the article, and then subjecting the coated article to the action of an aqueous solution of a water-soluble salt of an oxy-acid of an element selected from the group consisting of chromium, molybdenum, phosphorus, selenium, titanium, tungsten, and vanadium to increase the corrosion resistance of the coating thereon.

2,322,209

LUBRICATING COMPOSITION

Carl F. Prutton, Cleveland, Ohio, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio

No Drawing. Application April 21, 1938, Serial No. 203,437
3 Claims. (Cl. 252—48)

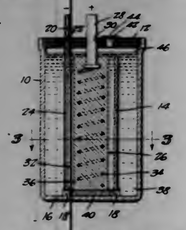
1. An extreme pressure lubricating composition comprising a major proportion of a lubricating oil the film strength of which has been substantially increased by the inclusion therein of a minor proportion of dibenzyl disulphide and a separate organic halogen compound.

2,322,210

BATTERY

Bert N. Adams, Queens Village, N. Y.

Application December 18, 1941, Serial No. 423,548
11 Claims. (Cl. 136—100)



1. A battery comprising a liquid container, a magnesium electropositive electrode inside the container and having an exterior terminal, a fused cuprous chloride electronegative electrode, and a terminal connected with said electronegative electrode.

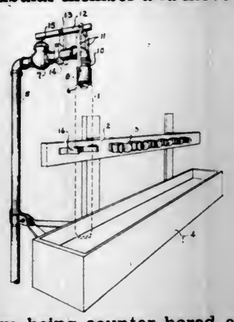
2,322,211

APPARATUS FOR COATING FLUORESCENT LAMPS

Charles L. Albright, Beverly, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Application May 3, 1941, Serial No. 391,816
1 Claim. (Cl. 91—43)

Means for directing a flow of luminescent solution on to the inner walls of an elongated glass bulb said means comprising: a solution deflector plug comprising an elongated tubular shaft flaring out at one end and terminating in a cylindrical portion; a hollow tubular member concentric with said plug; a sleeve concentric with said hollow tubular member and moveable there-



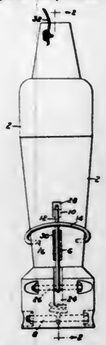
on, said sleeve being counter-bored at its lower extremity to a point slightly below the top of the cylindrical portion of said deflector plug; and a luminescent solution supply valve actuated by said moveable sleeve concentric with said nozzle.

2,322,212

PRACTICE SHELL

William H. Allen, United States Army, Bowling Green, Ky.

Application July 3, 1942, Serial No. 449,701
10 Claims. Cl. 35—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a body in the form of a projectile having a body portion with cylindrical surfaces and a nose portion, a longitudinal bore through the body, resilient means secured in the bore, and releasable means to hold the resilient means compressed.

2,322,213

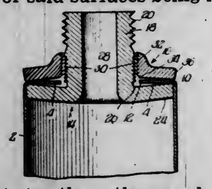
COLLAPSIBLE TUBE CONTAINER

Walter E. Amberg, Beverly Shores, Ind., assignor to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois

Application May 18, 1942, Serial No. 443,436
8 Claims. (Cl. 221—60)

1. In a collapsible container, a substantially tubular body, an inturned flange upon one end of said body, and a head therefor comprising an inner member bored to provide an outlet from said body, an outer member surrounding a portion of said inner member, means to lock said members together, and a horizontal portion upon

each of said members having opposing surfaces, at least one of said surfaces being initially dished



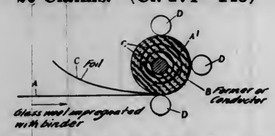
with respect to the other and non-rotatably clamping the body flange between them.

2,322,214

ELECTRICALLY INSULATING BODIES

Ian Ward Anderson Kirkwood and Patrick Dunbar Ritchie, Newcastle-on-Tyne, England, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a company of Great Britain

Application June 13, 1939, Serial No. 278,965
In Great Britain June 14, 1938
20 Claims. (Cl. 174—143)



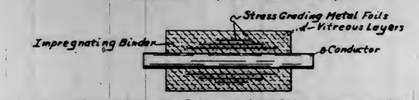
1. The method of forming an electric condenser bushing, comprising wrapping fibres of a vitreous substance previously woven into the form of a fabric in super imposed layers about a former, inserting separate condenser foils between successive layers as they are wound, and filling the interstices in the layers with an insulating medium whose dielectric strength within the interstices exceeds that of air at atmospheric pressure.

2,322,215

ELECTRIC CONDENSER BUSHING

Ian Ward Anderson Kirkwood and Patrick Dunbar Ritchie, Newcastle-on-Tyne, England, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a company of Great Britain

Original application June 13, 1939, Serial No. 278,965. Divided and this application April 23, 1942, Serial No. 440,222. In Great Britain June 14, 1938
12 Claims. (Cl. 174—143)



1. An electric condenser bushing comprising a plurality of concentric superimposed layers of fibres of a vitreous substance, at least one stress grading conducting foil between adjacent vitreous layers and a solid insulating medium filling the interstices in the vitreous layers, the insulating medium having a dielectric strength within the interstices exceeding that of air at atmospheric pressure.

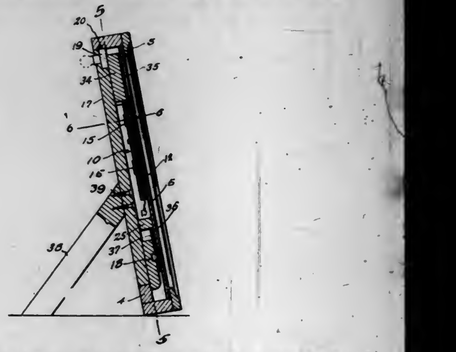
2,322,216

PUNCHBOARD

Ralph Henry Andrus, Spanish Fork, Utah

Application May 11, 1942, Serial No. 442,504
4 Claims. (Cl. 273—139)

1. A punch board comprising a frame adapted to be stood upright, a front punch panel in said frame having a field of perforations therein for punching therethrough, a pellet holding panel in said frame opposed to the rear of said punch panel and having a field of perforations therein complemental to the perforations of the first-mentioned panel and axially aligned therewith said holding panel comprising a pair of opposed sections, a plurality of ball pellets loosely disposed in the perforations of the second-mentioned field to be pushed rearwardly out of the pellet holding panel by a punch inserted through the perforations of the first-mentioned field, a pair of sheets of puncturable material interposed between said panels and the sections of said holding panel, respectively, opposite said fields for re-



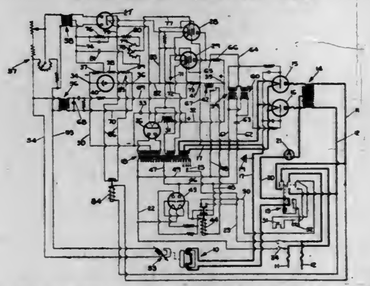
taining said balls in said holding panel, a runway forming member in said frame below said pellet holding panel for intercepting pellets punched from said panel and inclined downwardly toward one side of the frame for rolling of said pellets thereon toward said side, a back closure plate for said frame having an open front groove therein below said member and inclining transversely of the frame oppositely with respect to said member, a drop between the lower end of said member and the higher end of said groove through which pellets may pass from said member into said groove, means to releasably retain pellets in said groove, and a sight opening in said punch panel for viewing pellets in said groove.

2,322,217

VIBRATION CONTROL APPARATUS

Clyde W. Baird, Columbus, Ohio, assignor to The Traylor Vibrator Company, a corporation of Colorado

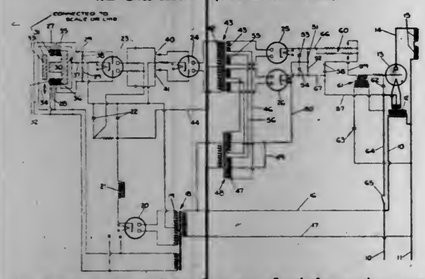
Application March 6, 1942, Serial No. 433,538
20 Claims. (Cl. 172—240)



1. In apparatus of the class described, the combination with a vibratory electromagnetic motor, of a power circuit therefor including a source of current, electron discharge relay means in said

circuit controlling the flow of current to said motor, said electron discharge relay means including discharge control means, a control circuit for controlling said discharge control means, said control circuit including means generating an alternating voltage having a frequency determined by the frequency of vibration of said vibratory electromagnetic motor and a value determined by its amplitude of vibration, means operative in response to one half of each cycle of said alternating voltage to control said discharge control means thereby to control the frequency of vibration of said electromagnetic motor, and means responsive to the other half of each cycle of said alternating voltage to control the phase relation between the anode and discharge control means voltages of said electron discharge relay means thereby to control the amplitude of vibration of said electromagnetic motor and maintain it substantially constant.

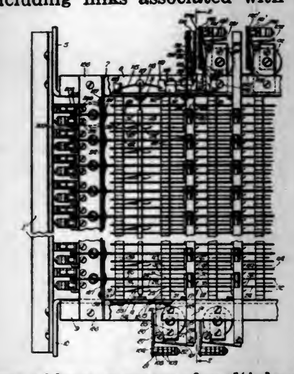
2,322,218
CONTROL SYSTEM
Clyde W. Baird, Columbus, Ohio, assignor to The Traylor Vibrator Company, a corporation of Colorado
Application March 28, 1942, Serial No. 436,698
21 Claims. (Cl. 172—240)



1. A control system for an electric motor comprising a member adjustable to normal, high and low positions, an electronic discharge tube having an input circuit and an output circuit through which current flows at a controllable rate to control an electric motor, means operative when said adjustable member is in its normal position to control the voltage applied to said input circuit to maintain a substantially constant current flow in said output circuit, said means also being operative in response to a high position of said member to decrease the current flow in said output circuit and being operative in response to a low position of said member to increase the current flow therein, said means including a source of alternating current input voltage on said input circuit which is normally out of phase with the output circuit voltage of said electron discharge tube, and means including a reversible source of direct current superposed thereon for shifting said input voltage phase relation relative to the output voltage.

2,322,219
AUTOMATIC TELEPHONE SYSTEM
Hans P. Boswau, Lorain, Ohio
Original application November 30, 1939, Serial No. 306,929. Divided and this application December 21, 1940, Serial No. 371,065
33 Claims. (Cl. 179—27.54)

1. In a switching mechanism, a group of bars constituting line or trunk terminals, said group being divided into sub-groups arranged in parallel planes, a plurality of intermediate links associated with each sub-group of bars, each link comprising a continuous metal strip extending across the bars of the associated sub-group and having an integrally formed contact finger at the point where it crosses each bar, each strip having also an additional integrally formed contact finger at one end, said links being divided into sub-groups located in parallel planes and each sub-group including links associated with different



sub-groups of bars, a group of multiple connected trunk contacts associated with the additional contact fingers of each sub-group of links, means for simultaneously actuating the proper contact fingers to connect the links of any sub-group to corresponding individual bars of all the sub-groups of bars, and means for individually operating said additional contact fingers to connect any link in the connected sub-group to its associated trunk contact independent of the remaining links in such sub-group.
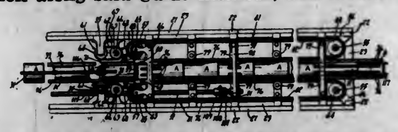
2,322,220
RADIO TUBE EXTRACTOR
Theodore E. Casselberry, France Field, C. Z.
Application January 5, 1943, Serial No. 471,338
2 Claims. (Cl. 294—99)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Forceps for handling metal radio tubes comprising, a tubular body portion of resilient material having a tapering opening passing longitudinally therethrough and having longitudinally extending slots through its opposite sides, there being an uninterrupted ring adjacent one end of said body portion, the inner walls of said body portion intermediate said slots forming faces adapted for engagement with a radio tube to be handled, and handles mounted on said body portion at the opposite end from said ring and spaced apart by said slots and diverging from each other away from said body portion.

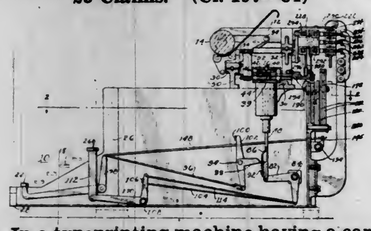
2,322,221
SOLDERING MACHINE
Joseph Cereghino, Los Angeles, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 9, 1941, Serial No. 410,211
8 Claims. (Cl. 113—97)

1. A machine for soldering side seams of can bodies, comprising a solder applying device for applying molten solder to the seam, a solder wiper for removing excess solder from said seam, a guide member for directing the can bodies past said solder device and past said wiper, feeding devices for moving the said bodies in spaced relation along said guide member, and means dis-



posed adjacent said solder applying and wiping means for decreasing the spacing between said bodies as they are moved past said wiper, to prevent wiped solder from gaining access to the interior surfaces of said can bodies.

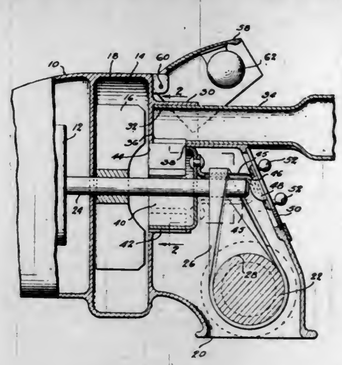
2,322,222
AUTOMATIC JUSTIFYING AND INDENTION CONTROL
Alpha F. Colton, Detroit, Mich., assignor to Ralph C. Coxhead Corporation, New York, N. Y., a corporation of Delaware
Application September 19, 1938, Serial No. 230,733
25 Claims. (Cl. 197—84)



1. In a typeprinting machine having a carriage, type bars, a spacer bar, and means for moving the carriage in step by step manner as said type bars and spacer bar are operated, an automatic justifying device therefor comprising a pair of toothed elements, means exerting a force tending to move said elements, an escapement device associated with each element, control means for said escapement devices operable in response to the operation of said spacer bar to actuate one of the escapement devices and allow the associated element to escape one tooth for each operation of the spacer bar, said control means being displaceable for operating the other escapement device, means for initiating a continuous tabulating movement of the carriage, and means responsive to the operation of said last means for displacing said control means for actuating the other escapement device.

2,322,223
VACUUM CLEANER
George R. Coss, Elizabeth, N. J., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan
Application January 12, 1942, Serial No. 426,381
1 Claim. (Cl. 15—9)

Vacuum cleaner construction comprising a motor, a fan chamber having a fan therein and a fan eye forming an intake opening therefor, a floor nozzle, an agitator operatively associated with said floor nozzle, a valve chamber communicating with said fan eye and having two oppositely disposed ports, one of said ports forming an attachment port to which a coupling member may be detachably secured and the other of said ports affording communication between said floor nozzle and said fan eye, said motor having a shaft upon which said fan is arranged for driving the same and which shaft extends through said intake opening and into said nozzle, a cup-shaped rotary valve member arranged in said valve chamber with its open end presented toward said fan eye and having a portion of the cylindrical wall thereof cut away, said valve member being adapted to rotate approximately 180° from one position thereof to another to control the communication between said fan eye and said nozzle and attachment port, respectively, said valve member being provided with an opening through which said shaft extends into said nozzle, a belt connected to the end of said shaft, which ex-



tends into said nozzle, so as to be driven thereby and operatively connected to said agitator for driving the same during the operation of said motor, a belt lifter carried by said valve and adapted to engage said belt and disengage the same from said shaft when the valve is moved to a position to establish communication between said fan eye and said attachment port and to close the communication between said fan eye and said nozzle, and rotary means carried by the front wall of said nozzle and engageable with the end of said belt lifter for shifting the same and said valve member from one position thereof to the other.

2,322,224
ELECTRIC DISCHARGE LAMP
James L. Cox, Danvers, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application December 22, 1938, Serial No. 247,252
2 Claims. (Cl. 176—126)



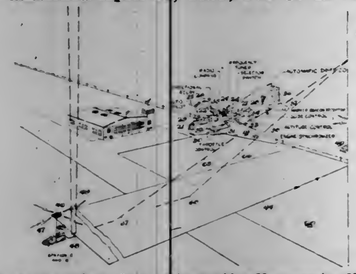
1. An electrode for a discharge device, said electrode comprising a filamentary coil of a refractory metal having a coating of an electron-emissive material thereon, and an auxiliary anode spaced from said filamentary coil and connected to an end of said coil, said anode comprising a straight wire element extending substantially longitudinally of said filamentary coil and disposed substantially adjacent to said coil and parallel to the plane of said coil, at least a portion of said coil projecting forwardly beyond said wire element.

2,322,225

AIRCRAFT AUTOMATIC TAKE-OFF, FLIGHT, AND LANDING

Carl J. Crane, George V. Holloman, and Raymond K. Stout, Dayton, and Constantin D. Barbulesco, Yellow Springs, Ohio

Application July 29, 1939, Serial No. 287,310
20 Claims. (Cl. 244—77)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



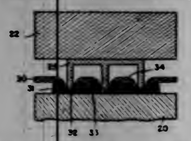
1. Apparatus for automatically controlling an aircraft during take-off, flight and landing, comprising, in combination with said aircraft, a plurality of radio transmitting stations on the ground and spaced in alignment along a predetermined line of flight to be followed by the aircraft during take-off and landing, certain of said transmitting stations including directive means for transmitting radiant energy directively in a vertical direction and non-directive means for transmitting radiant energy in all directions, the non-directive radiant energy transmitted by each of the certain stations having a frequency different from that transmitted by each of the other certain stations, means on said aircraft for maintaining level flight, means on said aircraft for maintaining it on a predetermined course, means on said aircraft for controlling the altitude thereof to maintain it at a predetermined altitude, means responsive to the non-directively transmitted radiant energy for controlling the course maintaining means, and selecting means sequentially responsive to the vertically transmitted radiant energy from each of said certain stations for controlling the first-mentioned radiant energy responsive means and the altitude controlling means to simultaneously preselect a predetermined altitude at which the aircraft is to fly, said selecting means including means to sequentially tune to a different frequency the means responsive to the non-directively transmitted radiant energy, whereby the aircraft is guided automatically from one station to the other at a decreasing altitude until the aircraft contacts the ground.

2,322,226

METHOD OF MAKING DECORATIVE FABRIC

George R. Cunnington, Grosse Pointe Park, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware

Application May 25, 1938, Serial No. 210,034
10 Claims. (Cl. 154—2)



1. The method of imparting a relief design to a flexible, woven fabric which comprises: providing a thin sheet of soft, uncured rubber at the rear of the fabric; placing said rubber and fabric against a smooth support with the rubber toward said support; applying sufficient pressure to the fabric at a plurality of separated, closely spaced areas which are to be low areas in said relief design to displace all but a thin film of rubber into raised riser portions intermediate said areas of pressure application; leaving the fabric intermediate and adjacent said areas of pressure application free for unrestricted outward displacement by the formation of said riser portions whereby said fabric shapes said riser portions and is smoothly tensioned thereover; and heating said rubber while maintaining the application of pressure to vulcanize said riser portions and to provide a vulcanized bond between said films of rubber and said fabric at the areas of pressure application.

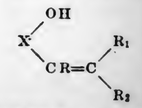
2,322,227

CARBONYL COMPOUNDS OF THE CYCLOPENTANO POLYHYDRO PHENANTHRENE SERIES AND A METHOD OF PRODUCING THE SAME

Hans Dannenbaum, Falkenhain - Finkenkrug, near Berlin, Hans Herloff Inhoffen, Berlin-Wilmersdorf, and Walter Hohlweg, Hohen Neuendorf, near Berlin, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application December 16, 1937, Serial No. 180,138. In Germany December 22, 1936
18 Claims. (Cl. 260—397.1)

1. Process for the manufacture of carbonyl compounds of the cyclopentano polyhydrophenanthrene series, wherein compounds of the general formula



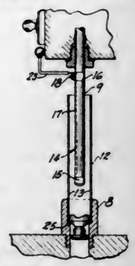
in which X indicates a cyclopentano polyhydro phenanthrene ring system, R a member of the group consisting of hydrogen and hydrocarbon radicals, R_1 and R_2 one or more members of the group consisting of hydrogen and hydrocarbon radicals, are subjected to oxidation with an agent capable of rupturing aliphatic double bonds with the addition of oxygen.

2,322,228

METHOD OF TESTING PROTECTIVE COATINGS

Herbert C. De Staebler, Kirkwood, Mo.

Application July 31, 1941, Serial No. 404,858
6 Claims. (Cl. 177—311)



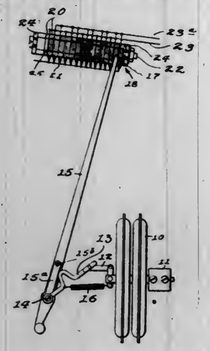
1. In a machine for filling metal container tubes with a plastic material and simultaneously testing the continuity of protective coatings applied to the interior of the tube, a tube conveyor system including socket-like holders for receiving the tubes to be filled at their closed ends, a tube filling nozzle arranged to enter the tubes at their open ends and to discharge plastic material thereinto, an electrode attached to said nozzle and arranged to enter the tubes, said tube holding sockets being of metal and being connected to the machine so as to electrically ground the tube, a source of electrical energy, a lead connecting said source of energy with said electrode, an electrically operated signaling device, and a device interposed in said lead and responsive to a flow of current therethrough for controlling said signaling device.

2,322,229

PRESSURE SWITCHING

Harry Diamond, Washington, D. C., and Wilbur S. Hinman, Jr., Falls Church, Va., assignors to the Government of the United States of America, as represented by the Secretary of Commerce

Original application May 4, 1938, Serial No. 206,086. Divided and this application November 22, 1941, Serial No. 420,153
10 Claims. (Cl. 200—83)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a radiometeorological switching means, a switch arm comprising a contact point, a switch element comprising a multiplicity of thin conductive segments and thin non-conductive segments of Bakelite rigidly stacked in interposition and having edge sections thereof lying in a common plane polished transversely of said stack and parallel to the linear joints between the segments thereof so that said element presents in said plane, over which said contact point moves, true linear joints between the thin conductive and non-conductive segments and great constancy of thickness of the polished edges of like segments, said contact point and said conductive edge sections consisting, to minimize frictional condensation drag, of one of the group of paired materials consisting of platinum sliding against coin silver, German silver sliding against stainless steel, and beryllium copper sliding against phosphor bronze.

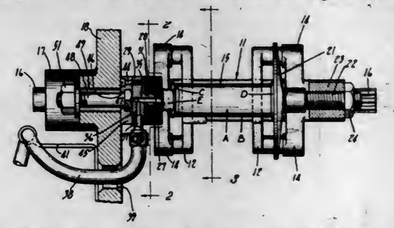
2,322,230

CAN TESTING MACHINE

Joseph Feher, North Arlington, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application April 8, 1941, Serial No. 387,519
4 Claims. (Cl. 73—51)

1. In a testing machine for cans having nozzles, the combination of a cradle for supporting cans of various sizes in a predetermined testing position, a resilient sealing pad carried by said machine and engageable by the nozzle of a can in said cradle in abutting relation only for sealing off the interior of the can so that it may be tested



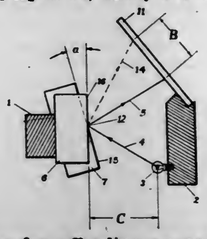
for leaks, and means for securing said resilient sealing pad on said machine for coplaner universal adjustability relative to said machine and to said can supporting cradle so as to be movable into various positions to correspond to the varied nozzle locations on different cans to be tested.

2,322,231

OPTICAL AMPLIFIER

William L. Fischer, Philadelphia, Pa.

Application August 14, 1940, Serial No. 352,526
8 Claims. (Cl. 88—74)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



8. A device for affording an amplified indication of the relative motion of two bodies along a predetermined path comprising means emitting a ray of light in a plane substantially normal to said path and a light receiving means adapted to indicate the reception of light in said plane, both said means carried by one of said bodies, the other of said bodies having a light reflecting surface formed thereon, said surface being so shaped that throughout relative movement of said bodies along said path, said ray will be reflected in parallel planes, the angle between the incident and reflected portions of said ray varying as a function of said relative movement.

2,322,232

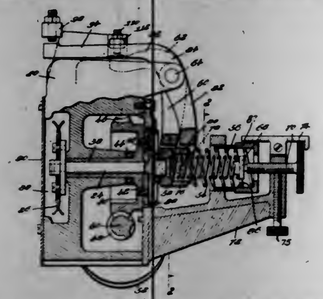
TENSION DEVICE

Joseph Gouldbourn, Leicester, England, assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application September 20, 1939, Serial No. 295,780
In Great Britain November 3, 1938
17 Claims. (Cl. 112—59)

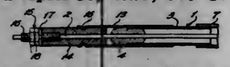
1. In a machine having thread handling devices including means for intermittently drawing off thread from a supply, a thread tension including a thread engaging member movable intermittently with the thread, and a friction device acting upon said thread engaging member, said friction device comprising cooperating friction surfaces,

and means for relatively moving said friction surfaces to provide a live frictional resistance ef-



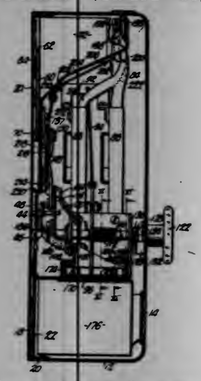
fective to reduce the resistance to the starting of said member.

2,322,233
COAXIAL TRANSMISSION LINE TERMINAL
Harold Granger, United States Marine Corps
Application May 2, 1941, Serial No. 391,455
2 Claims. (Cl. 174—19)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



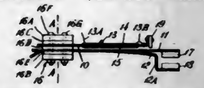
1. A coaxial transmission line terminal comprising in combination a pair of insulatingly spaced concentric metallic conductors and a layer of glass for sealing one conductor to the other, the said glass having a low high frequency dielectric loss and a temperature coefficient of expansion substantially equal to that of the metallic conductors, a tubular metallic conductor secured to the outer conductor of the concentric conductor pair and extending beyond the seal therebetween, an insulator affixed to the tubular metallic conductor and a connector supported from said insulator, the said connector being electrically continuous with the inner conductor of the concentric conductor pair.

2,322,234
MECHANICAL COIN CHANGER
Joseph E. Hagstrom, Kansas City, Mo., assignor to C. Earl Hovey, trustee, Kansas City, Mo.
Application October 2, 1940, Serial No. 359,365
16 Claims. (Cl. 194—80)
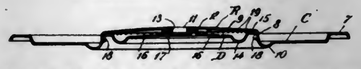


1. In a mechanical coin changer of the character described, a case having a narrow vertical feed chamber formed to hold coins in edge-to-edge relation and in the same plane; a hopper for coins to be dispensed, said coins when in the hopper being in random condition; coin controlled means for ejecting coins from the feed chamber; and apparatus for transferring coins from the hopper to said feed chamber and simultaneously arranging the transferred coins in said edge-to-edge relation, said feed chamber being in a vertical plane and provided with a rockable floor movable by the ejecting means for rolling the coins from one portion of the feed chamber to another portion thereof, said ejecting means including an element for forcing a given number of coins from said last mentioned portion thereof.

2,322,235
SWITCH
Ernest Russell Howard, Ridgewood, N. J., assignor to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey
Application June 27, 1942, Serial No. 448,795
6 Claims. (Cl. 200—122)



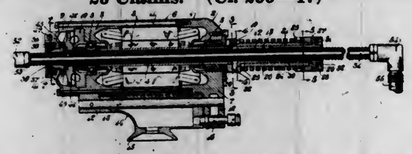
1. In a thermostatically controlled switch, the combination which comprises two elongated thermostatic elements disposed substantially side by side and close to each other, with one set of adjacent ends of the elements fixed and the other set free, the elements being so disposed that they bend in the same direction upon heating, two mutually attractive members mounted respectively on the elements remote from the fixed ends and adapted to engage each other when the free ends are urged together, a heating means, a third elongated thermostatic element adjacent the heating means and mounted with one end fixed adjacent the fixed ends of the other two elements and extending to a free end in the neighborhood of the other free ends, the third element being adapted to bend upon heating in the same direction as the other elements and to selectively engage one of the two thermostatic elements when the members are together and the other of the two thermostatic elements when the members are apart.

2,322,236
VALVED CAN CLOSURE
Harry Ingram, Wheeling, W. Va.
Application November 7, 1939, Serial No. 303,174
4 Claims. (Cl. 220—44)



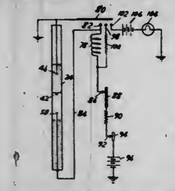
1. A valved closure for sealing cans and like containers comprising a cap member including a substantially rigid plate portion having a central opening therethrough, a flexible resilient upwardly biased diaphragm secured adjacent its edge to said cap beneath and covering said plate portion, valve means disposed between said diaphragm and said plate portion for normally sealing said opening, said diaphragm having a sufficient upward bias to prevent opening of said valve means by excess external atmospheric pressure and said opening giving access to said diaphragm whereby said diaphragm may be moved downwardly by mechanical force to permit the flow of fluid through said opening.

2,322,237
DRILLING APPARATUS
Harry C. Johansen, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application August 2, 1940, Serial No. 349,638
23 Claims. (Cl. 255—47)



1. A drilling apparatus comprising, in combination, a drill bit, means for rotating said bit, means for feeding said bit toward the work to effect drilling, and means for automatically controlling feed and bit rotation in accordance with the resistance to drilling including a feed and rotation controlling clutch automatically operative through the increased loading thereof when the feeding pressure on said bit reaches a predetermined maximum for preventing further increase in feeding pressure and to effect bit rotation and automatic means for loading said clutch effective to load the same only when the feeding pressure attains a predetermined value.

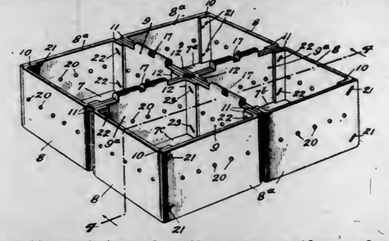
2,322,238
TIME DELAY RELAY CONTROL
Gottdank L. Kothny, Strafford, and George A. Smith, Philadelphia, Pa., assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application June 29, 1940, Serial No. 343,182
6 Claims. (Cl. 175—320)



1. An electrical timing means comprising a supply chamber, a receiving chamber, means for controlling a slow flow of an aqueous electrically conductive liquid from the supply chamber to the receiving chamber, means providing electrodes in the supply and receiving chambers, a source of electricity arranged to provide a flow of current through said electrodes and liquid when the electrodes in both chambers are in contact with said liquid, and means for providing a low resistance shunt for the liquid between said electrodes promptly upon initiation of said current flow.

2,322,239
CELLULAR BOX
Henry J. Kramer, Mason City, Iowa
Application January 28, 1942, Serial No. 428,597
6 Claims. (Cl. 229—28)

1. A cellular rectangular box comprising four rectangular bottom sections jointly occupying a rectangle; four partitions perpendicular to said bottom sections, said partitions radiating from the box center and each comprising two vertical plies secured against each other, said plies being integrally joined to each other at their upper edges and integrally joined at their lower edges to the inner edges of said bottom sections; eight rectangular side walls perpendicular to said bottom sections and having their lower edges integrally joined to the outer edges of said bottom sections; four vertical flaps at the four corners of the box, integrally joined to certain of said side walls and secured to the others of said side walls; eight other vertical flaps at the junctures of said side walls with the outer sides of said two-ply



partitions, integral with some of these elements and secured to the others thereof; and four additional vertical flaps integral with the inner ends of certain of said partition plies and secured to the others of said plies; the whole providing a one-piece four-cell box in which all cells are held against relative movements in all directions.

2,322,240
PLASTICIZER
Edward L. Kropa, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 5, 1939, Serial No. 298,053
9 Claims. (Cl. 260—33)

1. A urea-formaldehyde resin plasticized with a compatible reaction product of a polyamine with a hydroxy-carboxylic acid having at least eight carbon atoms.

2,322,241
FISHING FLOAT
Christian A. Kurz, Dayton, Ohio
Application March 24, 1941, Serial No. 384,843
10 Claims. (Cl. 43—49)

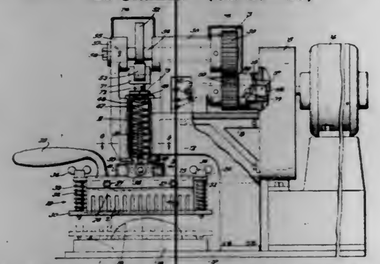


1. A fishing float, including terminal flat fins reversely arranged key hole notches in the fins intersecting the margins thereof having flaring entrance orifices for the line and restricted throats communicating with the eyes of such key hole slots in which a fishing line is successively engageable and between which the line extends through at least one turn about the float.

2,322,242
COATING COMPOSITION
Francis W. Lanigan, Belmont, and Jacob G. Mark, Cambridge, Mass., assignors to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
No Drawing. Application February 17, 1938, Serial No. 191,028
7 Claims. (Cl. 260—757)

2. The process of producing a coating composition including the steps of subjecting rubber to a depolymerizing treatment and then colloidally dispersing the depolymerized rubber in a wax in such proportions and under such conditions that the resulting compound possesses in its molten state an immaterially increased viscosity over that possessed by the base wax at the same temperature.

2,322,243
MEAT TENDERIZING MACHINE
Leonard A. Larson, Chicago, Ill., and Leo W. Hart, Milwaukee, Wis., assignors to Kwik Steak Machine Co. of America, Milwaukee, Wis., a corporation of Wisconsin
Application June 19, 1940, Serial No. 341,254
11 Claims. (Cl. 17—25)



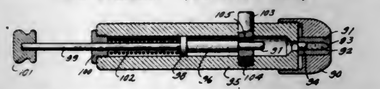
1. A machine of the character described comprising, in combination, a framework, a vertically reciprocable hollow plunger carried by said framework, a meat-cutting head at the lower end of said plunger, means for reciprocably driving said plunger, means tending to urge said plunger upwardly when it is in the lowermost position of its reciprocal cycle including a compression spring element within the plunger, and abutment means held immovable relative to said plunger engaged by the lower end of said spring element.

2,322,244
HYPODERMIC INJECTOR
Marshall L. Lockhart, Ossining, N. Y.
Application March 18, 1940, Serial No. 324,679
8 Claims. (Cl. 128—215)



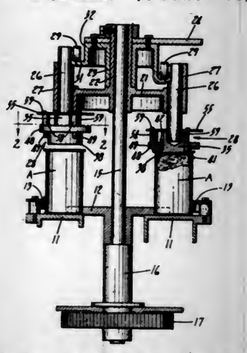
5. A hypodermic capsule comprising a body of transparent material having a chamber for receiving liquid and a blunt discharge end for direction toward and spacing from and exterior of the skin, said body having an orifice for discharge of the liquid with sufficient velocity to effect self-injection thereof without the use of a guiding needle, a follower for the liquid, a pressure generator in said chamber, means for connecting an operating device for said pressure generator with said body, and means secured to the blunt discharge end of said body for sealing said discharge orifice after sterilization of said body.

2,322,245
HYPODERMIC INJECTOR AND METHOD OF USE THEREOF
Marshall L. Lockhart, Ossining, N. Y.
Application April 26, 1941, Serial No. 390,598
21 Claims. (Cl. 128—215)



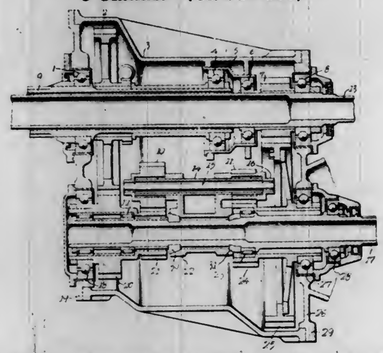
19. The method of hypodermic injection which comprises the steps of enclosing liquid to be hypodermically injected into a portion of a body and suddenly expelling the liquid with sufficient force to cause the expelled liquid to remain in a continuous stream at skin penetrating speed to pierce the epidermis and hypodermically inject itself therethrough and enter the subcutaneous tissue beneath the epidermis.

2,322,246
CAN CLOSING MACHINE
Michael J. McLaughlin, Ogden, Utah, assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 21, 1941, Serial No. 384,561
4 Claims. (Cl. 226—71)



1. A topping mechanism for stringy products packed in cans, comprising in combination, a plunger reciprocable toward and away from the mouth of a filled container, a head body on said plunger which is insertable into the mouth of the can for pushing the solid portions of the contents down below the top edge, said head body having an elongated skirt of lesser diameter than the can and having a perforated bottom wall section which sets off an upper channel and a lower chamber, said head body being insertable into the can at which time the solid part of the product is depressed and a part is confined in said chamber, the liquid passing through said perforated wall in said channel, any strings of the product which may overhang the top edge of the can being pulled down and away from the can mouth, a plurality of ejecting pins carried by said head body and located adjacent said skirt for engagement with the top edge of the can for stripping it from the head body when the latter is withdrawn after a topping operation, a compression spring for backing up each of said ejecting pins, a protecting sleeve guard surrounding each of said springs, and a splash plate surrounding said body and spaced above said skirt section, said splash plate and said sleeve guards protecting the mechanism from splashing of the displaced liquid contents during the topping operation.

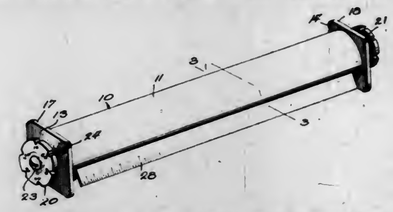
2,322,247
AIRCRAFT PROPELLER DRIVE
Pierre Ernest Mercier, New York, N. Y., assignor to Helfeda S. A., Geneva, Switzerland, a corporation of Switzerland
Application January 25, 1941, Serial No. 375,907
In France October 25, 1940
8 Claims. (Cl. 74—306)



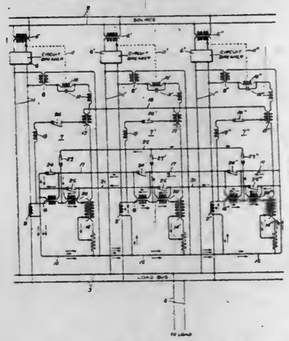
1. In an airscrew system having a pair of coaxial propeller shafts and a drive shaft common to both propeller shafts and spaced parallel thereto, said drive shaft transmitting its rotation through gearing to said propeller shafts, said gearing being provided with a satelite carrier secured upon the drive shaft so as to rotate positively therewith, the combination of a frame or bracket forming the satellite carrier and having pinion bearing means fixed thereon, a pair of alined pinions spaced apart and supported by said bearing means so as to be freely rotatable with respect to the same about an axis substantially parallel to that of the drive shaft, a resilient means interconnecting said pair of alined pinions, additional rotatable gears meshing respectively with each of said pinions, and further rotatable gears independently communicating rotation of said additional gears simultaneously to each of said coaxial propeller shafts.

2,322,248
COMBINATION SELECTIVE SCALE
William H. Miller, Washington, D. C.
Application August 29, 1941, Serial No. 408,699
2 Claims. (Cl. 33—107)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A combination architect's and engineer's selective scale comprising a frame composed of two quadrilateral end pieces having a cylindrical body interposed between said end pieces, an elongated opening therein, removable and interchangeable scales, a shaft lying longitudinally of said frame, having circular scale holders attached thereto, said scale holders adapted to receive pins, that are inserted into the ends of the removable and interchangeable scales, in a series of openings equi-distantly spaced around the circumference of said circular scale holders and selectors on the end of said shaft for rotating said circular scale holders to bring said scale holders selectively opposite the said opening, thereby placing said scales in an operative position.



2,322,249
ELECTRIC CIRCUIT
Salvatore Minneci, Pontoosuc Lake, Mass., assignor to General Electric Company, a corporation of New York
Application May 26, 1942, Serial No. 444,523
15 Claims. (Cl. 171—119)

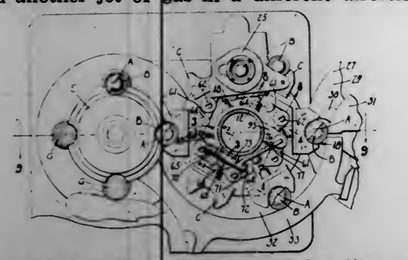


1. In combination, a plurality of interconnected circuits for supplying power to a common load through a line whose impedance is substantially independent of the number of circuits feeding it, means for selectively varying the active number of said circuits, separate line drop compensated voltage regulators for said circuits, and means for rendering the line drop compensation which is produced by the compensators associated with the active ones of said circuits substantially independent of the number of said circuits which are active.

2,322,250
CAN CLOSING MACHINE
John H. Murch, East Orange, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 7, 1939, Serial No. 277,912
10 Claims. (Cl. 226—82)

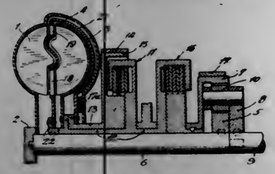
8. In a machine for gassing containers, the combination of a stationary support for containers to be gassed, devices for advancing the containers over and relative to said support, a gassing head movable with said advancing devices and adapted to receive the upper end of a container on said support with a partially defined space within the gassing head disposed below the upper edge of the container, means carried by said head for holding a container cover in spaced

relation to and above the top of the container, and separate means carried by said head for respectively directing a jet of gas in one direction into the space between the container and cover and another jet of gas in a different direction



into said partially confined space below the container upper edge to displace the air from said localities while the container is moving along said stationary support.

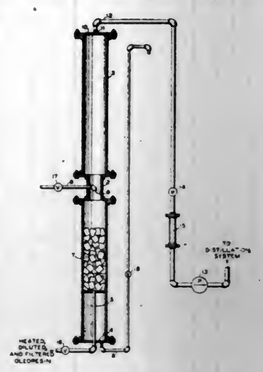
2,322,251
VARIABLE SPEED TRANSMISSION
Willard L. Pollard, Evanston, Ill.
Application September 15, 1941, Serial No. 410,815
4 Claims. (Cl. 74—189.5)



1. A hydraulic gear construction comprising a rotary drive member, a liquid torque transmitter including a vaned drive rotor driven from said drive member and a vaned driven rotor driven from said vaned drive rotor, a liquid transmitting torque-transmitting rotor extending across the space between said vaned rotors, a first gear means driven from said driven vaned rotor, a second gear means driven from said liquid-transmitting rotor, means for placing said liquid-transmitting rotor into and out of driven relation with respect to said rotary drive member, and means for holding it against rotation in at least one direction when not in said driven relation.

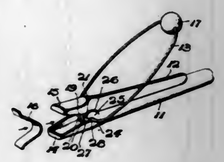
2,322,252
APPARATUS FOR WASHING OLEORESIN
Jesse O. Reed, Washington, D. C., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office
Application June 6, 1941, Serial No. 396,912
3 Claims. (Cl. 210—52.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An apparatus for washing oleoresin, comprising upper and lower elongated chambers, a tube of restricted sectional area connecting said chambers, means for introducing oleoresin to be washed into the lower chamber at a point sufficiently high that space in the lower chamber below the point of introduction may be kept free of oleoresin, a pipe for introducing wash water into the tube, the outlet of said pipe being at the center of said tube and facing said lower chamber, a discharge pipe for removal of washed oleoresin from the top portion of said upper chamber, said discharge pipe having a control valve therein, and a discharge pipe connected



to the bottom of the lower chamber for removal of the washings from the oleoresin.

2,322,253
HAIR CURLER
Carl W. Renstrom and Ernest Hoffmann, Omaha, Nebr.
Application August 6, 1941, Serial No. 405,710
9 Claims. (Cl. 132—41)



1. A hair curler comprising a substantially tubular mandrel of molded plastic material having an opening adjacent one end and an open-ended slot connecting said opening, said slot having a restricted portion of less width than the opening, a substantially semi-tubular clamp of molded plastic material having an opening and an open-ended slot connecting said opening, said clamp slot having a restricted portion of less width than the opening, and a closed wire loop clasp having a portion engaging the openings in said mandrel and clamp and of a diameter substantially equal to said openings whereby the clasp is detachably and pivotally connected to said mandrel and clamp and retained in operative relation thereto by the restricted slots in said mandrel and clamp.

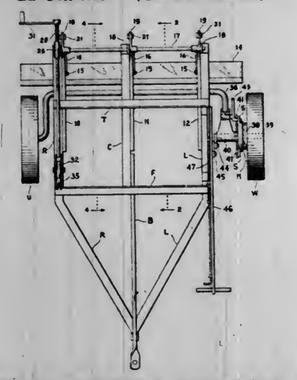
2,322,254
HAT AND METHOD OF MAKING THE SAME
George M. Rickus and William L. Braun, Norwalk, Conn., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
No Drawing. Application May 4, 1940, Serial No. 333,425
17 Claims. (Cl. 28—5)

1. A method of making hat bodies which comprises dry carding and combing long casein fibers; preparing fur for felting; cutting said long casein fibers into staples; blending said fur and said staples of casein fibers; forming the blended fur and casein fiber staples into a cone; and wet shrinking said cone.

2,322,255
FABRIC, HAT, AND METHOD OF MAKING THE SAME
George M. Rickus, Norwalk, Conn., assignor to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
No Drawing. Application August 23, 1941, Serial No. 408,107
18 Claims. (Cl. 28—5)

5. The process of manufacturing hats which includes the steps of carding and forming about a conical form a mixture of wool fibers and soy prolon fibers to produce a fibrous cone; pressing the cone with the aid of vibration and moisture; and treating the cone to form a hat therefrom.

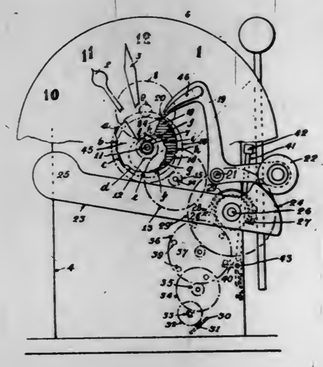
2,322,256
TILLAGE IMPLEMENT
Timothy Rubens, Farmington, Wash., assignor to Cheney Weeder Company, Cheney, Wash., a a corporation of Washington
Application October 12, 1939, Serial No. 299,045
11 Claims. (Cl. 97—144.1)



1. A tillage implement comprising a frame, earth engaging standards rigid with said frame, a cutting blade hinged underneath the lower ends of said standards, a rock shaft journaled on the rear of said frame, arms on said rock shaft and aligned with said standards, links extending downwardly behind said standards and operatively connecting said arms with said blade, means to operate said rock shaft and thereby impart a hinge movement to said cutting blade, and means to hold said rock shaft at set positions of rotation to maintain said blade at set inclination relative to said standards.

2,322,257
CLOCK
John Frederick William Stuart, Manchester, and Frank Davenall Norton, Cheadle, England
Application May 15, 1941, Serial No. 393,620
In Great Britain May 27, 1940
6 Claims. (Cl. 58—9)

1. A clock embodying visual and audible time-indicating means, said clock comprising supporting means; timing mechanism including a minute-hand spindle, an hour-hand sleeve disposed concentrically about said spindle, and power means for rotating said spindle and sleeve about their common axis in proper timed relation; and an entirely separate and distinct mechanism for operating said audible means and comprising a shaft, a power lever keyed to said shaft to rock about the axis thereof and having a weighted arm and an arm provided with a cam face, a gear mounted on said shaft to turn freely about the axis thereof as the said lever is rocked to raise its weighted arm, a ratchet wheel keyed to said shaft, and a pawl mounted on said gear to engage said ratchet wheel to cause said gear to rotate with said shaft to actuate said audible signal mechanism as said weighted arm drops under the influence of gravity; in combination with a snail cam mounted on said spindle to turn therewith; a stepped snail cam mounted on said sleeve to turn therewith and in synchronized relation to said snail cam and formed with a curvilinear series of steps corresponding in number and position to the hours to be sounded by the audible signal; and a bell-crank lever pivotally mounted

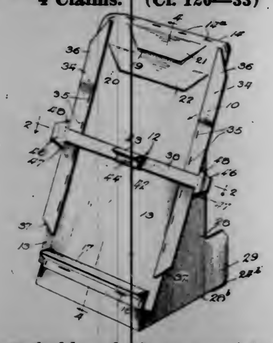


on said supporting means in such position as to engage both of said snail cams with its power receiving arm and said cam-face with its power applying arm, the respective steps of said stepped snail cam serving to limit the release movement of the bell-crank, said snail cam in rotating with said spindle engaging said power receiving arm and swinging said bell-crank about its fulcrum to the extreme of its power applying stroke once every hour to raise the weighted arm of said power lever to its extreme raised position by engagement of said power applying arm with said cam-face while said shaft makes a partial rotation with said power lever independently of said gear.

2,322,258
DEHYDROHALOGENATION OF HALOGENATED ORGANIC COMPOUNDS
Charles J. Strosacker and Forrest C. Amstutz, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 24, 1938, Serial No. 247,678
13 Claims. (Cl. 260—654)

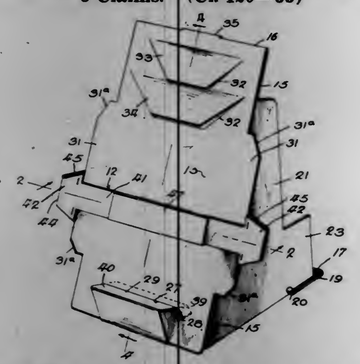
12. In a method wherein an alkali is reacted with an organic compound containing a hydrogen atom and a halogen atom attached to adjacent carbon atoms in a non-aromatic part of the molecule to split hydrogen halide from the molecule and form an unsaturated linkage between said adjacent carbon atoms, the step of promoting the reaction by carrying it out in the presence of a minor proportion of a compound selected from the class consisting of aliphatic hydroxy-ethers, aryloxy-aliphatic alcohols and aliphatic polyhydric alcohols.

2,322,259
LINE INDICATING COPYHOLDER
Fred W. Thurston, Carmel, Calif.
Application October 27, 1941, Serial No. 416,724
4 Claims. (Cl. 120—33)



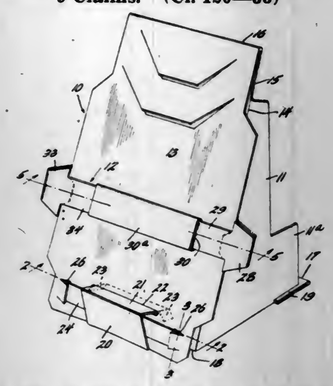
1. A copyholder device comprising a frame including a copy sheet supporting panel, said panel including longitudinally disposed laterally projecting strip elements extending outwardly from the plane of the panel at opposite side edges thereof, a line indicator member movably mounted on said panel, opposite ends of said indicator member having rearwardly disposed inwardly extending resilient tab portions frictionally engageable between the front wall of said panel and the rear surface of said strip members to provide with the body of said indicator member a triple friction grip for yieldably maintaining said indicator member in adjusted position relative to and transversely of said panel and the copy supported thereby.

2,322,260
LINE INDICATING COPYHOLDER
Fred W. Thurston, Chevy Chase, Md.
Application July 11, 1942, Serial No. 450,601
5 Claims. (Cl. 120—33)



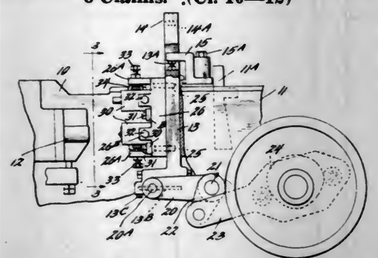
1. A line indicating copyholder comprising a frame including a flexible copy supporting panel, and a manually adjustable line indicating marker having inwardly extending resilient tab portions at its opposite ends frictionally engageable with oppositely disposed marginal portions of the rear surface of said panel, the rear surface of said marker at its opposite ends frictionally engaging oppositely disposed marginal portions of the front surface of said panel, the longitudinal dimension of the marker between its extreme panel engaging portions at opposite sides of the panel being less than the distance between the opposite edges of said panel to insure flexing of said panel when said indicator member is assembled therewith to provide an additional friction grip between said marker and panel at the opposite side edges of the latter, whereby said marker is maintained by friction exerted at three separate and distinct localities in manually adjusted position against displacement relative to said panel and the copy supported thereby.

2,322,261
LINE INDICATING COPYHOLDER
Fred W. Thurston, Chevy Chase, Md.
Application January 22, 1943, Serial No. 473,230
9 Claims. (Cl. 120—33)



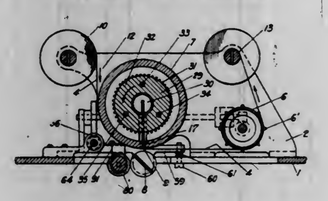
1. A line indicating copyholder comprising a frame including a copy supporting panel, and a manually adjustable line indicating member movably engageable at its opposite ends with the opposite side edges of said panel, said member consisting of separate longitudinally aligned complementary portions resiliently secured together, whereby to yieldably and frictionally engage the indicating member with the panel and to insure against slippage therebetween.

2,322,262
COLD HEADING MACHINE
Joseph John Tomalis, Providence, R. I., assignor to American Screw Company, Providence, R. I., a corporation of Rhode Island
Application January 15, 1942, Serial No. 426,910
8 Claims. (Cl. 10—12)



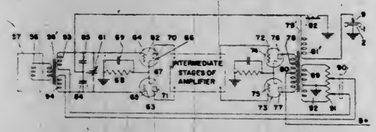
1. In a machine of the kind described, a stationary die, a ram movable toward and from said die, a slide carried by said ram, two independent punch holders carried by said slide one above the other, means for vertically reciprocating said slide on said ram to alternately present said holders to said fixed die, two lugs on said slide one above the upper punch holder and one below the lower punch holder, a set screw threaded through each of said lugs and engaging said holders, whereby said holders may be vertically adjusted on the slide, a threaded lug carried by said slide on each side of each of said holders, and a set screw threaded through each of said last named lugs and engaging said holders, whereby the holders may be laterally adjusted on the slide, and means for locking said holders to the slide.

2,322,263
ELECTROMAGNETIC RECORDING MECHANISM
Edwin E. Turner, Jr., West Roxbury, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Original application October 2, 1937, Serial No. 166,960. Divided and this application December 21, 1940, Serial No. 371,084
2 Claims. (Cl. 175—339)



1. In a recorder of the type described, the combination of a hollow cylindrical permanent magnet having an elongated airgap between its poles, a transformer having a closed hollow cylindrical core concentrically positioned within said magnet and having a toroidal primary winding and a secondary winding comprising an elongated closed single turn flat strip of conductive material wound edgewise and means freely suspending said secondary winding with one long side thereof within said core and the other long side within said elongated airgap for transverse motion therein.

2,322,264
APPARATUS FOR ECHO DISTANCE MEASUREMENT
Edwin E. Turner, Jr., West Roxbury, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Original application November 22, 1940, Serial No. 366,638. Divided and this application July 25, 1941, Serial No. 404,053
4 Claims. (Cl. 177—386)

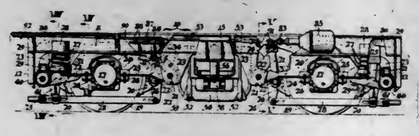


1. In an echo distance measuring system of the type in which the time interval is measured between direct and reflected signal impulses, the reflected impulse being of definite frequency and of an intensity which decreases as the length of the time interval being measured increases, the combination of a signal receiver adapted to receive said reflected impulses, a normally sharply tuned amplifier for said received impulses, an indicator adapted to be operated thereby and means under the control of the operator for negatively feeding back controllable portions of energy from the amplifier output into the amplifier input so that greater feed-back reduces sharpness of tuning and sensitivity, whereby control of the sensitivity of the system simultaneously reduces error in the time of operation of the indicator for short-time intervals being measured and increases the selectivity of the system for large-time intervals being measured.

2,322,265
YELLOW FLUORESCENT MATERIAL AND METHOD OF MAKING THE SAME
Woldemar A. Weyl, State College, Pa., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
No Drawing. Application January 2, 1941, Serial No. 372,891
10 Claims. (Cl. 250—81)

9. A material having a yellow fluorescence resulting from heating a mixture of oxides of zinc and vanadium to a temperature within the range of 600° C. to 900° C.

2,322,266
RAILWAY CAR TRUCK AND ITS BRAKE MECHANISM
Victor Willoughby, Ridgewood, N. J., assignor to American Car and Foundry Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 30, 1940, Serial No. 367,886
1 Claim. (Cl. 188—56)



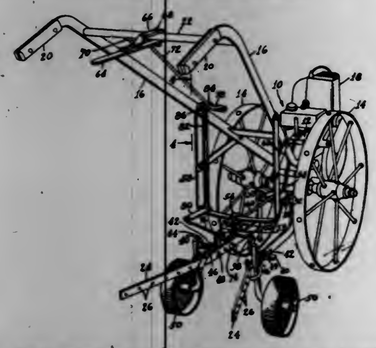
In a railway car truck comprising a load-carrying truck frame including side frames with connecting cross-members, truck wheels and axles therefor, fore and aft axle mountings pivoted to the side frames for independent up and down movement relative thereto about axes extending transversely of the truck between its wheels, and means interposed between said side frames and said mounting outside the truck wheels from the mounting pivots, for cushioning their relative movement as aforesaid: the combination of brake mechanism mounted at the inner side of each side frame, said mechanism including brake shoes at opposite sides of each wheel, suspension hangers for said shoes pivoted to upstanding pairs of supporting arms in the corresponding axle mounting, one pair of which are at the free end of the axle mounting and the other pair being attached to the pivot portion of said mounting, upright dead and live truck levers pivotally attached to the brake shoes by their hanger pivots, lengthwise adjustable links interconnecting the lower ends of said truck levers, a link fulcruming the upper end of each dead truck lever to the corresponding truck frame cross member, and means connecting the upper end of each live truck lever to a common power actuator on the truck frame, whereby the relations of the brake shoes to one another and to the wheel remain unaffected by the movement of the associated axle mounting and wheel with respect to the truck frame.

2,322,267
SHOE FORM
Roger E. Woodard, Campello, and Austin C. MacLean, Braintree, Mass., assignors, by mesne assignments, to Robert Channing Company, East Bridgewater, Mass., a corporation of Massachusetts
Application June 4, 1942, Serial No. 445,700
8 Claims. (Cl. 12—128.1)



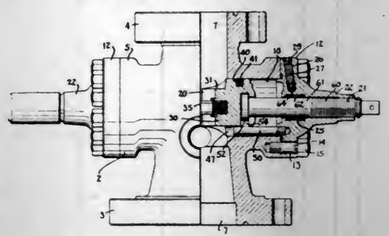
1. A shoe form including a fore member and a heel member having interior opposite clearance faces, that on the fore member having a relatively broad slot extending vertically thereof, the clearance face on the heel member having a vertically slotted undercut, a relatively broad lever pivoted at its lower end transversely in the rear end of the fore part and pivoted between its ends transversely through the walls of the slot of said undercut of the heel member, said lever having a flat forward face having transverse notches, a relatively broad pawl member pivoted in the upper part of the vertical slot of the rear interior face of the fore member, and having a transversely beveled end adjustably engageable in said transverse notches of said lever member for holding lever separation of the members, the upper end of said lever extending to and slightly above the upper levels of said heel and fore members.

2,322,268
TRACTOR IMPLEMENT
William L. Zink, Plano, and George L. McKibben, Kankakee, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application January 18, 1940, Serial No. 314,426
11 Claims. (Cl. 97—48)



1. The combination with a tractor having a pair of rearwardly extending handle bars of a trailing implement comprising a draft member connected to the tractor, a plate member pivotally connected to the draft member, a pair of spaced beams pivotally connected to the plate member and extending rearwardly, said beams being swingable transversely to the direction of travel, a spacing member adjustably connected to the beams for retaining the beams in spaced positions, and manually operable means carried by the handle bars and operatively connected to the spacing member for swinging the beams transversely to the direction of travel.

2,322,269
BLOWOUT PREVENTER
Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Houston, Tex.
Application October 14, 1940, Serial No. 361,033
6 Claims. (Cl. 137—139)



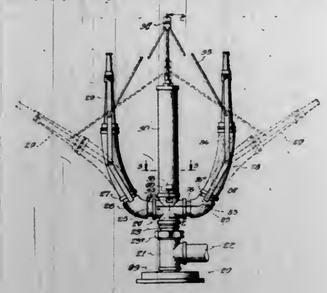
1. A blowout preventer including a housing, vertical and transverse passages thru said housing, an insert ram and bonnet assembly bolted on each end of said transverse passage, each insert including a bonnet cap, means to attach said cap to the housing, an extension on said cap, a manually operable spindle extending thru said cap and extension and threaded into said extension, a smooth surface on said spindle where it passes thru said cap, a fluid pressure packing in said cap about said smooth spindle portion so as to maintain a seal about said spindle, a ram fitted into said passage, a head and slot connection for said ram to the inner end of said spindle, a packing on said ram to seal across the front face and around the upper side thereof, a groove longitudinally of the ram at its lower side, and a guide pin fixed in said cap and projecting into said transverse passage and into said groove so that said ram will be held against rotation, said head and slot and pin and groove connections permitting the raising and lowering of the ram relative to said bonnet assembly whereby the size of ram may be readily changed by disconnecting the bonnet.

2,322,270
THIAMIN CONTAINING COMPOSITIONS AND THEIR PRODUCTION
Lawrence Atkin and Alfred S. Schultz, Bronx, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application March 24, 1939, Serial No. 264,042
6 Claims. (Cl. 167—81)

6. A composition of matter consisting of an aqueous solution of a gelatinous substance to which thiamin has been added, the gelatinous substance and thiamin being present in relatively small amounts and the gelatinous substance being present in a minor quantity with respect to the thiamin.

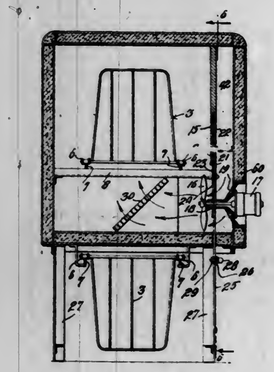
2,322,271
IRRIGATION SPRINKLER
William N. Bagley, Chicago, Ill.
Application September 23, 1940, Serial No. 358,005
8 Claims. (Cl. 299—66)

1. A sprinkler comprising a rotatable center unit receiving a pressure water supply, a nozzle leading outwardly from the unit and forming a sprinkling delivery for a portion of said supply, a motor means operated by another portion of said water supply to impart a vertical oscillating movement to the nozzle relative to the unit so as to provide it with an inward and outward movement, and control means for said other water supply portion effective on the action of the motor



to accelerate the inward movements of the nozzle and decelerate the outward movements thereof.

2,322,272
DRYING OVEN
Frederick S. Bailey, Hoboken, and Paul Schone, Ridgefield, N. J., assignors to National-Standard Company, a corporation of Michigan
Application June 28, 1941, Serial No. 400,240
2 Claims. (Cl. 34—150)



1. In a structure of the character described, a drying chamber, a conveyor movable through said chamber for carrying plates to be dried, an air passage separated from the chamber by a partition, means for delivering a flow of heated air into the air passage, the partition having an opening establishing communication between the air passage and the chamber, a fan located within the chamber and in front of said opening and having its ingress end facing said opening, a shaft on which the fan is secured extending through said opening, a vertically adjustable plate constituting a damper mounted for raising or lowering movement to thereby regulate the size of the opening, said plate being provided with a vertically disposed open-bottom slot straddling the fan shaft, means carried by the plate and extending externally of the chamber for enabling the plate to be manually raised or lowered and fixed in any selected position, and means for exhausting the air from the drying chamber.

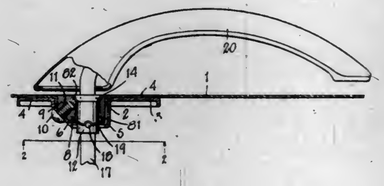
2,322,273
PROCESS FOR MANUFACTURE OF ESTERS OF MONONITRILES OF DICARBOXYLIC ACIDS
Burnard S. Biggs, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application November 22, 1940, Serial No. 366,723
6 Claims. (Cl. 260—464)

1. The method of producing an ester of a mononitrile of an aliphatic dicarboxylic acid comprising in a single operation hydrolyzing one of the nitrile groups of the dinitrile of said acid and esterifying the hydrolytic product.

2,322,274
MAGNESITE FOR FURNACE LININGS
Raymond E. Birch and Clyde L. Thompson, Mount Lebanon, Pa., assignors to Harbison-Walker Refractories Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application December 4, 1940, Serial No. 368,500
6 Claims. (Cl. 106—58)

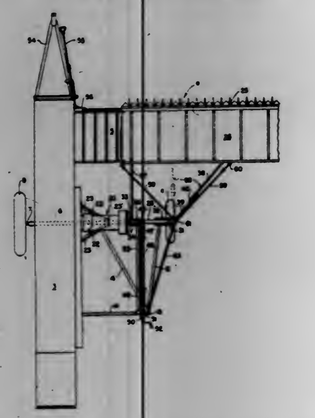
1. That method of making a furnace lining comprising forming the lining from a formable mixture of sodium silicate with dead burned magnesite intimately admixed with more than about 0.5 to about 5 per cent of free lime, and firing said lining, after it has set.

2,322,275
DOOR HANDLE
Albert L. Birdsall and Gerald V. Jakeway, Grand Rapids, Mich., assignors to Keeler Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application December 26, 1939, Serial No. 310,933
11 Claims. (Cl. 292—356)



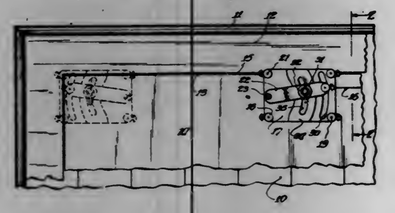
1. A handle assembly for automobile doors, comprising a reinforcing body plate adapted to be welded to an apertured door panel and having an inwardly projecting angled extension thereon, a tubular support member receivable in the aperture of the panel, threaded means engaging said extension and support member to fixedly secure the latter in operative relation to the panel substantially flush with the exterior surface thereof, a bushing telescopingly receivable in the bore of said support member for rotary movement therein, said bushing and support member having coacting swiveling thrust surfaces and the bore of the support member being flared outwardly relative to the body of the bushing for predetermined swiveling movement of the bushing in the support member relative to the axis of the bushing, a handle spindle non-rotatably received in the bushing, and end thrust means coacting with the bushing and support member to maintain said thrust surfaces in engagement.

2,322,276
HARVESTER PLATFORM MOUNTING MEANS
Wilfred A. Blaser, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 8, 1941, Serial No. 418,019
11 Claims. (Cl. 56—122)



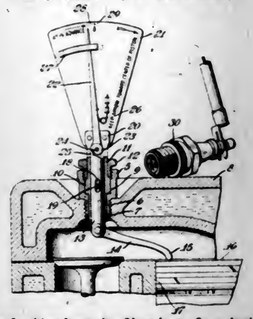
1. In a harvester, the combination of a frame comprising a transverse beam, a pair of supporting wheels mounted on opposite ends thereof, respectively, a thresher body carried on said beam adjacent one end thereof, a harvester platform disposed transversely ahead of said beam and having laterally spaced supporting arms extending rearwardly from beneath the platform, and a rock shaft disposed generally parallel to said beam and journaled thereon adjacent the opposite end thereof, said laterally spaced supporting arms being attached at their rear ends to said rock shaft and swingable with said rockshaft about the axis of the latter to raise and lower the platform.

2,322,277
LINOLEUM MARKER
Bernard J. Brown, Elgin, Ill., assignor of one-half to Theodore H. Akemann, Elgin, Ill.
Application February 11, 1942, Serial No. 430,453
9 Claims. (Cl. 33—42)



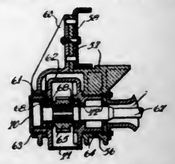
1. A marker for linoleums and the like comprising a slidable plate having elements at one side for guiding the plate along a given course, and means between the sides of the plate adjustable to mark a line on the linoleum in parallelism with said course at different distances from the latter, said elements comprising bearings at the front and rear of the plate, and vertical pins secured in said bearings and projecting below the plate.

2,322,278
SPARK TIMING INDICATOR
Jacob S. Buckwalter, Philadelphia, Pa.
Application October 20, 1941, Serial No. 415,846
1 Claim. (Cl. 33—181)



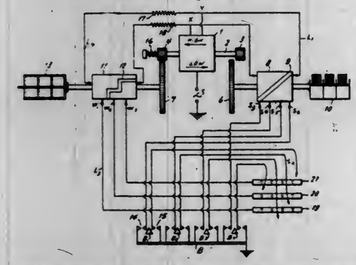
In a spark timing indicator for internal combustion engines, a tubular housing adapted to be fitted into the spark plug opening of an internal combustion engine, a plunger rod slidably fitted in the said housing and projecting inwardly thereof, means for limiting the axial sliding movement of the plunger rod, an arm having frictional pivot connection with the inner end of the plunger and extending angularly therefrom to engage the piston of an engine, an indicator plate attached to and extending outwardly from the housing, a pointer pivotally mounted adjacent the inner end of the plate for swinging movement along a face of the plate, the said pointer having a shoulder at its inner end, a projection on the outer end of the plunger engageable with the shoulder on the pointer to effect operative movement of the latter upon axial movement of the plunger, a spring fixed to the indicator plate and pressing against the pointer so as to yieldingly urge the latter against movement by the plunger, and a bracket secured on the indicator plate for limiting the swinging movement of the pointer.

2,322,279
VEHICLE DRIVE MECHANISM
Gustave A. Collender, Los Angeles, Calif.
Application March 29, 1941, Serial No. 385,953
8 Claims. (Cl. 180—22)



1. In a multiwheel vehicle having a framework and tandem sets of wheels disposed adjacent the sides thereof, a suspension at each side comprising a walking beam supported at its ends by certain of the wheels and pivotally connected between its ends to means carried by the framework, said walking beam having a cavity containing gearing adjacent its pivotal axis, means for driving the gearing comprising a shaft extending into the gearing at the pivotal axis of the beam, and means connected between said gearing and at least one of the adjacent wheels to drive the latter, the last mentioned means comprising two short shafts extending from the gearing outwardly of the beam and mechanism connecting said short shafts individually to their respective adjacent wheels.

2,322,280
RADIO RECEIVER
Arthur Henry Cooper, Iver, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application June 7, 1939, Serial No. 277,832
In Great Britain June 17, 1938
9 Claims. (Cl. 172—239)



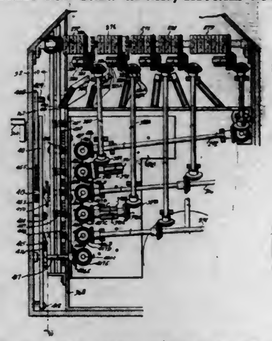
1. The combination with a pair of separately adjustable controlling elements, a single motor for operating said elements, a plurality of individually operable means each acting upon operation to couple the motor to one of said controlling elements and effect the operation of the controlling element to a predetermined position and means rendered effective through continued operation of the selected one of said selectively operable means and only when said last named controlling element is in said predetermined position for disconnecting the motor from said first named controlling element and coupling the motor to the other of said controlling elements and effect the operation of said last named controlling element to a predetermined position.

2,322,281
SEPARATION OF PIPERYLENE ISOMERS
David Craig, Silver Lake Village, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 20, 1942, Serial No. 427,462
4 Claims. (Cl. 260—681.5)

1. The method which comprises reacting a mixture of isomeric piperylenes containing a substantially larger amount of one isomer than of the other with a salt of a heavy metal of group I and II of the periodic system to form a mixture of complexes, partially decomposing the mixture of complexes to liberate a mixture of piperylenes containing less of the isomer originally present in the substantially larger amount than the initial mixture, separating the mixture of piperylenes so liberated from the undecomposed complexes, and then continuing the decomposition to liberate a mixture containing more of the isomer originally present in the substantially larger amount than the initial mixture.

2,322,282
RECORDING APPARATUS
Fount F. Daugherty, St. Louis, Mo., assignor to Thomas Francis, Fount F. Daugherty, Neal S. Wood, Thomas H. Mize, Idus L. Rhodes, W. J. Moran, Laura P. Carpenter, David R. Francis, all of St. Louis, Mo., and Nathaniel Ewing, Fort Lewis, Wash., as trustees
Original application January 2, 1940, Serial No. 312,012. Divided and this application August 24, 1940, Serial No. 354,021
19 Claims. (Cl. 164—114)

1. In a recording device of the character described, a rotary drum movable from an initial position, a plurality of projections on said drum, a plurality of punches or alternately printing elements arranged for actuation from initial positions into recording positions by said projections, drive means for said drum, means for deriving a



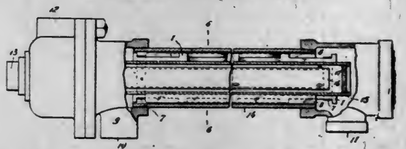
record from said punches or alternately printing elements in recording positions, actuating means for said record deriving means, and means controlled by said actuating means and operable independently of said drive means for returning the drum to said initial position.

2,322,283
GRATE
Albert A. Denny, Sewickley, Pa.
Application May 9, 1941, Serial No. 392,786
2 Claims. (Cl. 110—35)



1. In a grate, a supporting structure, grate members mounted to rotate on the supporting structure and disposed in planes which slant upwardly to an apex intermediate the sides of the grate, a train embodying spur gears on the grate members and spur pinions carried for rotation on the supporting structure, all of the pinions being out of mesh with each other and in mesh with the spur gears, the innermost gears being in mesh with each other, the remainder of the gears being out of mesh with each other, the pinions being disposed partially below the spur gears, to permit the grate members to be of small diameter and still permit them to be disposed close together, and means for actuating the train.

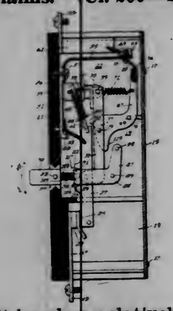
2,322,284
HEAT EXCHANGER
Edward A. Dewald, Massillon, Ohio, assignor to The Griscom-Russell Company, New York, N. Y., a corporation of Delaware
Application December 23, 1939, Serial No. 310,689
6 Claims. (Cl. 257—262)



6. An exchanger for transferring heat between

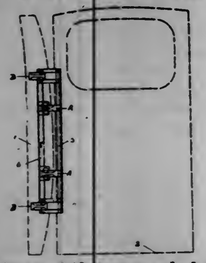
fluids in two or more closed circuits comprising one or more tubular heat-transfer elements having fins affixed longitudinally thereon centrally for a substantial portion of the length thereof, flow retarders of sheet material interposed between and longer than said fins, said retarders having three sided notches on the upper side of the ends thereof and removable retaining rings fitted into said notches beyond the ends of said fins, whereby said retarders are maintained in position around said tubular elements and between the fins thereof both laterally and longitudinally.

2,322,285
CIRCUIT BREAKER
Hiller D. Dorfman, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 29, 1941, Serial No. 395,802
14 Claims. (Cl. 200—116)



8. In a circuit breaker, relatively movable contacts, a switch arm operable to cause opening of the contacts, spring biased actuating means releasable to operate the switch arm, a bimetal element responsive to abnormal circuit conditions to release said actuating means, a contact actuating member pivoted on the switch arm, an over-center spring cooperating with the contact actuating member to form a toggle, said toggle being movable with the switch arm for operating the contact actuating member to open the contacts, and manually operable means operable to reset the spring biased actuating means and also operable to cause the toggle to close the contacts.

2,322,286
CONCEALED HINGE FOR AUTOMOBILE DOORS
Charles Dumelin, Detroit, Mich.
Application September 5, 1941, Serial No. 409,677
2 Claims. (Cl. 16—166)

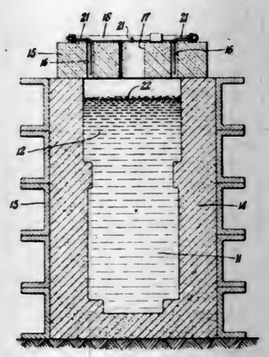


1. A door hinge of the concealed type comprising two channels for attachment to a door and door jamb, said channels having aligned bearing portions secured thereto, the bearing portions being located in pairs at the upper and lower ends of one channel and intermediate the channel length of the other channel, each pair of bearing portions receiving a bearing portion therebetween secured to a channel opposite the corresponding pair of bearing portions, said bearing portions being slidably and pivotally connected by ball bearing elements, said elements being seated in recesses in said pairs of bearing portions and movable in curved grooves in the bearing portions received between said pairs of bearing portions.

2,322,287
METHOD OF PRODUCING YEAST
Robert E. Eakin and Roger J. Williams, Corvallis, Oreg., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application June 10, 1939, Serial No. 278,408
5 Claims. (Cl. 195—82)

1. A method for stimulating the growth of yeast, which comprises preparing a nutrient medium containing a yeast assimilable carbohydrate, a yeast nutrient inorganic salt, aspartic acid, inositol, a member of the group consisting of calcium pantothenate and beta alanine, crystalline thiamin, biotic acid and vitamin B_6, incorporating yeast with said nutrient medium, and propagating the yeast therein, said vitamin B_6 acting to stimulate growth of the yeast.

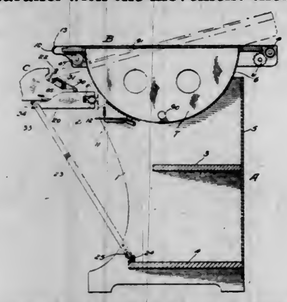
2,322,288
METHOD OF TREATING CASTINGS
William G. Edwards, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application August 20, 1941, Serial No. 407,544
7 Claims. (Cl. 22—216)



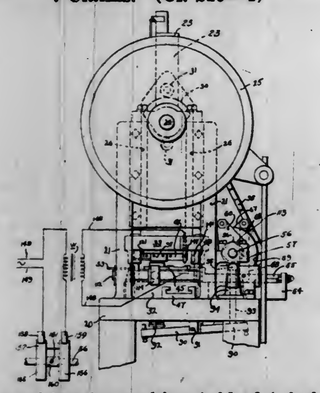
1. A method of treating a molten cast body of metal comprising covering the top of such cast body with a blanket of carbonaceous black, and impinging a stream of gaseous oxygen flowing from a substantially non-combustible source against said blanket, thereby burning said carbonaceous black and supplying heat to said cast body to maintain the metal fluid in the upper portion thereof.

2,322,289
TYPEWRITER COMBINATION
John S. Edison, Burbank, Calif.
Application August 14, 1939, Serial No. 290,025
9 Claims. (Cl. 197—1)

6. The combination with a stand, of a platen along one edge of said stand, a support attachable to the front of said stand for movement parallel with said platen, and a printing mechanism mountable on said support for letter space movement parallel with the movement thereof, whereby the support is movable to any desired printing position along the platen and the printing mechanism is movable on the support in the same direction for letter spacing purposes.



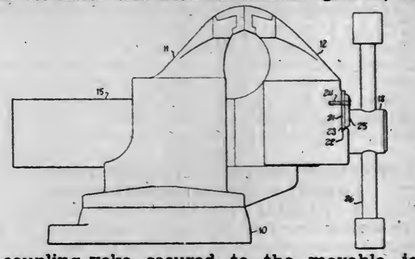
2,322,290
APPARATUS FOR MAKING TUBULAR ELECTRODES
Richard H. Gabel, Norristown, Pa., assignor to Superior Tube Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 13, 1940, Serial No. 334,751
7 Claims. (Cl. 219—4)



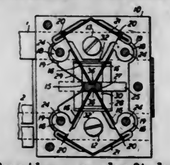
1. A machine for making tabbed tubular electrodes comprising means for feeding a strip of electrode stock to a blanking station, means for feeding a strip of tab stock, a tool support movable toward and from said strips, a blanking die carried by said support for cutting blanks from said strip of electrode stock, structure movable with said support to effect attachment of said strips to each other, and means movable with said support for severing said strip of tab stock substantially concurrently with its attachment to said strip of electrode stock.

2,322,291
VISE
Charles M. Gearing, Meriden, Conn., assignor to The Charles Parker Company, Meriden, Conn., a corporation of Connecticut
Application March 5, 1942, Serial No. 433,487
3 Claims. (Cl. 81—33)

1. A vise comprising fixed and movable jaws combined with a screw by means of which the movable jaw is moved inward or outward, said movable jaw formed in its outer face with notches, said screw provided with a head formed near its inner end with an annular groove, and a coupling-yoke secured to the movable jaw above the screw and extending into said groove and having its ends entered into said notches in said movable jaw.

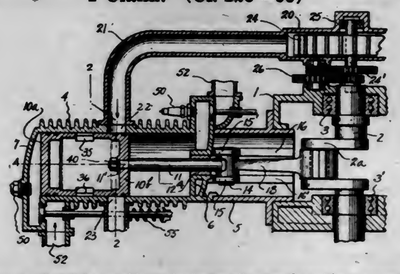


2,322,292
BEARING STRUCTURE FOR RELAYS AND THE LIKE
Henry C. Harrison, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 17, 1941, Serial No. 402,785
13 Claims. (Cl. 308—26)



3. In combination, a shaft having a plurality of longitudinally extending grooves in its surface near each end thereof and a bearing support for each end of said shaft comprising a box-shaped member disposed at right angles to the axis of said shaft having a centrally disposed opening in its bottom wall through which said shaft extends and having a spring finger secured to each of its inside corners and extending radially toward said shaft with its free end seated in a groove of said shaft.

2,322,293
INTERNAL COMBUSTION ENGINE
Harry O. Hedges, Seattle, Wash.
Application January 24, 1942, Serial No. 428,070
1 Claim. (Cl. 123—63)



In a double acting internal combustion engine of the character described, a cylinder, closed at its opposite ends and equipped with means at both ends for the admittance and ignition of fuel

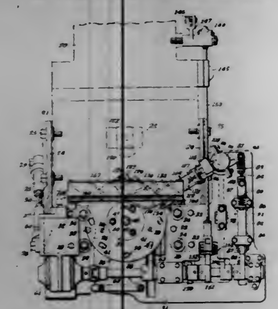
charges thereinto and for the exhaustion of burned charges therefrom, and having air inlet and outlet ports in its side walls intermediate its ends, and a piston reciprocally contained in the cylinder, and having a cooling passage therethrough adapted, with movement of the piston from one extreme to the other, to pass in registration with said air inlet and outlet ports for the delivery of cooling air through the piston and cylinder; said piston at all times overlapping said ports at the end of each stroke to prevent entry into the combustion chamber.

2,322,294

FEEDING MECHANISM FOR POWER PRESSES AND LIKE MACHINES

Moses D. Heyman, Cedarhurst, N. Y., assignor of one-half to Irene K. Heyman, Cedarhurst, N. Y.

Application January 8, 1941, Serial No. 373,577
11 Claims. (Cl. 192—125)



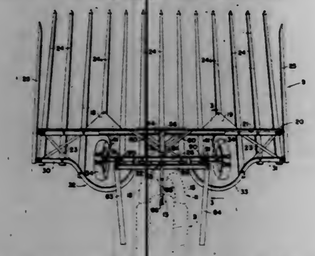
1. The combination with a die and tripping mechanism for the punch of said die, of feeding mechanism for said die comprising a work piece receiving support, means for transferring work pieces from said support to said die, said transferring means comprising an oscillating arm having a tiltable portion, said tiltable portion being adapted to tilt upon encountering interfering matter during its work piece transferring movement, means for operating said tripping mechanism synchronously with the movement of said transferring means, an electric circuit including a solenoid for maintaining said last mentioned means operative during normal operation of said transferring means, and a switch in said circuit adapted to be opened by said tiltable portion for de-energizing the solenoid and thereby rendering said tripping mechanism inoperative.

2,322,295

SWEEP RAKE

George B. Hill, Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a corporation of Iowa

Application March 20, 1940, Serial No. 324,935
7 Claims. (Cl. 56—27)



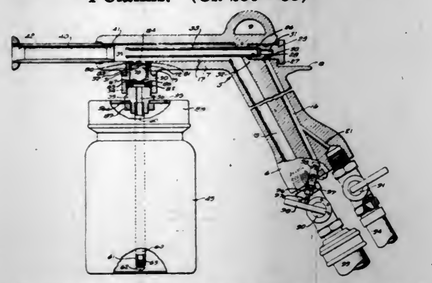
1. A tractor-propelled sweep rake comprising longitudinally spaced front and rear members disposed transverse to the line of forward travel, said rear member comprising a center beam and two outer beams connected therewith and extending laterally in opposite directions, a pair of dirigible supporting wheels connected with the outer ends of said center beam for turning about vertical pivots, each of said outer beams being offset rearwardly with respect to the center beams to provide clearance for its respective wheel.

2,322,296

SPRAY DEVICE

Donald P. Hunter, Los Angeles, Calif., assignor to Turco Products, Inc., Los Angeles County, Calif., a corporation of California

Application June 16, 1941, Serial No. 398,216
4 Claims. (Cl. 299—83)



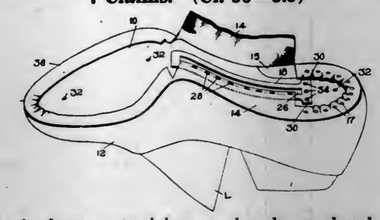
1. A spray device comprising, in combination, a body, a passageway therein for passing fluid under pressure, a restricted outlet disposed concentrically in the discharge end of the passageway, a tube for passing fluid under pressure, said tube being mounted concentrically in the passageway and having its discharge end adjacent the inlet end of the restricted outlet, an aspirating conduit in the body and having its inlet communicating with a fluid supply and its outlet communicating with the passageway at a point inwardly from the restricted outlet, a check valve in the conduit, and means providing seats for said check valve both towards and away from the outlet end of the conduit, said valve being operable by virtue of pressure differential between the respective ends of the conduit.

2,322,297

SHOE

Adrien L. Jalbert, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application September 4, 1942, Serial No. 457,305
7 Claims. (Cl. 36—8.5)



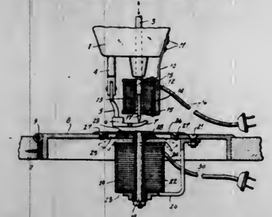
1. A shoe comprising an insole, a shank stiffener underlying the insole, said stiffener having a slot extending lengthwise thereof, an upper secured to the insole in the forepart of the shoe and having marginal portions extending inwardly from opposite sides of the shank portion of the shoe and into said slot, said portions being secured in underlying engagement with the insole and the shank stiffener by means located inwardly of the edges of the slot, an outsole coextensive with the forepart only of the shoe bottom, and a narrow strip extending lengthwise of the shank portion of the shoe bottom, said strip covering the inner edges of said marginal portions of the upper, but leaving said portions exposed to view outwardly of the lateral edges of said slot.

2,322,298

THERMAL ATTACHING MACHINE

Harry Johnston, St. Louis, Mo., assignor, by mesne assignments, to Mercantile-Commerce Bank and Trust Company, St. Louis, Mo., and Edward Greensfelder, St. Louis, Mo., trustees under the will of Wilton Rubenstein, deceased

Application February 28, 1941, Serial No. 381,197
7 Claims. (Cl. 154—42)



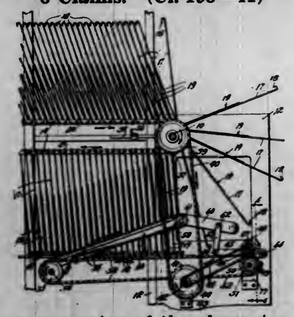
1. A machine for attaching separate sections of superimposed or overlapped textile materials or the like comprising a bed having an opening, a work plate supported by said bed across said opening, a rigid anvil extending upwardly through said work plate, means for heating said anvil, a device for moving said materials intermittently across said device and across said work plate and said anvil and stopping movement of said materials at intermittent rests, and a heated element supported above and cooperating with said anvil to effect adhesive attachment of said materials at spaced points and during respective rests of said materials along the portions thereof that pass between said anvil and said element.

2,322,299

CONVEYER FOR DRYING OVENS

Leon V. Kouyoumjian, Fairview, N. J., assignor to National-Standard Company, a corporation of Michigan

Application January 3, 1942, Serial No. 425,527
8 Claims. (Cl. 198—41)



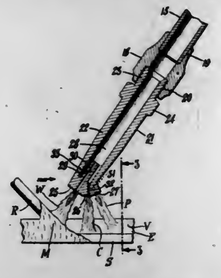
1. In an apparatus of the character described, a conveyer upon which a plurality of metallic plates are supported on edge, said conveyer including a rotating shaft around which the plates are carried, racks on the conveyer between which the plates are disposed, and magnetic means on said shaft for magnetically engaging the edges only of the plates and holding said plates against radial sliding movement over the racks while said plates are moved through a portion of each revolution of the shaft.

2,322,300

MULTIFLAME WELDING TIP

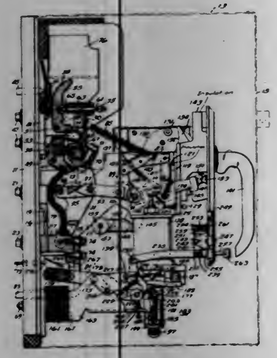
Walter R. Linden, Palisades Park, N. J., assignor to The Linde Air Products Company, a corporation of Ohio

Application October 1, 1940, Serial No. 359,193
3 Claims. (Cl. 158—27.4)



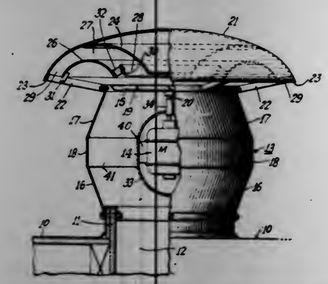
1. A cluster-type multi-flame oxy-acetylene blowpipe tip for the manual welding of ferrous metal parts in which a welding rod is progressively fed into a groove formed between opposed edges of said parts while the surfaces of the groove are preheated and the end of said rod is melted in a welding zone that progressively advances longitudinally of the groove, said tip comprising a substantially tubular unitary metal body member having at its forward end a welding-flame face lying in a plane that is substantially normal to the longitudinal axis of said member, a root-flame face adjacent said welding-flame face, and a preheating-flame face adjacent said root-flame face, said root-flame face being located between said welding-flame and preheating-flame faces, and said welding-flame, root-flame, and preheating-flame faces lying in planes that are inclined with respect to one another; said member also having a combustible gas inlet chamber extending axially through the major portion of its length and terminating in spaced relation to the forward end of said member; a single gas outlet passage extending substantially axially and forwardly from said inlet chamber to said welding-flame face for discharging a single main welding jet; a pair of gas outlet orifices extending from the forward end of said inlet chamber for discharging a pair of work-preheating jets, said orifices extending in divergent angular relation to said passage; and a single gas outlet port extending from the forward end of said inlet chamber and substantially centrally located in the triangle formed by said passage and said orifices, said port extending to said root-flame face for discharging a work-preheating jet; said orifices and port extending in angular relation on the same side of the axis of said passage, the arrangement being such that, when the tip is positioned about one-half inch from the parts being welded, the extremities of said pair of work-preheating jets impinge against the sides of the groove at a distance of approximately one inch from the point of impingement of the main welding jet.

2,322,301
CIRCUIT BREAKER
Ture Lindstrom, Edgewood, and John W. May, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 13, 1941, Serial No. 422,786
13 Claims. (Cl. 200—89)



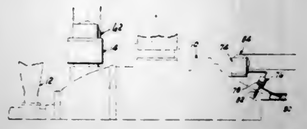
1. A circuit breaker comprising relatively movable contacts, operating mechanism for said contacts including an operating handle, a trip device including a trip member operable to cause opening of the contacts irrespective of the position of said handle, electrorespective means operable in response to predetermined overload circuit conditions to operate the trip member, and latch means operable to restrain the trip member in operated position upon operation of the trip member.

2,322,302
VENTILATOR
Edwin O. Martinson, Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware
Application December 23, 1940, Serial No. 371,299
1 Claim. (Cl. 98—43)



An electric motor-driven weather-proof ventilator having in combination a vertical shell adapted to extend upwardly through a roof and having a constricted portion at its upper end, a central chamber within said shell extending axially below the constricted portion of the vertical shell and spaced from the shell walls, a motor within said chamber and completely enclosed thereby and having a shaft extending upwardly out of said chamber along the axis of the shell, an axial flow exhaust fan carried by said shaft in the plane of the constricted portion of the shell, radial supports extending out from the shell at the upper end thereof, a dome of larger diameter than the shell carried by the outwardly extending supports and having its outer edge substantially on a level with the upper edge of said shell, an inverted frustro-conical deflector axially disposed on the underside of said dome, an annular deflector ring carried by the said outwardly extending supports having a curved cross section and having its outer peripheral portion substantially parallel to the outer peripheral portion of said dome, and spaced between said dome and the upper end of said shell, and having its inner peripheral portion substantially parallel to the surface of said conical deflector whereby said frustro conical deflector and said annular deflector direct any drops of moisture or wind-borne spray away from the motor shaft and whereby the discharge of said fan is divided into two concentric annular air streams.

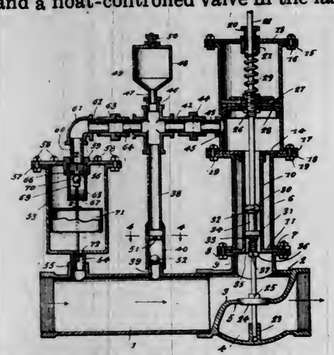
2,322,303
ENGINE CONTROL MEANS
Erle Martin, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 1, 1938, Serial No. 193,273
11 Claims. (Cl. 170—135.6)



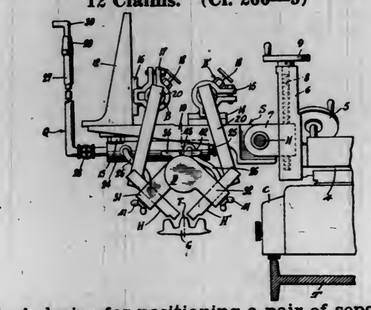
1. In combination with an aircraft engine having a device for varying the charge supplied to said engine, and a controllable-pitch propeller driven by said engine, means for maintaining the torque and speed of said engine substantially constant at preselected values comprising, a speed governor driven by said engine and operatively connected with said charge varying device to maintain the speed of said engine substantially constant at a speed predetermined by the speed setting of said governor, mechanism operatively connected with said engine and having an element movable solely in response to variations in engine torque from a predetermined torque value, and mechanism operatively connected with said propeller and actuated by said movable element to automatically return the engine torque to said predetermined torque value by decreasing the pitch of said propeller when the torque exceeds said selected value and increasing the propeller pitch when the torque falls below said selected value until the charge varying speed change thereby imposed on said governor effects a torque correcting variation in the charge supplied to said engine.

2,322,304
AUTOMATIC VALVE
David E. Montgomery, Mirando City, Tex.
Application July 10, 1942, Serial No. 450,438
6 Claims. (Cl. 137—68)

6. A valve structure of the character described comprising a pipe section, a main valve having a casing connected at its inlet end with the outlet end of the pipe section, pressure actuated means for opening and closing the main valve, a conduit leading from the pressure actuated means and having a branch connected with the pipe section and including a check valve adapted to be opened and closed in response to variations in pressure of liquid in the pipe section, another branch connecting the conduit with the pipe section, and a float-controlled valve in the last mentioned branch adapted to be closed by upward movement of the float.



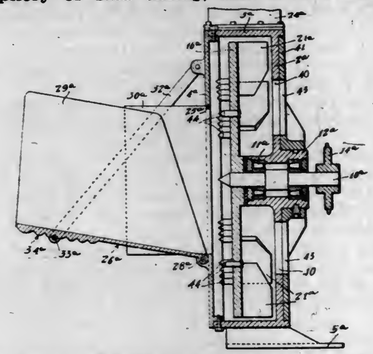
2,322,305
HEAT TREATING APPARATUS
Frank McGuire, Jr., Bogota, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application June 15, 1940, Serial No. 340,645
12 Claims. (Cl. 266—5)



1. A device for positioning a pair of separately supported blowpipe heads for hardening gear teeth or the like, comprising a pair of arms pivotal about a common center; means for indicating the angular position of each arm about said common center comprising a scale on each arm indicating the number of degrees of rotation of each arm with respect to said common center, one scale reading from a lower to a higher number of degrees in the opposite direction from which the other scale reads; and means for removably securing one of said heads to each arm.

2,322,306
ICE SHAVER AND BLOWER
Chester McLaren, Yuma, Ariz.
Application June 10, 1941, Serial No. 397,427
1 Claim. (Cl. 83—63)

An ice crusher and blower comprising a substantially cylindrical casing containing an imperforate rotor and having front and rear end walls, a shaft for said rotor extending through said rear wall, and bearing means for rotatably supporting said shaft, a rectangular window in said front wall of substantially the shape and dimension of the cross section of a standard cake of ice, means for supporting a cake of ice for feeding movement through said opening to said rotor, the cake substantially filling said opening while feeding therethrough, ice comminuting elements on the front face of said rotor, blower vanes on the rear face of said rotor, an air admission opening in said rear wall of said casing substantially centrally located behind said rotor, and a discharge duct extending from the periphery of said casing, said duct communicating directly with the interior of the casing on both the front and rear sides of the rotor whereby ice comminuted by said comminuting members on the front face of the rotor is entrained in a continuous blast of air created by said vanes through said inlet opening, for conveying said ice through said discharge duct.



2,322,307
COMPOUNDED OIL
George L. Neely and Frank W. Kavanagh, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 20, 1939, Serial No. 280,124
11 Claims. (Cl. 252—33)

1. A compounded liquid lubricant comprising a liquid hydrocarbon oil subject to deterioration and deposition of adhesive materials at elevated temperatures, said hydrocarbon oil containing from approximately 0.1% to approximately 5% by weight based on the oil of oil-soluble mixed salts of aluminum having a naphthenic and a saturated higher fatty acid radical, said mixed salts being present in an amount sufficient substantially to reduce said deposition.

2,322,308
TREATMENT OF ORGANIC COMPOUNDS
Wendell W. Moyer, Decatur, Ill., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application February 23, 1939, Serial No. 258,093
9 Claims. (Cl. 260—647)

1. The process for the treatment of an industrial mixture comprising unsaturated organic compounds which contain an aliphatic



linkage but are free from reactive substituents in admixture with other organic compounds free from reactive substituents, which comprises reacting said industrial mixture with a nitrosyl halide selected from the group consisting of nitrosyl chloride and nitrosyl bromide under mild conditions to form a resulting mixture comprising addition products of said unsaturated organic

compounds and said nitrosyl halide, while leaving said other organic compounds substantially unaffected, and separating said addition products from the remainder of said resulting mixture.

2,322,309

FLOCCULOSE VINYL HALIDE POLYMERS

Leslie Budworth Morgan and William McGillivray Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application May 13, 1940, Serial No. 334,980. In Great Britain May 26, 1939

3 Claims. (Cl. 260—88)

1. Process for the preparation of flocculose polymers of vinyl halides which comprises agitating in a closed system and polymerizing the vinyl halide essentially free from other polymerizable materials in an aqueous solution containing 0.25 to 5.0% of a polymeric water soluble acid of the class consisting of polymeric acrylic acid, polymeric methacrylic acid and interpolymers of at least one of said acids with an ester of one of said acids.

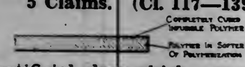
2,322,310

TRANSPARENT BARRIER FOR VEHICLES

Irving E. Muskat, Maxwell A. Pollack and Franklin Strain, Akron, and William A. Franta, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application February 8, 1940, Serial No. 317,872

5 Claims. (Cl. 117—139)



1. An artificial glass which comprises a transparent fusible plastic which is derived from the polymerization of a saturated ester of an acid of the group consisting of acrylic and alpha-substituted acrylic acids which is surfaced with a film of hard, wear-resistant, transparent, substantially insoluble, infusible polymer derived by the polymerization of an organic compound having two unsaturated polymerizable groups separated by oxygen linkages, said film being of a thickness not substantially greater than 0.002 inch.

2,322,311

CARBOXYLATED ESTROGENIC HORMONES

Joseph B. Niederl, Brooklyn, N. Y.

No Drawing. Application February 15, 1940, Serial No. 319,058

19 Claims. (Cl. 260—397.1)

1. The process for the preparation of new estrogenic compounds from crude estrogenic extract which comprises forming alkali metal salts of the phenolic estrogenic hormones contained in said extract, heating the said salts under substantially anhydrous conditions to a temperature of at least 140° C. in an inert atmosphere, introducing the carbon dioxide into the heated mass and reacting the gas with the said salts thereby forming carboxylated phenolic estrogenic hormones.

2,322,312

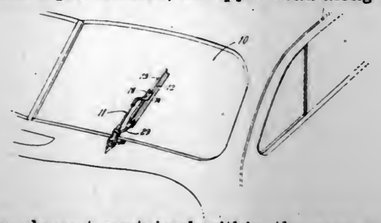
WINDSHIELD WIPER

Charles L. Osborn, Cheyenne, Wyo.

Application October 17, 1941, Serial No. 415,367

2 Claims. (Cl. 15—250.5)

1. A windshield wiper comprising: an elongated shell having a substantially V-shaped cross section; a first longitudinally extending tube formed along the apex of said shell opening between the sides thereof; two longitudinally extending edge tubes along the flaring edges of said shell; a flexible wiper element; an upper bead along said



wiper element contained within the apex tube; an electrical heating element in each edge tube; and a lower bead along said wiper element projecting beyond the edge tubes, there being openings communicating between the edge tubes and the interior of said frame to allow the heat rays and heated water to flow to the lower bead.

2,322,313

TREATMENT OF WOOL TO DIMINISH SHRINKAGE

Henry Phillips and William Robert Middlebrook, Leeds, England

No Drawing. Application April 20, 1939, Serial No. 268,988. In Great Britain April 21, 1938

9 Claims. (Cl. 195—5)

8. A process for the treatment of wool for the purpose of diminishing shrinkage, wherein the wool is subjected to the action of a solution of papain containing sodium bisulphite and having a pH value of about 6.7, in which solution the concentration of sodium bisulphite is at least 1 per cent and in which the weight of sodium bisulphite is at least 38 times the weight of papain.

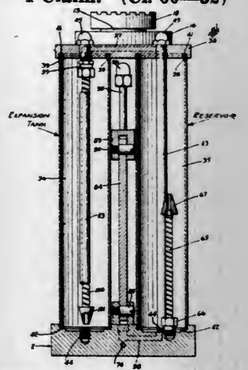
2,322,314

HYDRAULIC JACK

Timothy C. Pomeroy, Long Beach, Calif.

Original application January 22, 1938, Serial No. 186,366, now Patent No. 2,211,479, dated August 13, 1940. Divided and this application July 5, 1940, Serial No. 343,928

1 Claim. (Cl. 60—52)



In a hydraulic jack, a cylinder, a plunger therein, an inelastic fluid, a reservoir, a valved passage connecting the bottom of reservoir to the cylinder, an expansion tank disposed adjacent to the reservoir, a fluid passage connecting the

upper ends of the reservoir and expansion tank, a pump for pumping fluid from the reservoir through the valved passage to the cylinder to elevate the plunger, the intake of said valved passage having one end of a flexible tube connected thereto, said tube being mounted in the bottom of the reservoir and extending upwardly therein and having a weighted head, whereby the tube will flex or bend when the jack is placed in an inclined or horizontal position, thereby to retain the intake end of said flexible tube beneath the level of the fluid in the reservoir, and the fluid passage connecting the upper ends of the reservoir and expansion tank having a flexible tube connected thereto and extending downwardly into the expansion tank with its lower end terminating adjacent to the bottom of the expansion tank, whereby free circulation of the fluid between the reservoir and expansion tank is obtained without the use of an air vent.

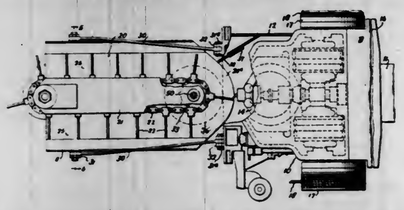
2,322,315

SLACK OR CUTTINGS REMOVING ATTACHMENT FOR KERF-CUTTING MACHINES

Thomas E. Pray, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application March 6, 1942, Serial No. 433,581

6 Claims. (Cl. 262—28)



1. A cuttings removing device adapted for detachable connection with a kerf-cutting machine, comprising a rearwardly inclined frame having an endless orbitally movable conveyer chain with laterally extending gathering arms thereon, a horizontally rotatable drive sprocket for said conveyer chain mounted on a vertical axis at the front end of said frame, an upright drive shaft adapted for endwise detachable driving engagement in said sprocket, and coupling means adapted for detachable driving connection with a power driven coupling member on the kerf-cutting machine and affording endwise sliding connection with the upper end of said drive shaft, to permit said drive shaft to be raised out of driving engagement with said drive sprocket.

2,322,316

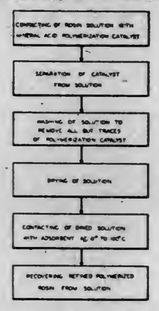
METHOD OF REFINING POLYMERIZED ROSIN AND POLYMERIZED ROSIN ESTERS

Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application December 23, 1941, Serial No. 424,139

10 Claims. (Cl. 260—108)

1. A method for the production of a material selected from the group consisting of polymerized rosin and polymerized rosin esters in highly refined form which comprises contacting a material selected from the group consisting of rosin and rosin esters dissolved in an inert organic solvent therefor with a mineral acid polymerization catalyst to effect polymerization thereof, separating the catalyst from the solution of the polymerized product, washing the said solution with water to remove all but the last traces of the polymerization catalyst, treating the washed solution to remove the water present therein, contacting the dried substantially anhydrous solution of the polymerized material containing contaminating traces of catalyst in addition to color bodies with from about 5 to about 30 per cent



by weight based on the weight of polymerized material of an adsorbent at a temperature within the range of about 0° to about 100° C. for a sufficient period of time to remove the traces of catalyst from the polymerization product, and recovering the said polymerization product in a highly refined state from the said solution.

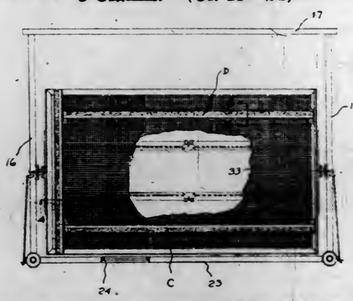
2,322,317

CURTAIN STRETCHER

Mayme Roosevelt, Detroit, Mich.

Application June 6, 1941, Serial No. 396,853

3 Claims. (Cl. 45—24)



2. In a curtain support of the class described, a supporting frame embodying a pair of spaced apart, vertically directed standards; a connecting rail for connecting said standards at their upper ends; means for connecting said standards together adjacent their lower ends; a curtain supporting frame rotatably mounted on and positioned between said standards and revoluble on its mountings through a complete revolution; releasable means at opposite ends of said first named frame for securing said curtain supporting frame in either vertical or horizontal position; and foot operated means at opposite ends of said supporting frame adapted upon actuation for releasing said releasable means at both sides of said frame.

2,322,318

BUMPING MACHINE

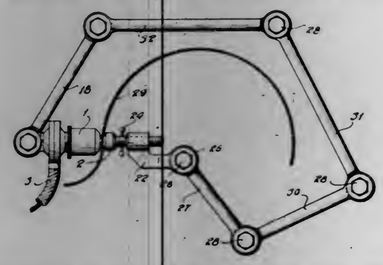
Millard O. Rose, Detroit, Mich.

Application June 27, 1941, Serial No. 400,011

1 Claim. (Cl. 153—48)

A bumping machine comprising a hammer and

an anvil, a casing for the hammer, means for reciprocating the hammer in the casing, an anvil, an arm carrying the anvil at one end, means for adjusting the anvil toward or from the face of the element being bumped opposite that engaged by the casing, a series of arms in a jointed relationship, the arm at one end of the series being rotatably adjustable relative to the hammer casing, and the other end of the series of arms being



rotatably adjustable relative to the anvil carrying arm, the series of arms between the two end elements thereof being joined in a rotatably adjustable relationship, and means for rigidly securing the respective arms in adjusted relation one to the other and to the hammer and anvil portions, whereby the said anvil and hammer are held in operative position with the work during the bumping operation.

2,322,319
STRAIN RESPONSIVE APPARATUS
Arthur C. Ruge, Cambridge, Mass.
Original application September 16, 1939, Serial No. 295,207. Divided and this application July 15, 1942, Serial No. 451,063
7 Claims. (Cl. 201—63)

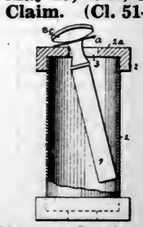


1. A strain responsive apparatus comprising, in combination, a member adapted to be strained, a plurality of filaments formed of material whose electrical resistance varies in accordance with strain thereof, means for bonding said plurality of filaments throughout their effective lengths to said member with said filaments being so disposed with respect to said member that the strain of at least one of the filaments is influenced by the Poisson effect in said member, and means commonly controlled by said plurality of filaments in response to the relative changes in resistances of the filaments.

2,322,320
YEAST PROPAGATION
Alfred S. Schultz and Lawrence Atkin, Bronx, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application March 28, 1939, Serial No. 264,584
14 Claims. (Cl. 195—82)

5. A method for the production of yeast, which comprises incorporating into a wort deficient in growth promoting factors vitamin B_6.

2,322,321
RAZOR-BLADE SHARPENING EQUIPMENT
Einar Setterlund, Clifton, N. J.
Application May 19, 1942, Serial No. 443,657
1 Claim. (Cl. 51—158)



In combination, a fixed member including a tubular portion and a head at one end of the latter and penetrated by a hole of less area than the normally planiform blade to be sharpened and of less diameter than the interior diameter of said tubular portion, said head having its outer surface abrasive, and a clamp comprising a post extending through the hole into the tubular portion and a head structure between which and the post the blade is to be clamped, said head structure having a clamping portion to immediately adjoin the blade, when clamped, elongated and of narrow width relatively to the width of the blade and coactive with the post to clamp the blade without substantial distortion thereof from its planiform state and the hole and the interior of the tubular portion being formed of such relative diameters as to permit tilting of the clamp but to coact to limit such tilting to the position in which the cutting edge of the blade will be in contact with said surface.

2,322,322
DISCHARGE PRINTING OF TEXTILES
George W. Seymour and George C. Ward, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 29, 1941, Serial No. 385,852
6 Claims. (Cl. 8—64)

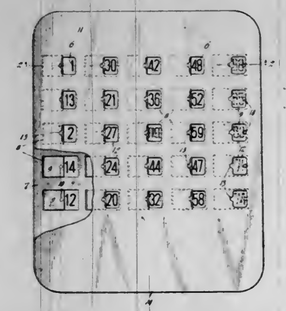
1. Process for the production of illuminated discharge effects on an azo dyed textile material, which comprises locally applying to said dyed material a reducing discharge paste comprising a vat dyestuff and a salt of an acid of phosphorus having a basic reaction, subjecting the treated material to ageing, whereby said azo dye is decomposed by means of said paste, removing the decomposition products of said discharged azo dyestuff and subjecting said material to oxidation to illuminate the portions of the material printed with the vat dye.

2,322,323
DISCHARGE PRINTING OF TEXTILES
George W. Seymour and George C. Ward, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application April 16, 1941, Serial No. 388,796
7 Claims. (Cl. 8—64)

1. Process for the production of illuminated discharge effects on an azo-dyed textile material, which comprises locally applying to said dyed material a reducing discharge paste comprising a vat dyestuff and, as the sole alkaline reacting substance, a salt of a weak acid of a member of the group consisting of boron, silicon

and sulfur which has a basic reaction in aqueous solution, subjecting the treated material to ageing, whereby said azo dye is decomposed by means of said paste, removing the decomposition products of said discharged azo dyestuff and subjecting said material to oxidation to illuminate the portions of the material printed with the vat dye.

2,322,324
GAME CARD
Erich Spitzner, Chicago, Ill.
Application August 9, 1941, Serial No. 406,079
4 Claims. (Cl. 273—135)



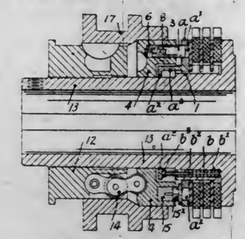
1. In a device of the character set forth, the combination of a sheet having a plurality of series of numbers printed thereon, said numbers being arranged in rows and spaced apart, a second sheet secured to the first named sheet and having openings registering with the numbers which are larger than the numbers and which provide guideways, shutters slidably mounted in the guideways and having outwardly extending thumb-pieces, a third sheet secured to the second named sheet and having windows registering with the numbers, said windows having notches in the sides thereof for said thumb-pieces, the last named sheet overlying the shutters and holding them in operative positions within their respective guideways whereby they may be moved as desired over the respective numbers.

2,322,325
DENTURE
Michael Russell Stein and Henry Karlin, New York, N. Y., assignors to Universal Dental Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 30, 1940, Serial No. 372,318
7 Claims. (Cl. 32—10)



1. In a denture of the character described, a denture plate, an artificial tooth mounted on said plate, said tooth being provided with a pin extending lingually therefrom and having a head adapted to be embedded in said plate the shank of said pin being disposed in a socket formed in said tooth whereby to provide an annular space surrounding said pin, and means closely embracing the shank of said pin and disposed externally of said socket for precluding entry into the said space surrounding the pin of any of the material of which said denture plate is formed.

2,322,326
FRICTION CLUTCH
Leonard Taylor, Rochdale, England
Application May 29, 1942, Serial No. 444,971
In Great Britain June 21, 1941
4 Claims. (Cl. 192—69)



1. In friction clutches having castellated discs brought into action by a pressure sleeve operated by circumferentially spaced toggle link elements actuated by a sliding striking sleeve, a cage-like structure comprising a steel locking plate, spaced locating holes in said plate, a smaller diameter ring spaced from said plate, spacing webs interconnecting said plate and ring, steel lugs on the inner circumference of said plate, a castellated support sleeve forming part of the clutch, said lugs adapted to spline the cage-like structure on said castellated support sleeve, spaced pockets in said support sleeve, and spiral springs located in said pockets in said support sleeve, said spiral springs adapted to exert pressure on the aforesaid smaller diameter ring of the cage-like structure, all for the purposes described.

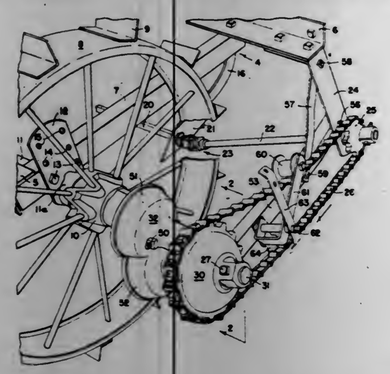
2,322,327
PRODUCTION OF FERRO-ALLOYS SUBSTANTIALLY FREE OF GANGUE MATERIALS
Leo Henry Timmins, Montreal, Quebec, Canada, assignor to Chromium Mining and Smelting Corpn., Limited, Sault Ste. Marie, Ontario, Canada, a Canadian corporation
No Drawing. Application January 9, 1942, Serial No. 426,177
15 Claims. (Cl. 75—28)

14. In the production of high-carbon ferrochromium, the improvement which comprises subjecting a molten ferrochromium furnace product comprising metal and slag to a granulation treatment with water and forming a finely divided product comprising particles of metal and particles of slag, subjecting the finely divided product to a concentration treatment to obtain separate metal and slag products, grinding the slag product, and subjecting the product of the grinding treatment to a concentration treatment to separate and recover unreduced ore or mineral contained in the slag.

2,322,328
ROD WEEDER
Miles H. Tuft, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 11, 1939, Serial No. 308,556
7 Claims. (Cl. 97—42)

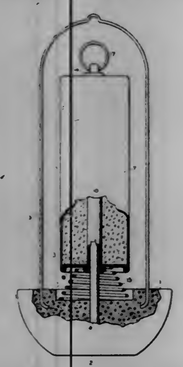
1. In a rod weeder, a generally transversely disposed frame having an axle projecting laterally from one end thereof and a traction wheel journaled on said axle, a rotary weeder rod spaced rearwardly of said axle, a laterally inclined drive shaft having one end connected with said rod and a sprocket fixed to the other end thereof, a housing mounted on the laterally outer end of said axle, a countershaft journaled

on said housing for rotation about an axis inclined to said axle, a driving gear mounted on said axle and connected with said wheel to rotate therewith, a driven gear fixed to said



countershaft in mesh with said driving gear, a driving sprocket fixed to said countershaft, and a chain trained over said sprockets in driving engagement therewith.

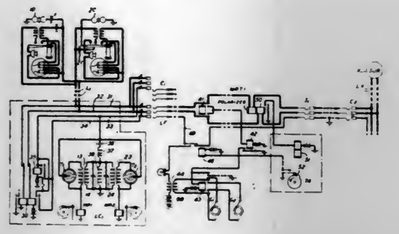
2,322,329
FLARE
Adrian G. Venn, San Francisco, Calif.
Application December 19, 1939, Serial No. 309,971
7 Claims. (Cl. 102—36)



1. A flare comprising a casing having a center tube therethrough with perforations through a wall thereof; flare material within said casing; frictionally ignitable material on said wall adjacent said perforations; a combustible band around said wall between said ignitable material and the contents of said casing; and a striker movable into frictional contact with said ignitable material.

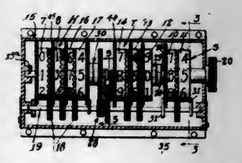
2,322,330
TELEPHONE SYSTEM
Edward Vroom, Ossining, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 28, 1940, Serial No. 358,820
10 Claims. (Cl. 179—8.5)

1. In a telephone system, a line circuit comprising a control conductor, a line cut-off relay, means connecting said relay to said conductor, two three-element gas-filled tubes, the anode element of each tube being connected to said conductor, means responsive to an impressed potential of one frequency on said conductor for breaking down one of said tubes, means responsive to an impressed potential of another frequency on said conductor for breaking down the other of said tubes, and two message registers, one register connected in the anode-cathode circuit of one of said tubes and the other register connected in the anode-cathode circuit of the other of said tubes, means for applying ground potential to



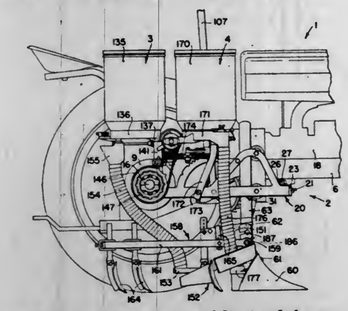
said conductor to operate said relay, and means for applying booster battery potential in place of ground potential to said conductor and for simultaneously applying to said conductor an alternating potential of the one or the other of said frequencies to selectively effect breakdown of a desired one of said tubes, said booster battery potential being effective to maintain the energization of said relay and the operated one of said tubes and to operate the associated register.

2,322,331
HANDICAP COMPUTER
Ralph Walsh, Los Angeles, Calif.
Application February 17, 1941, Serial No. 379,184
2 Claims. (Cl. 235—61)



1. In apparatus for indicating a player's handicap, the combination of a single score counter having dials for indicating the score of the player in the last game played, a total counter having dials indicating the total score of the player for a certain number of selected games including the score of the last game played on which the handicap is based, hand-operated means for actuating both said counters to add to, or subtract therefrom, the difference between the player's presently made score and the score of the said last game played, a handicap counter, and means for driving the handicap counter from the total counter at a reduced drive ratio based on the method of computing the handicap so that the handicap indicator indicates the correct handicap based on the number of selected games including the said presently made score.

2,322,332
PLANTER
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application July 8, 1940, Serial No. 344,310
12 Claims. (Cl. 97—47)



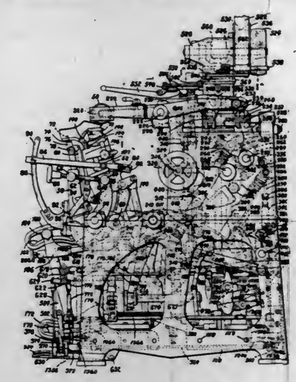
1. In a planter, a movable tool beam, frame means with respect to which said tool beam is generally vertically movable, a planter furrow opener, bracket means connected to the lower portion of said tool beam and extending rearwardly therefrom for securing said planter furrow opener thereto, a floating coverer frame movably connected with said tool beam, stop means carried by said coverer frame and cooperating with said planter furrow opener bracket for limiting the downward movement of the coverer frame relative thereto, and means on said frame means for raising said tool beam, said planter furrow opener and said coverer frame.

2,322,333
IMPROVING FASTNESS OF DYEINGS
Gustave Widmer, Basel, and Andreas Ruperti, Arlesheim, Switzerland, assignors, by mesne assignments, to Ciba Products Corporation, Dover, Del., a corporation of Delaware
No Drawing. Application June 27, 1939, Serial No. 281,492. In Switzerland July 4, 1938
3 Claims. (Cl. 8—74)

1. A process for improving the fastness of dyeings and prints by after-treatment with aldehyde condensation products which comprises subjecting the dyeings or prints to an aqueous solution containing a hydrophobic intermediate condensation product of formaldehyde and at least one substance selected from the group consisting of melamine, urea, thiourea guanidine, dicyandiamide, biuret and phenol, the concentration of said condensation product in said solution being below 5% calculated relative to the weight of the treating liquor.

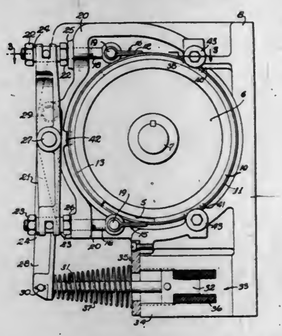
2,322,334
LEVELING MACHINE
Erastus E. Winkley, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 18, 1941, Serial No. 407,268
74 Claims. (Cl. 12—34)

1. In a leveling machine, a leveling tool, a shoe support, power-operated means for effecting relative movements of said support and tool in opposite directions lengthwise of a shoe on the support to cause said tool to operate progressively along the shoe bottom, and means for controlling said power-operated means, said means including a power-operated device automatically movable variable amounts in opposite directions in time relation to the relative movements of the support and tool in opposite direc-



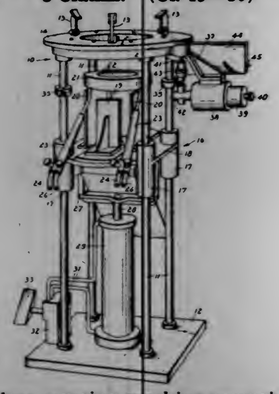
tions and arranged by the extent of its movements to determine the extent of the relative movements of the support and tool.

2,322,335
REVERSIBLE MAGNETIC BRAKE
Bertil T. Anderson, Rockford, Ill.
Application August 30, 1941, Serial No. 408,965
6 Claims. (Cl. 188—77)



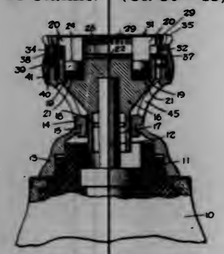
1. A friction brake having, in combination, a rotatable drum providing an external friction surface, a band wrapped around said surface through more than one revolution with its opposite end portions projecting tangentially in the same direction from opposite sides of the drum, a bar projecting transversely of the ends of said portions with its ends pivotally connected to the latter ends, a lever pivotally supporting said bar intermediate its ends for movement toward and away from said drum, stops to limit the movement of the bar ends toward said drum, spring means acting on said lever and urging said bar away from the drum whereby said bar fulcrums on one or the other of said stops to hold one band end while the other end is moved to contract said band, an electromagnet adapted when energized to overcome said spring and urge said bar toward said drum whereby to press both of said band ends tangentially, and guides acting on said band to prevent buckling of the actuated end portion of the band when said magnet is energized whereby to insure proper expansion of the band.

2,322,336
GLASS-SEVERING MACHINE
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,445
5 Claims. (Cl. 49—50)



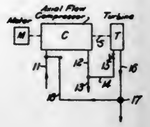
4. A glass-severing machine comprising a supporting means rotatable about a fixed vertical axis and in a fixed horizontal plane, and on which a blown glass article is held by gravity with the neck portion of said article extending downward, mechanism for rotating the supporting means, a torch holder movable up and down to bring a torch into position to cut the neck from the article on the supporting means, a fluid motor for moving the torch holder to shift the torch into and out of said position for each severing operation on successive glass articles, and an abutment in the path of one of the parts that is moved by the motor for causing the torch holder to stop in the same position for each severing operation.

2,322,337
SHAVING MACHINE
Gustave F. Bahr, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application March 7, 1940, Serial No. 322,641
11 Claims. (Cl. 30—43)



8. In a dry shaving device, a casing; a removable circular skin-contacting plate having hair-receiving apertures therein mounted on the casing; a drive shaft in the casing; a plurality of flat blades, each having a cutting surface at one end and terminating at the opposite end in a tubular shank, said shank forming shoulders on opposite faces of said blades; a coupler sleeving an end of said shaft and connected thereto for rotation therewith, said coupler having an enlarged end portion presenting a substantially circular end face having a pair of sockets formed at diametrically opposite points adjacent the periphery thereof, each socket receiving the tubular shank of a blade; a coil spring in each socket tending to urge the shank of the blade outwardly thereof; a pair of semicircular plates having cutaway portions which form diametrically opposite slots when the straight sides of the two plates are placed juxtaposed, said plates being secured to the end face of said coupler with the slots formed thereby receiving the blade members, the shoulder of each blade engaging the undersurface of the plates whereby the movement of the blades outwardly of the sockets is limited.

2,322,338
AXIAL FLOW COMPRESSOR PLANT
Adolf Baumann, Wettingen, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland, a joint-stock company
Application January 31, 1939, Serial No. 253,838
In Germany February 1, 1938
2 Claims. (Cl. 230—115)

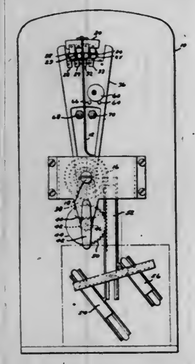


1. A compressor assembly comprising an axial flow compressor having a pressure line and a continuously open unobstructed suction line, power means driving said compressor at a substantially constant speed at which the compressor output to the pressure pipe at the required demand pressure is not less than the maximum volume demand, a delivery conduit into which said pressure line opens, and regulating means to prevent surging and to maintain a desired operating condition at said delivery line when the load demand drops below its maximum value; said regulating means comprising a conduit branching from said pressure line, and a regulating valve in said branch conduit for diverting from the delivery conduit that portion of the compressor output which at the constant operating speed exceeds the volume corresponding to the desired operating condition at the delivery line, said regulating means including also power recovery means for decreasing the load imposed on said power means in accordance with the portion of the total compressor output that passes to said branch conduit, said power recovery means comprising an expansion turbine having as its intake line the said branch conduit.

2,322,339
METERING CIRCUIT FOR X-RAY REFRIGERATING APPARATUS
Albert E. Beals, Norwich, N. Y.
Application February 26, 1938, Serial No. 192,849
8 Claims. (Cl. 62—6)

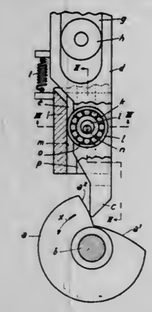
1. An instrument for controlling the operation of air conditioning equipment comprising, in combination, a thermostatic element responsive to variations in the temperature of air in an enclosure; a hygrostatic element responsive to variations of relative humidity of air in said enclosure, an adjustable element, common to both the thermostatic and hygrostatic elements and coacting synchronously with each; a ratchet, adapted to move in reverse directions and operatively connected with said adjustable element; two

contra-positioned pawls, adapted to engage the teeth of said ratchet; a reversibly acting lever, adapted to be fulcrumed at either of two points and pivotally supporting said pawls; two electro-



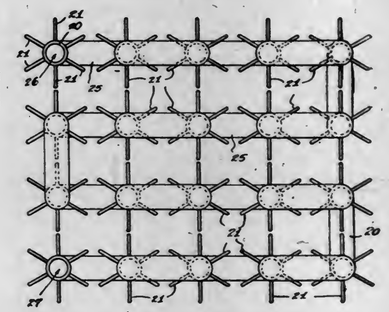
magnets, oppositely connected with said lever and adapted to move same in reverse directions; and electric conducting means for alternatively energizing the solenoid coil of either electromagnet.

2,322,340
DEVICE FOR TRANSMITTING THE MOVEMENT OF A CAM TO ANOTHER PART OF A MACHINE TOOL
André Bechler, Moutier, Switzerland
Application December 13, 1940, Serial No. 370,082
In Switzerland December 30, 1939
3 Claims. (Cl. 74—569)



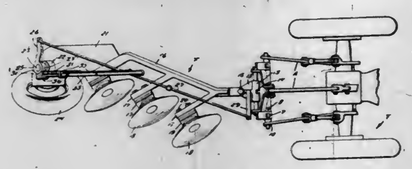
1. In a machine tool, a cam having a cam path with ascending and descending parts, a member pressed against said cam path and adapted to be longitudinally reciprocated by said cam and, on making contact with said ascending parts, to suffer a lateral load in the one, and on making contact with said descending parts, in the other direction, a guide member including a bottom and slots comprising guide surfaces opposite said bottom, adapted to guide said member longitudinally, slide blocks mounted on said member entering said slots, adapted to bear only on said guide surfaces and only when said member makes contact with said descending parts, and an antifriction bearing mounted on said member, adapted to bear only on said bottom and only when said member makes contact with said ascending parts.

2,322,341
HEAT EXCHANGE UNIT
Morris F. Booth, Alden, Mich.
Application January 27, 1940, Serial No. 315,933
4 Claims. (Cl. 257—148)



2. An evaporator unit comprising a plurality of parallel sections spaced in horizontal and vertical planes, and each section comprising an extruded tube having lengthwise extending radial fins integral with and projecting from the walls of said tube, means connecting said sections, and said sections being arranged that the fins of adjacent vertical parallel sections form substantially closed walls between said sections and permit passage of air between said walls upwardly.

2,322,342
PLOW ATTACHMENT FOR TRACTORS
Simon M. Bunn, Waco, Tex.
Application May 1, 1941, Serial No. 391,423
1 Claim. (Cl. 97—47)



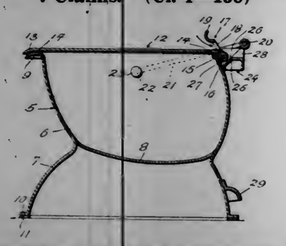
A plow for attachment to a tractor having a central rearwardly extending upper power lift arm, and a pair of similarly extending lower side power lift arms, said arms being vertically swingable, said plow comprising a beam having a straight front end for attachment to said arms, and a major plow carrying portion extending rearwardly and laterally from said end, means to adjustably attach said front end to said arms comprising an upright fork-shaped frame including a pair of opposed side bars having upper closely spaced ends straddling the rear end of the upper power lift arm and pivoted thereto, said frame having widely spaced lower ends, a cross-shaft extending between said lower ends and mounted therein, a clevis on said shaft slidable along the same into different set positions and to which said front end of the beam is pivotally connected for swinging about a vertical axis, a pair of brackets extending forwardly from the lower ends of said frame above said shaft, and a cross-bar bolted to the front ends of said brackets forwardly of said shaft and having end pintles journaled in the rear ends of the lower power lift side arms, respectively.

2,322,343
TUBING WEAR DETECTOR
Arthur H. Brandon, Los Angeles, Calif., assignor to Dia-Loy Company, Los Angeles County, Calif., a corporation of California
Application October 14, 1940, Serial No. 361,197
5 Claims. (Cl. 33—178)



2. A tubing wear detector comprising a body adapted to be moved through a tubing, a plurality of independently movable feelers pivotally mounted upon said body, means urging said feelers to expand, adjustable contacts on the feelers, and contact means engageable by the adjustable contacts when the feelers are allowed to expand, and indicating means in electrical circuit with the contact means.

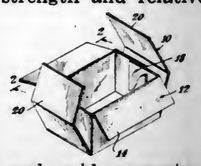
2,322,344
PORTABLE DRY CLOSET RECEPTACLE
Benjamin R. Brandon, Columbia, S. C.
Application December 10, 1942, Serial No. 468,551
7 Claims. (Cl. 4—138)



1. A portable dry closet receptacle having a bowl and a base, a cover for the bowl and pivotally connected therewith, a combined stop and handle for the cover having a hand opening, a bail pivotally connected with the bowl, and means to limit the downward movement of the bail when swung in a direction toward the pivot of the cover, the combined stop and handle being arranged to engage with the bail when the cover is raised and the bail supported by said means.
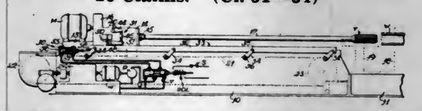
2,322,345
FIREPROOF SHIPPING CONTAINER
James Cage, Valley Stream, N. Y., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Original application April 24, 1937, Serial No. 138,703, now Patent No. 2,189,055, dated February 6, 1940. Divided and this application February 3, 1940, Serial No. 317,043
2 Claims. (Cl. 206—46)

1. In combination a foil-lined shipping container for books of matches, a plurality of books of matches therein in two or more layers, and a fire resistant separator between said layers of books of matches, said shipping container being lined continuously with metal foil of relatively high tensile strength and relatively high heat



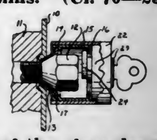
conductivity, and said separator being comprised of paper faced with metal foil on both sides whereby when any specific localized area of the envelope is subjected to heat, the metal foil lining is adapted to rapidly conduct heat away from said specific area.

2,322,346
HONING MACHINE
Harry J. Caldwell, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois
Application April 3, 1941, Serial No. 386,614
16 Claims. (Cl. 51—34)



7. The combination in a honing machine having a frame supporting a reciprocatory expansible honing tool, of means supported on the frame providing a control surface parallel to the reciprocatory path of the tool, means providing an operative connection between said control surface and the tool including a traveler reciprocable with the tool and adapted to coact with said control surface in said reciprocation, and power actuated means stationarily mounted on the frame for shifting said control surface in a direction toward or from said path while maintaining said parallel relationship between the control surface and the path, said control surface acting through said traveler to control the expansion of the tool in accordance with the position of the surface.

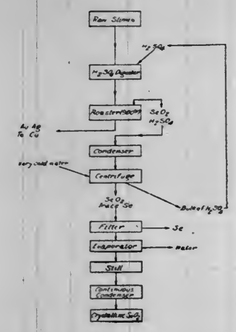
2,322,347
NUT LOCK
Russell C. Churchman, Des Moines, Iowa
Application March 9, 1942, Serial No. 433,855
3 Claims. (Cl. 70—232)



1. In a device of the class described, a conical adapter capable of being securely held by a tapered nut or the like, a flange on said adapter, two interlocking semi-cylindrical shell members having an inwardly extending grooved portion adjacent one of their ends for receiving said flange on said adapter when said two shells are interlocked, a flange formed at the other end of said shells, a cylindrical housing capable of enclosing such shell members and holding them in position relative to the adapter flange, and a key

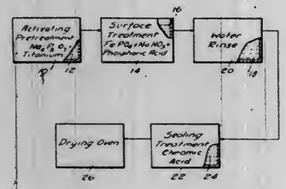
rotatable cam member capable of locking over the shell flange and holding said housing in position on said shell members and permitting the rotation thereof.

2,322,348
PROCESS FOR RECOVERING SELENIUM AS SELENIUM DIOXIDE FROM COPPER REFINERY SLIMES
Charles W. Clark, Montreal, Quebec, Canada, assignor to Canadian Copper Refiners Limited, Montreal East, Quebec, Canada, a corporation
Application March 26, 1941, Serial No. 385,290
4 Claims. (Cl. 23—139)



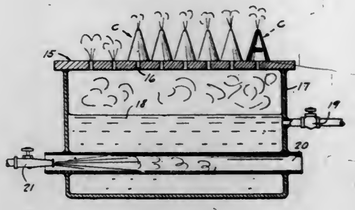
1. A process for treating slimes from the electrolytic refining of copper to recover selenium as selenium dioxide which comprises digesting the slimes with sulphuric acid at about 400° F. without distillation of the selenium to convert substantially the whole selenium content into selenious acid, then roasting the digested slimes to drive off the selenium as volatile selenium dioxide substantially without any free selenium and condensing the vapours from the roasting operation.

2,322,349
CORROSION RESISTANT COATING FOR METAL SURFACES
George W. Jernstedt, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 25, 1941, Serial No. 416,552. Divided and this application November 11, 1942, Serial No. 465,259
6 Claims. (Cl. 148—6)



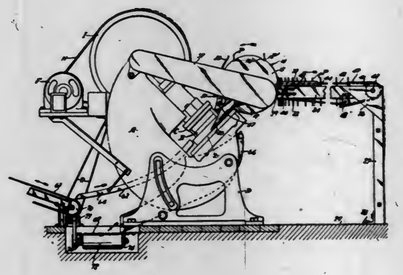
4. An aqueous solution for activating ferrous and zinc metal surfaces to accelerate the formation of corrosion resisting coatings thereon comprising sodium pyrophosphate and at least one titanium compound.

2,322,350
PROCESS FOR RECONDITIONING YARN CONES
Alvin G. Dewees, Philadelphia, Pa.
Application October 1, 1940, Serial No. 359,238
5 Claims. (Cl. 15—269)



1. A method of reconditioning hollow yarn cones which consists in restricting communication of the atmosphere with the interior of said cones, introducing vapor into and partially confining it within said cones to weaken the retention of undesirable features carried by said cones, and then removing said undesirable features by manipulation.

2,322,351
TRIMMING MECHANISM FOR GRID PLATES
Carl L. Feldtkeller, Milwaukee, Wis.
Application April 28, 1941, Serial No. 390,709
4 Claims. (Cl. 164—20)

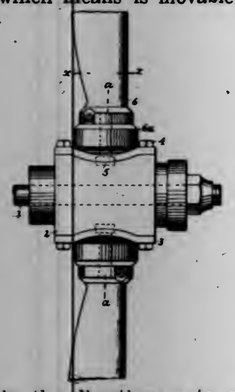


1. In a grid plate trimming machine, a die and cooperating punch, the face of the die being disposed in an inclined plane, means for feeding grid plates to the die, said means engaging the upper corners of each plate, so that the plate will be suspended in vertical position, and then moving the plate downwardly upon an upper end part of the die face whereby said die face will tilt and guide the plate into face contact with itself.

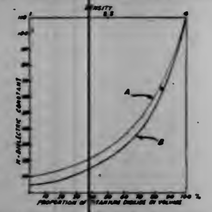
2,322,352
AIRPLANE BLADE PITCH-CONTROL
Harold A. Frazier, Paterson, N. J.
Application July 10, 1941, Serial No. 401,715
7 Claims. (Cl. 170—162)

1. An airplane propeller comprising in combination, with a rotary unitary structure including a hub, a blade extending from and pivoted to and free to turn in the hub in either direction around an axis crossing the axis of rotation of said structure, said structure and blade respectively having, wholly within themselves, means directly coactive with each other to oppose re-rotation of such blade when

turned in the direction to increase its pitch and one of which means is movable and normally urged in the direction so to coact with the other.

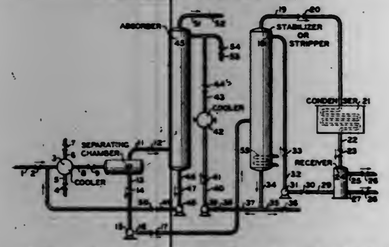


2,322,353
DIELECTRIC MATERIAL
Hal F. Fruth, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 4, 1939, Serial No. 302,835
5 Claims. (Cl. 106—171)



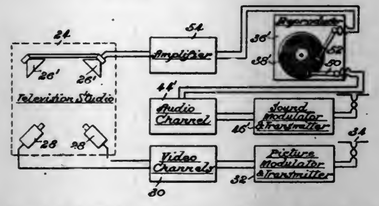
1. A dielectric material for use in electrical apparatus such as electric condensers comprising a mixture of titanium dioxide particles, cellulose acetate, and a wax-like material selected from the group consisting of hydrogenated castor oil and chlorinated naphthalene, said mixture having a dielectric constant greater than fifty in the solid state and a positive temperature coefficient of dielectric constant.

2,322,354
SEPARATION OF SELECTED COMPONENTS FROM HYDROCARBON MIXTURES
Clarence G. Gerhold and Bernard J. Flock, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 23, 1939, Serial No. 274,870
5 Claims. (Cl. 196—8)



1. The process of separating a relatively light gaseous fraction rich in hydrogen and a relatively heavy normally gaseous fraction rich in readily polymerizable olefins from a stream of such materials, which comprises mixing said stream with a stream of hydrocarbon oil, thereafter passing the admixed streams through a cooling zone under temperature and pressure conditions regulated to form a liquid medium containing a major portion of said readily polymerizable olefinic components of the mixture and a gaseous medium containing substantially all of said hydrogen, separating said liquid and gaseous media, intimately contacting the latter with absorber oil substantially free of dissolved gases under temperature and pressure conditions regulated to absorb from the gases substantially all of their readily polymerizable olefinic components, removing the remaining unabsorbed gases as said fraction rich in hydrogen from the absorption step, commingling the resulting enriched absorber oil with the stream of gases as said hydrocarbon oil, fractionally distilling said liquid medium to vaporize substantially all of its normally gaseous components and separate the latter from substantially all normally liquid components of said liquid medium, recovering normally gaseous components thus liberated as said fraction rich in polymerizable olefins and supplying said normally liquid components to the absorption step as absorber oil.

2,322,355
TELEVISION TRANSMITTER
Alfred N. Goldsmith, New York, N. Y.
Application August 29, 1941, Serial No. 408,761
7 Claims. (Cl. 178—5.6)

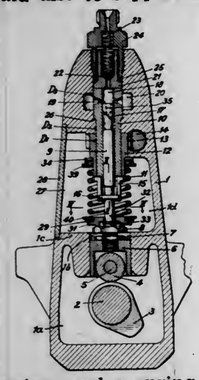


1. In a television system, the method which comprises recording the audible portion of a sight-sound program, converting the recording into electrical energy representative of the recorded sound at a time subsequent to the recording, scanning a scene of action to produce electrical energy signals representative of the sight portion of the program, converting a first portion of the electrical energy produced to represent the sound into audible energy at the scene of action, controlling the energization of a transmission channel by a second portion of the electrical energy produced from the sound recording, and simultaneously controlling the energization of a transmission channel by the electrical energy representative of the sight portion of the program to provide concomitant related sight and sound transmission.

2,322,356
INJECTION PUMP
Erwin Hahn, Arbon, Switzerland, assignor to Aktiengesellschaft Adolph Saurer, Arbon, Switzerland
Application May 6, 1941, Serial No. 392,142
In Germany May 7, 1940
2 Claims. (Cl. 103—41)

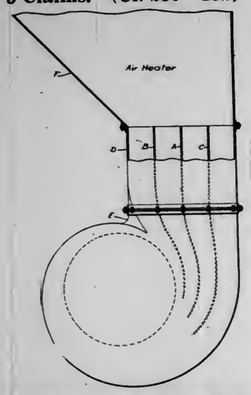
1. An injection pump comprising a single piece casing formed with a bore, a pump cylinder re-

movably inserted in said bore, a pump plunger reciprocable in said cylinder, said casing being provided with a chamber having a lateral opening, a plunger retracting spring disposed in said chamber and detachably connected with said plunger, said spring connection including an abutment shoulder on the plunger, a radially slotted disc loosely engaged on the plunger and resting on said shoulder, an annular spring cup carried by said disc to support one end of said



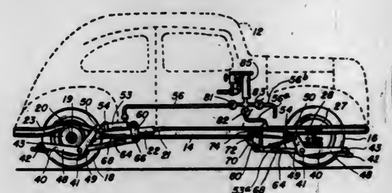
retracting spring, and a spring cup supporting the other end of the retracting spring, said two spring cups having annular rim portions whereby an auxiliary sleeve member may be inserted through said lateral opening to engage the rim portions of said spring cups and relieve the plunger from spring pressure to permit removal of said slotted disc engaged on the plunger and withdrawal of said plunger and pump cylinder from said bore in the pump casing.

2,322,357
CENTRIFUGAL FAN
Harold F. Hagen, Wellesley, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application February 4, 1942, Serial No. 429,523
5 Claims. (Cl. 230—132)



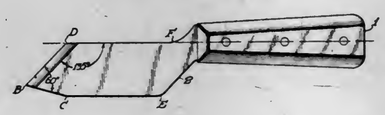
1. In a centrifugal fan having a scroll housing and having a duct connected to the outlet thereof for connecting said fan to a load, the combination of a plurality of spaced transition vanes extending from points within said housing and through said outlet into said duct, said vanes having curved portions within said housing and having straight portions within said duct, said vanes converging towards each other within said housing.

2,322,358
LIFTING MECHANISM
Lee R. Hansen, Anatone, Wash., assignor of one-fourth to George A. Tuttle, Richland, Wash., and one-fourth to Charles Ward, Anatone, Wash.
Application October 21, 1941, Serial No. 415,895
1 Claim. (Cl. 254—86)



A lifting mechanism for vehicles comprising a bell crank pivotally mounted on the underside of said vehicle for oscillating movement, a ground engaging shoe on an arm of said bell crank, said bell crank being adapted upon oscillation to bring said shoe into contact with a ground surface, a fluid pressure cylinder between the end of the other arm of said bell crank and said vehicle adapted upon expanding motion to actuate said bell crank in its oscillating movement, means for supplying compressed fluid to said cylinder, a brace between the pivot of the bell crank and a portion of said vehicle, and spring means between the bell crank and said brace biased to maintain the shoe and bell crank in its raised position when no pressure is supplied to the said cylinder.

2,322,359
PUTTY REMOVING KNIFE
Herman Hirschhorn, New Rochelle, N. Y.
Application September 12, 1942, Serial No. 458,151
1 Claim. (Cl. 30—165)

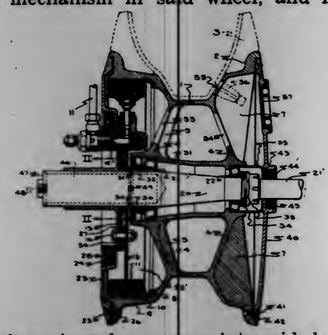


A putty removing knife comprising an elongated blade and handle in which said blade has one longitudinal edge in line with the center of the handle and a second longitudinal edge parallel to said first longitudinal edge and a sharp terminal edge making an obtuse angle with said first edge and ending in a 60 degree point.

2,322,360
PRESSURE SEALED WHEEL
Charles Hollerith, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application May 16, 1940, Serial No. 335,443
11 Claims. (Cl. 301—6)

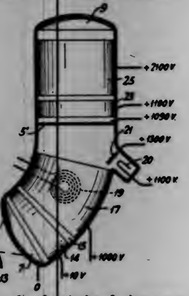
1. In combination with a wheel and supporting structure therefor for use in water, said wheel having a body and a hub, said supporting structure being associated with said hub and supporting said wheel for rotation, brake mechanism associated with said wheel, covering means in sealing relation with said body and supporting struc-

ure, for providing an enclosed chamber housing said mechanism in said wheel, and means to



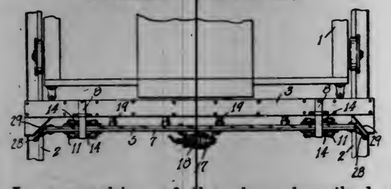
introduce air under pressure into said chamber to prevent the entrance of water thereinto.

2,322,361
ELECTRONIC DEVICE
Harley A. Iams, Berkeley Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 14, 1937, Serial No. 179,678
8 Claims. (Cl. 250—41.5)



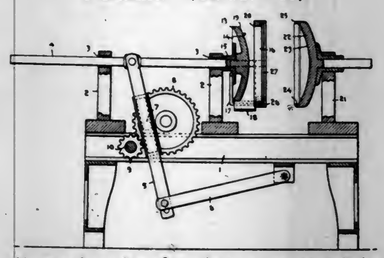
5. The method of electrical image transmission which comprises projecting a bi-dimensional optical picture image on to an apertured and discontinuous light sensitive member to simultaneously form a contemporary bi-dimensional charge image thereon corresponding in elemental charge values and distribution to elemental light values and distribution of the optical picture image projected thereon, and controlling an instantaneous electron flow of picture image area by said charge image.

2,322,362
CONCRETE PLACEMENT MACHINE
Corwill Jackson, Ludington, Mich.
Application July 21, 1941, Serial No. 403,313
9 Claims. (Cl. 94—45)



1. In a machine of the class described, the combination of a laterally reciprocatory screed, a plank-like vibratory member of wood disposed vertically edgewise in front of said screed and in spaced relation thereto and adapted to support a substantial mass of material treated as the vibratory member is advanced, means for supporting said member on the screed for advancement and reciprocation therewith, comprising hangers carried by said screed depending on opposite sides of said vibratory member, spaced support brackets mounted on the sides of said vibratory member and provided with studs, tubular resilient supports clamped upon said studs, said hanger members being provided with clamps engaging said supports intermediate the ends thereof and in spaced relation to their said brackets, and means for vibrating said vibratory member at high frequency comprising an unbalanced rotor mounted on said vibratory member.

2,322,363
APPARATUS FOR MAKING BASKET COVERS
Oliver Matthew James, Americus, Ga., assignor to Dayton Veneer & Lumber Mills, Dayton, Tenn., a corporation of Tennessee
Application December 5, 1939, Serial No. 307,552
6 Claims. (Cl. 147—48)

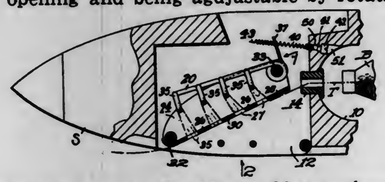


1. Apparatus for forming a crowned basket cover including as cooperative assembled parts a circular cover mat of flexible material such as wood veneer and a rim element having an annular recess to receive the edge of the mat, said apparatus including means for removably holding said rim element, ring means complemental to said holding means, a plunger, and means for imparting guided axial movement of said ring means and plunger relatively to each other and to said holding means, said plunger and ring means being capable of receiving between them a cover mat blank, and being provided with complemental shearing means and operable upon relative movement to shear said blank to circular form to produce the cover mat, said plunger provided with means for bulging said blank and the cover mat produced therefrom, and serving to force the bulged mat, after shearing, axially through said ring means and into position for engagement of its peripheral edge with the annular recess of said rim element.

2,322,364
THREAD TENSION DEVICE FOR LOOM SHUTTLES
John Edward Johnson, Millbury, Mass., assignor to Watson-Williams Manufacturing Company, Millbury, Mass., a corporation of Massachusetts
Application March 12, 1942, Serial No. 434,415
2 Claims. (Cl. 139—214)

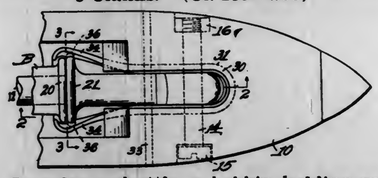
1. A thread tension device in a loom shuttle comprising fixed and pivoted guide and tension members, said pivoted member having an arm with an opening therein, and a light loosely coiled spring rotatably mounted in said shuttle,

said spring being threaded in said arm through said opening and being agdjustable by rotation



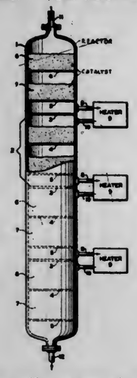
to vary the tension of said movable member on the thread.

2,322,365
LOOM SHUTTLE
John Edward Johnson, Millbury, Mass., assignor to Watson-Williams Manufacturing Company, Millbury, Mass., a corporation of Massachusetts
Application November 2, 1942, Serial No. 464,199
5 Claims. (Cl. 139—208)



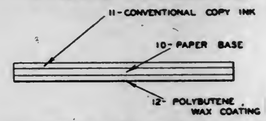
1. In a loom shuttle, a bobbin-holding spindle having a flange engaged by the butt of the bobbin, means to pivot said spindle in said shuttle, and a substantially U-shaped spring secured in said shuttle and having the inner surfaces of its free end portions directly engaging said spindle flange and thereby retaining said spindle in operative running position.

2,322,366
HYDROCARBON CONVERSION PROCESS
Louis S. Kassel, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 29, 1939, Serial No. 306,639
2 Claims. (Cl. 196—49)



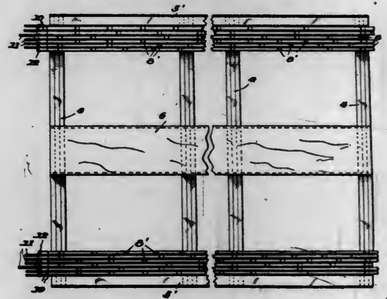
1. A hydrocarbon oil conversion process which comprises passing the oil through a first conversion sequence and therein subjecting the same to catalytic dehydrogenation and then to catalytic cracking, then heating the hydrocarbons to dehydrogenating temperature and introducing the same to a second conversion sequence, and subjecting the hydrocarbons in the second sequence to catalytic dehydrogenation and to catalytic cracking in the order named.

2,322,367
CARBON PAPER
Arthur G. Kjellstrand, Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application June 3, 1941, Serial No. 396,441
3 Claims. (Cl. 282—28)



3. A non-curling slip-resistant carbon paper coated on one side with a conventional copying carbon composition, and on the reverse side with a waxy composition having a coefficient of expansion similar to the conventional copying carbon composition, and containing from 5 to 20% of rubbery polybutene, and aluminum powder.

2,322,368
MULTITEMPLATE WALL ASSEMBLY BENCH
Terry S. Lacey, Atlanta, Ga.
Application September 2, 1942, Serial No. 457,067
3 Claims. (Cl. 144—288)

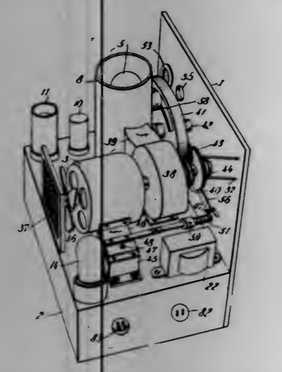


1. Apparatus for assembling pre-fabricated walls comprising a bench having a pair of fixed, spaced parallel rails for supporting transversely disposed frame members to be assembled, one of said rails being disposed at each side wall of said bench, a similar group of assorted templates mounted in parallel side-by-side relation adjacent each rail at the inner side thereof, each template having gauging means at its upper side for laterally positioning said frame members, the gauging means of each template in a group being different, fixed supporting means on which all of said templates normally rest with their gauging means at the same height and no higher than the upper surface of said rails, whereby such gauging means are inoperative, and means for selectively raising vertically and bodily any desired template in each group so as to bring its gauging means above the plane of the upper surface of said rails and thus render said gauging means operative to position as required the frame members supported by said rails.

2,322,369
TALKING MOTION PICTURE PROJECTOR
Samuel K. Lackoff, New York, and Harry Gordon, Brooklyn, N. Y., assignors to Russell Goldman, New York. N. Y.
Application February 19, 1941, Serial No. 379,810
6 Claims. (Cl. 88—16.2)

1. In a motion picture projector of the film

type, the combination of a sprocket for driving the film, a flywheel, an axle upon which the flywheel is mounted, speed reduction gearing for driving said sprocket from the axle of the flywheel, mechanism operated from said flywheel axle to drive said film with an intermittent motion, a driving motor, a friction wheel attached to the shaft of said motor, said motor being pivotally mounted so that said friction wheel may



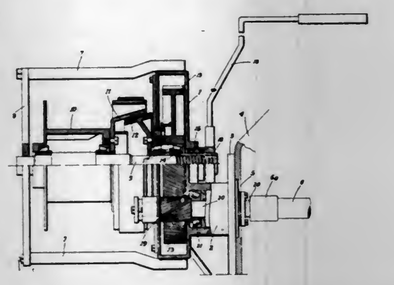
be moved into and out of contact with said flywheel, a projection lamp, fan blades attached to the motor shaft, a duct for conducting to said lamp air propelled by said fan blades, and manually operable means for moving the motor about the axis of its pivotal mounting whereby said friction wheel may be moved out of contact with the flywheel to stop the motion of the film without stopping the operation of the fan blades.

2,322,370
LIFT COMPENSATOR FOR FIREARMS
Robert C. Lance, Montpelier, Vt.
Application August 11, 1939, Serial No. 289,645
1 Claim. (Cl. 89—14)



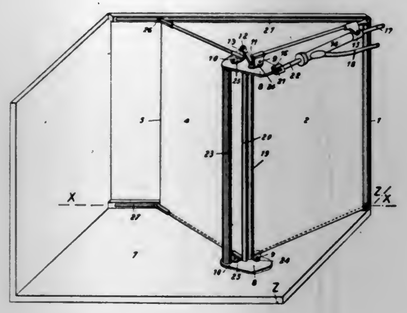
An attachment for the muzzle of a firearm to prevent climb, comprising means forming a chamber extending beyond the muzzle for receiving the gases of explosion, a wall of said chamber being of uniform inside diameter greater than the bore of the firearm, said wall having an outside taper away from the muzzle, said chamber wall having apertures of uniform diameter extending therethrough and forwardly inclined at the same angle with respect to a horizontal plane passing through the chamber axis, said chamber wall below said plane being solid, said apertures forming unobstructed passages normal to said plane and varying from a minimum at the muzzle to a maximum at the discharge end of said chamber, to obtain by reason of varying degree of resistance to the flow of gas offered by said apertures a downward compensating effect progressively increasing in a direction away from the muzzle.

2,322,371
POWER CONTROL UNIT
Robert G. Letourneau, Peoria, Ill., assignor to R. G. Letourneau, Inc., a corporation of California
Application August 16, 1941, Serial No. 407,213
8 Claims. (Cl. 192—32)



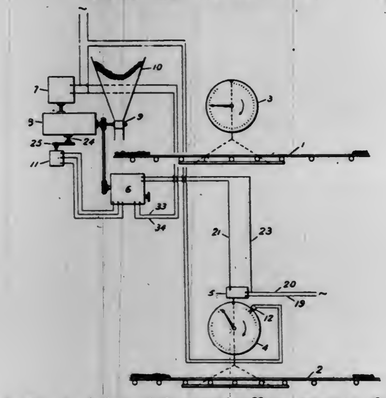
1. In a power unit which includes a fixed shaft, a cable drum turnable on the shaft but held against axial movement thereon, a clutch element fixed with the drum, a cooperating clutch element mounted concentric with and movable axially of the shaft, hand means to control the movement of the cooperating element along the shaft, and separate drive means for said cooperating element functioning to also exert a pressure thereon in an axial direction toward the first named clutch element.

2,322,372
CONTROL DEVICE FOR FOLDING DOORS
René Lucien Lévy, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Fribourg, Switzerland
Application March 31, 1942, Serial No. 437,099
In France November 29, 1940
3 Claims. (Cl. 268—68)



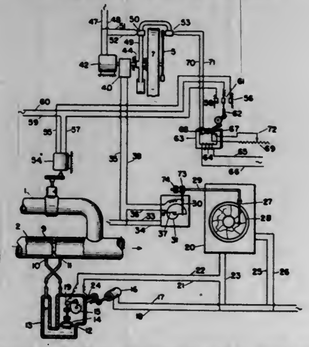
1. In a folding door of the type having a pair of panels with one edge portion of one panel hinged at the doorway and the opposite edge portion of the other panel guided in a vertical plane, connecting elements secured to the other edge portions of the panels, a link pivotally connected to each of said elements, a plate pivotally connected to said elements, and means for operating said plate to cause either lengthening the panels into the same plane or folding them into parallel planes.

2,322,373
TELEMETRIC CONTROL APPARATUS
Rudy P. Lowe, Cranston, R. I., assignor to Builders Iron Foundry, Providence, R. I., a corporation of Rhode Island
Original application January 15, 1938, Serial No. 185,181. Divided and this application December 6, 1939, Serial No. 307,764
3 Claims. (Cl. 221—118)



1. In a telemetric controller, means for delivering material at a variable rate, a member movable at a speed corresponding to said rate of delivery, means for transmitting cyclical signals of a duration corresponding to a quantity, means responsive to said signals, a member movable by said signal responsive means in a direction opposite to that of the first mentioned member through an extent in each cycle commensurate with the duration of the signal, contact means operable in each cycle through an extent and in a direction corresponding to the difference between the movement of the first mentioned member and the second mentioned member, and means controlled by said contact means for varying said rate of delivery.

2,322,374
CONTROL APPARATUS
Rudy P. Lowe, East Providence, R. I., assignor to Builders Iron Foundry, Providence, R. I., a corporation of Rhode Island
Original application August 13, 1938, Serial No. 224,828. Divided and this application February 25, 1941, Serial No. 380,473
2 Claims. (Cl. 137—165)



1. Apparatus for proportioning one substance to another, said apparatus comprising a source of supply of one of said substances, means providing for continuous delivery of said substance from said source, means responsive to loss of weight of said source, means responsive to rate of delivery of the other of said substances, and means controlled jointly by the two last mentioned means for regulating the rate of delivery of the first substance in predetermined proportion to that of said other.

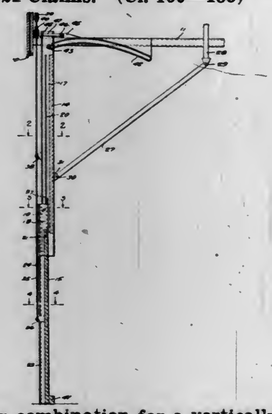
2,322,375
PROCESS FOR PREPARING THERAPEUTICALLY ACTIVE SUBSTANCES
Randolph T. Major, Plainfield, and Howard T. Bonnett, Rahway, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application January 30, 1940, Serial No. 316,404
10 Claims. (Cl. 260—482)

8. The process comprising reacting a substance selected from the group consisting of a choline halide and an alkyl substituted-choline halide with phosgene in chloroform, thereafter reacting with ammonia in chloroform, and recovering the corresponding carbaminoyl choline halide.

2,322,376
LUBRICATING OIL
Rush F. McCleary and Stiles M. Roberts, Beacon, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application May 13, 1941, Serial No. 393,244
22 Claims. (Cl. 252—48)

1. An improved lubricating oil comprising a mineral lubricating oil having incorporated therein a small proportion of an aromatic methylene thioether containing at least one substituent linked to an aromatic nucleus selected from the group consisting of hydroxyl and sulfhydryl radicals and metal salts thereof.

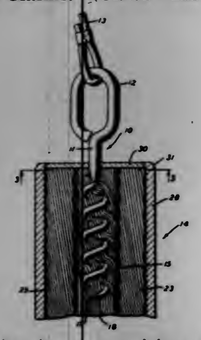
2,322,377
DOOR
Leslie McHarg, Huntington, N. Y.
Application July 17, 1941, Serial No. 402,739
21 Claims. (Cl. 160—185)



1. A door combination for a vertically opening door comprising a door, bracing means pivoted at a fixed point spaced from the plane of the door and in the neighborhood of the level of the top of the door and pivoted to the door at the center portion thereof, the bracing means being rigid

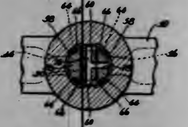
between its pivot points throughout the movement of the door, means to open and close the door vertically and attached thereto in the horizontal center portion of the door and above the point of attachment of the bracing means to the door, and means to guide the upper edge of the door in a generally horizontal direction.

2,322,378
CABLE STRUCTURE
De Witt D. Merrick, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 3, 1941, Serial No. 413,417
6 Claims. (Cl. 24—123)



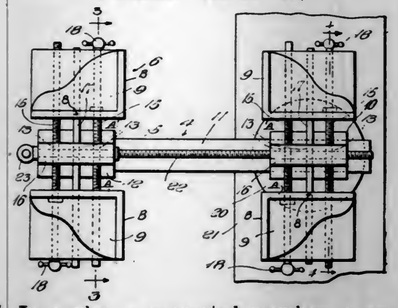
5. A cable structure comprising a unit formed of a plurality of twisted strands, a sheath disposed on the unit, and a pulling element including a helical portion having a plurality of turns positioned in the sheathed unit with the turns extending around varied groups of the strands to form a connection between the unit and the element, the positioning of the helical portion in the sheathed unit effecting uniform lateral holding pressure therebetween.

2,322,379
LUBRICATED PLUG VALVE
French H. Morehead, Riverside, Conn., assignor to Walworth Patents Inc., Boston, Mass., a corporation of Massachusetts
Application February 28, 1942, Serial No. 432,819
4 Claims. (Cl. 251—93)



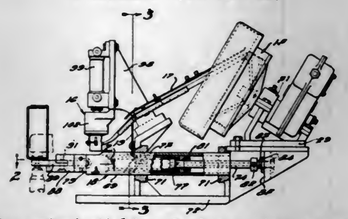
1. In a lubricated plug valve, a body member having passageways for line fluid, a valve member rotatable in said body and having a port adapted to be moved into and out of registry with said passageways in different positions of said valve member establishing the full open and full closed positions of said valve, lubricant distributing recesses in one of said members extending adjacent said body passageways, land portions intermediate said passageways and separating said recesses, and lubricant ducts in the other said member adapted to communicate with certain of said recesses and with said lands in the full closed position and alternately with other of said recesses and said lands upon rotation of the valve member to the full open position so that the lubricant is distributed adjacent selected body passageways in said different positions of said valve.

2,322,380
VISE
Walter O. Mosley, Jr., North Zulch, Tex.
Application September 11, 1940, Serial No. 356,399
4 Claims. (Cl. 81—33)



1. In a vise, a supported member, a second member slidably connected to the first member, pairs of jaws adjustably connected to said members whereby the jaws of each pair of jaws may be adjusted toward and from each other, means for independently adjusting each jaw whereby the jaws of each pair of jaws may be moved toward and from the other, and means for adjusting the members toward and from each other.

2,322,381
RIVET STICKER
Otto Mueller, Dearborn, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application June 22, 1939, Serial No. 280,670
3 Claims. (Cl. 78—48)



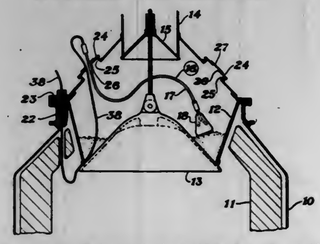
1. In a rivet sticking device, a rivet supporting head, means for delivering rivets seriatim to said head, a sleeve below said head, a plunger in said sleeve, a cylinder for advancing said plunger from said sleeve, means interconnecting the sleeve and plunger to cause the same to rotate through 180 degrees when moved relative to each other, a pair of spring-pressed jaws on the ends of said plunger aligned with said head, means in said head for advancing a rivet to said jaws and for thereafter releasing said rivet from said head and forcing the rivet between said jaws, and means for thereafter returning said supporting head to its initial position.

2,322,382
ELASTIC BINDING TAPE
John V. Moore, Pawtucket, R. I., assignor to Moore Fabric Company, Pawtucket, R. I., a corporation of Rhode Island
Application April 13, 1942, Serial No. 438,817
3 Claims. (Cl. 139—384)



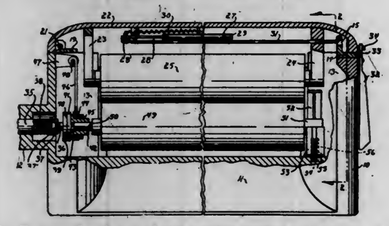
1. An elastic binding tape comprising a relatively thick longitudinal body portion and a relatively thin longitudinal sewing selvage, said body portion and said sewing selvage each comprising elastic and non-elastic warp threads and non-elastic weft threads, and the elastic warp threads being of less diameter in said sewing selvage but of substantially the same elastic strength per thread as in the body portion, and said tape being of substantially equal elastic strength per unit of width in all transverse portions thereof.

2,322,383
STOCK LINE RECORDING MEANS
Paul R. Nichols, Chicago, Ill.
Application September 28, 1940, Serial No. 358,823
3 Claims. (Cl. 33—126.5)



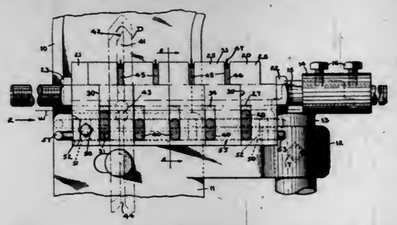
1. Means for determining the level of the burden in a blast furnace including a test rod, said test rod including a weight member at its bottom and a test rod cable connected to said weight member, means for hoisting said test rod or lowering it onto the burden, said test rod cable being flexible but sufficiently rigid to support its own weight as a column, said weight member and said caable being connected together to act as a column when not in hoisted condition.

2,322,384
EMERGENCY DRIVE RELEASE FOR WRINGERS OR THE LIKE
Robert D. O'Callaghan, Des Moines, Iowa
Application February 3, 1940, Serial No. 317,134
4 Claims. (Cl. 68—253)



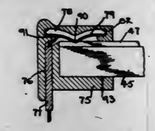
1. In a device of the class described, a lower frame portion, a cover element hingedly secured to said lower frame portion, a roller rotatably mounted in said cover portion, a lower roller operatively mounted in said lower frame portion, a carrier member vertically slidably mounted in said lower frame and capable of rotatably supporting one end of said lower roller, a means for yieldingly holding said carrier in an upward direction, a drive shaft, a clutch plate secured to said drive shaft inside said lower frame portion, a second clutch plate secured to said lower roller against independent rotation relative thereto, a bearing for rotatably supporting said second mentioned clutch plate, an arm having one end secured to said bearing and its other end pivotally secured to said lower frame portions; said second mentioned clutch plate being capable of disengaging from said first mentioned clutch plate when said carrier is forced upwardly by said yielding means and pivoting said arm, and a catch means for operatively holding said upper frame and said upper roller in a lowered position with said upper roller in operative engagement with said lower roller whereby said lower roller is held in a lowered operative position.

2,322,385
SEPARATOR BAR FOR WARP STOP MOTION
Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Original application December 26, 1941, Serial No. 424,492. Divided and this application May 21, 1942, Serial No. 443,886
5 Claims. (Cl. 139—369)



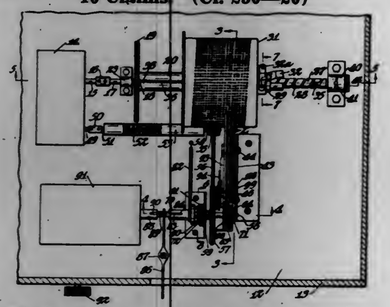
1. In a warp stop mechanism provided with a plurality of banks of drop wires, a group of separator bars extending parallel to the banks, support means to support certain of the bars of the group with their upper warp supporting edges in fixed position, and the other bars having their ends formed for supporting relation with the support means and so shaped that when said other bars are in one position the top edges thereof are below the top edges of said certain bars and when said other bars are inverted their top edges are in substantial horizontal alignment with the tops of said certain bars.

2,322,386
ELECTRIC WARP STOP CONTACT MEANS
Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Original application December 26, 1941, Serial No. 424,492. Divided and this application May 21, 1942, Serial No. 443,887
6 Claims. (Cl. 139—353)



1. A contact member for an electrical warp stop bar from the upper edge of which projects an insulated elongated electrode, said member comprising a body of soft resilient electric insulating material having a recess to receive the end of the bar and electrode, a metallic contact element mounted in and supported by the member in position for engagement with the electrode, and a lead in conductor electrically connected to the element and extending from the latter through the member to a point outside the latter.

2,322,387
AUTOMATIC TUNING MECHANISM FOR RADIO RECEIVERS
Earl H. Pitney, Willmar, Minn.
Application November 8, 1940, Serial No. 364,825
10 Claims. (Cl. 250—20)



1. In combination with a tuning element of a radio receiver, a rotary shaft adapted to move said tuning element, a rotary power element, means for releasably securing said tuning shaft against rotation and a yieldable drive connection between said rotary power means and said tuning shaft including a driving pulley connected to said rotary power means and a driven pulley connected to said tuning shaft, a flexible belt running over said pulleys and one of said pulleys having a smooth belt receiving groove with a lesser coefficient of friction than the other of said pulleys to permit slippage of said belt upon the exertion of a pre-determined maximum power from said rotary power means.

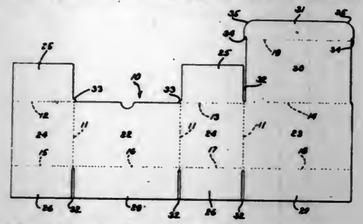
2,322,388
BATTERY TERMINAL
Carl Barnes Powledge, Norfolk, Va.
Application December 14, 1942, Serial No. 468,965
1 Claim. (Cl. 173—259)



A battery terminal comprising a coupling of resilient insulation material including a shank and an eyelet-like head on said shank defining a circular aperture, and a stranded conductor extending through said shank and terminating in a closed loop embedded in said head concentrically of said aperture and having an inside diameter corresponding to the diameter of said aperture, said loop being formed of overlapping strands having abutting ends.

2,322,389
CARTON
Stanley Price, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 11, 1940, Serial No. 313,350
3 Claims. (Cl. 229—39)

1. In a container, a foldable closing flap having a lug-like projection extending from the juncture of an edge and the fold line of the flap, and a cover having a foldable tuck flap, said tuck flap having a lug-like projection extending from the end of the tuck flap adjacent said first-named lug-like projection, said lug-like projection on said tuck flap having an edge extending perpendicular from an edge of and spaced from the fold line of the tuck flap for interlocking engagement under said lug-like projection on said closing flap in the closing of the container, an



edge of said tuck flap presenting a camming surface from the outer edge of said lug-like projection to the free longitudinal edge of said tuck flap.

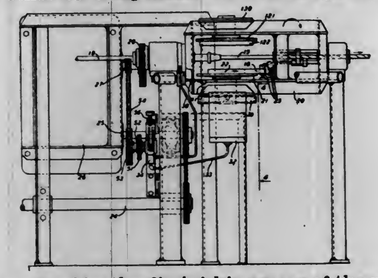
2,322,390
STEAM GENERATOR
Gustav A. Rehm, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application June 18, 1941, Serial No. 398,651
2 Claims. (Cl. 122—347)



1. A steam generator comprising a setting having two side walls, a front wall, and a rear wall, a steam-and-water drum located in the upper portion of the setting and extending substantially the entire length thereof, two water drums located in the lower portion of the setting and extending substantially the entire length thereof, the water drums being spaced inwardly from the side walls, water tubes extending upwardly from the rear portions of the water drums to the upper drum to form a convection tube bank, and water wall tubes extending upwardly from the front portions of the water drums and along the side walls, the water wall tubes crossing beneath the upper drum and entering the same from opposite sides above the normal water line.
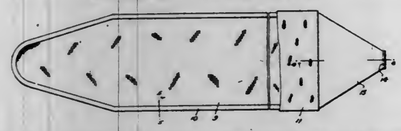
2,322,391
BALANCING MEANS
Ellwood W. Reynolds, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 3, 1941, Serial No. 413,457
10 Claims. (Cl. 57—3)

1. In an apparatus having a rotatable frame and a member thereon of diminishing mass and carried by the frame in a circular orbit about the axis of rotation of the frame, the combination with the said rotatable frame of a container rigidly mounted on the frame to rotate therewith, a second stationary container not on the frame, a pump to transfer liquid from one container to the other to compensate for centrifugal unbal-



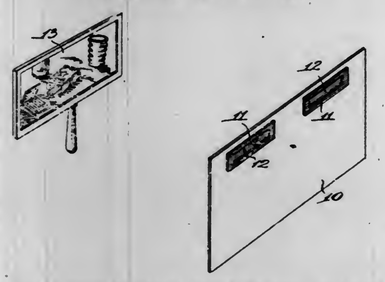
ance caused by the diminishing mass of the member, and common driving means for the frame and the pump to drive the same in constant speed ratio.

2,322,392
IRONING BOARD
Theodore J. Reinhart, Maple Heights, Ohio
Application July 30, 1941, Serial No. 404,733
3 Claims. (Cl. 38—107)



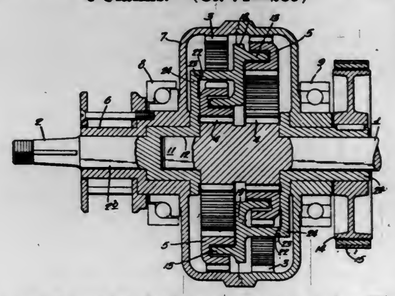
1. An ironing board comprising an elongated flat rigid member, a foraminous press member, means for supporting the press member in spaced relation above the rigid member, a drain pan projecting from one end of the rigid member and adapted to receive moisture passing through the press member from a garment placed thereon, a cover for the pan substantially co-planar with the press member to form an iron stand at the end of the board, and a drain pipe attached to the pan.

2,322,393
COMBINATION STEREOSCOPIC PICTURES AND VIEWING DEVICE
Sidney Richardson, Hollywood, and Patsy Norma Hopkins, Burbank, Calif.
Application March 31, 1941, Serial No. 386,092
2 Claims. (Cl. 88—30)



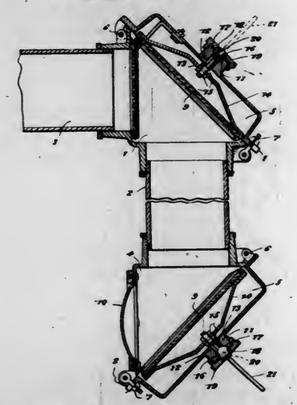
1. In a combination stereoscopic pictures and viewing device, the combination with a carrier comprising a sheet of thin flat material bearing on one of its faces a stereoscopic picture, said carrier provided with a pair of spaced openings and differently colored sections of transparent material covering said openings, of a separately formed reflecting surface capable of being adjusted toward and away also vertically and laterally with respect to the picture on the carrier for reflecting the latter.

2,322,394
MECHANICAL MOVEMENT
John S. Sharpe, Haverford, Pa.
Application November 15, 1941, Serial No. 419,335
6 Claims. (Cl. 74—289)



1. In a mechanical movement, a plurality of coaxial rotary elements, an internal gear on one of said elements, a pinion on another of said elements, an annular composite gear eccentrically journaled on still another of said elements and meshing externally with said internal gear and internally with said pinion, and means for selectively interlocking the two last-named of said elements and immobilizing the first-named element.

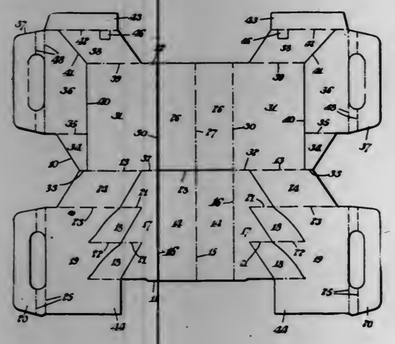
2,322,395
MIRROR MOUNTING
Creedy C. Sheppard, Fort Lee, N. J.
Original application March 20, 1941, Serial No. 384,417. Divided and this application June 25, 1942, Serial No. 448,455
3 Claims. (Cl. 88—97)



1. In a device of the character described, a mounting member having a neck extending therefrom and formed with a bore and a hemispherical socket at the outer end of the bore, a cap nut screwed on the outer end of said neck and formed with a hemispherical socket registering with the socket of the neck and for a portion of its diameter exposed through the outer face of the cap nut, a mirror having a frame

formed with an opening at its center, a stem having a threaded inner end portion passing through the opening of said frame, nuts on the stem gripping inner and outer face of the frame to firmly mount the stem axially of the mirror, said stem passing through the bore of the neck and having a spherical head at its outer end received in sockets of the neck and the cap nut to mount the stem for universal tilting adjustment of the mirror, and the head having a portion exposed through the constricted outer portion of the socket of the cap nut and formed with a socket extending in longitudinal alinement with the stem for removably receiving an adjusting implement during tilting adjustment of the mirror.

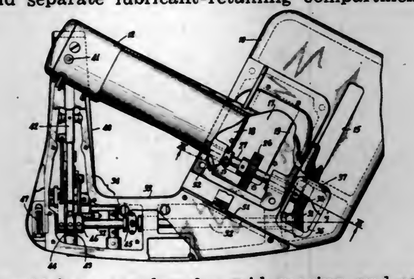
2,322,396
CARRIER FOR CONTAINERS
Julian B. Slevin, Jr., Drexel Hill, Pa.
Application June 17, 1942, Serial No. 447,324
12 Claims. (Cl. 229—52)



1. A carrier for containers such as bottles and the like, made of flexible sheet material and including spaced outer side panels, outer bottom panels connected to the lower edges of said side wall panels along transverse crease lines, central partition sections extending above said side wall panels, end wall panels connected to said outer side wall panels and to said central partition section along crease lines, inner side wall panels, inner bottom panels overlying said outer bottom panels and connected to the lower edges of said inner side wall panels along transverse crease lines, and inclined partition members disposed in vertical planes parallel to the end wall panels and connected to the inner side wall panels and to the central partition sections along crease lines.

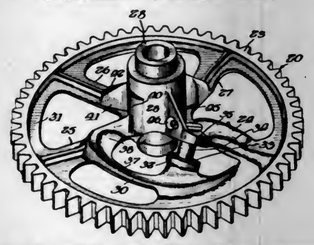
2,322,397
SEWING MACHINE
Clarence C. Smith, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application March 8, 1941, Serial No. 382,295
12 Claims. (Cl. 112—63)

1. In a sewing machine a base member, a driving shaft and a driven shaft having bearings in said base member, the axes of said shafts intersecting at an acute angle, stitch-forming means operated by said driven shaft, means including gearing for driving the driving shaft, bevel gears for connecting said driving and driven shafts, and separate lubricant-retaining compartments



in said base member for said gearing and said bevel gears, respectively.

2,322,398
WINDING DRUM
Henry C. Smith, Chicago, Ill., assignor to Superior Hand Brake Company, Chicago, Ill., a corporation of Illinois
Application June 3, 1940, Serial No. 338,484
6 Claims. (Cl. 254—149)

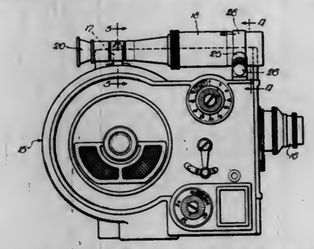


1. A brake chain winding drum comprising a wheel mounted for rotation about an axis, said wheel having a toothed rim portion and a hub concentrically disposed with respect to said axis and extending from the side of said wheel, and said wheel also having connecting portions between said rim and hub, means for securing the end link of a brake chain to said wheel substantially within the plane thereof in inclined relation with respect to the plane of said wheel and said axis to correspondingly position the end link of the chain in an inclined position, said connecting portions comprising webs formed integrally with said hub and provided with faces extending angularly with respect to said rotary axis and the plane of said wheel, said faces and hub forming the winding surface of said drum for the links of said chain, with said faces adapted to support alternate links of the chain flatwise when the chain is in wound position.

2,322,399
CAMERA AND VIEW FINDER MEANS THEREFOR
Philmore F. Sperry, Philip F. Briskin, and Jack Briskin, Chicago, Ill.; Helen B. Sperry, executrix of the estate of said Sperry, deceased; said executrix assignor, by mesne assignments, to Theodore H. Briskin, Philip F. Briskin, and Jack Briskin
Application October 30, 1941, Serial No. 417,080
3 Claims. (Cl. 88—1.5)

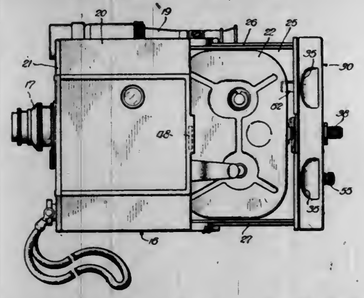
1. In a mechanism of the type described, the combination of a camera, a finder arranged at a different level from that of the optical axis of the camera and at one side of said axis, and

means movably connecting said finder with said camera and arranged so that as the finder is moved with respect to the camera it is swung into changed angular position both horizontally



and vertically and so that the optical axis of the finder is kept in position to intersect the optical axis of the camera.

2,322,400
FILM MAGAZINE POSITIONING AND EJECTING MECHANISM
Philmore F. Sperry, Chicago, Ill.; Helen B. Sperry, executrix of the estate of said Sperry, deceased, assignor, by mesne assignments, to Theodore H. Briskin, Philip F. Briskin, and Jack Briskin
Application November 3, 1941, Serial No. 417,648
20 Claims. (Cl. 88—17)

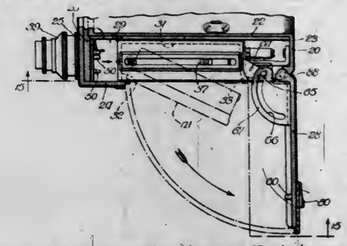


1. In a mechanism of the type described, the combination of a casing providing a magazine chamber, a carrier movable into and out of said chamber for moving a film magazine into and out of operative position therein, means comprising a cam movably mounted on said carrier adapted by engagement with a film magazine to press such magazine forwardly with respect to said carrier, and manually operable means for actuating said cam for moving the magazine forwardly.

2,322,401
MOTION PICTURE CAMERA CONSTRUCTION
Philmore F. Sperry and Theodore S. Briskin, Chicago, Ill.; Helen B. Sperry, executrix of the estate of said Sperry, deceased, assignors to Revere Camera Company, Chicago, Ill., a corporation of Delaware
Application November 10, 1941, Serial No. 418,526
10 Claims. (Cl. 88—17)

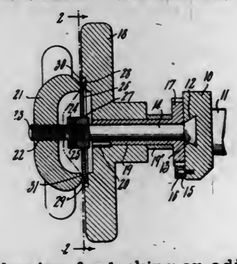
1. In a magazine-type motion picture camera, the combination of a casing having a side door movable into and out of closure position, lens means operatively mounted on said casing, a magazine carrier permanently mounted in position so as to be movable in said casing toward and from said lens means, means comprising a spring mounted on said carrier for pressing a magazine

firmly forwardly on said carrier, and means actuated by the closure of said door for moving the



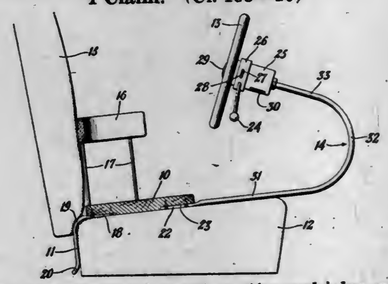
carrier and the magazine forwardly into operative position with respect to said lens means.

2,322,402
LOCKING MECHANISM
Charles J. Stuart, Winchester, Mass., assignor to Wellman Company, Medford, Mass., a corporation of Maine
Application August 5, 1942, Serial No. 453,689
3 Claims. (Cl. 287—53)



1. A mechanism for locking an adjusting member against rotation on a shaft comprising threads on one end of said shaft and an enlarged anchoring base on the other end, a locking nut cooperating with said threads, a member having non-circular outer walls adapted to pass over said threads, means for fixing said non-circular member against movement on said shaft between said adjusting member and said nut, a locking disc having a central opening adapted to slidably fit and to be held against rotation by the non-circular walls of said member fixed on said shaft, said disc having its peripheral surface adapted to contact with said adjusting member, and said locking nut being adapted to be screwed against said disc to move its peripheral surface into frictional engagement with said adjusting member.

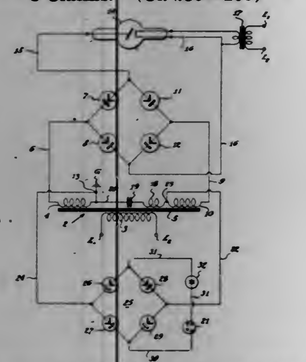
2,322,403
VEHICLE ATTACHMENT
Patricia E. Van der Kieft, Darien, Conn.
Application February 18, 1941, Serial No. 379,469
1 Claim. (Cl. 155—10)



An attachment for automotive vehicles which

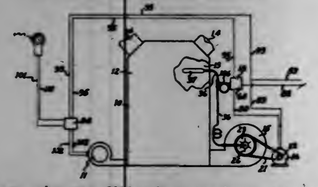
comprises an auxiliary seat member, means for securing said member to an element of the vehicle seat proper, a supporting member extending forwardly, upwardly and rearwardly from said seat member, and simulated vehicle control means mounted on said supporting member in a position directly above the vehicle seat proper.

2,322,404
APPARATUS
Louis L. Weisglass, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 23, 1941, Serial No. 416,187
8 Claims. (Cl. 250—100)



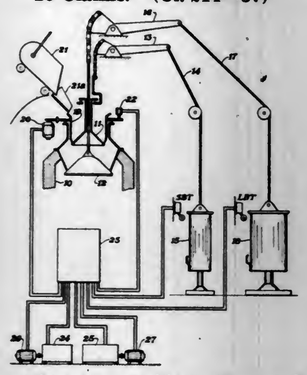
1. In a circuit including an X-ray tube, a high-tension transformer and full-wave rectifying means between the secondary of said transformer and said tube, metering means including a secondary winding of said high-tension transformer which carries a capacity current due to the capacity of the circuit, a meter connected with said secondary winding for measuring the plate current of the X-ray tube, a compensating winding wound upon the same core with said secondary winding to prevent voltage shifts and undesirable current variations therebetween, and means to pass bucking current through said compensating winding in a direction and of a magnitude adapted to oppose and balance out the capacity current flow in said circuit to cause an acurate meter reading of the true X-ray tube current.

2,322,405
AIR CONDITIONING SYSTEM
Everett H. White, St. Paul, Minn.
Application April 27, 1940, Serial No. 332,085
15 Claims. (Cl. 236—11)



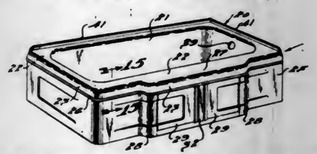
8. In an air conditioning system, a motor, a blower adapted to be driven, a variable speed friction drive for connecting said motor to said blower, a heat responsive element, lever means operable by changes in temperature of said heat responsive element for altering the friction of said drive thus to alter the speed of said blower, and manually adjustable means for causing the rate of alteration of the friction of said drive due to temperature changes of said heat responsive element selectively to be varied.

2,322,406
BLAST FURNACE DISTRIBUTOR CONTROL
Arthur J. Whitcomb and Gordon Fox, Chicago, Ill., assignors to Freyn Engineering Company, Chicago, Ill., a corporation of Maine
Application January 7, 1941, Serial No. 373,448
16 Claims. (Cl. 214—37)



2. In combination, a blast furnace having a small bell, a large bell in series with said small bell, a rotary distributor hopper cooperating with said small bell, which hopper is adapted to receive material from a side thereof, and means for progressively varying the angular movements of said distributor hopper in response to dumps of said large bell.

2,322,407
TUB CONSTRUCTION
Charles H. Widman, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Original application October 19, 1939, Serial No. 300,227. Divided and this application November 28, 1940, Serial No. 367,556
6 Claims. (Cl. 4—173)

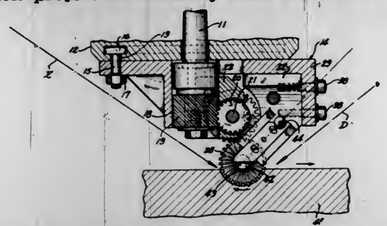


1. In a sheet metal bath tub construction, a tub proper having a flange about its top edge, a skirt extending downwardly at the front of the tub having an inwardly directed flange at one end, the end of the top flange of the tub being disposed upwardly in aligned abutting relation with the flange on said skirt and secured together at the abutted portions.

2,322,408
MILLING MACHINE CHERRYING ATTACHMENT
Earnest F. Aber, Racine, Wis.
Application December 30, 1939, Serial No. 311,877
10 Claims. (Cl. 90—11)

1. A milling device comprising a supporting

frame having a depending wall, a rotatable wheel positioned so that its plane of rotation extends transversely of the plane of said depending wall and having cutting teeth on its periphery, and means for supporting said wheel below said frame, said means including supporting arms having a bracing relationship with said wall which project downwardly from the frame and

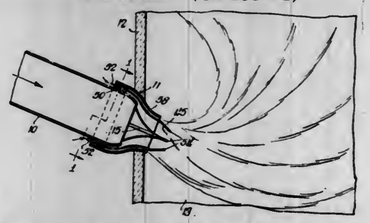


which are at an oblique angle in said elevational view with respect to said depending wall when viewing a face of the rotatable wheel, said wall being so positioned with respect to the direction of rotation of the cutter and with respect to the direction of extent of the arms as to take the major thrust strains from the rotatable cutting wheel.

2,322,409
METHOD FOR RETARDING ABSCISSION
James F. Adams, Wilmington, Del., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application April 27, 1942, Serial No. 440,755
14 Claims. (Cl. 47—58)

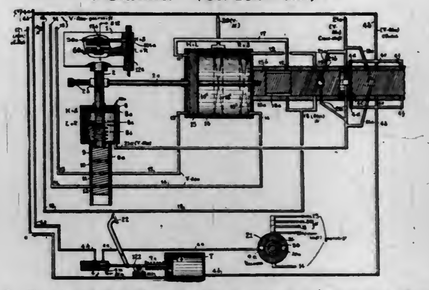
1. The method of retarding abscission of a part of a growing plant comprising treating the plant, shortly before the time abscission of the part is anticipated, with an aqueous solution containing, per 100 gallons thereof, not less than 22 and not more than 84 grams of water-soluble alkyl phenol sulfonate containing 10 to 30 carbon atoms in the alkyl group.

2,322,410
BURNER CONTROL APPARATUS
Henry F. Alfery, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 31, 1940, Serial No. 354,964
5 Claims. (Cl. 136—4)



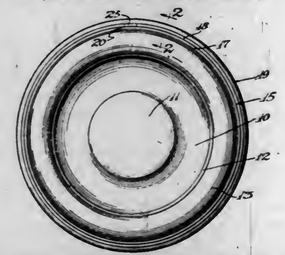
5. In combination, a fuel supply nozzle, an insulating sleeve surrounding and carried on the external surface of said nozzle, a thermopile comprising a plurality of pairs of thermocouple elements extending through and carried by said insulating sleeve with their outer ends joined together, the inner ends of said thermocouple elements extending from the inner end of said nozzle and joined to form "hot" thermojunctions in circumferentially spaced relation beyond the inner end of said nozzle, and a pair of spark gap electrodes carried by said insulating sleeve and extending to position with the ends thereof disposed inwardly beyond the fuel supply nozzle and forming a spark gap for igniting the fuel.

2,322,411
SEMIAUTOMATIC GEAR SHIFT TRANSMISSION TOGETHER WITH A COMBINED FUEL CONTROL ELEMENT AND GEAR-SHIFTER
Jean A. H. Barkeij, Altadena, Calif.
Application March 1, 1937, Serial No. 128,368
6 Claims. (Cl. 192—.01)



6. In combination with a prime mover, a fuel control element therefor, a gear transmission, vacuum power means to effect automatically a gearshift therein comprising a single bidirectional vacuum motor, a selector valve located between a source of vacuum created by said prime mover and said vacuum motor, said selector valve having at least two selective positions, reversing the vacuum between said source and opposite sides of a single piston in the single cylinder of said motor, and establishing in each of said positions direct communication between said source of vacuum and said motor, said automatic gearshift being dependent on the engagement and disengagement of a two-way clutch between said prime mover and said gear transmission, and dependent upon the position of said fuel control element when reduced substantially to idling position.

2,322,412
PNEUMATIC TIRE TREAD AUGMENTING MEANS
William G. Bennett, Chicago, Ill.
Application February 2, 1942, Serial No. 429,217
9 Claims. (Cl. 152—175)



1. Pneumatic tire augmenting means comprising a tread supplement mounting and casing protective shield member in the form of a single split metallic thin circular band having tapered overlapping abutting ends, constructed and arranged to be seated on and engage the circumferential tread and adjacent side wall portions

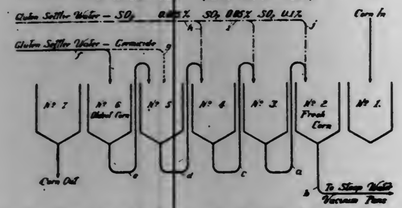
of a pneumatic tire and spaced apart projections extending from the outer surface and inwardly of the side edges of and peripherally entirely around the said band, the terminal edges of said projections being tapered and in overlapping engagement to form a smooth continuous channel thereon for the reception and positioning of a tire tread supplement.

2,322,413

PROCESS OF STEEPING CORN

J Paul Bishop, Clarendon Hills, and William Foley Henry, Argo, Ill., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

Application May 10, 1940, Serial No. 334,356
7 Claims. (Cl. 127—68)



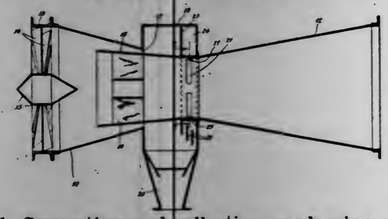
7. In the production of starch from corn the improvement which comprises: steeping the corn in two stages in the first of which sulfur dioxide is introduced into the steep water in quantity to be absorbed by the corn, and in the second of which the introduction of sulfur dioxide is discontinued and there is introduced into the steep water a germicide of the group consisting of benzoate of soda and benzoic acid, whereby enzymic and bacterial activity and the production of acids are reduced and the thinning of the starch minimized.

2,322,414

VENTURI DUST COLLECTOR

William Spencer Bowen, Westfield, N. J.

Application April 19, 1941, Serial No. 389,261
11 Claims. (Cl. 183—80)



1. Separating and collecting mechanism comprising a first chamber through which a stream of particle laden fluid is adapted to flow, means to separate from said stream a portion of said fluid and particles entrained therein, a receiving chamber to receive the said separated fluid and particles, means to establish a substantially smooth lamellar flow in the first chamber beyond the separating means in the direction of flow, and means to return fluid in the receiving chamber back into the lamellar flow in the first chamber.

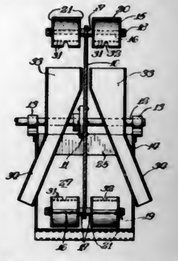
2,322,415

SAND DEWATERING WHEEL

John C. Buckbee, Los Angeles, Calif.

Application January 16, 1939, Serial No. 251,158
5 Claims. (Cl. 210—199)

1. In a rotating dewatering apparatus of the type useable for transporting material mixed with water from one station to another while separating the material from the water, the combination comprising a rotatable plate, a plurality of buckets peripherally spaced around said plate in pairs, one of each of said pairs of buckets being pivotally carried on opposite sides of said plate by means of spaced apart carrying bolts connected to said plate, said bolts projecting on each side thereof and holding said buckets in spaced apart relationship, each of said bolts projecting beyond the side wall confines of



each bucket which it carries and each projecting portion of adjoining bolts being connected by links secured thereto in order to hold said buckets in alignment and to strengthen said structure, said walls of said buckets having bucket-adjusting holes and said links having bucket-adjusting members adapted to be received by said adjusting holes whereby said buckets can angularly be adjusted and secured in desired position with respect to each other and to adjoining associated structure.

2,322,416

FLUX

John D. Coleman and Charles W. Ewing, Dayton, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

No Drawing. Application June 17, 1940, Serial No. 340,996
10 Claims. (Cl. 148—26)

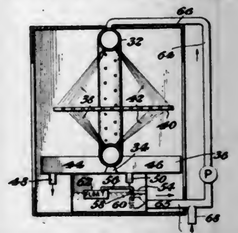
2. A flux comprising a product formed by first mixing boric acid and a normal fluoride of a metal selected from the group consisting of lithium, sodium, potassium, magnesium, strontium, and calcium and then mixing the resultant product with hydrogen fluoride.

2,322,417

VEGETABLE WASHING MACHINE

Jack Christian, Sanford, Fla.

Application August 21, 1941, Serial No. 407,789
2 Claims. (Cl. 146—194)



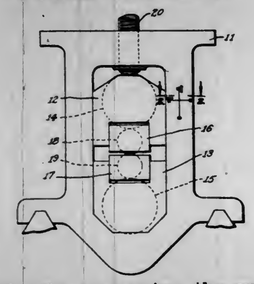
1. A washing apparatus for celery and the like comprising a housing, a movable conveyor passing through said housing for supporting the article to be washed, a spray conduit encircling the conveyor and having fluid outlets angularly disposed with relation to each other for directing washing fluid at a plurality of angles against the article, a reservoir in the base of the housing for collecting a portion of the washing fluid, a trough adjacent the base of the housing for collecting all of the washing fluid, and means including a partition disposed within said trough and under the spray conduit for dividing the washing fluid, said partition and conduit being so constructed and arranged that that portion of washing fluid expelled from one side of the conduit is conducted to waste while that portion of the fluid expelled from the other side of the conduit is conducted to the reservoir.

2,322,418

AUTOMATIC TEMPERATURE COMPENSATION FOR PRESSURE INDICATORS OF CONTINUOUS ROLLING MILLS

Ernest A. Crawford, Chicago, Ill., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York

Application March 15, 1941, Serial No. 383,580
3 Claims. (Cl. 265—1)



1. A device for measuring the variations in stress in a rolling mill frame which is adapted to stretch lengthwise and narrow crosswise in response to pressure between the rolls, said device comprising a pair of members mounted on said frame and adapted to be responsive to variations in temperature of said frame, one of said members being positioned so as to respond to stretching of said frame while the other of said members is positioned so as to respond to narrowing of said frame, the responses of said members due to stretching and narrowing of the frame being of opposite sign while the responses of said members due to temperature variations of said frame are of the same sign, means whereby the responses of said members are arranged in opposition, whereby the responses of said members due to stretching and narrowing of said frame will be additive while the responses of said members due to temperature variations will tend to cancel each other.

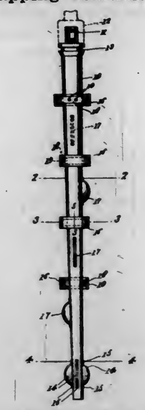
2,322,419

PARAFFIN SCRAPING TOOL

Lloyd Lee Ottis Cranford, Baton Rouge, La.

Application September 18, 1940, Serial No. 357,327
5 Claims. (Cl. 166—18)

1. In a well scraper, an elongated body member, a series of slicing knives with longitudinally arranged cutting edges secured on said body member adjacent the leading end thereof, said knives extending radially from the body member in longitudinally spaced staggered relation about its circumference, and a series of transverse scraping blades secured to the body member above the slicing knives, said scraping blades and slicing knives being spaced apart longitudinally of the body member in alternate arrangement thereon, said scraper blades being disposed in staggered overlapping relation to one another



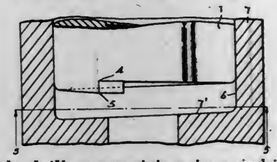
and having arcuate scraping edges, each scraping blade of the series extending radially beyond the scraping blades disposed between it and the leading end of the body member.

2,322,420

ROCK DRILL

Ernest Craig, Falconbridge, Ontario, Canada

Application February 6, 1941, Serial No. 377,587
5 Claims. (Cl. 287—126)



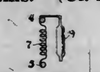
4. A rock drill, comprising in combination, a socketed bit, a drill rod having its perimeter formed to engage in locking contact with the wall of the bit socket through relative rotation of the rod and bit, and means enclosed within the bit socket adapted to effect relative rotation between the rod and bit upon the application of impact shocks to urge the interlocking peripheral surfaces of the rod and bit into locking engagement.

2,322,421

ELECTRIC DISCHARGE LAMP

James L. Cox, Danvers, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

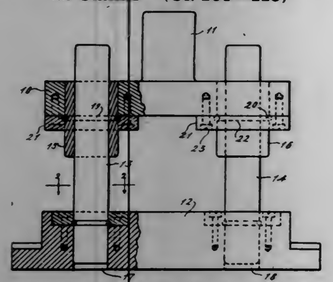
Original application December 22, 1938, Serial No. 247,252. Divided and this application April 8, 1942, Serial No. 438,199
2 Claims. (Cl. 176—7)



1. The method of introducing mercury into a sealed glass envelope, said method comprising: introducing a quantity of mercury into a metal container; sealing said mercury in said container; mounting said container adjacent a filament mounted on a pair of filament leads secured in a glass end piece for said envelope, with one end

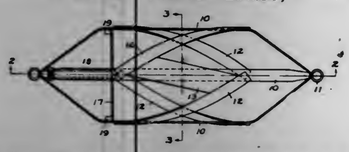
of said container electrically connected with one of said filament leads and the other end of said container lying in adjacent and separated relation with the other of said filament leads; sealing said glass endpiece to the end of said glass envelope; and passing a current of electricity through said filament sufficient to cause it to give off heat capable of causing such expansion of said mercury as will force an opening in said container.

2,322,422
DEMOUNTABLE PIN OR SHANK ASSEMBLY
Fred C. Danneman, Ridgewood, N. Y.
Application February 10, 1942, Serial No 430,315
11 Claims (Cl. 164—118)



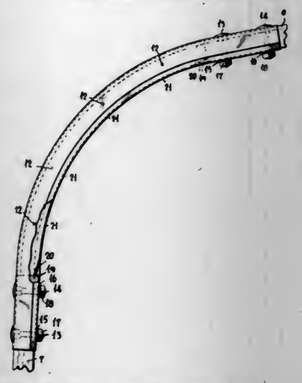
1. A device of the character described comprising a cylindrical member, a holder therefor provided with an opening the diameter of which exactly corresponds to the diameter of said member, said cylindrical member being provided with a retaining projection laterally extending from its surface, a disk having an opening through which said cylindrical member may be inserted, and means for securing said disk to said holder, said disk and holder together forming a housing for said projection, whereby said cylindrical member will be locked against axial displacement when said disk is secured to said holder.

2,322,423
SEWER CLEANER
Harry Davidson, Auburn, Ind.
Application March 12, 1941, Serial No. 382,971
1 Claim. (Cl. 15—104.30)



A sewer cleaning device comprising a frame formed of a series of longitudinal bars equally spaced on the circumference of a cylinder of selected diameter, said bars converging at their ends to a point incident to the longitudinal axis of the frame and secured together on said axial line to form a stiff inflexible frame, a series of rigid flat diagonally disposed cutting blades on the outer faces of the bars, each blade forming the arc of a helix and adapted to contact over the entire length thereof the inner wall of a sewer conduit, each of said blades having opposite ends thereof rigidly secured to a pair of adjacent longitudinal bars at the points of juncture of said bars with the converging ends thereof, and a relatively wide cutting blade diagonally disposed with respect to each longitudinal frame bar with opposite ends thereof secured to adjacent ends of the cutting blades secured to the bar adjacent the relatively wide cutting blade, said relatively wide cutting blade and associated diagonally disposed cutting blades forming acute angled adjacent cutting edges.

2,322,424
BOW FOR THE TARPAULIN OF PLATFORM VEHICLES
Edward J. Deisley, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 15, 1940, Serial No. 335,203
1 Claim. (Cl. 296—118)

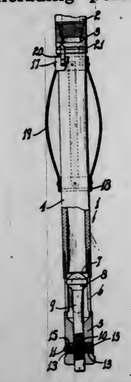


A fitting for connecting wooden members of a composite vehicle bow, said fitting comprising a hollow tubular structure of rectangular section formed of arcuate inner and outer sheet-metal channel members assembled with their respective flanges in snug overlapping relation, and their webs forming the concave and convex walls of the fitting, means rigidly securing said respective overlapping flanges together throughout the intermediate portion of the fitting, said flanges for a substantial distance from each end of the fitting being free and unsecured, so that the end portions of said channel members may spread apart to a limited extent, thus forming at the ends of the fitting yielding sockets into which the wooden bow members may be inserted, said fitting having in the region of such sockets clamping means engaging the webs of said channel members for drawing them together after the wooden members have been inserted.

2,322,425
DUMPING BAILER
Robert M. Dempsey, Long Beach, Calif., assignor to Shull Perforating Co., Inc., Long Beach, Calif., a corporation of Nevada
Application August 12, 1940, Serial No. 352,185
6 Claims. (Cl. 166—19)

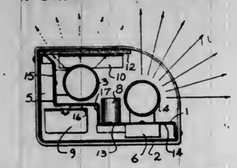
1. A dumping bailer adapted to be inserted into a well casing comprising a tubular housing, a collar carried by said housing and shiftable thereon, a plurality of spring arms extending from said collar and arranged to frictionally engage the casing, a valve seat in said housing, said housing having a port below and adjacent said seat, a valve initially engaging said seat having a depending stem, and latch means in said housing initially releasably engaging said valve stem to hold the valve in latched position

against said seat, said collar being adapted to be held stationary by the frictional engagement of its spring arms with the casing while the housing is shifted upwardly relative thereto, said latch means being movably mounted in said housing and including portions normally ex-



tending into the path of movement of the collar whereby the latter, when the housing is shifted upwardly relative thereto, will engage and move the latch means away from said stem permitting unseating of the valve.

2,322,426
FLUORESCENT LAMP FIXTURE
Henry Dreyfuss, New York, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application December 23, 1941, Serial No. 424,164
2 Claims. (Cl. 240—6)

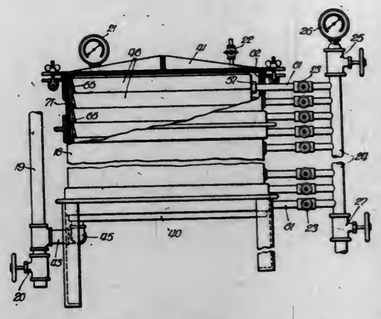


1. An electric gaseous discharge lamp fixture in the form of an elongated structure of substantially rectangular transverse and longitudinal cross-section, said structure comprising: a base; a back; a pair of endcaps; and a cover in the form of a single translucent sheet; a reflector within said structure, said reflector comprising a pair of steps and a pair of risers at least one of said risers being substantially perpendicular to said steps; supporting means, for an elongated lamp, mounted on and substantially perpendicular to, one of said steps; supporting means, for a second elongated lamp, mounted on and substantially perpendicular to said one of said risers; starting means for lamps on said lamp supporting means, said starting means being mounted on said reflector between the supporting means for said lamps; and auxiliary apparatus mounted within said structure and beneath one of said reflector steps.

2,322,427
CELLULOSE PRODUCT
Sidney Milton Edelstein, Elizabeth, N. J.
No Drawing. Application August 19, 1941, Serial No. 407,445
7 Claims. (Cl. 260—212)

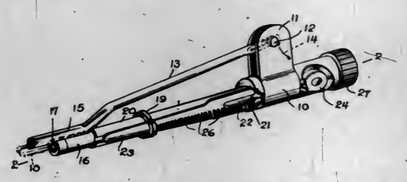
1. In making a solution of cellulose, the method which comprises mixing unmodified cellulose with an aqueous solution of sodium zincate containing an excess of sodium hydroxide over the calculated proportion required to form the zincate, until the cellulose is substantially completely dissolved, the solution being effected at a temperature between the temperature of crystallizing of an inorganic component of the solution and about 5° C.

2,322,428
FILTER SYSTEM AND APPARATUS
Henry Eickemeyer, Chicago, Ill., assignor to George Auer, Chicago, Ill.
Application June 23, 1939, Serial No. 280,830
13 Claims. (Cl. 210—178)



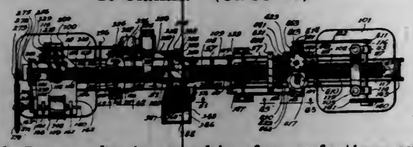
1. A filter press comprising a housing, means on the inside of said housing forming vertically-extending marginal channels therein, means for conducting liquid to said channels, a plurality of filter pans removably disposed within said housing one above the other and constituting a like plurality of filter beds, each of said filter pans having a lip for alignment with said channels for receiving liquid therefrom, an outlet bushing on each of said pans, an outlet stud in the wall of said housing for removable substantially leakproof connection with the outlet bushings of said pans, a common outlet outside of said housing, and valve-controlled means connecting each of said outlet studs with said common outlet.

2,322,429
HAIR CURLING DEVICE
Louis Eisenman, Brooklyn, N. Y., assignor to Solo Products Corporation, New York, N. Y.
Application April 19, 1937, Serial No. 137,816
4 Claims. (Cl. 132—33)



1. A hair curling device comprising a hollow mandrel about which a lock of hair is adapted to be wound spirally, means for clamping the lock of hair thereto, a handle for rotating the mandrel, a hollow member adjacent but at an angle to said mandrel, said member and the end of the mandrel having an interfitting, non-rotatable relation, and openings for receiving the two shanks of a hair pin.

2,322,430
METHOD AND MACHINE FOR PACKAGING EDIBLE PRODUCTS
Joseph William Fay, Villa Park, Ill., assignor to Overland Candy Corporation, Chicago, Ill., a corporation of Illinois
Application November 16, 1939, Serial No. 304,680
10 Claims. (Cl. 93—3)



1. In a packaging machine for confections and the like, utilizing a flexible packaging material, the parts of which are adapted to be sealed together by heat and pressure, a sealing mechanism comprising a pair of rotatable sealing rolls having toothed peripheries, the teeth of which are adapted to interengage with each other, electrical means carried by each of said sealing rolls for heating the roll, and thermostatic means including a part slidably engaging said rolls for controlling the energization of said electric heating means, said sealing rolls being provided with registering grooves for receiving the sticks of confections which have a projecting stick, whereby the package may be crimped and sealed by pressure and heat about said sticks.

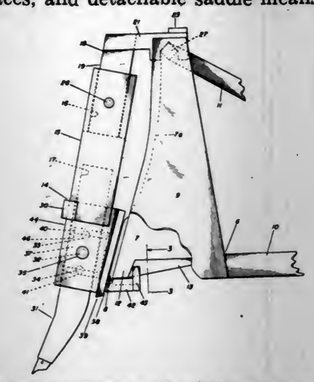
2,322,431
AUTOMOBILE ACCESSORY
Joseph Fischer, New York, N. Y.
Application November 29, 1940, Serial No. 367,693
2 Claims. (Cl. 248—226)



1. An automotive accessory device comprising a clamping cover adapted to seat against the outer surface of a car door, a U-shaped yoke adapted to straddle the car door flange, and having an operating portion mounted within the clamping cover, and also having a clamping jaw disposed outside thereof behind the door flange, an arm extending outwardly from the clamping cover and supporting a car fixture; screw means carried by the device, in operative relation with the clamping cover and with the yoke, for drawing the jaw into clamping engagement with the door flange; a front wall formed on the clamping cover, cooperating plane surfaces on said front wall of the clamping cover and on the front wall of the yoke in sliding engagement with each other, the plane of said surface engagement being parallel with the axis of the screw means, whereby said two front walls have surface engagement, to close the front of the clamping cover, throughout the range of operation of the screw means.

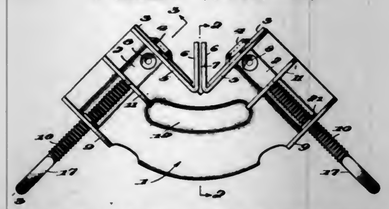
2,322,432
DEMOUNTABLE BULLDOZER ATTACHMENT
Carl D. Forte, San Diego, Calif.
Application July 5, 1941, Serial No. 401,137
4 Claims. (Cl. 262—8)

1. In bulldozing apparatus, the combination of a frame embodying top and bottom braces therein, a moldboard incorporating a top bar and mounted upon said frame, a rooter attachment, detachable double hook means for securing and anchoring the top part of said attachment to the top of said moldboard, and to one of said top braces, and detachable saddle means for se-



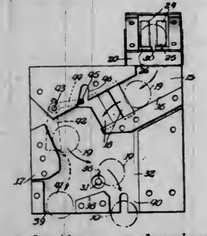
curing and anchoring the bottom part of said attachment to the bottom of said moldboard and to one of said bottom braces.

2,322,433
MITER BOX
Frank J. Gammache, deceased, late of Manheim Township, Lancaster County, Pa., by Magdalena Gammache, executrix, Lancaster, Pa., assignor to Magdalena Gammache, Country Club Heights, Lancaster, Pa.
Application November 12, 1940, Serial No. 365,362
2 Claims. (Cl. 143—86)



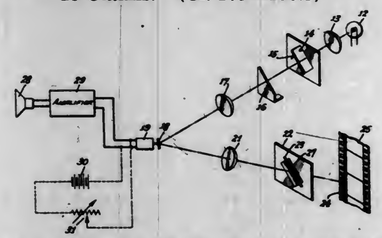
2. A miter box comprising, a base formed with two relatively angularly disposed linear guide corrugations therein, a pair of upright supports integrally connected to said base at the converging ends of said respective guide corrugations, each said support extending in a transverse direction relative to its respective guide corrugation and being formed with a reinforcing corrugation constituting a relatively angularly disposed upwardly extending continuation of said guide corrugation, stationary clamp members secured to said respective supports in converging planes relative to each other, relatively spaced parallel saw guides integral with said stationary clamp members to define a guide slot, upwardly turned lugs integrally attached to said base at the respective diverging ends of said guide corrugations, operating screws threaded through said respective lugs, movable clamp members respectively rotatably secured to said screws for movement therewith towards and away from said respective stationary clamp members, and guide portions carried by each of said members and conformingly slidably disposed for movement in said respective guide corrugations whereby said movable clamp members are maintained in alignment with their respective stationary members and also prevented from rotating relative thereto.

2,322,434
COIN DETECTING APPARATUS
Albert E. Gebert, Wilmette, and Floyd C. Black, Chicago, Ill., assignors to Advance Machine Co., a corporation of Illinois
Application December 23, 1939, Serial No. 310,748
3 Claims. (Cl. 194—100)



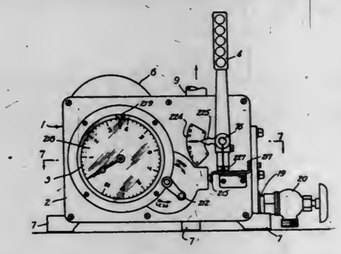
3. A coin selecting mechanism for selecting coins and like metallic disc-shaped elements embodying an inclined chute along which they travel, a bounding block arranged in alinement with but spaced from the delivery end of the chute to form a passage for the coins therebetween, the coin contacting face of said block being inclined, a deflector member in said passage defining in the latter two discharge outlets, said deflector member being disposed below and spaced a substantial distance from said block and the outlet end of said chute, but in alinement with the portion of the space that is between the block and the end of the chute, an abutment separate from and disposed adjacent, but spaced above said deflector and also disposed intermediate the said discharge outlets, to be impacted by a coin impelled by said bounding block, said abutment being also disposed intermediate the outlet end of the chute and the bounding block, and operating to impel the coin in a direction toward one or the other of said discharge outlets, according to the point at which the coin strikes said abutment, the said deflector operating to guide the coin to one or the other of said discharge outlets after it strikes said abutment, and a pivoted member adjacent said chute and cooperating with a wall of the chute to form a space through which the said elements freely pass to the bounding block when the said mechanism is in a normal position, said member operating, when said mechanism is tilted, to restrict the last said space to impede the trajectory of said elements from the chute towards said bounding block to maintain said elements against being impelled by the said bounding block.

2,322,435
MOTION PICTURE SOUND RECORDING AND REPRODUCING SYSTEM
Irl R. Goshaw, Beverly Hills, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application August 2, 1941, Serial No. 405,239
15 Claims. (Cl. 179—100.3)



1. A sound recording system for recording a signal on a film having a series of discontinuities interposed along a recordable film area comprising means for producing a light beam, means for modulating said beam with a signal to be recorded, and means for impressing the same amount of recordable film area with light regardless of the position of said discontinuities with respect to said light beam.

2,322,436
MEASURING DEVICE FOR LIQUIDS
Francis W. Guibert, Beverly Hills, and Frederic B. Fuller, Whittier, Calif.; said Fuller assignor to said Guibert
Application December 27, 1938, Serial No. 247,966
22 Claims. (Cl. 221—101)
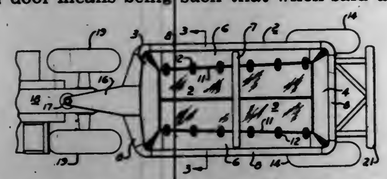


1. In a device of the character described, a control valve, means for operating said valve, including a control driven arm for causing said valve to open, means for releasably retaining said driven arm in full valve opening position or optionally in a position to cause less than full opening of the valve, means, operating upon the delivery of a predetermined amount of liquid through the valve, to release said driven arm, means for adjusting the said operating means, whereby to alter the amount, the delivery of which will cause said operating means to act, a driving arm to actuate said driven arm to a position where it is releasably retained, and means adapted to form an operating connection between the driving arm and the driven arm, said means including a latch plate carried by one of said arms and movably with respect to said one arm, and having stepped surfaces, and means carried by the other arm cooperating with the latch plate whereby movement is transmitted from the driving arm to the driven arm, said latch plate being movable on its supporting arm from a position where it transmits the full motion of the driving arm to the driven arm to cause the valve to open fully, to a position where it transmits the motion of the driving arm to the driven arm to cause the valve to open only partly, as well as movable to a position where it is incapable of transmitting any motion from the driving arm to the driven arm, and means for causing said latch plate to assume said position that causes the valve to be opened only partly, said means being operated in response to the adjustment of said operating means for delivery of a predetermined amount of liquid below a definite value.

2,322,437
DUMP WAGON
Carl A. Gustafson, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application June 13, 1941, Serial No. 397,919
6 Claims. (Cl. 298—35)

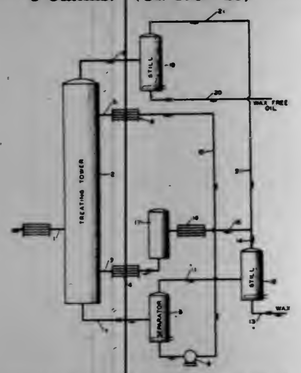
1. A dump wagon body having side walls, and a bottom closable by opposite door means hinged-

ly connected at their outer edges adjacent said side walls so as to swing downwardly for dumping of a load, the hinge connections of said door means being such that when said door



means are open they are closer together at the front of said body than at the rear thereof to facilitate their slipping away from a dumped load when the wagon is moved forwardly.

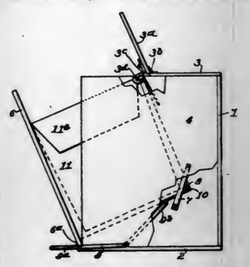
2,322,438
PROCESS FOR DEWAXING LUBRICANT STOCKS
Robert W. Henry, Bartlesville, and James V. Montgomery, Okmulgee, Okla., and Shelby D. Lawson, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware
Application May 9, 1940, Serial No. 334,292
3 Claims. (Cl. 196—18)



1. The continuous process of dewaxing mineral oils including the steps of mixing the waxy oil with a dewaxing solvent at such a temperature as to have complete solution between the waxy oil and solvent, continuously passing chilled, relatively finely divided particles of liquid mercury in countercurrent relation to the waxy oil-solvent mixture and maintaining a temperature differential between the chilled liquid mercury droplets and the waxy oil-solvent mixture to chill the said mixture to dewaxing temperatures and to furnish chilled nuclei upon which the wax precipitates thereby forming relatively heavy wax-liquid mercury aggregates, and separating these aggregates from the oil-solvent mixture.

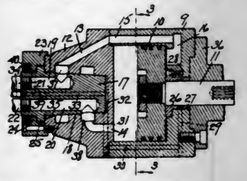
2,322,439
REFUSE CONTAINER
William E. Heithoff, Dika, Iowa
Application December 23, 1940, Serial No. 371,337
1 Claim. (Cl. 312—155)

In combination, in a separable refuse container, an outer housing having side walls, a rear wall, a bottom floor, an outwardly tiltable hinged front wall and a top wall composed of a segmental top cover with a rear section peripherally fixed to the upper edges of said rear and side parts, a top closure member hinged to the forward part of the segmental top cover and having a depending fixed upwardly open hook rearwardly directed and upturned on the rear part of the lower face thereof, an open top rigid receptacle mounted upon the inner face of the closure member to seat within the container, an inner open top removable flexible sack seated removably in said open top receptacle, a transverse rock-shaft with end parts traversing the lower ends of the side walls with one outer end part bent angularly forwardly, the medial lower part of the rock-shaft being bent rearwardly inclinedly to contact the bottom wall



of said rigid receptacle, a stop member projecting inwardly from one inner side wall of the container to releasably interlock with said hook, an upwardly rearwardly inclined spaced looped bar end-supported on an inner face of one side wall of the housing, and a fixed stop laterally directed outwardly on one side face of the rigid receptacle adapted to releasably engage said fixed looped bar when the outer angular part of the rock-shaft is rocked forwardly.

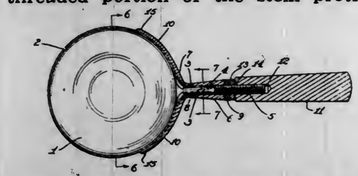
2,322,440
CHUCK OPERATING MECHANISM
George A. Highberg, West Hartford, and Herbert Hickey, Hartford, Conn., assignors to The Cushman Chuck Company, Hartford, Conn., a corporation of Connecticut
Application November 18, 1940, Serial No. 366,118
5 Claims. (Cl. 121—38)



1. A chuck operating mechanism including a cylinder comprising a head having a recess therein, a piston within said cylinder, an operating member secured to said piston and extending through an opening in the end of the cylinder, an annular groove in said recess, inlet and exhaust passages communicating with said recess and opening into the chamber in the cylinder on opposite sides of the piston therein, a plug fitting said recess in said head but spaced from the bottom thereof, a passage extending from said space through the plug to the outer end thereof, and a passage extending from said annular groove into said space to drain fluid collected in said groove.

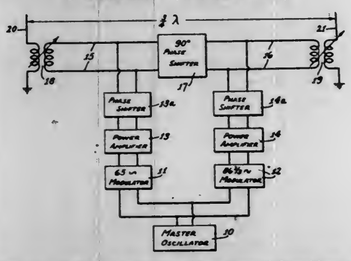
2,322,441
READING GLASS
Roy M. Holliday, Oak Park, Ill.
Application July 27, 1940, Serial No. 347,871
1 Claim. (Cl. 88—39)

In combination with a lens, a flexible rim encircling the lens and having a pair of integral terminals extending in substantially radial direction away from the lens, a stem embraced between said terminals and having a threaded portion, said stem and terminals having transaxial abutment means by which they are interengaged, a shank having a bore in which the stem and terminals are snugly fitted, whereby their abutment means are held in engagement, said threaded portion of the stem protruding



from said shank, a nut adjustable thereon against the end of the shank to tighten the rim around the lens by drawing said stem and terminals through the bore of the shank, said threaded portion of the stem projecting beyond said nut, and a handle having a threaded bore by which it is secured on the projecting part of the stem.

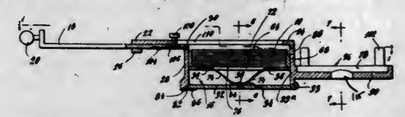
2,322,442
METHOD AND APPARATUS FOR PRODUCING RADIO BEACONS
Paul J. Holmes, Los Angeles, Calif., assignor to William H. Donnelly, Los Angeles, Calif.
Application April 17, 1939, Serial No. 268,172
8 Claims. (Cl. 250—11)



8. In a radio beacon, the combination which comprises: a phase-shifting network having first and second sides; a source of carrier waves connected to said first and second sides of said network; means continuously connected between said source and said first side of said network for modulating said carrier with an audio frequency signal; means continuously connected between said source and said second side of said network for modulating said carrier with a different audio frequency signal; and a pair of spaced radiators connected respectively to the first and second sides of said network; said network producing a phase shift of about 90° at the carrier frequency and said radiators being spaced about three-quarters of a carrier wavelength from one another.

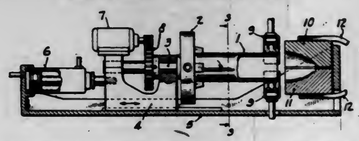
2,322,443
SHAVING EQUIPMENT
John Holtzman, New York, N. Y.
Application December 22, 1941, Serial No. 423,869
36 Claims. (Cl. 30—40)

1. In a device of the character described; a magazine for storing therein a pile of blades, said magazine having a slot at one end for the ejection therethrough of a blade from the pile of blades; supporting means arranged below the slot for detachably carrying a blade holder of a razor in position to receive a blade ejected from the magazine through the slot; and means for transferring a single blade from the pile to the blade holder through the slot, said transferring



means including a relatively thin flexible member and means for flexing the member to adjust the position of the member relative to the pile of blades.

2,322,444
METHOD OF HEATING AND FORMING TUBULAR BODIES
William C. Heath, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application September 14, 1942, Serial No. 458,229
2 Claims. (Cl. 219—3)



2. The method of electric heating and forming a tubular blank, comprising preheating the metal of the blank substantially uniformly to soften the same, and thereafter subjecting the same to the progressive action of a plurality of circumferentially spaced co-operating electrode dies under conditions of relative rotation between the blank and dies to simultaneously heat and form the blank.

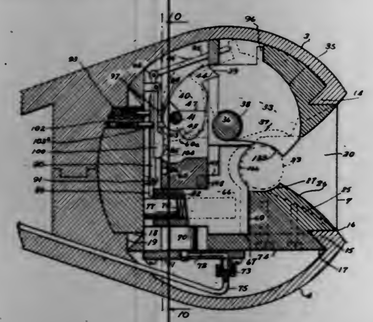
2,322,445
PRINTING PROCESS
Walter Huber, Mount Kisco, N. Y., assignor to J. M. Huber, Inc., New York, N. Y., a corporation of New Jersey
No Drawing. Application April 24, 1941, Serial No. 390,109
6 Claims. (Cl. 101—426)

1. Process of printing by gravure or off-set consisting in providing an ink that is solid at printing room temperatures, heating said ink until it fuses to a workable consistency for printing, feeding said fused ink to suitable printing surfaces, and impressing thin films of the fused ink from said surfaces onto stock having sufficient heat absorbing capacity substantially instantaneously to freeze and set said thin films in adherence to the surface of the stock, so that the print thereby formed dries by solidification instantaneously on leaving the printing surfaces.

2,322,446
COUPLER
Neal Hudson, Phoenix, Ariz.
Application October 28, 1941, Serial No. 416,819
4 Claims. (Cl. 280—33.17)

1. A coupler operative between tractive and drawn vehicles comprising a coupler case adapted to attachment to a tractive vehicle, a coupler body adapted to turn on a horizontal pivot therein, a rectangular tongue receiving cavity therein having inwardly converging sides, the lower face thereof having a draw bar retaining lip, a rocking latch operative in the upper

face thereof, a latch dog positioned within said coupler body adapted to hold said latch in latching position engaging a draw bar of a D stirrup on a tongue, mechanism within said latch body for releasing said latch from said holding position to a released free position, said mechanism being adapted to control from outside said coupler case, together with a tongue attached to a drawn vehicle having a D stirrup provided

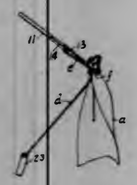


with a transverse draw bar attached by a swivel connection thereto, the sides of said D stirrup diverging rearward to substantially conform to the sides of the rectangular opening in said coupled body and said draw bar adapted to engage within said opening between the lip on the lower face of said opening and said latch to be retained therein.

2,322,447

TIED SAUSAGE CASING AND METHOD FOR TYING

Henry A. Hensel, Milwaukee, Wis.
Application June 25, 1938, Serial No. 215,727
7 Claims. (Cl. 99—175)



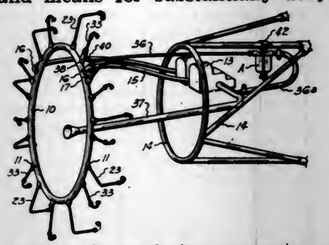
3. The method of closing a sausage casing with an independent cord which consists in forming a bight in the cord, folding the casing to embrace said bight, wrapping a strand of the cord around the casing to thereby close the casing, passing a portion of said strand through the material of the casing and through said bight, and tensioning the cord to form a knot.

2,322,448

IGNITION DISTRIBUTION SYSTEM

Charles J. Johnson, Dallas, Tex., assignor to Braniff Airways, Incorporated, Oklahoma City, Okla., a corporation of Oklahoma
Application August 21, 1941, Serial No. 407,777
8 Claims. (Cl. 123—148)

1. In combination with the ignition system of an internal combustion engine, means for enclosing the system, means for maintaining the air pressure within said enclosing means substantially equal to the surrounding atmospheric pressure, and means for substantially dehydrating

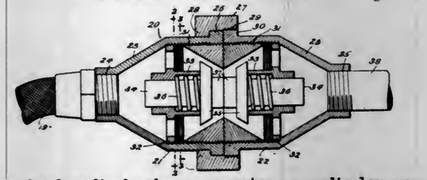


the air within the enclosing means to provide a moisture free air.

2,322,449

BRAKE APPARATUS FOR RAILWAY CARS

William Toggy Johnson and Marion Lucille Farrell, Dwight, Ill.
Application October 1, 1941, Serial No. 413,208
1 Claim. (Cl. 284—18)

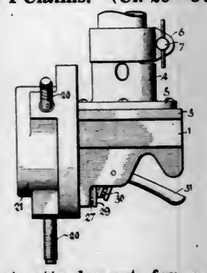


In hydraulic brake apparatus, a cylinder connection including detachably connected valve sections, opposed seats adjustably mounted in the respective sections, opposed valves in the respective sections, a guide adjustably and removably mounted in each section, each guide constituting an adjustable stop for the valve when opened, coiled springs housed in the guides and engaging the respective valves for holding the valves pressed together, each valve constituting means for holding the other valve off of its seat while the sections are connected and the valves in contact with each other and each guide being proportioned to prevent complete compression of the spring therein.

2,322,450

MULTIPLE SPINDLE TURRET ATTACHMENT FOR MACHINE TOOLS AND THE LIKE

Robert A. Johnstone, Aurora, Ind.
Application July 9, 1941, Serial No. 401,679
4 Claims. (Cl. 29—57)



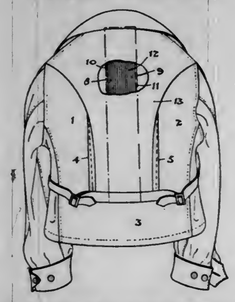
2. A turret attachment for a machine tool, power driven hand tools and the like, comprising: a turret stock applicable to the end of a spindle support of the machine tool, a pair of parallel shafts in gear connection, journalled in said stock, one constituting a driving shaft and the

second a driven shaft, the driving shaft arranged for coupling with the spindle of the machine tool, a turret head rotatably mounted on said stock and about said driven shaft, journalling a plurality of radially extending spindles each adapted to be selectively brought into coaxial position with said driven shaft, and means for locking the turret head against rotation with a selected one of the spindles thereof in registration with said driven shaft, and simultaneously therewith coupling the turret spindle to said driven shaft.

2,322,451

GARMENT

Frank Jones, Toronto, Ontario, Canada
Application May 9, 1941, Serial No. 392,617
In Canada September 21, 1940
1 Claim. (Cl. 2—93)

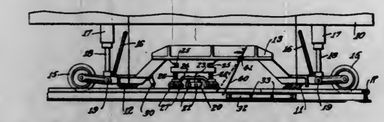


A garment having the back formed of sections secured throughout the full length of the shoulder seams and having their inward longitudinal edges parallelly spaced apart centrally of the garment and extending downwardly from the neckband to the waist, a covering medium forming an integral part of the garment being secured at the shoulder seams and neckband and loosely bridging the space between said spaced back sections, and a strip of elastic material having its longitudinal edges sewn to the spaced longitudinal edges of said back sections and having the ends secured to the neckband and to the waist, said elastic material being extensible solely in the transverse direction of the garment.

2,322,452

RAIL FLAW DETECTOR MECHANISM

George Lester Jones, Garden City, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York
Application August 19, 1941, Serial No. 407,391
9 Claims. (Cl. 175—183)

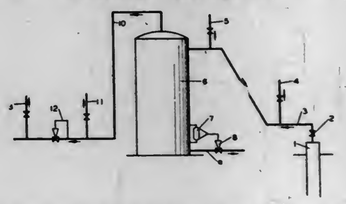


1. In a rail flaw detector car adapted to travel over rails connected by joints, means for establishing an electromagnetic field surrounding the rail, means responsive to variations in said field caused by defects in the rail, said means responding also to variations in said field caused by said joints, cutout means carried by said detector mechanism in advance of said responsive means and adapted to cooperate with said joints, means for short-circuiting the output of said responsive means, means whereby said short-circuiting means is rendered effective when said cutout means is in cooperative relation to said joints, means for maintaining said short-circuiting means effective for a predetermined length of time after said cutout means has passed out of cooperative relation to said joint, and means responsive to the speed of the car along the rails for varying the predetermined length of time in inverse ratio to the speed.

2,322,453

APPARATUS FOR CONTROLLING OIL WELLS

Herman H. Kaveler, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 23, 1940, Serial No. 357,998
8 Claims. (Cl. 166—2)

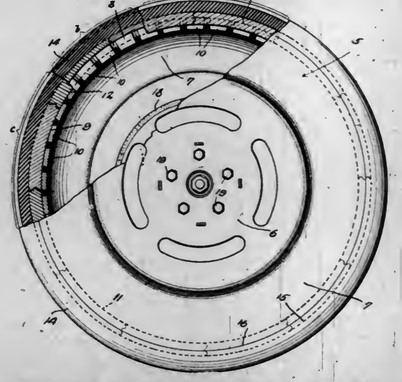


1. Apparatus for controlling the withdrawal of fluid including gas and oil through a well bore comprising means associated with the well and actuable by variations in the specific gravity of said gas, and means responsive to actuations of said means for controlling the flow of well fluid whereby the gas-oil ratio of fluid withdrawn from the well is not permitted to exceed a predetermined maximum.

2,322,454

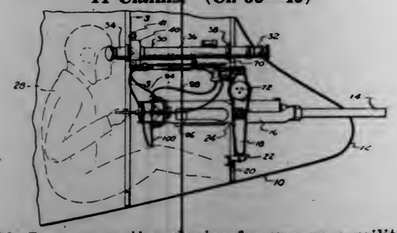
RESILIENT WHEEL CONSTRUCTION

Zachariah E. Keough, Mansfield, Ohio
Application March 5, 1942, Serial No. 433,500
8 Claims. (Cl. 152—12)



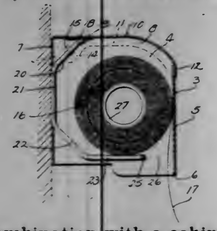
1. A resilient wheel comprising disk-like sections constructed of spring steel material, and formed with hub sections and bulged portions adjacent to the outer edges thereof, the sections being secured together at the hub portions thereof, inwardly extended flanges formed at the outer edges of the disk-like portions, providing a felloe, said flanges having annular grooves formed therein, a tread band having enlargements, fitted in the annular grooves, a central annular enlargement formed on the tread band and resting between the adjacent edges of the flanges in contact therewith, holding the flanges spaced apart, and a rubber tread member secured on the tread band, adapted to secure the tread band in position.

2,322,455
GUNNERY CORRECTION DEVICE
Wolfgang B. Klemperer, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application October 15, 1940, Serial No. 361,213
11 Claims. (Cl. 33—49)



11. In a correction device for use on a military vehicle, a gun sight fixed to said vehicle, a movable gun, means within the fixed sight movable relative to the optical sight axis by aiming movements of the gun for indicating to a gunner the point at which the gun is aiming in its field of fire, a member mounted on said gun for universal directional movement relative thereto, articulated means attached to one end of said member, and mechanism connected to said articulated means and to said movable means within the fixed sight for transmitting motion to said movable means in response to any directional displacement of said universally mounted member

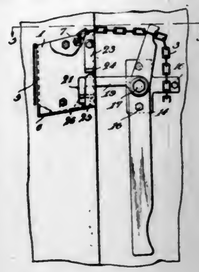
2,322,456
DISPENSING CABINET FOR ROLLED WEBS OF PAPER AND THE LIKE
Albert G. Krueger, Green Bay, Wis., assignor to Alwin Manufacturing Company, Green Bay, Wis., a corporation of Wisconsin
Application September 2, 1941, Serial No. 409,175
7 Claims. (Cl. 242—55.5)



1. The combination with a cabinet and a cover in pivotal connection therewith, of a roll support comprising a bracket connected with the cover independently of the cabinet and having arms extending around the rear side of the roll receiving portion of the cabinet and underneath such space to provide a shelf-like mounting for the roll, said cabinet having an opening in its lower portion through which withdrawals may be made.

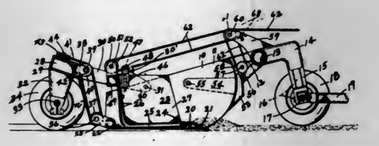
2,322,457
SLIDING DOOR OPERATING AND LATCHING DEVICE
Homer C. Lanctot, Anson, Maine
Application July 28, 1941, Serial No. 404,398
2 Claims. (Cl. 268—44)

1. A device for closing a door mounted for horizontal sliding movement, comprising a housing mounted adjacent the door opening, a chain adapted to be received by said housing and having one end secured therein and passing out through the opening, a pivot mounted on the door in horizontal alignment with the housing, a lever mounted on said pivot having a short angular arm adapted to enter the links of the chain, a sleeve mounted on the pivot beyond the lever



and provided with an integral laterally extending latch at its outer end, and a keeper carried by the outer face of the housing and adapted to receive the latch when the door is moved in closed position by the operation of the lever.

2,322,458
SCRAPER
Charles Le Bleu, Los Angeles, Calif.
Application March 5, 1940, Serial No. 322,303
17 Claims. (Cl. 37—126)

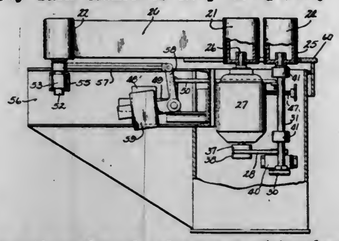


1. In a machine of the character described, a main frame supported adjacent an end thereof for tilting movement in a vertical plane, a main bowl pivotally supported for vertical tilting movement concentrically about a horizontal pivot fixed on said main frame and including a bottom wall, a secondary frame supported adjacent an end thereof for tilting movement in a vertical plane, the free end of said secondary frame being arranged relative to the free end of said main frame and pivotally connected thereto, operatable control means for tilting said main and secondary frames for raising and lowering said bowl so as to selectively dispose the same in a loading or a carrying position, and said secondary frame being arranged and adapted to act upon said bowl so as to swing the same about its pivotal mounting in a direction maintaining said bowl bottom in a substantially horizontal position during the tilting movement of said frames.

2,322,459
FINISHING AND POLISHING EQUIPMENT
Carl J. Lippold, Wauwatosa, Wis., assignor to J. M. Nash Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 12, 1940, Serial No. 352,181
8 Claims. (Cl. 51—139)

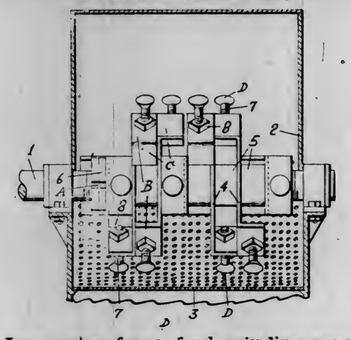
7. A finishing and polishing machine, having in combination a work table, a set of abrading and feed controlling elements mounted at one side of said table and adapted to engage pieces of work between them under predetermined pressure, said table being interposed between said

elements and all other portions of the machine, whereby said elements may completely control



the direction of work advancement in planes parallel to the table.

2,322,460
ROTOR FOR FEED GRINDING MACHINES
Henry J. Mankoff, Wichita, Kans.
Application January 12, 1942, Serial No. 426,441
3 Claims. (Cl. 83—11)



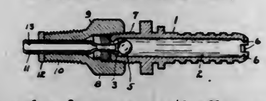
1. In a rotor for a feed grinding machine, a shaft, a series of bars rockably carried on the shaft to spirally position their outer extremities throughout the series as positioned for consecutive engagement as the rotor turns, spacing means for the bars, and lock nuts to threadedly engage on the shaft to bind the bars and spacing means together and rotatable with the shaft, each bar having an outer portion thereof bent at right angle to the bar body, said bent portions oppositely extending and having a web to brace the same, said right angle portions being apertured, and a hammer having a cylindrical threaded shank to engage in each aperture and lock nuts to secure the hammer against longitudinal movement and at a desired extension from its respective bent portion.

2,322,461
COSTUME JEWELRY
Florence Mariano, Chicago, Ill.
Application November 12, 1941, Serial No. 418,701
3 Claims. (Cl. 63—3)



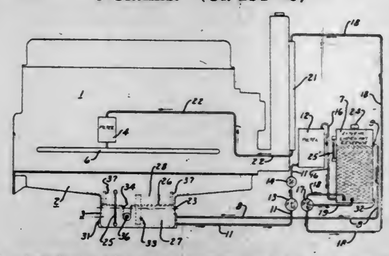
2. In a bracelet, a plurality of series of beads, the beads of the different series being supported on flexible members, respectively, of substantially the same length, beads of each series being inscribed on one side thereof with a series of related legends, respectively, and means for maintaining said several series of beads in close relationship, the beads of each series being so mounted as to permit any desired bead to be positioned with the legend thereon displayed outwardly and the different series of beads to be moved relative to each other to permit the displayed legends to be positioned adjacent to each other.

2,322,462
CHECK VALVE
Ronald E. Marquardt, Monroeville, and Harry R. Anspach and Clarence A. Croteau, Fort Wayne, Ind.
Application August 15, 1941, Serial No. 407,028
1 Claim. (Cl. 284—18)



A check valve for pneumatically operated devices comprising two fluid conducting members one of which is internally threaded at one end, and adapted to be connected to the device, and the other of which is externally threaded at one end and adapted to be connected to a source of fluid supply under pressure, the externally threaded portion of the latter member being adapted to be adjustably engaged by the internal threads on the other member for coupling said members together, a seat within the externally threaded member adjacent to its discharge end, a ball within said member adapted to engage said seat, means at the opposite end of said member to prevent escape of the ball therefrom and a longitudinally grooved stem adjustably threaded through the discharge end of the internally threaded member and adapted to engage and unseat the ball said stem projecting from the outer end of the latter member for ready adjustment and the grooves therein forming fluid communications between the discharge ends of the two members.

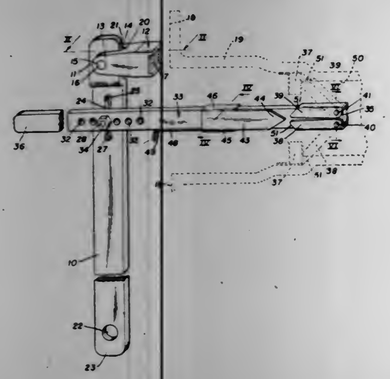
2,322,463
LUBRICATING SYSTEM
Allen T. McDonald, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application May 7, 1940, Serial No. 333,733
3 Claims. (Cl. 184—6)



1. A lubricating system for an engine having a crankcase comprising an exterior lubricant reservoir, piping between said crankcase and said reservoir having pumping means connected therein for continually transferring lubricant from said crankcase to said reservoir, piping having a connection with said reservoir and a connection with said crankcase through which lubricant in said reservoir overflows by gravity into said crankcase to provide continuous transfer of lubricant from said reservoir back to said crankcase and maintain a supply of lubricant in

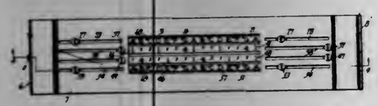
said crankcase at a level above the point of connection of said first mentioned piping to preclude aeration of said lubricant, and means including pumping means for transferring lubricant from said reservoir to engine mechanism to be lubricated.

2,322,464
GREASE RETAINER PULLER AND THE LIKE
Earl A. McKee and Joseph A. Schachtell, Chicago, Ill.
Application March 18, 1940, Serial No. 324,492
2 Claims. (Cl. 29—88.2)



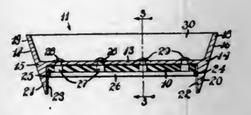
1. In a puller device, the combination with a flat bar member, of grippers pivotally mounted to said flat bar member on opposite sides thereof, each of said grippers having an angular cross section providing at least two side faces overlying two sides of said bar, one side face of each of said grippers overlying the same side of said bar and providing opposed edges at that side of said bar in their collapsed position, slidable means on said flat bar member having a surface adapted to wedge between said opposed edges to spread said grippers from their collapsed position, handle means pivotally connected to said flat bar member for affecting the displacement thereof relative to another member, and an engaging element on said pivotally connected displacing handle means for more effectively operating said gripper mounted flat bar member and said grippers.

2,322,465
MUSIC DEVICE
Sergei Mihailoff, San Francisco, Calif.
Application February 14, 1942, Serial No. 430,891
9 Claims. Cl. (84—485)



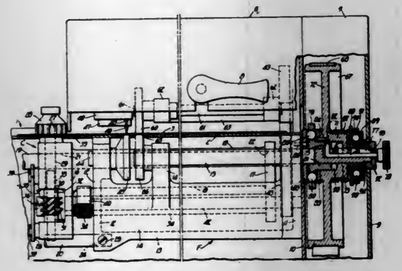
1. A music device comprising a frame having a window therein, a transparent slide movable on said frame beneath said window, said slide having indicia thereon representing the notes in a musical scale, and a tape movable on said frame beneath said slide, said tape having indicia thereon representing accidentals in a musical scale.

2,322,466
BELT
William R. Perry, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ohio, a corporation of Indiana
Application June 21, 1941, Serial No. 399,045
9 Claims. (Cl. 74—236)



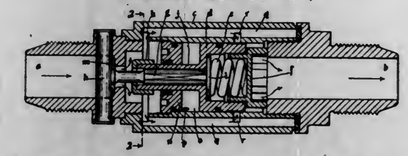
1. A belt comprising a body strand of material of high tensile strength but readily flexible both longitudinally and laterally, and a plurality of longitudinally-spaced, transversely rigid stiffener blocks secured to said body, each of said blocks comprising a transverse beam integrally carrying members at its opposite ends formed to present oppositely facing surfaces allochirally angularly related to a plane perpendicular to said beam, and one surface of said beam lying in parallelism with a surface of said belt body, a clamp plate lying in parallelism with the opposite surface of said belt body, means clamping said plate and beam together to grip said belt body, said faces projecting materially above and below said belt body and said clamp plate, and cooperating means on said plate and said end members for transmitting forces longitudinally of said belt body between said plate and said end members.

2,322,467
SOUND RECORDING AND REPRODUCING DEVICE
Barton A. Proctor, Larchmont, N. Y., assignor to B. A. Proctor Company, Inc., New York, N. Y., a corporation of New York
Application October 30, 1941, Serial No. 417,072
12 Claims. (Cl. 274—9)



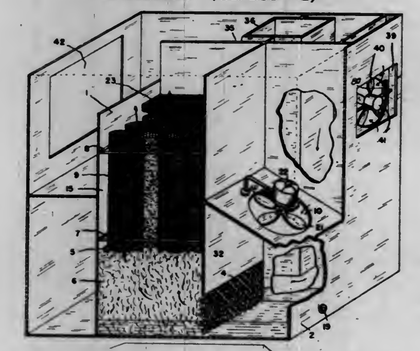
1. In a sound translating device, in combination, a rotatable feed wheel arranged to directly engage the surface of a thin disc record to rotate the record, a rotary member, driving connections between the rotary member and said feed wheel, a manually operated control means arranged in a first position thereof to cause the driving connections to rotate the feed wheel at the same speed as the rotary member and in a second position thereof to cause said driving connections to rotate the feed wheel at a speed different from that of the rotary member, a stylus engaging the surface of the record and means comprising a movable record carriage arranged to progressively change the distance between the said feed wheel and stylus on the one hand and the center of the record on the other.

2,322,468
PRESSURE REDUCING VALVE
Charles Benjamin Redrup, Middleton, Manchester, England, assignor to A. V. Roe & Company Limited, Middleton, Manchester, England, a British company
Application July 29, 1942, Serial No. 452,783
In Great Britain July 2, 1941
1 Claim. (Cl. 50—35)



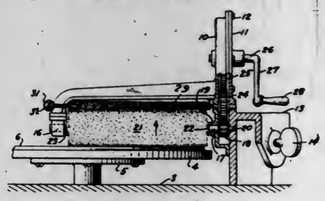
A pressure reducing valve comprising, in combination, a casing with a cylindrical bore therethrough and tubular passages in the wall of the casing communicating with the bore towards its opposite ends, a piston in said bore including a head and a stem, a fixed guiding and division wall in said bore through which the piston stem passes, means for placing the space between said wall and the piston head under atmospheric pressure, a fluid inlet to the center of one end of said bore and registering with and constructed and arranged to be restricted by the adjacent outer end of the piston stem, a fluid outlet from the other end of said bore and adjacent the outer face of the piston head and communicating with the tubular passages by a clearance between a part of the piston head and the wall of the bore of the casing, an abutment in the fluid inlet, a strut extending co-axially through the piston stem and bearing at one end upon said abutment, and a spring within the piston head and exerting pressure upon the other end of said strut and acting to oppose the outlet pressure.

2,322,469
APPARATUS FOR AIR CONDITIONING
Aubrey H. Robson, Detroit, Mich.
Application September 12, 1939, Serial No. 294,518
4 Claims. (Cl. 183—4)



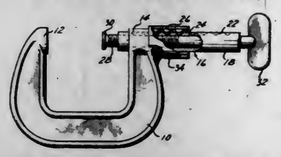
1. Dehydrating means comprising in combination with means for guiding air to be treated, a plurality of independent reticulated tubular containers arranged in substantially vertical, parallel and spaced relation and each adapted to contain a quantity of deliquescent material, said guiding means being arranged to direct air over and through the spaces between said containers, a covering member for said containers arranged over the open tops thereof, pervious to air, and having individual openings therein registering with the open tops of said tubular containers, said covering member being sufficiently dense to support deliquescent material placed thereupon during charging, said parts being arranged in such manner that excess deliquescent material may be brushed from the covering member into the tubular containers.

2,322,470
ROTARY BRUSH
Juan José Rojas, San Francisco, Calif.
Application October 1, 1941, Serial No. 413,133
1 Claim. (Cl. 274—47)



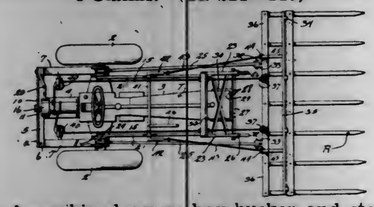
A disc sweeper for recording machines, comprising a clamp adapted to engage the cabinet of the recording machine and having an arm extending laterally therefrom above the plane of said disc and having a bracket and a lug thereon; manual brush driving means on said clamp; a rotary brush journaled on said arm in contact with said disc and detachably engaging said driving means; a scavenging brush in contact with said rotary brush and detachably mounted on said bracket and lug.

2,322,471
QUICK ACTING CLAMP
Robert D. Robertson, Santa Monica, Calif.
Application November 4, 1940, Serial No. 364,260
2 Claims. (Cl. 144—305)



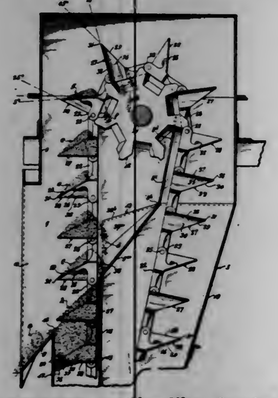
1. In a clamp: a body member; a stationary jaw fixed to said body member; a bearing carried by said body member opposite said stationary jaw; an internally threaded cylinder rotatably carried by said bearing member having a longitudinally extending groove in the outer surface thereof and having pockets in spaced relation along one side of said groove and inclined forwardly away therefrom, at least one through opening being formed in said bearing; a detent carried by said bearing in said opening, said detent being adapted to slide in said cylinder groove in one position of said cylinder and to engage one of said pockets when said cylinder has been rotated to another position; a sleeve slidable over said bearing and opening to hold said detent therein; a bowed and threaded shaft in said cylinder, the bowing of the shaft affording a slight binding relation between said shaft and cylinder, whereby rotation of said shaft in one direction will turn the cylinder to position the detent in one of its pockets and rotation of said shaft in the opposite direction will position the detent in said groove; means to adjust said bowed and threaded shaft relative to said cylinder when said cylinder is locked by engagement of said detent with one of said pockets, and a jaw carried by said shaft at its inner end.

2,322,472
COMBINED POWER HAY BUCKER AND STACKER
Rubin Sandvig, Brooten, Minn.
Application August 2, 1941, Serial No. 405,234
3 Claims. (Cl. 214—140)



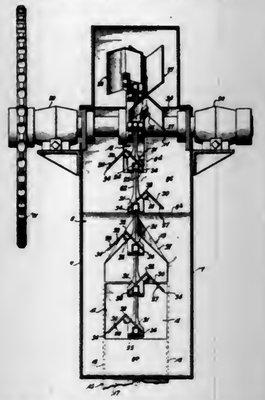
1. A combined power hay bucker and stacker comprising a platform for rigid connection with the rear portion of the body of a tractor to extend rearwardly from the tractor, a transversely disposed member carried by the outer end portion of the platform and extending beyond opposite sides thereof, side arms secured to the extremities of the cross member, said arms being of a length to underlie the housing for the rear axle of the tractor, upstanding plates carried by the portions of said arms underlying the housing and through which the housing is disposed, a boom frame for mounting upon the forward portion of the tractor, means for securing said boom frame to the forward portion of the tractor, said means being so constructed and arranged to permit up and down adjustment of the frame with respect to the tractor, sweep rake beams pivotally engaged with the upstanding plates of the arms, said beams being of a length to extend in advance of the boom frame mounted upon the forward portion of the tractor, a sweep rake in advance of the boom frame, the forward end portions of the beams being pivotally connected with the sweep rake, a winding drum mounted upon the platform and for driven connection with a driving part of the tractor, and flexible members winding upon the drum and guided over the upper portion of the boom frame and operatively engaged with the sweep rake, winding of the flexible members upon the drum raising the sweep rake.

2,322,473
CONVEYER
William W. Sayers, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois
Application March 5, 1941, Serial No. 381,914
9 Claims. (Cl. 198—168)



1. In a conveyer, or the like, for transporting flowable solid materials in bulk, the combination with a casing leg having an inner wall and a single transmission chain adapted to travel a path adjacent said wall, of a plurality of flights spaced along said transmission chain and attached thereto to project away from said casing wall, said flights each having a marginal notch to accommodate the transmission chain and being shaped to provide a material moving surface that is formed entirely of a plurality of surface portions which are inclined rearwardly of their direction of travel and in a plurality of angularly arranged directions with respect to the transmission chain and with the most advanced edges of said portions defining said notch, which the trailing edges are all arranged in a common plane which is normal to the path of travel of the transmission chain.

2,322,474
CONVEYER
William W. Sayers, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois
Application April 28, 1941, Serial No. 390,797
17 Claims. (Cl. 198—168)



1. In a conveyer, or the like, for transporting flowable solid materials in bulk, a flexible transmission member, and a series of flights spaced along said member and attached thereto to project from only one side thereof, the adjacent flights of said series being arranged so as to only partially overlap in the direction of travel of the transmission member, each of said flights having its entire exterior material moving surface formed of two portions which are angularly arranged with respect to each other, each one of said flights of the series having one surface portion which is inclined with respect to the direction of travel of the flights, certain of the flights of the series having their second surface portion normal to said direction, the remaining flights of the series having their second surface portion also inclined with respect to the direction of travel of the flights.

2,322,475
ENOLIC DERIVATIVES OF STEROIDS AND A METHOD OF MAKING THE SAME
Walter Schoeller, Berlin-Charlottenburg, and Hans-Herloff Inhoffen, Berlin-Wilmersdorf, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application May 27, 1939, Serial No. 276,216. In Germany June 1, 1938
11 Claims. (Cl. 260—397.4)

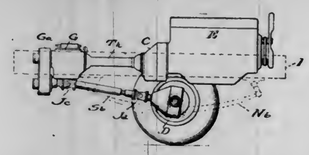
1. A compound of the class consisting of enolic ester, ether, halogen and metal derivatives of steroid compounds having attached to the 17-carbon atom a side chain having an oxo group and a member of the group consisting of a further oxo group at the carbon atom neighboring the first oxo group, a hydroxy group and groups convertible thereinto with the aid of hydrolysis.

2,322,476
SAFETY RAZOR
Charles Sobleskie, Jessup, Pa.
Application September 1, 1942, Serial No. 456,912
3 Claims. (Cl. 30—70)



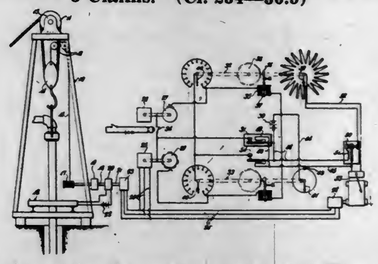
3. In a safety razor having two co-mating curvilinear members and means for drawing said members together to conform a thin razor blade between them to their shape, one of said co-mating members formed of thin gauge sheet metal with a centrally positioned depressed annular boss having a central hole and longitudinally aligned reinforcement grooves of uniform width and on opposite sides of said annular boss, with longitudinally aligned spaced ribs on the other member adapted to engage in said grooves.

2,322,477
MOTOR VEHICLE
Thor Sjoberg, Alhambra, Calif., assignor of one-half to Neild H. Osburn, Pasadena, Calif.
Application November 8, 1940, Serial No. 364,919
1 Claim. (Cl. 180—54)



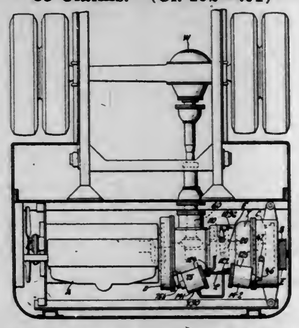
In a motor vehicle, the combination of a chassis, a rear wheel and axle assembly including a differential gearing for driving said axle, spring means for mounting said chassis upon said rear wheel and axle assembly, a motor mounted upon said chassis substantially entirely to the rear of said axle, a clutch mounted upon said motor and forming a unit therewith, a change-speed gearing mounted upon said chassis forwardly of said axle, a torque tube connecting the housing of said clutch to the housing of said change-speed gearing and forming a housing for a drive shaft connecting said engine to said change-speed gearing, a fixed-ratio transmission gearing supported at the forward end of said change-speed gearing and being driven by said change speed gearing, and a flexible driving connection extending rearwardly from said fixed-ratio gearing to said differential gearing.

2,322,478
WELL SURVEYING METHOD AND APPARATUS
Serge Alexander Scherbatskoy, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application May 28, 1940, Serial No. 338,548
3 Claims. (Cl. 234—36.5)



3. Apparatus to measure rate of drilling of a well bore that comprises means for generating a first series of uniformly pulsating electrical timing signals; means for generating a second series of electrical signals corresponding to unit increments of drilling; means actuated by said second series of electrical signals in accordance with the number of units of depth drilled; means actuated in accordance with the number of said first electrical signals occurring during the time required to progress said units of depth, means for interrupting both of said series of electrical signals; means movable in accordance with the depth of the drilling operations; and means for recording the number of units of depth drilled and the number of said timing signals in correlation with depth.

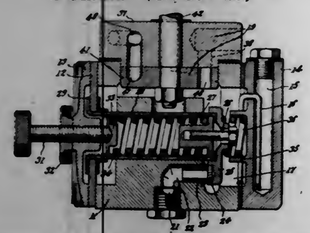
2,322,479
TORQUE CONVERTER INTERLOCKING CONTROL, AUTOMATIC
Hans O. Schjolin, Pontiac, Mich., assignor, by mesne assignments, to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a corporation of Maine
Application September 1, 1938, Serial No. 227,926
35 Claims. (Cl. 192—.01)



1. In combination, an engine connected to a power shaft, a load shaft, an accelerator pedal controlling the speed of said engine, a variable speed transmission comprising a fluid torque converter adapted to transmit drive between the shafts, clutching means for connecting said transmission to drive therebetween, further clutching means for connecting said shafts directly when said first named means is disconnected, fluid servo motor devices for operating both said means, control mechanism including a

speed responsive governor for selecting the operation of said devices upon said means, and means operable upon predetermined motion of said pedal whereby said mechanism is caused to change the drive from the second to the first of said means.

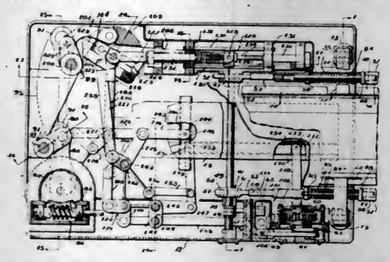
2,322,480
PRESSURE-REDUCING VALVE UNIT
Cosby Donald Philipps Smallpeice and Charles Edward Curzons, Marton, near Rugby, England; said Curzons assignor to said Smallpeice
Application August 6, 1941, Serial No. 405,712
In Great Britain June 19, 1941
1 Claim. (Cl. 50—23)



A pressure reducing valve unit comprising a body of substantially cubicle form and having a chamber in its interior, said chamber opening through two opposite walls of the body, a diaphragm disposed across one of the open walls of the body and closing said open wall, said diaphragm having a substantially central opening therethrough, a cover plate secured to said diaphragm carrying wall of the body and securing the diaphragm in position, a tubular member having one end secured to the diaphragm with its bore coinciding with the opening in the diaphragm and being slidably supported in said body, said body having an inlet port disposed adjacent the tubular member at one side thereof, a bracket carried by the tubular member and having a pressure-drop valve movable with said tubular member to close and open said inlet port, a second cover plate closing the other open wall of the body, a spring carried by the second cover plate and engaging the tubular member and bracket to urge the bracket and its valve to the closed position of the valve, a stronger spring disposed within said tubular member, a tension adjusting member extending through said first named cover plate and diaphragm and engaging the spring within the tubular member, said stronger spring being opposed to the first named spring and urging the tubular member, bracket and valve to the open position of the valve, said tension adjusting member extending exteriorly of the body and cover plate, said second cover plate being removably secured to the body and having a lubricant chamber therein accessible from the exterior of the body, and a wick extending through the cover plate into the body chamber.

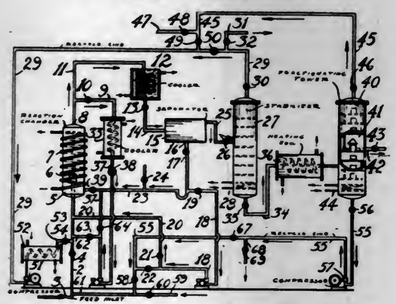
2,322,481
LOADING DEVICE
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 26, 1942, Serial No. 432,436
27 Claims. (Cl. 198—14)

1. In a loading device of the class described, a base, a trough section mounted on said base for reciprocable movement with respect thereto, a shovel on the forward end of said reciprocating trough section for picking up loose material from the ground, and means for moving said base along the ground and for feeding said shovel into the material it is desired to load comprising a propelling weight on said base and means for



reciprocably moving said propelling weight along said base in a transverse or longitudinal direction with respect thereto and in a definite phase relation with respect to said reciprocating trough section and shovel.

2,322,482
PRODUCTION OF MOTOR FUELS BY ALKYLATION
Eldon E. Stahly and Erwin M. Hattox, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 30, 1938, Serial No. 248,422
10 Claims. (Cl. 196—10)

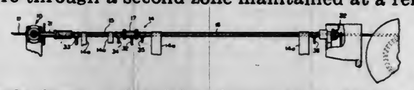


1. In a process which comprises reacting a mono-olefin and a paraffinic hydrocarbon containing at least one tertiary carbon atom per molecule to produce alkylated hydrocarbons, the improvement which comprises introducing into the reaction mixture a fraction of a previously formed product of said reaction taken from the group consisting of a normally liquid fraction boiling below that of the ultimately desired final product and a fraction composed of hydrocarbons boiling below that of the ultimately desired final product with hydrocarbons boiling above that of the ultimately desired final product.

2,322,483
METHOD FOR MANUFACTURING INSULATED WIRE
John R. Stricklen, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application September 7, 1940, Serial No. 355,794
4 Claims. (Cl. 18—53)

1. The method of manufacturing insulated wire or the like which comprises progressively feeding a continuous core coated with vulcanizable material through a vulcanizing zone maintained at

sufficiently high temperature to form a hardened surface or skin on said coating, and passing said core through a second zone maintained at a rela-

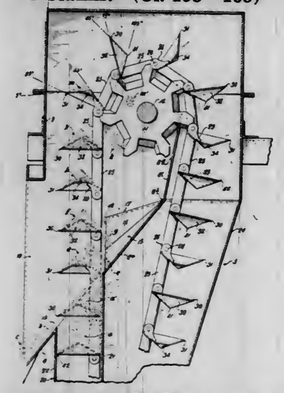


tively lower vulcanizing temperature than said first zone to complete the vulcanization of said coating.

2,322,484
METHOD FOR REMOVING MUD SHEATHS
Robert W. Stuart, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
No Drawing. Application September 20, 1940, Serial No. 357,613
5 Claims. (Cl. 252—8.55)

1. A method of completing an oil or gas well comprising washing said well with a concentrated aqueous solution of a phosphate, said solution containing at least 3% of said phosphate, to disintegrate a mud sheath present in said well.

2,322,485
CONVEYER
Harry Louis Strube, Philadelphia, Pa., assignor to Link-Belt Company, a corporation of Illinois
Application April 23, 1941, Serial No. 389,975
14 Claims. (Cl. 198—168)

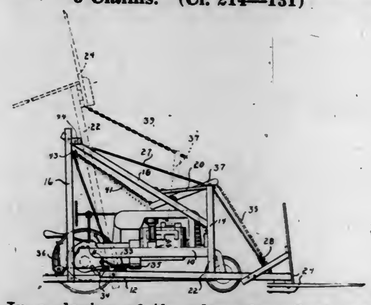


1. In a conveyer, or the like, for transporting flowable solid materials in bulk, a transmission chain, and a plurality of flights spaced along said chain and individually attached to the links to project from only one side thereof, all of said flights being shaped to provide exterior material moving surfaces having vertexes which are aligned in the direction of travel of the flights and are spaced from the axis of the transmission member, each one of said flights having four angularly arranged outer marginal edges which are separated from their vertex by inclined surface areas.

2,322,486
PROCESS OF CURING ZEIN
Lloyd C. Swallen, Villa Park, Ill., and Albert L. James, Tenafly, N. J., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application August 3, 1940, Serial No. 351,090
16 Claims. (Cl. 260—123)

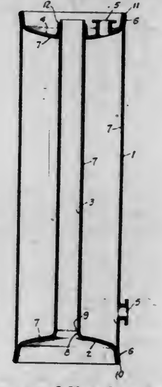
4. Process of curing zein which comprises introducing into a zein solution an aldehyde and an acid to accelerate the reaction between the aldehyde and the zein together with a secondary accelerator consisting of a substance having the formula RNH_2 in which R is a member of the group consisting of hydrogen and the alkyl radicals.

2,322,487
SWEEP RAKE STACKER AND LOADER
Joseph A. Toftey, Kanawha, Iowa
Application July 8, 1940, Serial No. 344,401
3 Claims. (Cl. 214—131)



1. In a device of the class described, a frame member designed to be mounted on a tractor, a shaft rotatably mounted in said frame and operatively connected to the power take-off of the tractor, a drum member on said shaft, a vertical guide track on said frame, a sweep rake assembly comprising a toothed rake and arms, a means for pivotally securing said arms to said frame so that said arms will rest adjacent said guide track, pulleys mounted on said vertical guide member, a rope wound upon said drum extending over said pulleys and secured to said sweep rake whereby the rotation of said shaft will elevate said sweep rake, a pivoted arm member secured to said vertical guide track, a spring element imposed between one end of said arm and said frame, and a chain member secured between the other end of said pivoted arm and said toothed rake for returning said toothed rake to a lowered position after said toothed rake has reached its discharge position.

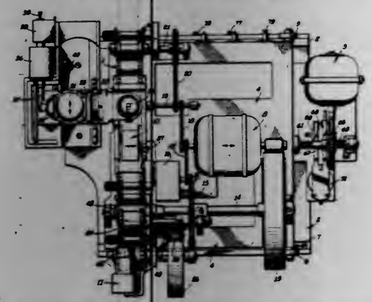
2,322,488
GLASS LINED HOT WATER TANK
Otto E. Uecker, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 6, 1940, Serial No. 333,628
3 Claims. (Cl. 122—17)



1. A ceramic enamel lined water heater storage tank constructed of parts assembled after enam-

eling, comprising a cylindrical shell member lined with ceramic enamel, end heads lined with similar enamel, and a cylindrical flue member extending longitudinally in said shell and connecting said end heads, the outer surface of said flue member being coated with ceramic enamel, at least one of said heads and one of said cylindrical members being integral and merged with one another along smooth lines without sharp corners tending to injure the enamel and having their enamel coatings extending continuous and unbroken over the surface thereof exposed to liquid in the tank, and the remaining members being welded together along lines at the outer edges of overlapping lined sections thereof and substantially removed from the body of the tank where injury to the enamel lining by welding is avoided.

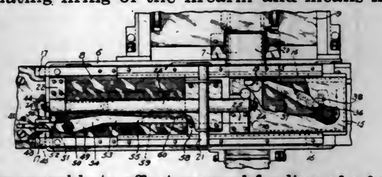
2,322,489
SELECTIVE PROJECTOR AND SOUND REPRODUCER
Ferdinand von Madaler, Los Angeles, Calif.
Application April 18, 1941, Serial No. 389,182
9 Claims. (Cl. 88—16.2)



1. A combined picture projector and sound reproducer, including: a stationary base; a movable carriage on said base; a continuous reel of film provided with a plurality of longitudinally extending, transversely adjacent picture areas, said film also carrying a plurality of longitudinally extending sound recordings corresponding in number to the number of motion pictures on said film, said sound recordings being in parallel relation to each other adjacent one edge of the film; a reproducing pickup on said carriage; a motor operably associated with a film moving means mounted on said carriage and adapted to move film from said reel and through said reproducing pickup; a stationary projector assembly in operative relation with film on said film moving means; motor means for moving the carriage to place a desired longitudinally extending picture area in projecting relation to the projector assembly; movable masking means in operative relation to the reproducing pickup and means for moving said masking means in timed relation to the movement of said carriage to selectively reproduce the sound record corresponding to the selected picture area, the extent of movement of the masking means being smaller than the extent of movement of the carriage.

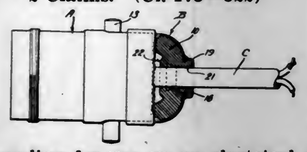
2,322,490
TRIGGER SAFETY FOR AUTOMATIC FIREARMS
George Webb, Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application May 22, 1941, Serial No. 394,683
10 Claims. (Cl. 89—27)

1. A safety device for an automatic firearm including a breech casing having a feed channel extending therethrough and containing cartridge feeding mechanism adapted for automatic actuation during the firing of the firearm to move a feeder assembly through the feed channel and the firearm also including a trigger movable for initiating firing of the firearm and means man-



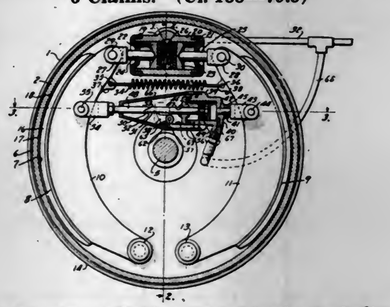
ually movable to effect manual feeding of a feeder assembly into said feed channel, said safety device comprising means mounted on the firearm and adapted to be engaged by the trigger upon actuation thereof to maintain said device in a position to engage the manual feeding means and prevent feeding movement thereof.

2,322,491
ELECTRICAL COUPLING
Arthur L. Williams, Maywood, Calif.
Application December 1, 1941, Serial No. 421,128
2 Claims. (Cl. 173—322)



2. A coupling for use on an electrical conductor including a hollow coupling section having an opening, a fixed part associated with the section and to which the cord is attached, and a frusto-conical tubular member of flexible resilient material having a base flange which conforms to and bears on the internal surface of the coupling section around its opening, the apex portion of said member being turned back within itself so that the said member tightly grips the conductor and increases its grip on the conductor when the conductor is subjected to an outward pull to relieve said fixed part of such pull, the external surface of said apex portion being roughened to have more effective frictional engagement with the conductor.

2,322,492
AUTOMATIC BRAKE ADJUSTING MEANS
Harry O. Williams, Kansas City, Mo.
Application January 9, 1941, Serial No. 373,759
6 Claims. (Cl. 188—79.5)



2. A pressure fluid actuated brake including, a rotary member, braking elements supported in braking relation with the rotary member and having a predetermined normal working clearance therewith, pressure fluid actuated means for moving the braking elements into contact with the rotary member, means for supplying a pressure fluid to the pressure fluid actuated means, a cylinder member connected with one of the braking elements, a toothed rod connected with the other braking element, a piston on the toothed rod and operable in said cylinder member, means carried by the cylinder for engaging the teeth of said rod, and constantly open means connecting the pressure fluid supply for said pressure fluid actuated means with said cylinder to effect positive movement of the toothed rod and cylinder member upon actuation of the braking elements by said pressure fluid actuated means.

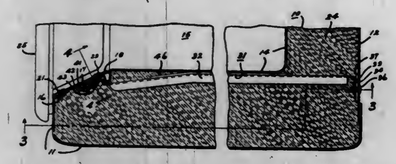
2,322,493
ARTICLE FOR USE IN THE TREATMENT OF LEAFY VEGETABLES
William H. Wilson, Santa Monica, Calif., assignor to Fruit & Vegetable Processing Co., Santa Monica, Calif., a corporation of California
No Drawing. Application September 16, 1940, Serial No. 357,028
4 Claims. (Cl. 99—193)

1. As an article of commerce for use in packing leafy vegetables, a fibrous sheet containing a sulpho compound, said compound being present in an amount sufficient to impart a content of not less than 1.5% SO_2 by weight to said sheet.

2,322,494
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Arthur F. Wirtel, Kirkwood, and Charles M. Blair, Jr., Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application April 27, 1942, Serial No. 440,752
6 Claims. (Cl. 252—340)

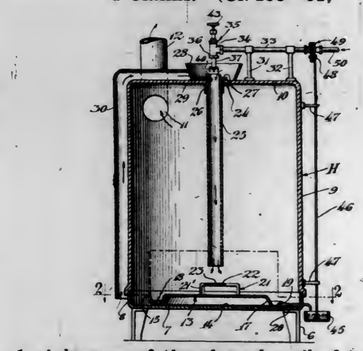
1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier comprising a hydroxyacetylated high molal detergent-forming monocarboxy acid compound; said compound, prior to hydroxyacetylation, being selected from the class consisting of acids containing at least one hydroxyl group as part of the high molal acyl radical, esters free from any hydroxyl group in the alcoholic residue, but containing at least one hydroxyl as part of the high molal acyl radical, and esters containing at least one hydroxyl group in the alcoholic residue; the acyl radical of said high molal acids having at least 8 and not more than 32 carbon atoms.

2,322,495
REFRIGERATING APPARATUS
Clifford H. Wurtz, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 24, 1940, Serial No. 362,628
3 Claims. (Cl. 220—15)



1. A refrigerator construction comprising in combination, a frameless cabinet having metallic outer walls and an inner metallic member spaced from said outer walls and forming walls of a food storage compartment within said cabinet, an outer wall of said cabinet having an aperture therein, said compartment wall-forming member having an aperture therein registering with the aperture in said cabinet outer wall and providing an access opening for said food compartment, an element secured to and overlapping the edge of said cabinet outer wall at the aperture therein, said element also being secured to and overlapping the edge of said compartment wall-forming member at the aperture therein to form a wall for said compartment access opening, insulating material in the space between said compartment wall-forming member and said cabinet outer walls, and rigid cantilever reinforcing devices for supporting said compartment wall-forming member within said cabinet, said rigid devices extending along and bearing against opposite sides of said compartment wall-forming member, one end of each rigid device being secured to the cabinet outer wall opposed to the apertured wall thereof and the free end of each of said cantilever devices being attached to the edge portion of said compartment wall-forming member adjacent the aperture therein.

2,322,496
FUEL BURNER
Walter J. Workman, Chicago, Ill.
Application September 27, 1940, Serial No. 358,592
4 Claims. (Cl. 158—91)



1. A burner of the class described including a housing closed at the bottom in which a draft may be induced, a vaporizing plate adapted to be heated when the burner is in operation, a vertical pipe leading into said housing and having the lower end thereof arranged in vertically spaced relation with said vaporizing plate and having the upper end thereof disposed externally of said housing whereby air is drawn through said pipe when a draft is induced in said housing, said vaporizing plate comprising a flat portion horizontally supported by spaced legs and having a central opening substantially aligned with the vertical axis of said pipe for enabling a part of the air delivered through said pipe to pass beneath said flat portion and through the spaces between said legs, a duct located exteriorly of said housing for withdrawing cool air from the space around the bottom of the burner and arranged to discharge such air adjacent to the upper end of said pipe whereby at least a part of the air passing into said pipe is of relatively low temperature, and means for discharging liquid fuel into said pipe and including a plurality of spaced fuel discharge nozzles disposed at the upper end of said pipe and arranged about the

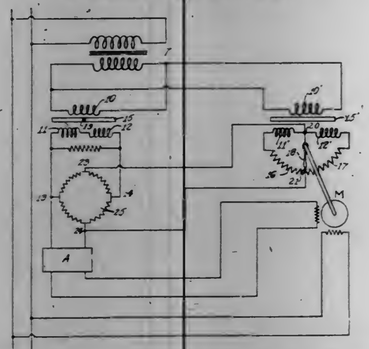
vertical axis thereof for thereby introducing the fuel into the air flowing through said pipe in such a manner that the fuel is carried to and distributed over said flat portion of the heated vaporizing plate to effect vaporization and efficient ignition thereof.

2,322,497
SKI ATTACHMENT
Fred Weinaug, Sheboygan, Wis.
Application June 4, 1942, Serial No. 445,777
3 Claims. (Cl. 280—11.13)



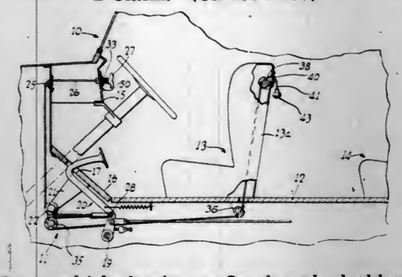
3. A ski attachment of the character described comprising a traction unit adapted to be mounted beneath a ski, said unit including a plurality of hingedly connected sections, said sections comprising pivotally connected side bars and further comprising pivotally connected traction members between the side bars, said unit still further including inwardly extending flanges on certain of the side bars engageable beneath the ski, and means for detachably securing the ends of the unit to the ski.

2,322,498
MEANS FOR GENERATING BALANCING SIGNALS
Alexander Zeitlin, New York, N. Y., assignor, by mesne assignments, to Sperry Products, Inc., a corporation of New York
Application January 7, 1942, Serial No. 425,946
8 Claims. (Cl. 172—239)



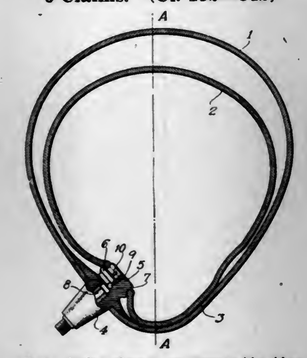
1. In a device of the type described, a responsive member movable as a function of a variable, an A. C. circuit energized by a source of A. C. energy, means whereby said responsive means varies the reluctance of said circuit to generate an A. C. impulse, and means for generating a balancing impulse of equal magnitude and the same frequency, phase and wave form, said last-named means comprising an A. C. circuit having the same electrical characteristics and energized by the same source of energy as said first circuit, said second A. C. circuit comprising a plurality of impedances normally arranged so that no impulse is generated thereby, means whereby said first named impulse varies the relationship of any of the impedance factors of said second circuit other than reluctance, means whereby variation of any of said last named factors generates a balancing impulse of increasing magnitude of amplitude until said balancing impulse equals said first named impulse, and means for opposing said impulses.

2,322,499
AUXILIARY BRAKE OPERATOR FOR VEHICLES
William Norman Andrews, New York, N. Y.
Application April 1, 1942, Serial No. 437,191
1 Claim. (Cl. 188—106)



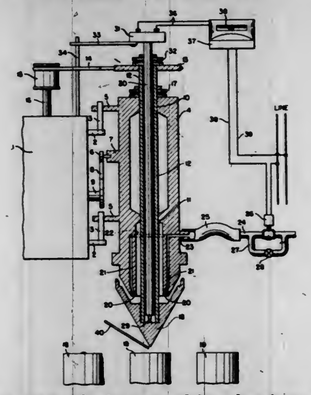
In a vehicle having a floorboard, dashboard, front seat and a pivoted brake lever extending through said floorboard, a downwardly projecting bracket secured to the underside of said floorboard adjacent said lever, a pair of pulleys rotatably supported by said bracket, a pulley mounted on the rear of said dashboard, a cable connected to said brake lever and extending over one of said pair of pulleys and said dashboard pulley, the dashboard having an aperture and said cable passing through said aperture, a handle secured to the terminal portion of said cable on said dashboard, a fourth pulley secured to the underside of said floorboard beneath said front seat, a fifth pulley mounted within said front seat adjacent the upper portion thereof, a second cable secured to said lever and passing over the second one of said pair of pulleys, over said fourth pulley, through said front seat and over said fifth pulley, the rear of said front seat having an opening in alignment with said fifth pulley, said second cable passing through said front seat opening and having an operating handle fastened to the terminal portion thereof.

2,322,500
SAFETY TUBE FOR PNEUMATIC TIRES
Frank John Armstrong, Erdington, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application June 14, 1941, Serial No. 398,012
In Great Britain January 1, 1940
6 Claims. (Cl. 152—342)



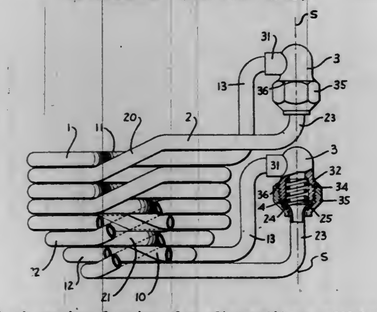
1. A safety tube for a pneumatic tire comprising an outer tube wall, an inflation valve mounted in, and having a boss projecting inside, said outer wall, said boss having an inlet passage, and an inner tube wall secured within said outer tube wall and spaced therefrom at said boss and having an aperture, the edge of said wall about said aperture being seated on said boss beyond said inlet passage and free to lift from said boss to permit passage of air freely from the space between said tube walls to the space within said inner tube, means restricting passage of air in either direction between the space within said inner wall and the space between said walls when the edge of said inner tube wall about said aperture is seated on said boss.

2,322,501
AUTOMATIC TEMPERATURE CONTROL INSTRUMENT
Blair M. Barnitz, Los Angeles, Calif., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 30, 1940, Serial No. 348,601
5 Claims. (Cl. 113—91)



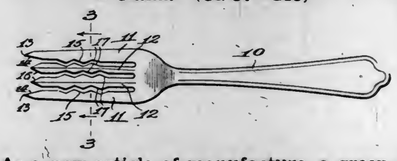
1. In a can closing machine having a reciprocating and rotating soldering tip, the combination of means to measure and control the temperature of said tip comprising a temperature measuring element, means to mount said element in engagement with said tip for movement therewith in a reciprocating direction only, means to supply a heating medium to said tip, and means responsive to measurements made by said element to control the supply of heating medium.

2,322,502
WATER HEATER
Harry A. Beckstrom, Seattle, Wash.
Application March 6, 1940, Serial No. 322,559
13 Claims. (Cl. 257—248)



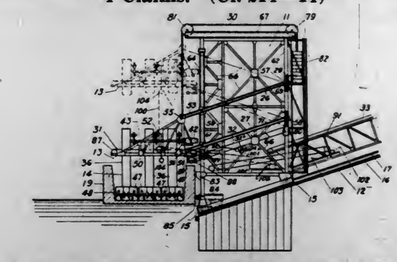
12. A water heater for disposition within the combustion chamber of a furnace, to be swept inside and out by the hot gas in such combustion chamber, and in communication with means to supply water to and to receive water from said heater, said heater comprising two independent and relatively movable coils disposed with their axes upright, the several turns of each individual coil being spaced apart, and of generally helical form and principally like diameter, but the lowermost turns of each coil being of lesser diameter than upper turns of the respective coils, and adjacent lower turns of the two coils being of respectively different diameter; the turns of one coil being at levels intermediate the levels of the turns of the other coil, the turns of the two coils when generally coaxial and mutually interleaved shielding one another from the heat, and the lower turns of smaller diameter cooperating to obstruct entrance of hot gas within the coils, in position of minimum heating, and when disposed with their axes non-coincident being more greatly exposed to the heat.

2,322,503
GREEN CORN FORK
Daniel C. Bowman, Pendleton, Oreg.
Application March 8, 1943, Serial No. 478,359
1 Claim. (Cl. 30—148)



As a new article of manufacture, a green corn fork comprising a handle and a plurality of tines integral with the forward end of said handle, said tines having pointed forward ends and longitudinally disposed corrugated sharp edges.

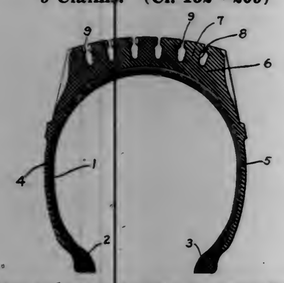
2,322,504
BARGE LOADING AND UNLOADING APPARATUS
George E. Brandon, New York, N. Y., assignor to Semet-Solvay Engineering Corporation, New York, N. Y., a corporation of New York
Application September 28, 1940, Serial No. 358,804
4 Claims. (Cl. 214—14)



1. Apparatus for unloading material from a barge which comprises a tower, a support mounted on the tower for movement in a substantially vertical path, a bucket conveyor carried by said support, means to move the tower in a sloping path on a bank of a body of water to a position in which a barge can pass underneath the bucket conveyor, means to move a barge beneath the bucket conveyor, means to lower said support to position the bucket conveyor to pick up a strip of material from a barge moving therebeneath and to raise the support, a conveyor mounted on the

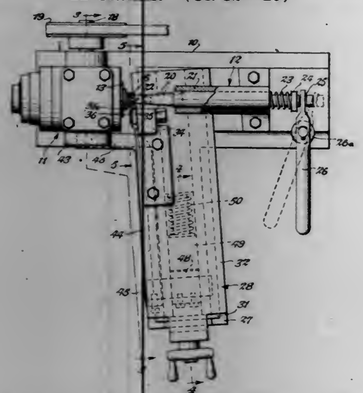
support to receive material from the bucket conveyor, a second conveyor having one end in fixed relation to the first conveyor to receive material therefrom and the other end in fixed relation to the tower, a third conveyor fixed to and movable with the tower to receive material from the second conveyor and carry it to a transfer point at a fixed distance from the tower, and a fourth conveyor extending beneath and substantially parallel to the path traveled by the transfer point during movement of the tower and adapted to receive material from the third conveyor and convey it to a predetermined discharge point.

2,322,505
PNEUMATIC TIRE
Arthur W. Bull, Grosse Pointe, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 28, 1940, Serial No. 367,517
9 Claims. (Cl. 152—209)



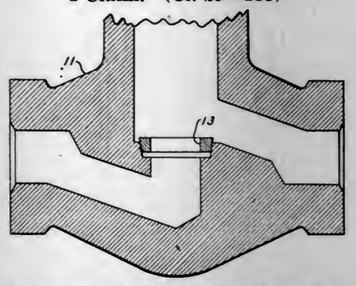
1. A tire tread comprising a plurality of functionally continuous circumferentially extending ribs, lateral projections of substantial marginal thickness adjacent the ground engaging surfaces of the ribs and extending into grooves defined by the ribs, the lateral dimensions of said projections being such as to form contact with adjacent units when under load and in engagement with a supporting surface.

2,322,506
MACHINE FOR AND METHOD OF RELIEVING MILLING CUTTERS
Robert H. Butters, Atlanta, Ga.
Application August 22, 1940, Serial No. 353,661
11 Claims. (Cl. 82—19)



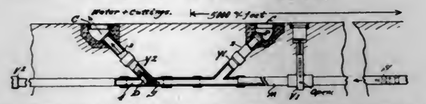
5. A machine for relieving rotary milling cutters of the kind having a hub and radiating teeth, said machine including a base formed with a lateral extension, a spindle for rotatably supporting a cutter, a shaft at one end of said base for driving said spindle, a cam fixed to said shaft, a relief forming tool, a carriage for said tool, a track for said carriage on said lateral extension, a second shaft at the outer end of said lateral extension, a second cam carried by said second shaft and engageable with said carriage, an arm having one end fixed to said second shaft and the other end extending into cooperating relation with said cam, whereby the latter is operative as said spindle is rotated to rock said second shaft to cause said second cam to advance said carriage toward said cutter.

2,322,507
METHOD OF BONDING
Norman W. Cole, Detroit, Mich.
Application May 15, 1940, Serial No. 335,351
1 Claim. (Cl. 29—188)



The method of bonding a preformed metallic element to a preformed base member of iron or steel which consists in, selecting or making the preformed element of an alloy of a nickel base with chromium and boron as the other main constituents, the nickel base not varying widely from 63% to 73%, the chromium not varying from 15% to 22%, the boron not varying widely from 3% to 5%, and carbon, iron and silicon not over 10%, placing said preformed element in contact with a preformed base member, heating such assembly in a non-oxidizing atmosphere to a temperature within the the range of 1850° Fahrenheit to 2200° Fahrenheit until the hard metal component having the lowest melting point has alloyed with the surface of the preformed base metal and the hard metal casting has settled by its own weight to its finally-desired position, thus effecting a superficial bond, the two parts not losing their original shape and size to any appreciable degree, and then cooling the element and the base member to freeze the bond.

2,322,508
PIPE BORE CLEANER APPARATUS
Hubert R. Crane, Los Angeles, Calif.
Application June 2, 1942, Serial No. 445,445
2 Claims. (Cl. 15—104.06)



1. Apparatus for the cleaning and scraping of fluid conveying conduits, comprising in combination, a downstream effect Y limb in a given conduit, an appropriate scraping tool for the bore of the conduit and which is propulsive by the bore fluid, and a bore choking device consisting of a short

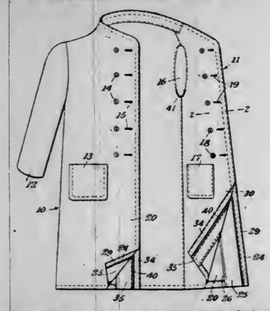
semicylindrical scoop of an external diameter approximating that of the Y limb lateral to make an elbow extension of the cylindrical bore thereof at the conduit axis forming a guide whereby to direct the said tool into the outlet of the said limb, while the tool is fluid driven; the said choke being adapted to be telescoped down the said limb into effective position at the conduit bore while the limb is in situ.

2,322,509
SCREW
William A. De Vellier, New York, N. Y.
Application June 18, 1941, Serial No. 398,543
6 Claims. (Cl. 85—45)



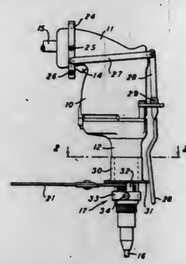
6. A threaded member having a threaded shank and a turning head having a slotted turning tool receiving recess therein centrally thereof extending within said head in the axial line of said shank and a shallow partially spherical guide recess concentric with and of much less depth than said slotted recess and of much less diameter than the length of said recess and of greater diameter than the length of said recess and of greater diameter than the width of said recess.

2,322,510
REVERSIBLE GARMENT
Abraham Dufine, New York, N. Y.
Application July 17, 1941, Serial No. 402,774
2 Claims. (Cl. 2—97)



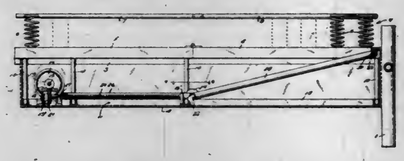
1. A composite garment comprising a main garment member and an auxiliary garment member each wearable as a separate garment, each garment member being provided with cooperative fastener elements for uniting the members together, the peripheral edge of the main garment member being folded and united by a seam to the folded edge of a strip of material which forms part of the inside facing of said main garment member, a relatively wide strip of material constituting a third portion and remainder of the main garment facing and extending from the edge of the first folded portion along the inside face of the main gaarment member, a fastener tape positioned between the last-named facing strip and the narrow folded facing strip, with the fastener elements directed inwardly from the edge of the garment, and a line of stitching uniting the main garment member, the remainder facing strip, the fastener tape, and the narrow folded facing strip, whereby space is provided for the fastener elements to avoid bulging of the garment.

2,322,511
SAFETY DEVICE
Ernest A. Fischer, Bloomfield, and Earl C. Moss, Westfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 31, 1942, Serial No. 453,130
6 Claims. (Cl. 192—129)



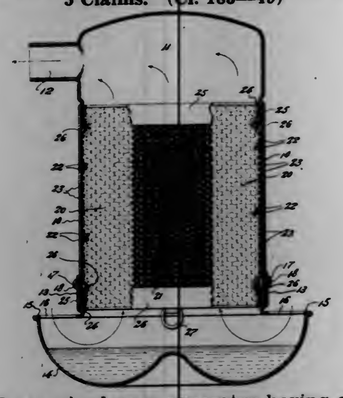
1. A device for use in adjusting one of a pair of rotatably drivable and relatively rotatably adjustable members forming part of an assembly and having an associated driving control member disposed relatively close thereto, the said device comprising a body member to be mounted on the assembly generally and provided with means to engage the control member and thereby prevent driving of the rotatably drivable members, and provided with means to engage one of the relatively rotatably adjustable members to prevent the same from rotation while the other member is being rotatably adjusted relatively thereto.

2,322,512
BED
Orrin T. Fox and Maurice B. Dillon, Redding, Calif.
Application December 9, 1941, Serial No. 422,282
1 Claim. (Cl. 5—77)



A bed including a pair of side rails, a spring unit mounted on said side rails and comprising a hinged head section, a housing suspended from the side rails, tracks mounted longitudinally in the housing, a tubular rod mounted transversely in the housing and movable longitudinally therein, spindles fixed in the end portions of said tubular rod and projecting therefrom, rollers journaled on said spindles and operable on the tracks, arms having one end pivotally connected to the free end portion of the hinged head section of the spring unit, tubular bearings on the other ends of said arms journaled on the spindles between the tubular rod and the rollers, a tubular yoke having its ends fixed to the rod, a screw shaft passing through the bight portion of said yoke and threadedly connected thereto, and a motor mounted in the housing and operatively connected to said screw shaft for raising and lowering the head section of the spring unit.

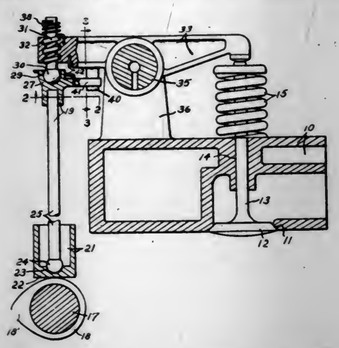
2,322,513
REMOVABLE FILTER UNIT FOR AIR CLEANERS
Alfred M. Goodloe, Montclair, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware
Application February 10, 1942, Serial No. 430,193
5 Claims. (Cl. 183—49)



4. In an air cleaner apparatus having a filter body housing compartment open at least at one end, a removable filter unit for insertion and removal through an open end of said compartment, said unit comprising a laterally compressible interstitial filter body and a foraminous flexible enclosing side wall means around said body, said latter means comprising a tubular knit wire mesh sleeve, the interlinked bights of the knit loops of said sleeve being disposed to lie along and project rougheningly from the inner surface thereof so as to interlock with the contiguous surface of the filter body enclosed thereby, while the legs of said knit loops lie along the outer surface of said sleeve in a substantially common plane, whereby to provide said sleeve with a relatively smooth exterior surface, and end plate elements secured to the thus jacketed filter body, the mass of said unit intermediate its end plate elements being of a normal cross-sectional area slightly in excess of the cross-sectional area of said receiving compartment of the air cleaner, whereby when inserted within the latter the same will yield compressively to cause its side wall sleeve to snugly fit and frictionally abut the compartment walls.

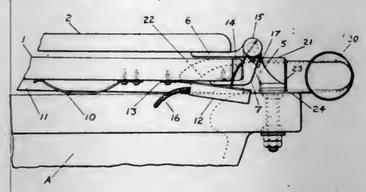
2,322,514
VALVE ACTUATING MECHANISM
William M. Goodwin, Central Square, N. Y.
Application January 12, 1942, Serial No. 426,384
12 Claims. (Cl. 123—90)

7. A self-adjusting valve actuating mechanism comprising an arm having an axis of rocking movement, an adjusting element connected with said arm in spaced relation to said axis, means including cam surfaces connected with the arm and with said adjusting element adapted upon rotary movement of said element to effect axial movement thereof with respect to said arm, means including a reciprocative member having operative engagement with the adjusting element for producing rocking movement of said arm, means including a cam and cam follower actuated by the rocking movement of said arm for producing rotary movement of the adjusting element to vary the operative relation of said arm with respect to said reciprocative member whereby an operative clearance is introduced in said valve actuating mechanism, and means including a spring connected with the adjusting element



and with said arm for actuating said element in a direction to take up slack in said valve actuating mechanism.

2,322,515
TOILET VENTILATING SYSTEM
William J. Hazard, Boulder, Colo.
Application December 30, 1941, Serial No. 424,987
9 Claims. (Cl. 4—213)

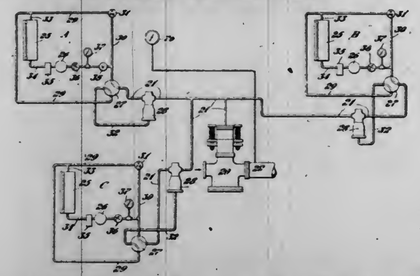


1. An exhaust system for ventilating toilets while in use which includes a ventilating pipe, a motor driven fan operating in connection therewith for creating circulation of air therethrough, a seat, a mercury switch flexibly connected thereto, a hinged lid or cover carrying means in position to hold the mercury switch open when the lid or cover is in its lowered position, an electric circuit extending from the mercury switch to the motor driven fan, the mercury switch in position to close the circuit when the lid or cover is raised and weight is applied to the seat.

2,322,516
FIXATION PROCESS
Artemy Alexis Horvath, Chambersburg, Pa., assignor to Horvath Laboratories, Inc., Chambersburg, Pa., a corporation of Maryland
Application February 1, 1940, Serial No. 316,831
8 Claims. (Cl. 99—98)

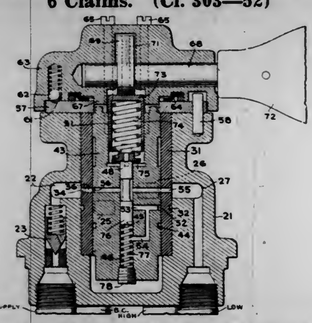
1. A method of fixing undesirable substances in the skin and germ of whole soy beans comprising applying to whole soy beans a non-poisonous ionized liquid mixture containing a non-poisonous salt of a metal from a group consisting of iron, calcium and magnesium, said application being continued for a sufficient period to enable the mixture to penetrate the palisade layer and hilum of the outer skin of each bean without being absorbed by the cotyledon and then tempering the treated beans by heating without cooking.

2,322,517
VALVE ASSEMBLY
Alexander V. Hose, Marblehead, Mass., assignor to Atwood & Morrill Co., Salem, Mass., a corporation of Massachusetts
Application March 4, 1941, Serial No. 381,682
5 Claims. (Cl. 137—139)



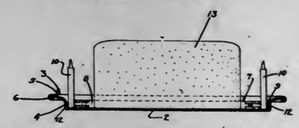
1. An installation comprising a normally closed main valve of the hydraulic type, a plurality of control stations, a pipe line connecting said valve directly with each of said stations and means at each station by which fluid pressure is transmitted through said pipe line to open said valve, said means including a fluid reservoir, a pump for drawing fluid from said reservoir and supplying it under pressure to said pipe line, a check valve by which the pressure supplied to the line is maintained so as to hold said main valve open, and pressure operated means associated with said pump for effecting the release of the pressure applied to open said main valve so as to permit said main valve to close.

2,322,518
COMBINED BRAKE AND SELECTOR VALVE
Matthew W. Huber, Chicago, Ill., assignor to Hydraulic Controls, Inc., a corporation of Illinois
Application June 1, 1942, Serial No. 445,335
6 Claims. (Cl. 303—52)



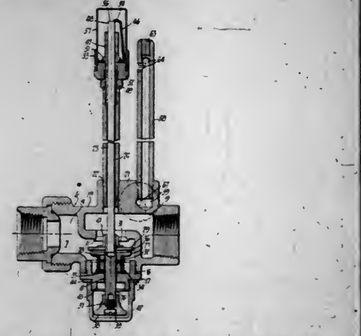
1. The combination of a housing provided with a cylindrical valve seat having a pressure supply port, a sump port, at least one controlled port adapted for connection with a device to be controlled, and a brake cylinder port; a rotatable valve mounted in said cylindrical seat and so ported that rotation of the valve to selected positions serves to connect the controlled port with the supply port or with the sump port or to interrupt the connections aforesaid; a cylindrical valve seat in said valve, said seat having ports constantly in communication with the supply port, the brake cylinder port and the sump port; a piston valve in the second named cylindrical seat subject at one end to pressure in the brake cylinder port and having an application position in which it connects the supply port with the brake cylinder port, a release position toward which it is urged by brake cylinder port pressure reacting on the end of the valve and in which it connects the brake cylinder and sump ports, and an intermediate lap position in which such communications are interrupted; yielding means which when stressed urge the piston valve toward its application position; and an actuator capable of two distinct motions, one of which rotates said rotary valve, and the other of which variably stresses said yielding means.

2,322,519
BIRTHDAY CAKE TRAY
Matheus O. Ingebrigtsen, Minneapolis, Minn., assignor to John Carlton Berg, Minneapolis, Minn.
Application July 24, 1939, Serial No. 286,183
3 Claims. (Cl. 65—15)



3. A ring-like member of flat material having portions extending outwardly therefrom in opposite directions and cooperating to provide a plurality of sockets for receiving candles, said member being adapted to be removably supported in a serving tray.

2,322,520
THERMOSTATICALLY CONTROLLED SHUTOFF DEVICE
Wayne E. Jenkins, Los Angeles, Calif., assignor to Domestic Manufacturing Company, Inc., Los Angeles, Calif., a corporation of California
Application August 9, 1940, Serial No. 351,976
5 Claims. (Cl. 137—161)



1. A thermostatically controlled gas shut-off valve comprising, a body formed with a valve chamber, a valve mounted in said chamber for movement to and from a passage closing position, spring means urging said valve to passage closing position, a valve stem connected to said valve for movement of the latter to open position upon longitudinal displacement of said stem and a thermostatic strip having an end portion mounted transversely across the longitudinal axis of said stem and a center portion bent at substantially right angles to said end portion and extending alongside of said stem to adjacent the outer end thereof, the opposite free end of said strip being bent at substantially right angles to

said center portion and in the direction of said first strip end and being positioned and adapted to hook over said stem end to hold said stem in an axially displaced valve open position, said strip being mounted so as to flex said strip end to and from said stem as the strip is heated and cooled respectively whereby when cool said strip end will disengage and release said stem end for movement of said valve to closed position under the operation of said spring means.

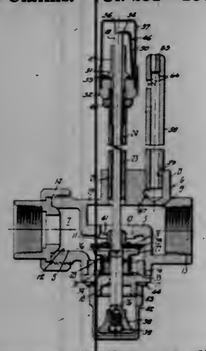
2,322,521

THERMOSTATICALLY CONTROLLED GAS VALVE

Wayne E. Jenkins, Los Angeles, Calif., assignor to Domestic Manufacturing Company, Inc., Los Angeles, Calif., a corporation of California

Original application August 9, 1940, Serial No. 351,976. Divided and this application August 8, 1941, Serial No. 405,943

3 Claims. (Cl. 251—137)



1. In a thermostatically controlled trip operated gas shut-off valve of the character described, a body formed with a valve chamber and having an annular valve seat in said chamber defined by a circular sharp edged shoulder, a valve guide mounted in said chamber axially of said seat, a valve backing member having a central aperture loosely surrounding said guide to permit longitudinal and substantial rocking movement thereon and formed on the side thereof facing said seat with an annular shoulder concentric to said guide and of a greater diameter than said seat shoulder, a valve disc of compressible material having a central aperture snugly fitting said guide and mounted between said seat and backing member shoulders and being of a larger diameter than said backing member shoulder whereby the opposite sides of said disc will be clamped between said shoulders in the closed position of said valve with said seat shoulder engaging said disc concentrically of and within the confines of said backing member shoulder, and spring means engaging said backing member and urging the latter and said disc towards said seat shoulder.

2,322,522

VESSEL POWER PLANT

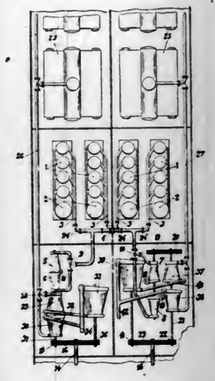
Johan Erik Johansson, Goteborg, Sweden, assignor to Aktiebolaget Götaverken, Goteborg, Sweden, a corporation of Sweden

Application March 5, 1941, Serial No. 381,900

In Sweden March 30, 1940

9 Claims. (Cl. 115—34)

1. In a vessel power plant, a normal load plant for pressure medium production comprising a reciprocating internal combustion engine and an air compressor driven thereby, the compressed air of which together with partly expanded exhaust gases from said internal combustion engine form said pressure medium, a turbine operated on said pressure medium, a propelling screw operatively connected with said turbine, a top load



plant for pressure medium production comprising a high output pressure medium generator, and a high-pressure turbine operated on the pressure medium produced by said generator and operatively connected with said propelling screw.

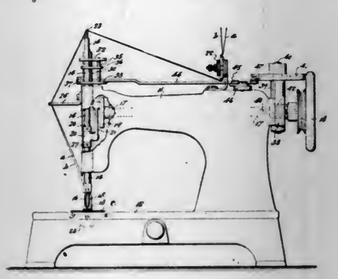
2,322,523

CROSS-STITCH SEWING MACHINE

Anton Kierner, Union, N. J., assignor to Emil Prazak, Elizabeth, N. J.

Application May 30, 1942, Serial No. 445,166

5 Claims. (Cl. 112—98)



1. In a sewing machine for producing cross-stitch formations, a stitch forming mechanism including a reciprocable needle bar carrying laterally spaced needles respectively supplied with individual threads, said needle bar being capable of rotative movement in addition to its reciprocable motion, a pivoted oscillator means carrying a thrust bar disposed parallel to the needle bar, said needle bar having a laterally projecting lever arm engaged by said oscillator means thrust bar, whereby the latter imparts rotative movements to said needle bar so as to alternately transpose its needles prior to stitch completing operations of said needles, and means for actuating said oscillator means in timed relation to reciprocable movements of said needle bar, said latter means including a driven control cam.

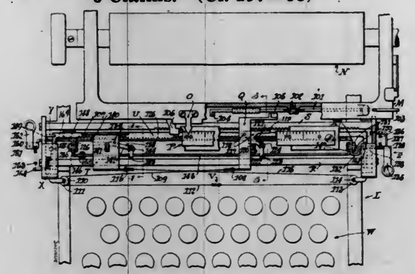
2,322,524

TYPEWRITING MACHINE

John Joseph Kittel, St. Albans, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York

Original application November 12, 1938, Serial No. 240,180. Divided and this application August 27, 1940, Serial No. 354,431

6 Claims. (Cl. 197—63)



1. In a typewriter, a frame; a carriage mounted thereon for letter spacing and return movements; a first stop on said carriage; a bar on said frame extending in the direction of carriage movement and having a vertical face thereof formed with teeth; a second stop mounted on and for adjustment along said bar; spring means constantly urging said second stop toward said first stop; a latch mounted on said second stop for horizontal movement into and out of engagement with said toothed bar face; a spring normally holding said latch in engagement with said toothed bar face; a bail comprising a flat tracker bar extending longitudinally of said toothed bar and normally being disposed in a substantially vertical plane with its top edge portion adjacent and alongside a part of said latch; means pivoting the bail to rock about an axis below said latch; and manually operable means for rocking said bail to move the upper edge portion thereof into engagement with said latch part for releasing the latch.

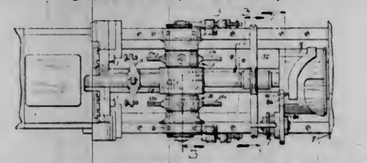
2,322,525

MACHINE TOOL

Raymond L. Kuehn, Hartford, Conn., assignor to The Billings & Spencer Company, a corporation of Connecticut

Application July 14, 1941, Serial No. 402,303

6 Claims. (Cl. 29—36)



1. In a turret indexing mechanism, a turret rotatable on a transverse axis and carrying a plurality of tools, a reciprocable carrier on which said turret is journalled and movable in planes parallel to said axis, a bed frame on which said carrier is reciprocable, a constantly operative brake carried on said carrier and operating on said turret beneath the latter, locking mechanism carried on said carrier beneath said turret including a locking pin biased to locking position and received in said turret in different indexed positions thereof, and means for controlling said pin including a pin operating lever carried on said carrier and lever operating cam means carried on said bed frame.

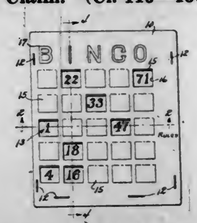
2,322,526

GAME DEVICE

Howard C. Lake, Cincinnati, Ohio

Application December 4, 1941, Serial No. 421,638

1 Claim. (Cl. 116—130)



A game device intended for use in connection with the game of bingo or similar games comprising, superposed sheets of cardboard secured together, one sheet having cut out squared portions corresponding to the numbered squares of a conventional bingo card, and the other sheet having cut out portions providing hinged tabs in register with the openings in the first named sheet, said device being adapted to be superposed upon a bingo card with the numbered squares on the bingo card exposed through the cut out openings in both sheets, said tabs being adapted to be selectively closed into engagement with the edges of the cut out openings in the first named sheet to be yieldably held closed when the chance letters and numbers are announced thus eliminating the use of separate masking pieces.

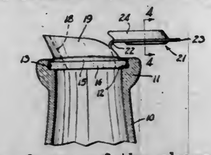
2,322,527

BOTTLE CLOSURE

Jerry M. Leatherman, Akron, Ohio

Application May 11, 1940, Serial No. 334,588

4 Claims. (Cl. 215—73)



1. A bottle closure of the character described comprising a body structure of deformable material having an opening formed therein and having an upwardly extending unconfined wall surrounding said opening and constituting a spout, the free marginal portion of the latter defining a dispensing aperture, a lid for covering the dispensing aperture in said spout, hinge means connecting the lid locally to the margin of the spout and normally urging the lid to open position, and a boss on one face of said lid, said boss being receivable in the dispensing aperture of the spout and being of such size and shape with relation to the spout as to have a force fit in the latter solely at two opposite local regions thereof.

2,322,528

SIGNAL AMPLIFIER

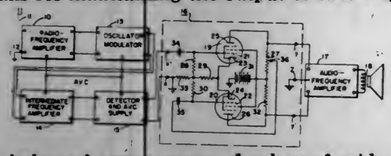
Harold M. Lewis, Allenhurst, N. J., assignor to Hazeltine Corporation, a corporation of Delaware

Application October 2, 1941, Serial No. 413,275

11 Claims. (Cl. 179—171)

1. A signal amplifier comprising, a pair of vacuum tubes each having input electrodes and an associated input circuit and output electrodes

and an associated output circuit, said output circuits being connected to form a balanced amplifier output circuit, means for applying to the input circuit of one of said vacuum tubes a signal to be amplified, means for applying to the input circuit of the other said vacuum tubes a portion of the output of said one vacuum tube, and means for maintaining the output of said ampli-



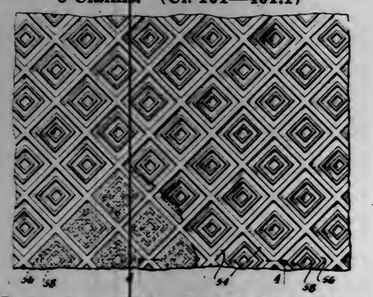
fier balanced over a range of values of said portion applied to the input circuit of said other vacuum tube comprising a relatively high impedance effectively common to all of said input and output circuits, the value of said impedance being such that the product of said value and the mutual conductance of one of said vacuum tubes is a number considerably greater than unity.

2,322,529
HANGER FOR SLIDING DOORS
Ralph L. Long, San Diego, Calif.
Application September 29, 1941, Serial No. 412,895
1 Claim. (Cl. 16—97)



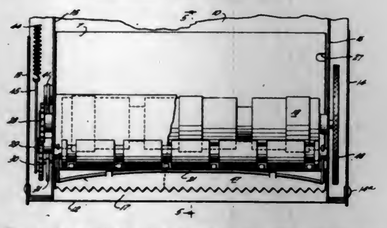
A door hanger of the class described comprising in combination a vertically extending shank having a roller supporting structure associated with the upper end thereof, the lower end of the shank having an inwardly extending recess formed in the body portion thereof, and a screw secured to the top edge of a door with the head of the screw spaced upwardly therefrom, said screw head adapted to be received within the recess in the shank to hold the door in suspended position from the lower end of the shank.

2,322,530
INTAGLIO PRINTING
Charles J. MacArthur, Glen Ridge, N. J.
Application June 14, 1939, Serial No. 279,012
3 Claims. (Cl. 101—401.1)



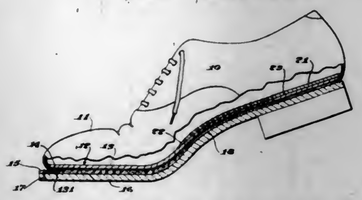
1. In a gravure web cylinder adapted for high-speed coating operations, a gravure cylinder having its web contact surface formed of two sets each of a plurality of relatively narrow raised lines extending diagonally of the printed surface, the lines of one set merging with the other set and in the same plane, the merging sets of relatively narrow raised lines thus forming rectangular coating solution wells, and a plurality of rectangular wall surfaces within each of said wells, one within the other and of successively lesser area, said subsidiary wall surfaces being below the web contact line, the two sets of diagonally extending and merging web contact lines being so proportioned to the wells provided thereby that a coating fluid held by the wells and applied to a traveling web will merge at the web contact lines for coverage of the web.

2,322,531
DISPENSING DEVICE
Maurice E. Maltby, Bell, and Laurence L. Price, Los Angeles, Calif., assignors to Towl-Craft Co., a corporation of California
Application May 28, 1940, Serial No. 337,624
3 Claims. (Cl. 271—2.3)



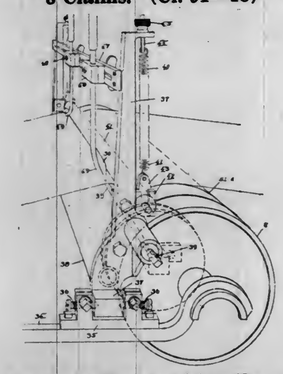
1. In a toweling dispenser, a gear carrying a rotary stop rotatable as the toweling is dispensed, a pivoted stop movable into and out of the path of the rotary stop to arrest discharge of the toweling, latch means for latching the pivoted stop in the path of the rotary stop, and means for disengaging the latch operable upon reverse rotation of the gear.

2,322,532
BOOT OR SHOE
Laurie S. Macdonald and Oscar N. Johnson, Brockton, Mass., assignors to Thompson Bros. Shoe Co., Brockton, Mass., a corporation of Massachusetts
Application April 21, 1943, Serial No. 483,910
7 Claims. (Cl. 36—17)



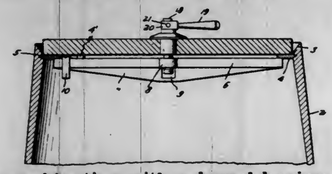
6. A Goodyear welt boot or shoe designed to afford freedom in flexing during walking having, in combination, a flexibilized leather outsole impregnated with a liquid sulphur chloride treated vegetable oil, a flexible insole extending the full length of the shoe, a stiffer but flexible shank piece in the rear part of the insole and extending forward over the shank portion thereof, said shank piece being provided with a plurality of spaced grooves, and a multiplicity of spaced rows of stitching connecting the insole and the grooved portions of the shank piece, the construction of the shoe being such that the said rows of stitching hold the flexible shoe at the shank portion and provide an arch support.

2,322,533
COATING MACHINE
Charles W. Mayer, Rochester, N. Y.
Application October 17, 1941, Serial No. 415,437
8 Claims. (Cl. 91—18)



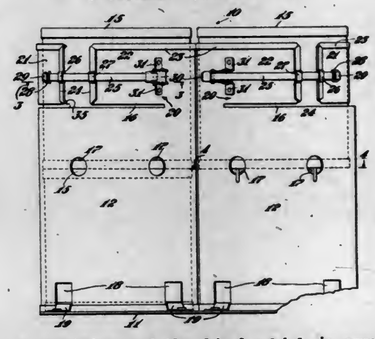
4. In a web coating machine the combination of a coating roll, a supporting axle for rotatably supporting said roll, a bracket on each side of said roll held for engagement and radial support on said supporting axle, a pair of trunnion bearings on each of said brackets and arranged substantially axially radial to said supporting axle, a bracket pivotally mounted in each of said pair of trunnion bearings for radial movement of the supporting brackets on each side of said coating roll, and an equalizer rod supported between said pivotally mounted brackets.

2,322,534
HEAD FASTENER FOR DIP BARRELS
Walter J. McGarr, Cordele, Ga., assignor to McGarr-Turner Company, Cordele, Ga., a partnership composed of W. J. McGarr and W. R. Turner
Application July 28, 1942, Serial No. 452,659
1 Claim. (Cl. 220—40)



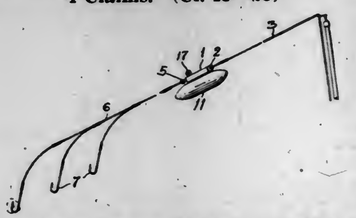
The combination with a barrel having an annular inwardly extending ledge in the mouth thereof, of a disk-like head for the barrel adapted to seat flat on said ledge, and means to fasten said head against the ledge comprising a diametrical bar extending along the bottom side of said head of the requisite length to extend at both ends beneath said ledge, means to adjust said bar into and form clamping relation to said ledge comprising an axial bushing in said head, a bolt extending through said bushing with a working fit and threaded into said bar, a shoulder on said bolt coacting with one end of said bushing to prevent movement of the bolt inwardly of the barrel, a crank lever on one end of the bolt for turning the same, and means on said head for restraining the bar against rotation by said bolt and providing for limited movement of the bar toward and from the ledge, said last means comprising a stirrup attached to the bottom side of the head and straddling one end of said bar, said end of the bar being slidable toward and from the ledge in said stirrup.

2,322,535
CONTAINER
Homer J. Messier, New Bedford, Mass.
Application June 25, 1941, Serial No. 399,635
3 Claims. (Cl. 220—1)



1. A container of the kind which is employed for positioning a tubular ice cream dispensing carton in a refrigerating chamber and which comprises a base and a vertically disposed, open-topped cylinder of resilient sheet material, said cylinder being of a normal internal diameter exceeding that of the carton which it is designed to hold, the cylinder being of a depth sufficient to hold a plurality of superposed cartons, characterized in that the cylinder has a circumferential slit extending approximately half way around it at a distance from its upper edge such that the slit is intermediate the top and bottom of the uppermost of said cartons, and a vertical gap reaching from its upper edge to the slit, the gap being disposed substantially symmetrically with respect to the opposite ends of the slit, the slit and gap defining two peripherally extending, flexible, resilient arms integrally joined at their remote ends to the body of the cylinder and whose proximate ends are separated by the gap, the proximate ends of the arms having inwardly directed prongs designed positively to engage the carton thereby to prevent its rotation, and releasable clamping means uniting the arms and operative to draw their proximate ends toward each other thereby to constrict them about a carton disposed within the cylinder and to force their prongs into holding engagement with the carton.

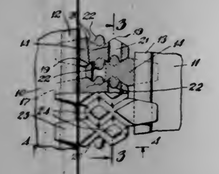
2,322,536
SINKER RELEASING DEVICE
Fred J. Miller, San Francisco, Calif.
Application January 6, 1942, Serial No. 425,793
4 Claims. (Cl. 43—28)



1. A sinker releasing device comprising a casing having a line attaching means at one end and a rod opening at its opposite end, a reciprocable rod extending into the casing, having line attaching means located exteriorly of the casing, a releasable member engageable by and adapted to be connected to the casing by the rod when

the latter is substantially at one extreme of its reciprocatory movement, yieldable means in the casing for engaging with the rod and normally holding the latter in a position whereby the releasable member is held in a connected position with respect to the casing, the said rod when a predetermined pull is exerted thereon being releasable from the yieldable means, whereby the said rod may be moved to release the releasable member, and a sinker carried by the releasable member.

2,322,537
SEPARABLE FASTENER
Louis H. Morin, Bronx, N. Y., assignor of one-half to Davis Marinsky, Bronx, N. Y.
Application May 23, 1942, Serial No. 444,189
18 Claims. (Cl. 24—205)



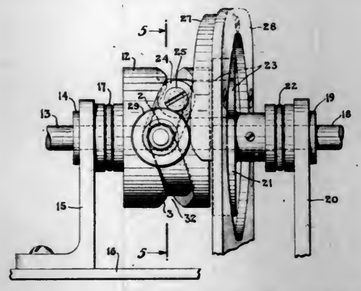
8. In separable fastener stringers having links spaced longitudinally of one edge thereof, each link of the stringer having similar opposed surfaces, said surfaces having at the outer end of the link a projecting member extending across the thickness of the link, said surfaces having inwardly of said members corresponding recesses adapted to receive the members of the links of an opposed stringer, said members and recesses, centrally of the links, being provided one with a projecting element and the other with a socket to receive the element of the link of an opposed stringer, said members and recesses being formed by correspondingly bevelled walls on said surfaces, said walls being contracted in the direction of the side surfaces of the link, and the side surfaces of the link having V-shaped notches in central alinement with the recessed portions of said link.

2,322,538
MACHINE AND METHOD FOR ASSEMBLING SHELLS AND PERFORATED END MEMBERS
Lorenz F. Muther, Newton Center, Mass.
Application June 26, 1940, Serial No. 342,507
4 Claims. (Cl. 29—84)



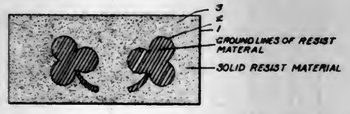
2. Method of assembling an elongate shell and a centrally perforated end member comprising the steps of first passing the end portion of a spindle through the longitudinal axis of the shell, then passing said end portion through and into frictional engagement with the central perforation of said end member thereby to retain said end member and said elongate shell about said spindle with the central perforation of said end member substantially coinciding with the longitudinal axis of the shell, then moving said shell longitudinally of the spindle toward said end member until its adjacent end encircles the side of the end member and then clenching said end of the shell inwardly over a portion of the face of the end member.

2,322,539
MECHANICAL MOVEMENT
Hans Werner Nowka, Rockaway Park, N. Y., assignor of one-half to Oscar I. Judelshon, Park Ridge, N. J.
Application March 22, 1940, Serial No. 325,450
5 Claims. (Cl. 74—63)



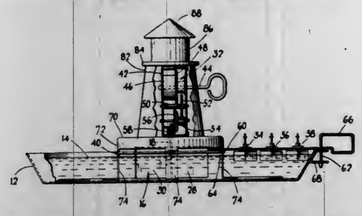
1. In a mechanical movement, a drive shaft, a driven shaft in axial alinement with said drive shaft, an inclined surface provided on said driven shaft, a fixed outer guide member provided with an inclined surface, said last named inclined surface being at an angle different than that of the first named inclined surface, and a drive member mounted on said drive shaft in contacting engagement with both of the inclined surfaces to impart driving rotation to the driven shaft at a speed different from that of the drive shaft.

2,322,540
METHOD OF MAKING PRINTING MEMBERS
John J. Ormond, Boston, Mass., assignor of two-thirds to Joseph D. Ramsey, Boston, Mass.
Application October 25, 1940, Serial No. 362,838
4 Claims. (Cl. 95—5.3)



1. That improvement in methods of making printing rolls for multicolor subject matter which consists in preparing a printing element with printing portions corresponding to a grain formation, applying from the printing element a relatively light acid resist on the surface of a transfer roll, then preparing a set of color printing plates for the said multicolor subject matter by selectively exposing light-sensitive resist coatings on each of the plates to light passed through a color filter and a transparent color positive of the subject matter, applying from one of the plates a relatively heavy acid resist material over the said first applied resist material on the transfer roll surface, simultaneously offsetting the relatively light and relatively heavy offset materials on a printing roll surface, then offsetting relatively light acid resist material and relatively heavy acid resist material corresponding to each of the remaining color printing plates on respective printing rolls, then etching the rolls and removing the acid resist materials.

2,322,541
TOY
Walter L. Pasek, St. Louis, Mo., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application May 23, 1941, Serial No. 394,740
12 Claims. (Cl. 46—91)



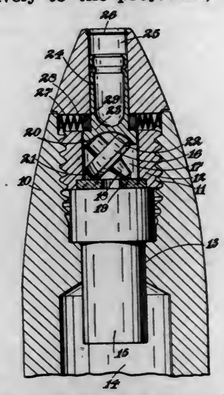
1. A toy comprising a circular pan adapted to carry a body of water extending all the way across the pan, a vane or impeller rotatable on a vertical shaft at the center of the pan, a motor for driving said shaft and vane in order to agitate and circulate the water in the pan, one or more floating objects on said water, and a guide surrounding the vane or impeller and so located as to keep the floating objects in the outer annular portion of the body of the water.

2,322,542
SURFACE COVERING COMPOSITION CONTAINING SYNTHETIC RESINS AND PROCESS OF PRODUCING SAME
Donald G. Patterson, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 28, 1940, Serial No. 326,382
3 Claims. (Cl. 260—22)

1. In a process of preparing a sheeted surface covering of the linoleum type, the steps which comprise simultaneously heating a non-conjugated terpene hydrocarbon of the $C_{10}H_{16}$ series, a polyhydric alcohol, and a member of the group consisting of maleic acid and fumaric acid in the presence of 0.3–0.6 part of p-toluene sulfonic acid per mol of acid, subsequently adding linseed oil fatty acids which are liquid at about 5° C. and which have an iodine number above about 200, and heating until the linseed oil fatty acids have reacted.

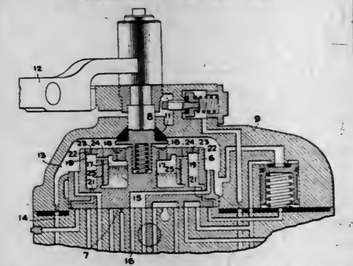
2,322,543
PERCUSSION FUSE FOR PROJECTILES
George William Patchett, Egham, England
Application October 8, 1940, Serial No. 360,321
In Great Britain October 9, 1939
9 Claims. (Cl. 102—79)

1. A percussion fuse for a projectile comprising a housing, a holder for an igniting cap associated with said housing, a gyroscopic element in said housing and having a stem one end of which is adapted to operate as a striker for said cap and the other end of which is adapted to receive a striking force when the projectile strikes an object, detent means for holding said gyroscopic element in said housing with its stem transversely disposed in relation to the axis of rotation of the projectile and out of operative relationship with the cap, which detent means are adapted to be released by inertia forces set up by the firing of the projectile and friction means adapted to transmit rotation of the projectile to the gyroscopic element which housing and gyroscopic element are so shaped and dimensioned as to permit during the flight of the projectile, freedom of movement of the gyroscopic element about two axes at right angles to one another and at right angles to the axis of rotation of the element, also for the element to rotate relatively to the projectile, and also for



the gyroscopic element as a whole to move along the axis of rotation of the projectile when the axis of rotation of the element and projectile are in line.

2,322,544
LUBRICATOR
Lewis A. Safford, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application June 11, 1942, Serial No. 446,677
9 Claims. (Cl. 303—56)

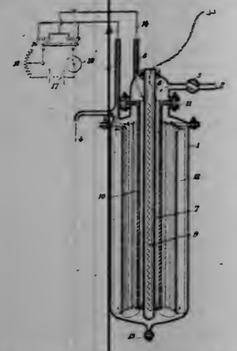


1. The combination of a valve seat; a valve movable thereon and subject on its back to pressure surges; means forming a surge chamber in restricted communication with the space in which pressure surges occur, and having an oil feeding communication with the sealed area of contact between valve and seat; a closed oil reservoir adapted to be partly filled with oil; means forming a restricted, non-capillary flow path between the reservoir above the level of oil therein and the surge chamber; and capillary means for feeding oil from the reservoir to said flow path.

2,322,545
DEVICE FOR CHANGING THE pH OF FERMENTESCIBLE LIQUIDS
Jacques Robert Emmanuel Sandström, Saint-Tropez, France; vested in the Alien Property Custodian
Application March 22, 1939, Serial No. 263,490
In France March 25, 1938
1 Claim. (Cl. 204—228)

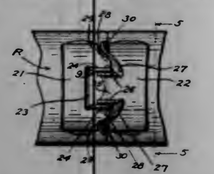
In an electrolytic device for modifying the concentration of the positive or negative ions in

the vicinity of the active electrode, the combination of a vessel, a substantially cylindrical electrode open at both ends, placed in the vicinity of the periphery of said vessel, a cover on said vessel and in which is provided a central orifice, a vertical tube leading from said cover for the escape of the gases, a lateral pipe-line leading from said cover, a cylindrical screen interiorly of said cylindrical electrode made of porous material in said vessel and stopping at some distance above the bottom of said vessel,



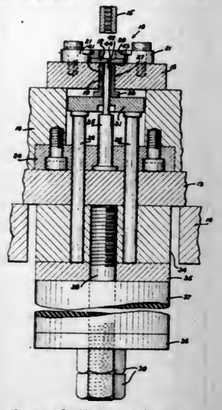
means for adjusting the upper end of said screen in a fluid-tight manner on the central orifice of said cover, a cap having a central opening and means for adjusting said cap in a fluid-tight manner on the upper end of said screen made of porous material, a vertical tube leading from said cap and a lateral pipe-line leading from said cap, and an electrode interiorly of said cylindrical screen in the form of a hollow rod arranged at the center of said vessel and having a rough outer surface.

2,322,546
RIM FOR TIRE RETREADING APPARATUS
Lee T. Sepin, Los Angeles, Calif.
Application August 19, 1940, Serial No. 353,223
2 Claims. (Cl. 16—128)



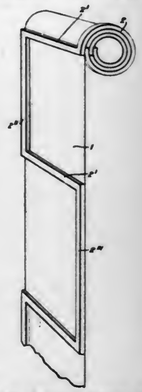
2. A hinge for connecting adjacent segments of an air bag supporting rim used in tire retreading apparatus, comprising a pair of plates adapted to be fixed to opposed ends of adjacent segments, one of said plates having a recess in its outer end and provided with projections on opposite sides of the recess for overlapping the adjacent segment, apertured ears on said projections, the other plate having a tongue adapted to extend into the recess of the first named plate and overlie the segment to which the first named plate is secured, apertured ears on said tongue, a hinge pin extending through the ears of both plates, said first named plate having recesses in outer corners thereof; and corner projections on the second named plate being extensible into said recesses and engageable with the segment on which the first named plate is secured, said corner projections having outwardly turned free ends.

2,322,547
PUNCH AND DIE MECHANISM
Edmund F. Shalla, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 3, 1941, Serial No. 409,365
4 Claims. (Cl. 164—86)



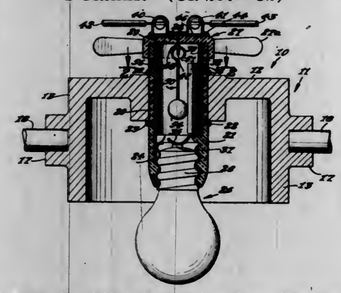
1. In a punch and die mechanism, a die having an aperture, a punch in said aperture, and a tubular shedder operable in said aperture, surrounding said punch and having an external and internal bearing on the peripheral surfaces of said die aperture and said punch, said shedder having external and internal grooves to prevent scoring of its bearing surfaces, the helices of the external groove being differently spaced between helices than the helices of the internal groove.

2,322,548
FILTER
Miroslav Sigmund, Gosforth, Newcastle-on-Tyne, England
Application July 1, 1941, Serial No. 400,614
In Great Britain January 31, 1940
7 Claims. (Cl. 183—70)



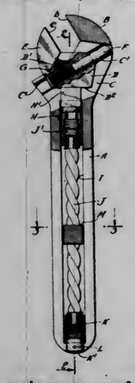
1. A filter insert comprising a single, relatively wide strip of sheet filtering material wound into a structure having a number of successive convolutions of increasing diameter, the total space between the convolutions being divided into a number of smaller spaces isolated from one another in the circumferential direction, and narrow, relatively short strip portions of relatively thick impervious material applied alternately to opposite edge portions of said strip of filtering material before winding to space the convolutions from one another and close one axial end of each of the smaller spaces between convolutions in such a manner that smaller spaces which are adjacent to each other in radical direction are separated by a layer of filter material and closed at opposite axial ends.

2,322,549
TILTING SWITCH ALARM OR SIGNAL
Marius Sorensen, Astoria, N. Y.
Application May 23, 1940, Serial No. 336,772
4 Claims. (Cl. 200—52)



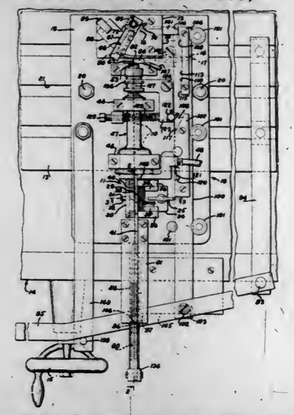
1. A switch of the character described comprising a member having an opening, an insulating tube mounted within said opening for free rotation about the axis of said tube, a pair of terminals thereon, a pendulum connected to one of the terminals and suspended within said tube, a conductor within the tube and adapted to be engaged by the pendulum when the switch is tilted, said conductor being connected to the other terminal, and means for mounting said member for rotation about an axis perpendicular to the axis of rotation of said tube.

2,322,550
WRENCH
Rudolph Steinacher, New York, N. Y.
Application November 12, 1942, Serial No. 465,317
2 Claims. (Cl. 81—165)



1. In a sliding jaw wrench, the combination of a handle member having at one end an enlarged head portion which includes a jaw and is transversely slotted to provide jaw and abutment guideways respectively inclined and parallel to the longitudinal direction of said member, a sliding jaw having a shank received in, and movable longitudinally of, said jaw guideway, a spring acting between said member and sliding jaw and tending to spread said jaws apart, a nut received and longitudinally movable in said abutment guideway and engaging said sliding jaw and holding the latter against movement away from said stationary jaw, a strut mounted in said handle member for rotation about an axis extending longitudinally of the handle member and having one end in threaded engagement with said nut and having its other end in oppositely threaded engagement with said member and means to rotate said strut whereby on its rotation it will simultaneously adjust itself relatively to said member and relative to said nut and by each of said relative adjustments cam said sliding jaw toward said stationary jaw or to permit it to move away from said stationary jaw under the action of said spring, depending on the direction of rotation of said strut.

2,322,551
ARTICLE HANDLING APPARATUS
John S. Stull, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 28, 1942, Serial No. 432,875
6 Claims. (Cl. 51—105)

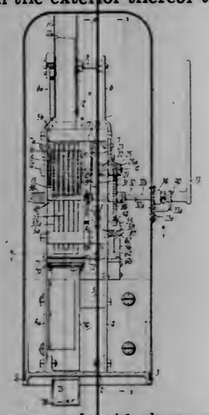


1. An article handling apparatus comprising a rotatable chuck, a hollow spindle carrying said chuck, means for yieldably advancing an article through said spindle into the chuck, an article receiving device including a member movable into position to receive a finished article for transfer, said member having a portion effective in one position as a stop for a new article being inserted into the chuck, and means for moving said member first to receive the finished article and thereafter to position the stop portion for the new article.

2,322,552
DISPENSING APPARATUS
Ernest J. Sweetland, Piedmont, Calif.
Application October 29, 1940, Serial No. 363,303
8 Claims. (Cl. 91—14)

6. An apparatus for dispensing strip material which comprises a casing; a dispensing aperture in said casing; means within said casing to support a supply of strip material; means for measuring a pre-determined length of said strip material; shear means to cut off a portion of said strip material; a chute to receive a measured

strip of material and conduct the same to the dispensing aperture; said chute being greater in length than the measured length of strip material; means mounted upon said casing and controllable from the exterior thereof to actuate said



measuring means and said shear means; means co-acting with said exteriorly controlled means for moistening the measured strip of material during its passageway through said chute.

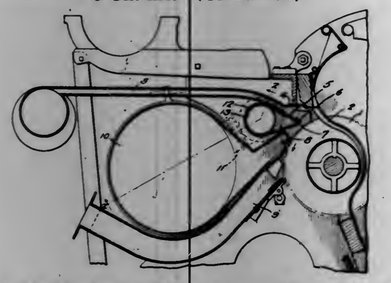
2,322,553

AIR BLAST GIN WITH VALVE CONTROLLED PNEUMATIC MOTE DISCHARGE

Jeffrey J. Wallace, Amite, La., assignor to Gullett Gin Company, Amite, La., a corporation of Louisiana

Application October 6, 1941, Serial No. 413,860

6 Claims. (Cl. 19—58)



1. Air blast gin of the pneumatic moting type comprising a saw cylinder and cooperating ginning ribs, means forming a moting chamber confronting the saw cylinder in the region of centrifugal mote discharge adjacent said ribs, a mote discharge duct with which said moting chamber communicates, a lint discharge flue confronting said saw cylinder in a region remote from said ribs, and a pneumatic system for mote disposal and lint removal comprising a moting blast nozzle in said moting chamber and a lint removing blast nozzle in operative relation to said saw cylinder and lint flue, a compressed air reservoir, conduits from said reservoir to said nozzles, that conduit which serves the moting blast nozzle extending parallel to said nozzle and opening thereinto uniformly throughout the length of said nozzle, said conduit having an extension beyond one end of said nozzle, through which extension said reservoir communicates with said nozzle, and a valve in said extension controlling the communication of said reservoir with said conduit for varying the volume of air delivered to said conduit and an air volume regulating valve in the conduit to said moting blast nozzle.

2,322,554

OIL REFINING

Charles C. Winding, Ithaca, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application April 9, 1941, Serial No. 387,608

15 Claims. (Cl. 196—147)

1. A process for refining oil comprising contacting said oil with an active magnesium oxide composition prepared by controlled calcination of artificially precipitated magnesium carbonate.

2,322,555

ADSORBENT AND TREATMENT OF OIL THEREWITH

Charles C. Winding, Ithaca, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application April 23, 1941, Serial No. 389,892

12 Claims. (Cl. 196—147)

1. An oil-refining agent comprising a composition of matter formed by calcining a magnesium carbonate at a temperature below 450° C. but above 300° C.

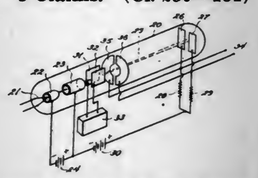
2,322,556

ELECTRONIC RELAY

Herbert Ziebolz, Chicago, Ill., assignor to Electronbeam, Incorporated, Chicago, Ill., a corporation of Delaware

Application April 22, 1942, Serial No. 440,075

3 Claims. (Cl. 250—151)



1. An electronic translating device comprising, means for producing an electronic beam, a pair of main anodes mounted on opposite sides of the path of said beam, means adjacent said path for deflecting said beam relative to said anodes and being capable of deflecting said beam beyond the outer boundaries of said anodes, a pair of interceptor anodes positioned on opposite sides of said path in front of said main anodes to intercept said beam when deflected beyond the outer boundaries of said main anodes, and an electrical connection connecting each interceptor anode with the corresponding main anode on the same side of the beam.

2,322,557

SYSTEM OF ELECTRICAL DISTRIBUTION

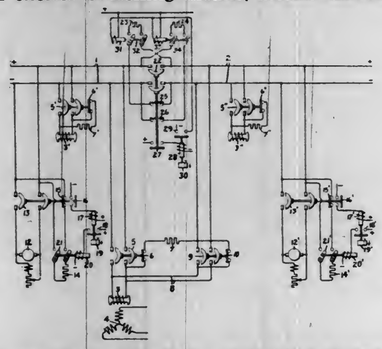
Arvid E. Anderson, Haverford Township, Delaware County, Pa., assignor to General Electric Company, a corporation of New York

Application October 14, 1942, Serial No. 461,942

14 Claims. (Cl. 171—97)

14. In combination, an excitation bus comprising a plurality of bus sections, a plurality of dynamo-electric machine excitation circuits, switching means for selectively connecting and disconnecting said excitation circuits to and from

said bus, a plurality of discharge resistors arranged one with each excitation circuit, means associated with each of said switching means for connecting its associated discharge resistor in a closed circuit with its associated excitation circuit continuously when said excitation circuit is disconnected from said bus, exciter switching means arranged one with each exciter for selectively connecting and disconnecting said exciters to and from said bus, a discharge resistor for each exciter switching means, means associated



with each of said exciter switching means for momentarily connecting its associated discharge resistor across said bus when said exciter switching means is operated to disconnect its associated exciter from said bus, bus-tie switching means interposed between said bus sections, discharge resistors associated with said bus-tie switching means, and means associated with said bus-tie switching means for momentarily connecting an associated discharge resistor across each of the disconnected bus sections.

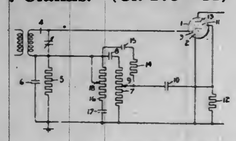
2,322,558

TONE CONTROL MEANS

William S. Bachman, Fairfield, Conn., assignor to General Electric Company, a corporation of New York

Application February 19, 1942, Serial No. 431,587

7 Claims. (Cl. 178—44)



1. In combination, a source of audio frequency currents, an impedance connected across said source having a tap, a utilization circuit connected between one side of said source and said tap, a condenser and a resistance connected in series across said utilization circuit and a connection from the other side of said source to a point variable along said resistance.

2,322,559

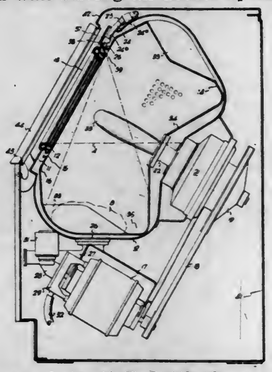
LAUNDRY APPARATUS

Stuart R. Baird, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 24, 1940, Serial No. 315,371

1 Claim. (Cl. 68—24)

In a machine for washing fabrics, the combination of a tub for containing a body of washing water and having an access opening in one end thereof, a rotatable perforate basket disposed within the tub and having its axis of rotation disposed at an acute angle from the vertical, said basket including upper front and lower rear end walls and a side wall generally circular in cross section and connecting the end walls, said side wall diverging from the end walls and defining a region of the basket of relatively large diameter intermediate the end walls thereof, said upper front end wall having an access opening therein



registering substantially with the access opening of the tub, and means for admitting water to the tub and including a nozzle carried by the tub and spaced radially outwardly from an upper portion of the access opening thereof, said nozzle being disposed above a portion of the side wall of the basket and arranged to direct water downwardly through the access opening of the basket and into engagement with the side wall of the latter.

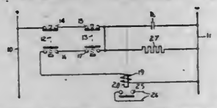
2,322,560

SAFETY SYSTEM

Francis M. Beck, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 29, 1942, Serial No. 428,737

12 Claims. (Cl. 175—294)



1. An electric safety control system for timing an operation comprising controlled electro-responsive means, time element energizing means for said electro-responsive means, and a plurality of independent switching means arranged jointly to control said electro-responsive means, said switching means having contacts arranged normally to connect said time element energizing means to a source of electric supply and upon actuation of all said switching means to connect said electro-responsive means to said time element energizing means and to disconnect said energizing means from said source.

2,322,561

AUTOMATIC BALANCING OF ROTATING BODIES

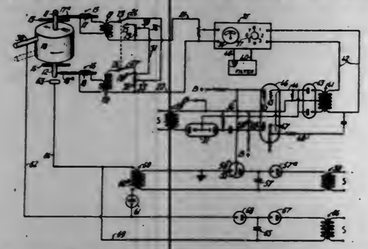
James E. Bevins, Ardmore, Pa., and Henry Konet, Ridgefield Park, N. J., assignors to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware

Application March 25, 1942, Serial No. 436,208

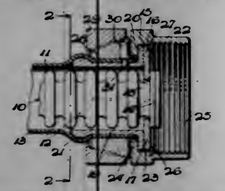
9 Claims. (Cl. 219—15)

1. Apparatus for analyzing the unbalance of a rotatable body including the combination of

means rotatably supporting the body to permit substantial vibration thereof under the action of unbalanced masses in the body, a vibration responsive device operatively associated with the body for generating periodic impulses timed in accordance with its vibrations, means dependent on the timing of such impulses for generating a spark at the surface of the body at the point of location of the unbalanced masses, and means connected to and controlled during the operation of said last-named means to burn the sparked surface of the body to compensate for said unbalanced masses.

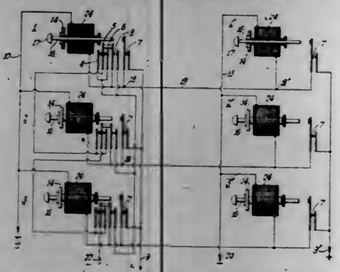


2,322,562
CONNECTOR
Arthur D. Blanchard, Bloomfield, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 9, 1941, Serial No. 414,356
2 Claims. (Cl. 285—72)



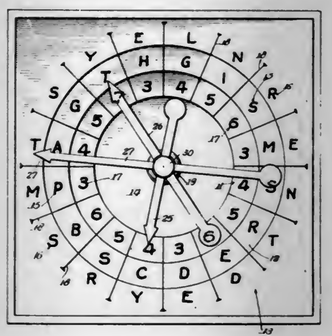
1. A connector comprising a section of conduit having a circumferentially grooved portion, a split washer positioned upon said circumferentially grooved portion, a threaded nut embracing said washer, an inwardly projecting annular flange formed on said nut and a retaining member carried in said nut and confining said split washer therein.

2,322,563
REMOTE CONTROL
William A. Bruno, Astoria, Long Island, N. Y., assignor to Bruno Patents Inc., Long Island City, N. Y., a corporation of New York
Application August 27, 1941, Serial No. 408,428
3 Claims. (Cl. 175—320)



1. In a system of coordinated control devices for local and remote operation of electric circuits, said system comprising a first unit of control devices and at least one further unit of control devices, said control devices being provided with depressible members and adapted to be electrically connected in a circuit, means for supplying current to said circuit, means housed by said first unit of control devices, and adapted to interrupt the flow of current in said circuit and resetting any previously set up combination in said devices, upon depressing one of the depressible members in one of the devices of said first and the further units, means for actuating the depressible members corresponding to said depressed member of the coordinated device by the electromagnetic action of a full current, and means for retaining said depressible members in their operative position by the electromagnetic action of a reduced current.

2,322,564
GAME APPARATUS
James M. Buckley and Thomas F. Clarey, Chicago, Ill., assignors to Club Aluminum Products Company, Chicago, Ill,. a corporation of Delaware
Application August 20, 1942, Serial No. 455,450
6 Claims. (Cl. 35—35)



1. A game apparatus embodying a board one face of which is provided with a plurality of steps encompassing a central portion thereof to provide spaces of different cross-sectional dimensions, the faces of said steps having thereon indicia, an upright encompassed by said steps, and a plurality of rotatable indicators mounted upon said upright for spinning movement, said upright being stepped to form supports individual to the said indicators, whereby each indicator will be free from the weight of the other indicators, said indicators being independent of each other in their movements, each of said indicators being individual to one of said faces.

2,322,565
COMPOSITION FOR THE TREATMENT OF IVY POISONING
Robert M. Cole, Bryn Athyn, Pa.
No Drawing. Application September 8, 1939, Serial No. 293,920
2 Claims. (Cl. 167—58)

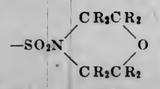
1. A composition for treating ivy poisoning containing water, urea and casein.

2,322,566
AMINOPLAST MODIFIED WITH OXANILIC ACID
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application October 26, 1940, Serial No. 363,037
12 Claims. (Cl. 260—70)

1. A heat-curable resinous composition comprising a potentially heat-curable aminoplast modified with oxanilic acid.

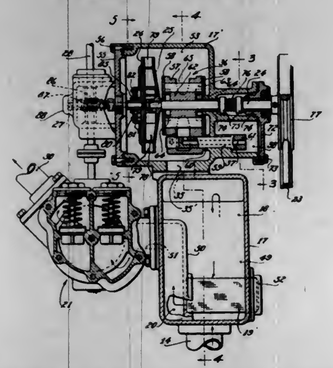
2,322,567
PLASTICIZED AMINOPLAST
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application November 12, 1940, Serial No. 365,379
14 Claims. (Cl. 260—33)

1. A composition of matter comprising a potentially heat-curable aminoplast and an aryl compound having attached to the aryl nucleus at least one radical corresponding to the structural formula



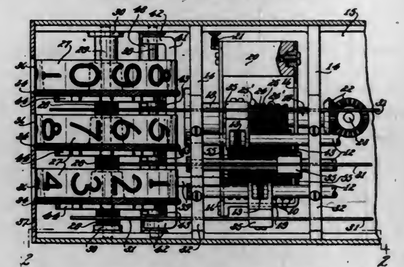
where R represents a member of the class consisting of hydrogen and monovalent hydrocarbon radicals, any other radicals attached to the said aryl nucleus being members of the class consisting of halogeno, alkyl, hydroxy, alkoxy and aryloxy radicals.

2,322,568
SCAVENGING PUMP
Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Original application July 24, 1940, Serial No. 347,288. Divided and this application February 24, 1941, Serial No. 380,151
1 Claim. (Cl. 230—20)



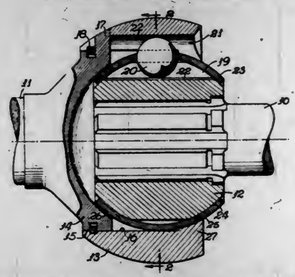
A scavenging pump for eliminating gases from the vent of a gas and liquid separator, comprising, casing means affording a pump chamber with an inlet thereto and an outlet therefrom, positively-acting pumping means in said chamber, said means being shiftable to vary the rate of pumping of said means from a minimum to a maximum, said inlet adapted for connection to said vent, said outlet having a portion of restricted area sufficient to pass all the air that said means can pump when working at its maximum rate but insufficient to pass all the liquid that said means can pump when working at such rate, whereby after the scavenged gases have been expelled and liquid enters the outlet a rise of pressure occurs in the outlet, and means responsive to said rise in pressure to shift said means to decrease its pumping rate and responsive to a decrease in pressure in said outlet to increase the pumping rate.

2,322,569
MECHANICAL MOVEMENT FOR SHIFTING GEARS
Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application December 29, 1941, Serial No. 424,764
7 Claims. (Cl. 74—342)



1. In combination, a gear set consisting of a plurality of gears, a plurality of shiftable gears each selectively engageable with the gears of said set, means one for each shiftable gear for moving such gear from one selected gear of said set to another, and a single means operable on actuation of any of the first-named means and during the initial and latter part of the movement thereof to respectively unmesh and mesh the gear set from and with all said shiftable gears.

2,322,570
UNIVERSAL JOINT
Adiel Y. Dodge, Rockford, Ill.
Application December 26, 1941, Serial No. 424,390
3 Claims. (Cl. 64—21)



1. In a constant velocity universal joint, the combination of male and female rotary elements providing an even number of pairs of ball raceways equally spaced circumferentially and extending in a generally axial direction with the raceways of each pair crossing each other and with each raceway inclined opposite to that of at least one of the next adjacent raceways in the

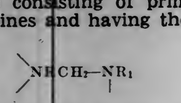
same element, a ball located at the crossing of each pair of raceways, and a cage embracing said balls and confining the same in a plane that is movable about the point of intersection of the axes of said elements, there being exactly eight of said balls and pairs of raceways.

2,322,571
MODIFIED VINYL PLASTIC
Brook J. Dennison, Aspinwall, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application April 25, 1941, Serial No. 390,345
3 Claims. (Cl. 260—36)

2. A modified vinyl plastic composition comprising about 67 to 74% of polyvinyl acetal resin, the remainder of the composition being essentially glyceryl alpha, gamma dialkyl ether, in which the alkyl radicles each contain from 4 to 6 carbon atoms.

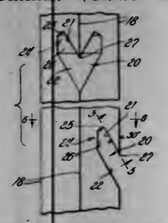
2,322,572
PRODUCTION OF AROMATIC AMINES
Harry L. Fisher, Stamford, Conn., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia
No Drawing. Application August 3, 1940, Serial No. 351,143
6 Claims. (Cl. 260—577)

1. The method of producing compounds of the class consisting of aromatic and alicyclic amines with at least one methyl group attached to the cyclic structure which comprises subjecting a compound capable of being formed by the reaction of formaldehyde with an amine selected from the group consisting of primary and N-alkyl phenyl amines and having the radical



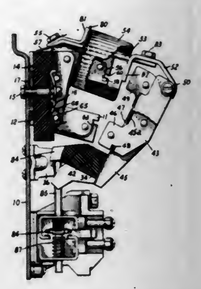
in which R and R_1 are benzene nuclei to hydrogenolysis by the action of hydrogen in the presence of a hydrogenation catalyst in a medium maintained at a pH ranging from about 5 to about 9.

2,322,573
FELTING NEEDLE
Edson P. Foster, Evanston, Ill.
Application December 9, 1940, Serial No. 369,165
5 Claims. (Cl. 28—4)



1. As a new article of manufacture, a felting needle having a body of substantially uniform cross-section provided with downwardly and outwardly inclined slots open at their lower ends each having an upper wall, a lower wall substantially parallel with said upper wall, an end wall extending inward of said body from the inner end of said upper wall substantially perpendicular thereto of materially less length than the distance between said upper and lower walls, and a fourth wall connecting the inner end of said end wall and the inner end of said lower wall substantially parallel with said body and at least as long as the distance between said upper and lower walls.

2,322,574
ELECTROMAGNET
Leon J. Goldberg, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application July 17, 1940, Serial No. 345,969, now Patent No. 2,291,465, dated July 28, 1942. Divided and this application May 15, 1941, Serial No. 393,551
4 Claims. (Cl. 175—336)

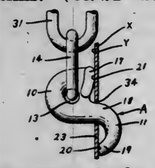


1. An electromagnet comprising a U-shaped magnet core having two legs of substantially equal length with transverse pole faces on their ends lying in a common plane, a coil surrounding one of said legs having an axial length substantially greater than the length of said one leg so that the pole face on said one leg is in the interior of said coil and one end of said coil projects beyond said one leg, said coil being substantially larger than said one leg, means supporting said coil on said one leg in position with the outer end of said coil tilted toward the other one of said legs, a pivoted armature supporting member, and a U-shaped armature loosely mounted on said supporting member with its two legs extending toward said pole faces so as to be movable with said supporting member into abutting engagement with said pole faces, the leg on said armature engaging said one leg being long enough to extend through said projecting end of said coil.

2,322,575
PREPARATION OF CELLULOSE MIXED ESTERS
Julian W. Hill, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 1, 1941, Serial No. 381,391
8 Claims. (Cl. 260—225)

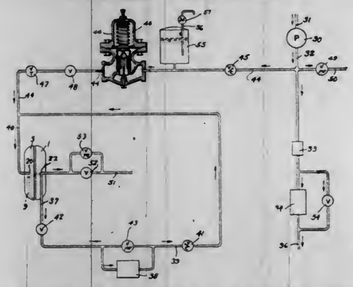
1. The process which comprises reacting cellulose in contact with from 15% to about 50% by weight, based on the weight of the cellulose, of a saturated aliphatic aldehyde, with an esterifying reagent comprising an unsubstituted aliphatic monocarboxylic acid containing from 2 to 4 carbon atoms and an anhydride of a different unsubstituted aliphatic monocarboxylic form directly partially esterified mixed esters of acid, until said cellulose is dissolved, whereby to cellulose.

2,322,576
HOOK STRUCTURE
Paul Huebshman, Dearborn, and Gerald D. Stough, Detroit, Mich., assignors to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan
Application March 9, 1942, Serial No. 433,984
3 Claims. (Cl. 24—230.5)



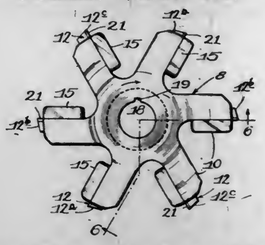
2. A hook structure of the class described having a body portion and a neck portion, the body portion having an opening constituting an eye for receiving a part of a tensioning chain or cable, the neck portion being an open return bent edgewise extension of the body and being insertable through a hole in a sheet metal element, the body having a cross bar extending at substantially right angles to said neck portion, the free end of the neck portion and the outer face of said cross bar being rounded and arranged in such a way relative to each other that they constitute a fulcrum and a reaction element respectively after the neck portion has been inserted in the hole in the sheet metal element to exert forces in opposite directions against opposite sides of said sheet metal element when the body is subjected to tension by the chain or cable along a line substantially parallel to one side of said sheet metal element.

2,322,577
HYDRAULIC CLUTCH STRUCTURE
Austin Kuhns and Emil R. Gasser, Buffalo, N. Y., assignors to Farrel-Birmingham Company, Incorporated, Buffalo, N. Y., a corporation of Connecticut
Application October 12, 1940, Serial No. 360,878
2 Claims. (Cl. 60—54)



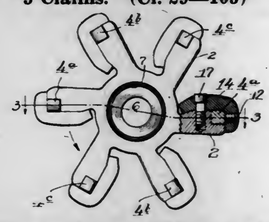
1. A power transmission assembly comprising a hydraulic coupling having an impeller element for connection with a driving source, a runner element, reduction gearing in driven connection with said runner element, bearings for said reduction gearing, an oil reservoir, a pump in driven connection with said runner element and having an inlet in fluid communication with said reservoir, a discharge line connected for lubrication of said bearings, said pump having an outlet connected to said discharge line to lubricate said bearings, means independent of the pump outlet oil pressure to automatically divert oil normally flowing to said bearings at the starting of said coupling to fill said coupling and responsive to a predetermined coupling oil pressure to restore normal flow of oil to the bearings, said means comprising a branch line connecting said discharge line with said coupling, and valve means inserted in said branch line including means independent of pump pressure constantly acting to open said valve and responsive to a predetermined pressure in said coupling to close said valve.

2,322,578
SIDE MILLING CUTTER
Alois Kutscha, Chicago, Ill.
Application September 28, 1940, Serial No. 358,844
7 Claims. (Cl. 29—105)



1. A side milling cutter for a milling machine comprising a cutter head having a series of laterally projecting spaced arms, a downwardly and outwardly inclined slot in each of said arms with successive slots varying in inclination, a cutting blade slidably mounted in each slot, means for adjusting said blades both radially and axially of the head to give optimum cutting efficiency, and means for locking each blade in adjusted position.

2,322,579
MILLING CUTTER ASSEMBLY
Alois Kutscha, Chicago, Ill.
Application June 27, 1942, Serial No. 448,714
5 Claims. (Cl. 29—105)

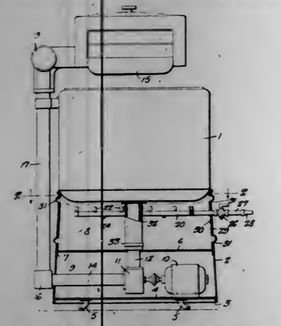


1. A milling cutter assembly comprising a cutter head having a plurality of spaced arms, an axially extending slot provided in the end of each arm with the slots in adjacent arms being located at varying radii from the axis of rotation, a blade adjustably mounted in each slot and provided with a tapered inner end, a retaining plate adapted to closely conform to a side and end of each arm for encompassing the blade, means for anchoring each plate to a side wall of the arm, a set screw in said plate for engaging the tapered inner end of the blade for adjusting it axially, and means for locking the blade in its adjusted position.

2,322,580
WASHING MACHINE HEATER
Gerard M. Lumley, San Antonio, Tex.
Application December 10, 1941, Serial No. 422,444
1 Claim. (Cl. 219—38)

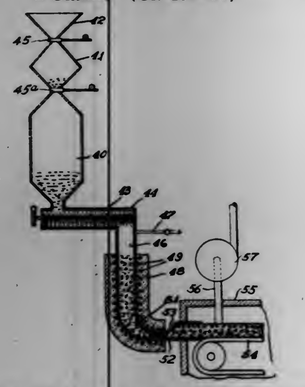
In a washing machine, a cylindrical tub having

a shaft opening in the bottom, a cylindrical skirt depending from the bottom peripheral edge of the tub, a horizontal wall secured to the bottom of the said skirt, a horizontal partition secured within the skirt intermediate the said bottom wall and the tub to provide upper and lower chambers within the skirt, the said partition having an opening in vertical alignment with the opening in the bottom of the tub, a motor mounted in the lower chamber operable to drive



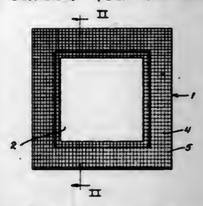
a vertical shaft extending through the aligned openings in the partition and tub, a tubular housing enclosing the said shaft within the upper chamber, means for insulating the said shaft housing and circumferential wall of the chamber, the said upper chamber wall having circumferentially elongated openings therein, and heating means supported within the upper portion of the said upper chamber in close heating proximity to the bottom of the tub.

2,322,581
MANUFACTURE OF CELLULAR BODIES
William O. Lytle, New Kensington, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application January 22, 1938, Serial No. 186,382
1 Claim. (Cl. 49—77)



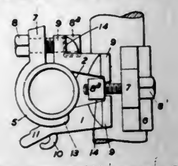
A process of preparing heat-resistant cellular masses, which process comprises dropping a mixture of a heat-resistant thermoplastic material and an agent decomposable by heat to form a gas, said thermoplastic material having a sintering point below that of decomposition of the agent and having a temperature of complete melting above that of decomposition of the agent, through a chamber so heated that the mixture while falling is heated approximately to the sintering temperature of the material, collecting the heated mixture as it falls in a body in the lower portion of the chamber, the mixture being brought by the heat in the chamber to an ultimate temperature above that of sintering of the material and decomposition of the agent, but below that of complete melting of the material, then extruding the sintered and coherent mass containing many bubbles of gas entrapped therein through an orifice at the base of the chamber to form a cellular mass.

2,322,582
LAMINATED GLASS
Herman R. Marini, New Kensington, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application June 14, 1940, Serial No. 340,505
4 Claims. (Cl. 154—2.74)



1. A laminated glazing unit comprising a sheet of mesh material having its central portion open to define an endless framing member, a plastic interlayer having the mesh embedded therein and along its edges to form a border of plastic and mesh, and glass plates adhered to opposite sides of the interlayer, the inner edges of the mesh extending inwardly of the glass plate edges and the outer edges of the mesh extending outwardly beyond the glass edges.

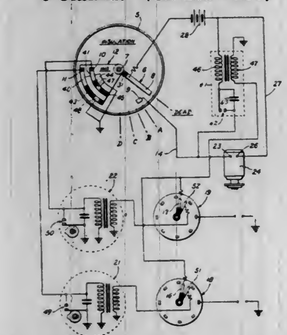
2,322,583
CLAMP OR COUPLING FOR CONNECTING SCAFFOLD POLES OR OTHER SOLID OR HOLLOW ELONGATED BODIES
Arnold Clarence Marshall, Thornton Heath, England
Application March 10, 1942, Serial No. 434,056
In Great Britain March 13, 1941
7 Claims. (Cl. 24—81)



7. A clamp for connecting scaffold poles or other elongated bodies comprising a body part formed in two parts, means pivotally connecting said parts, a pole engaging recess upon the outer face of one part, a pole engaging recess upon the outer face of the other part, a clamping member for each recess, a recess in each of said members for engaging a pole, a curved tongue at the inner end of each clamping member, a perforation at the outer end of each member, a bolt engaging the perforation, a projection upon the body of the clamp, an open ended slot in said projection for the passage of the bolt, projections upon the body of the clamp, a perforation in each projection each designed to engage a curved tongue at the inner end of each clamping member, and to thereby hingedly connect the clamping member to the

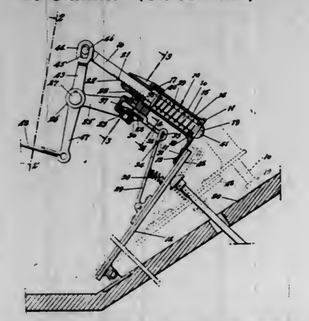
body of the clamp in such a manner that there is a sliding connection between the cap and the body of the clamp so that said cap may adjust itself to the pole in such a manner that there is a substantially continuous line of contact at all times all around the pole, and extensions arranged one upon each side of the projection upon each clamping member, said extensions being adapted to serve as guides to facilitate the closing of the clamp and assist in maintaining the clamping member in a closed position before the bolt is screwed home, to secure said clamping member in its closed position.

2,322,584
INTERNAL COMBUSTION ENGINE CONTROL
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 31, 1940, Serial No. 363,781
6 Claims. (Cl. 123—186)



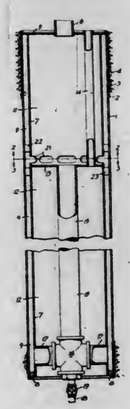
1. The combination, with an internal combustion engine magneto, of engine starting means comprising a member for imparting initial rotary movement to the engine and an induction coil for facilitating ignition of fuel during operation of said member, and common means for controlling energization of both said starting means and said induction coil, said common means also acting to render said magneto ineffective so long as said member and induction coil remain energized.

2,322,585
GAS REGULATOR PEDAL ATTACHMENT
Edmond Ojalvo, New York, N. Y.
Application February 27, 1943, Serial No. 477,392
10 Claims. (Cl. 74—526)



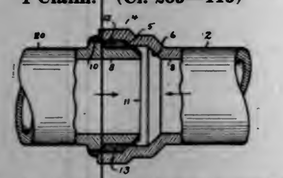
1. In combination with the gas pedal of an automobile, a device for limiting the operative movement of the pedal comprising a supporting member attached to the pedal and immovable with respect thereto, a plunger slidably supported by said member, the plunger being movable between a predetermined normal retracted position at which the lower terminal of the plunger is at a level not below the undersurface of the pedal, and a predetermined maximum projected position at which said lower terminal is below said undersurface, the said lower terminal of the plunger being abuttable with the floor of the car, yieldable means normally maintaining said plunger in its retracted position, manually manipulable means for depressing said plunger to a selected projected position below said retracted position, whereby the maximum downward movement of the pedal will be correspondingly limited, and holding means for operatively maintaining said plunger in any projected position against the action of said yieldable means.

2,322,586
FILTER
Edwin Letts Oliver, Piedmont, Calif., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application February 24, 1942, Serial No. 432,120
1 Claim. (Cl. 210—154)



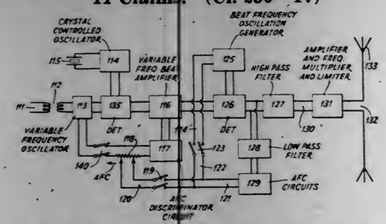
A thickener tube comprising: a perforate shell; a closure plate secured to and over the upper end of said shell and formed with a fluid outlet; an imperforate sleeve of smaller diameter than said shell concentrically disposed within said shell and secured to said closure plate, said shell and sleeve together defining an annular filtrate compartment; a closure member secured to the lower ends of said shell and sleeve for closing the lower end of said filtrate compartment; a partition member secured to said sleeve intermediate its ends for dividing said sleeve into upper and lower compartments, said sleeve being formed with a plurality of ports above said partition member; a vent pipe extending between said closure plate and said partition and communicating with said lower compartment and a zone immediately above said closure member; and a conduit depending from said partition member into said lower compartment and communicating with said upper compartment and the lower end of said filtrate compartment.

2,322,587
PIPE JOINT
Thomas F. Payne, Cincinnati, Ohio
Application July 21, 1942, Serial No. 451,702
1 Claim. (Cl. 285—115)



A bell-and-spigot pipe joint comprising two pipe members, one having a bell portion including internally two concentric beveled shoulders of unequal diameters, and the other having a spigot portion adapted to enter said bell portion and to be arranged with the terminal of the spigot portion positioned opposite the shoulder of smaller diameter, said spigot portion having spaced from its terminal a beveled annular rib which forms, with the beveled shoulder of larger diameter within the bell portion, a closed cement-receiving chamber.

2,322,588
TRANSMITTING SYSTEM AND APPARATUS
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 22, 1941, Serial No. 384,628
11 Claims. (Cl. 250—17)



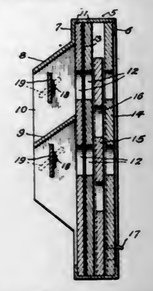
1. In a transmitting system, a generator of variable frequency, a generator of constant frequency, means for varying the frequency of waves generated by the variable frequency generator in accordance with a signal, means for beating the variable frequency waves so produced against waves derived from said constant frequency generator, means for heterodyning a portion of the beat waves to a still higher frequency and transmitting the same, and means for utilizing another portion of the beat frequency waves to automatically frequency control said variable frequency oscillation generator.

2,322,589
POLISHING MACHINE
Theodore F. Philippi, East St. Louis, Ill.
Application April 29, 1940, Serial No. 332,257
8 Claims. (Cl. 51—143)



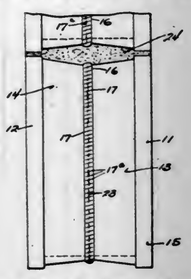
8. A polishing machine comprising a work support, polishing means located above said support for vertical movement relative thereto, and means for substantially counterbalancing the weight of said polishing means, said counterbalancing means comprising a lever disposed below the level of said polishing means and pivotally supported intermediate between its ends for vertical swinging movement, an extensible longitudinally cushioned prop pivotally supported on one arm of said lever and extending upwardly therefrom into engagement with said polishing means to provide a removable support therefor, and counterbalancing weights mounted on the other arm of said lever.

2,322,590
WINDOW VENTILATOR
Glenroy Pickering and Frank O. Pickering, Marietta, Ohio
Application March 20, 1941, Serial No. 384,394
1 Claim. (Cl. 98—99)



A window ventilator comprising a frame adapted to be positioned between a window sash and its sill, spaced stationary members within the frame, said spaced stationary members having aligning openings, a movable member having openings, disposed within the space between the stationary members, the openings of the movable member adapted to align with the openings of the stationary members admitting air through the ventilator, wide downwardly inclined flanges extending forwardly from the frame and providing a hood, wide horizontally disposed shutter members pivotally mounted within the hood and disposed in spaced relation with the openings of the stationary members, said shutters being disposed in direct alignment with the openings of the ventilator, said shutters adapted to be adjusted to obstruct the passage of air through the aligning openings, and means for operating the shutters simultaneously.

2,322,591
NONGLARE GLASS BUILDING BLOCK
George M. Rapp, Mount Lebanon, Pa., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa., a corporation of Pennsylvania
Application April 19, 1940, Serial No. 331,593
5 Claims. (Cl. 88—60)



1. A hollow glass building block comprising

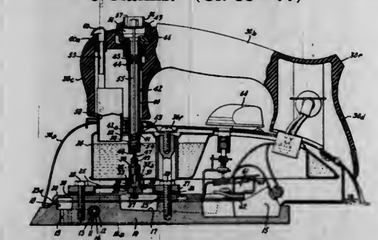
tray-like sections providing opposed faces and having mating lips joined together to provide a hollow chamber and a non-glare screen disposed within the chamber in a plane approximately paralleling the faces, said screen comprising a light intercepting member secured to a plurality of parallel rods, the extremities of the rods being secured between the mating lips of the sections.

2,322,592
ASBESTOS-CEMENT PIPE
Ernest Wayne Rembert, Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application May 29, 1941, Serial No. 395,712
2 Claims. (Cl. 138—86)



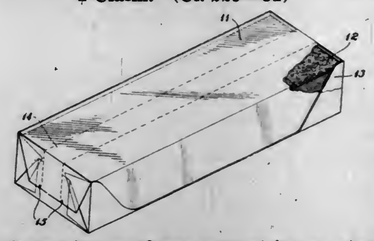
1. Pipe comprising a highly compressed hydrated asbestos and Portland cement composition in hardened condition, the proportion of asbestos being not less than 20 parts or more than 40 parts by weight to 100 parts dry weight of the asbestos and cement, and said product being characterized by a dry density of at least 108 lbs. per cubic foot.

2,322,593
PRESSING IRON
Frederick W. Riddington and Frank E. Finlayson, Ontario, Calif., assignors to General Electric Company, a corporation of New York
Application June 9, 1942, Serial No. 446,328
6 Claims. (Cl. 38—77)



3. A steam iron comprising a water reservoir, a steam generating chamber under said reservoir, means for heating said chamber to generate steam from water supplied to it from said reservoir, a valve controlling the flow of water from said reservoir to said steam generating chamber, a tubular member extending up through said reservoir connected to said valve constituting an operating member therefor and also a supply duct having an opening leading to said reservoir through which water is fed to said reservoir, an operating member for said tubular member connected to its upper end and provided with a recess therein, a second valve located in said tubular member arranged when in a first position to close said opening to prevent the flow of water from said reservoir back into said tubular member and when in a second position to open said opening, a spring in said tubular member biasing said second valve to said first position, a rod connected to said second valve extending upwardly through said tubular member, and cup shaped cap attached to the upper end of said rod located in said recess in said operating member and constructed and arranged to open said second valve when it is depressed, and also to function as a fill funnel for said tubular member.

2,322,594
DISPENSING PACKAGE
Ralph C. Russell, Arden, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 2, 1940, Serial No. 312,107
1 Claim. (Cl. 229—51)



A dispensing package comprising a stack of interfolded limp tissue paper sheets in an elongated rectangular open-topped integral cardboard tray whose corners delineate the corners of the package, the ends of said tray being full and the sides being partly cut away to expose the folded sheets to view, a rectangular transparent regenerated cellulose sheet wrapper therefor having a regenerated cellulosic tearing tape extending medially thereacross, the said wrapper being folded about the tray with its overlapping edges forming a seam across the bottom and the tear strip extending longitudinally across the top of the tray, the wrapper having folded, tucked and sealed ends at the respective ends of the tray including down-turned exposed tabs extending partway down the ends of the tray and exposing the ends of the tape, said tape being on the inside of the said wrapper and having an end accessible to permit grasping with the fingers, said tape also being secured to the wrapper with sufficient tenacity to cause shearing out of a conterminous section of the wrapper to provide dispensing aperture across the top of the package when the tape is pulled away from the package.

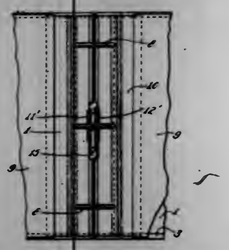
2,322,595
LOOSE-LEAF BOOK CONSTRUCTION
John Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application November 24, 1941, Serial No. 420,179
4 Claims. (Cl. 129—17)



1. A loose-leaf binder comprising covers, back panel and loose leaf mechanism fastened together with hinges of flexible material, said mechanism consisting of two complementary blocks hinged to come together as a composite block having generally arch-shaped top and bottom surfaces, two sets of complementary ring halves carried by said blocks, the latter being fastened as by adhesive to the back panel to stiffen the latter and give a curved form, a flexible

strip extending from each cover across its hinge portion to strengthen the latter and over the top surface of the adjacent block to a line near its top edge, the strip being fastened down as by adhesive, the top portion of each block having a small shoulder against which the end of the strip abuts, means to hold the blocks together in abutting relation and to release them to respectively close and open the ring halves by movement of the blocks on a hinge line along the back panel coinciding with adjacent lower edges of the blocks, each block of such construction having a narrow substantially horizontal shelf against which the inner side edge of the adjacent cover abuts when such cover is closed and substantially contacts with the sides of the rings.

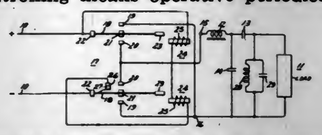
2,322,596
RING BINDER CONSTRUCTION
Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application December 3, 1942, Serial No. 467,673
1 Claim. (Cl. 129—17)



A ring binder construction comprising in combination, two cover panels each including a stiffening board, cardboard for example, a cloth sheet fastened on one side of said board and with margins turned over on three sides of the board and an integral extension from the fourth side forming a wide integral foundation strip on which to build up a back portion, the said cloth extensions of such cover panels having their outer margins turned up like flanges and sewed together on a hinge line at the base of such turned-up portions, a pair of sticks formed in complementary fashion to come together along two flat sides and together formed in cross-section in a general oval form, complementary ring portions fast to said sticks and a latch movable to hold the sides of said sticks together in a positive manner, said latch being carried wholly by said sticks, one of said sticks being nested and fastened in the angle of the cloth extension from one cover panel and the other stick being correspondingly nested and fastened in the angle of the other cloth extension so that said sticks are hinged from their bottom adjacent edges along the sewed line fastening the cloth extensions together, said covers having finishing strips on their inside faces, said cloth sheets one from each cover forming with the sticks the back portion of the binder and hinged on its center line in the way and for the purpose described.

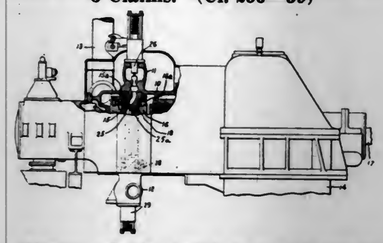
2,322,597
ELECTRIC CIRCUIT
Thomas T. Short, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application October 9, 1941, Serial No. 414,261
6 Claims. (Cl. 175—365)

1. In combination, a source of voltage, a load circuit including inductance, capacitance and a load device connected in series between a pair of terminals, capacitive means connected in series with said inductance and in parallel with said capacitance and load device to regulate the voltage across said load device with respect to the voltage impressed on said terminals, and circuit controlling means operative periodically to



energize said load circuit from said source with a periodic voltage, the overall characteristics of said load circuit being such as to tune said circuit substantially to the period of operation of said circuit controlling means so that the current of said load circuit is periodically reduced to zero to minimize the current interrupting duty of said circuit controlling means.

2,322,598
ELASTIC FLUID TURBINE ARRANGEMENT
Stephen V. R. Simkins, Scotia, and Eugene E. Harris, Watervliet, N. Y., assignors to General Electric Company, a corporation of New York
Application March 22, 1941, Serial No. 384,714
3 Claims. (Cl. 253—39)

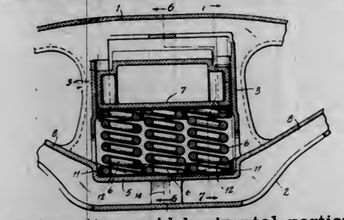


1. Elastic fluid turbine arrangement for furnishing intermediate pressure elastic fluid comprising a turbine casing having an intermediate portion, two circumferentially spaced inlet chests integral with the intermediate portion, a rotor having a shaft with two independent sets of bucket wheels for rotation in the same direction with the first stage wheels of each set adjacent each other disposed within the casing, and means comprising a ring member detachably supported on the casing and sealed to the shaft and forming passages for conducting elastic fluid from one chest to one set of wheels and simultaneously from the other chest to the other set of wheels.

2,322,599
TRUCK SIDE FRAME
Fred H. Spenner, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a corporation of Missouri
Application October 6, 1941, Serial No. 413,778
6 Claims. (Cl. 105—205)

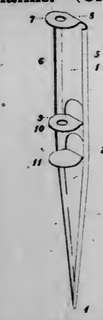
1. A railway car truck comprising integral side frames, bolster springs supported by said side frames and a bolster supported on said springs, each side frame comprising a compression member, a tension member and spaced columns, said tension member comprising outwardly inclined end portions and a horizontal intermediate portion, said portions having spaced apart side walls and a top connecting them, the side walls of said tension member diverging from points outwardly

of the columns to a maximum midway of the length of the horizontal portion, the tops of the inclined portions inwardly of and adjacent to the columns having semicircular recesses whose bottoms are substantially flush with the top of the



horizontal portion, said horizontal portion having, in the region of maximum width only, relatively short brackets substantially flush with its top.

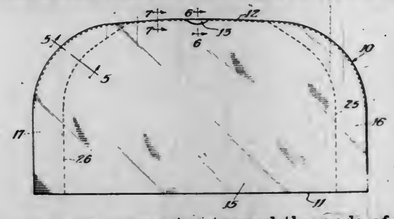
2,322,600
HOLDER FOR THE STAFF OF FLAGS OR THE LIKE
George H. Stahler, Cleveland, Ohio
Application May 15, 1941, Serial No. 393,591
2 Claims. (Cl. 248—44)



1. In a device of the class described, an elongated body portion made of a single piece of metal with the longitudinal edges thereof reversely bent to form a reinforcing bead therealong and having one end tapered to form a spike for insertion into the ground and the other end provided with a holder integrally formed with said body portion for receiving the end of a flag staff, said holder comprising a plurality of integral projections cut out from said body portion and extending normally outwardly in parallel relation from the body portion at spaced points therealong, one of said projections serving to limit the depth of insertion of the spike into the ground, and the other projections having aligned perforations adapted to receive the end of the staff and maintain it in a substantially upright position, said perforated projections being flexible and capable of relative movement out of parallel relationship whereby the staff may be clamped within the perforations against displacements therefrom.

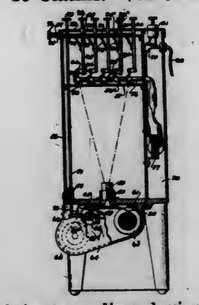
2,322,601
GARMENT PROTECTOR
Charles Strauss, Chicago, Ill., assignor to Arvey Corporation, Chicago, Ill., a corporation of Illinois
Application May 9, 1941, Serial No. 392,641
2 Claims. (Cl. 223—98)

1. An expansible hood type garment protector comprising face portions secured directly to each other at their medial upper marginal edges to form a joint extending along said upper marginal edges and end portions positioned between the side edges of said face portions and having their side edges joined to the side edges of said face portions, said end portions having upper portions



tapering and converging toward the ends of said joint, the upper ends of said tapering portions being secured to said face portions at said ends of said joint, said garment protector having an opening intermediate the ends of said joint.

2,322,602
RECORDING DEVICE
Bennett F. Terry, Stamford, Conn.
Application November 18, 1941, Serial No. 419,610
10 Claims. (Cl. 95—4.5)

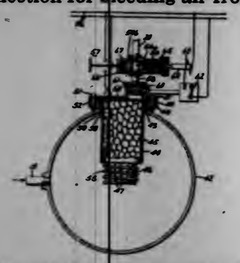


1. In a data recording device, in combination, means to support a light-sensitive record medium, a plurality of data keys associated with said supporting means, shutter means directly connected to and adapted to be opened by said keys, illuminated means normally isolated from and adapted to project a plurality of light beams onto said medium in predetermined relationship to form data exposures thereon, and resetting means for said keys also adapted to close all opened shutters.

2,322,603
AIR DRYING APPARATUS
Carl Thumim, Yeadon, and Percy Bartlett, Springfield, Pa., assignors to General Electric Company, a corporation of New York
Application January 16, 1941, Serial No. 374,792
9 Claims. (Cl. 183—4)

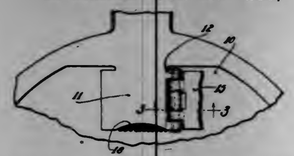
1. An apparatus for removing moisture from a gas comprising a closed tank adapted to store a gas under pressure and having an inlet for admitting gas thereto and an outlet for discharging gas therefrom and valves for retaining gas under pressure in said tank, a removable container secured directly to said tank and arranged in communication therewith, said container being arranged to hold a mass of hygroscopic material and present a substantial area of said material in direct contact with gas in said tank for removing moisture from the gas in said tank, a

heater for heating the material in said container for driving moisture therefrom to recondition the material, and means including a discharge connection for bleeding air from said tank



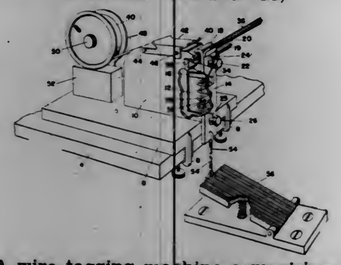
through said container during operation of said heater to discharge to the outside moisture removed from the hygroscopic material.

2,322,604
CIGARETTE EXTINGUISHER
Ralph E. van Norstrand, Suffield, Conn.
Application April 8, 1941, Serial No. 387,403
12 Claims. (Cl. 131—237)



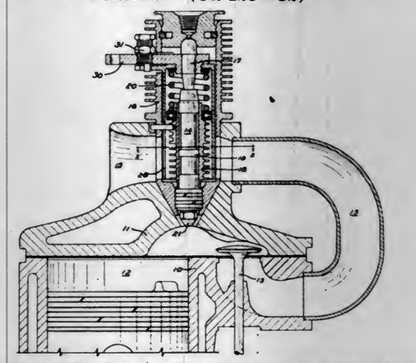
1. An extinguishing device for cigarettes and the like comprising a rest, at least one extinguishing member mounted for movement into and out of contact with a cigarette on said rest, a heat responsive member exposed to the lighted end of a cigarette on said rest, and a coupling between the extinguishing member and the heat responsive member to cause the extinguishing member to approach the rest as the heat responsive member is heated and to recede therefrom as the heat responsive member cools, said coupling including a lost motion connection.

2,322,605
WIRE TAGGING MACHINE
Anthony J. Verdechia, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application July 18, 1942, Serial No. 451,517
3 Claims. (Cl. 216—33)



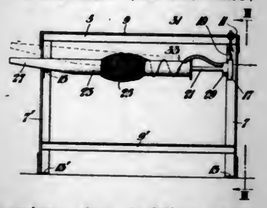
1. A wire tagging machine comprising a tape dispensing means, an anvil member adjacent said tape dispensing means, a sliding clamp member adapted to engage and clamp a wire lying on said anvil member, said sliding clamp member having a knife portion secured thereto, to cut the tape from the wire, said knife portion serving to support the tape after the cut-off operation and means for urging said clamp toward said anvil to engage said article lying thereon.

2,322,606
INTERNAL COMBUSTION ENGINE
Earl M. Ward, Los Angeles, Calif., assignor of twenty-five per cent to George C. Sullivan, Hollywood, Calif.
Application September 3, 1940, Serial No. 355,172
4 Claims. (Cl. 123—32)



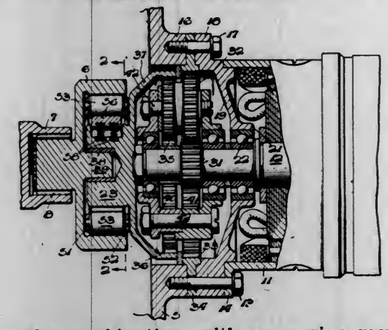
1. In combination with an internal combustion engine, a combustion chamber, an air intake passage, an adjustable fuel injecting device disposed within the air intake passage, said device being actuated by the compression pressure in the combustion chamber, and a control means comprising a sleeve valve means surrounding said fuel injecting device arranged and constructed to regulate the quantity and direction of the intake air whereby the timing and cooling of the injecting device will be controlled.

2,322,607
CONTINUOUS SUPPLY REEL FOR WIRE PROCESSING MACHINES
George F. Wald, North Olmstead, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application July 14, 1941, Serial No. 402,343
6 Claims. (Cl. 242—128)



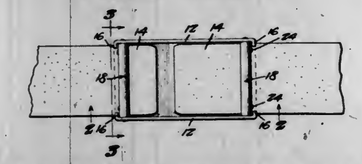
1. Mechanism for holding and unwinding bundles of wire which comprises the combination with a supporting frame, of a reel mounted on the frame adapted to receive bundles of wire thereon for unwinding therefrom, suspension means for freely suspending one end of the reel from the frame, a rest for the reel adjacent to its loading end, the said loading end defining means enabling the reel to be lifted from its rest for loading with bundles of wire, unwinding mechanism for unwinding wire from the bundles including a planetary tubular arm through which the wire passes, the said arm being off-set from the reel and provided with a radius curvature, and mounting means for the arm enabling the said arm to revolve around the reel responsive to the wire being pulled through the said arm.

2,322,608
ENGINE STARTING MECHANISM
Sidney H. Webster, Bogota, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 19, 1941, Serial No. 403,214
2 Claims. (Cl. 64—28)



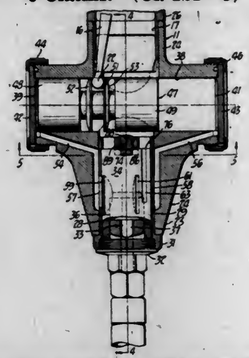
1. The combination, with an engine member having an inner cylindrical surface, of a roller cage having a plurality of rollers engageable with said inner surface, to rotate the latter and to subsequently roll freely thereon, a driving motor, means responsive to rotation of said motor to transmit driving torque to said engine member, by way of said rollers, said means comprising a motor-driven member rotatable within said roller cage, and means carried by said motor driven member for yielding engagement with the rollers of said cage, to exert upon said rollers a radially directed pressure sufficient to rotate said engine member, said means comprising pivoted levers having "high" points from which said rollers may ride off in either direction, according to the torque conditions encountered.

2,322,609
BUCKLE
James A. Westerfield, Beaver Dam, Ky.
Application October 21, 1942, Serial No. 462,847
5 Claims. (Cl. 24—74)



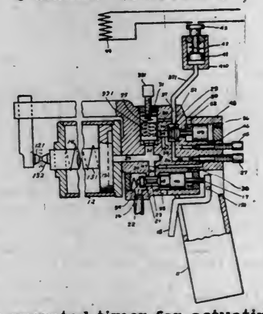
1. In a buckle for connection with a strap end, a plate having flanges, a clamp member rotatably journaled in said flanges and spaced from the plate to provide entrance for the strap end, strap end gripping means on said member for rotating the latter in one direction through an outward pull of the strap end relatively to the plate, and a clamp formation on said member for clamping the strap end against said plate when said member is rotated in said one direction, said gripping means being spaced from said clamp formation circumferentially of the axis of said member in such manner as to maintain engagement with the strap end in the strap end clamping position of said clamp formation.

2,322,610
MOTOR FOR SHEEP SHEARING DEVICES
Vincent A. Wilcox, Modesto, Calif., assignor to The Pneumatic Shear Company, Turlock, Calif., a corporation of California
Application March 16, 1940, Serial No. 324,352
6 Claims. (Cl. 121—3)



1. A pneumatic sheep shear motor comprising, an elongated body having an air inlet passage centrally at one end thereof adapted for connection to a source of air under pressure, an axially extending valve cylinder at said end connected to said passage, a hollow cylindrical valve member rotatably mounted in said cylinder and having the interior thereof communicated with said passage, a main engine cylinder transverse to the length of said body, a piston reciprocally mounted therein and adapted for connection to the movable cutter bar of the shear, a third cylinder, a piston reciprocally mounted therein, means connecting said second piston with said valve member to provide an oscillation of the valve member upon reciprocation of said second piston, and air passage means including ports in said valve member and said cylinders and connecting said cylinders to provide upon oscillation of said valve member for the communication of said source to the opposite ends of said main engine cylinder in an alternate manner and to provide for the movement of said second piston by air received from said main engine cylinder in out of phase relation to the movement of said first piston.

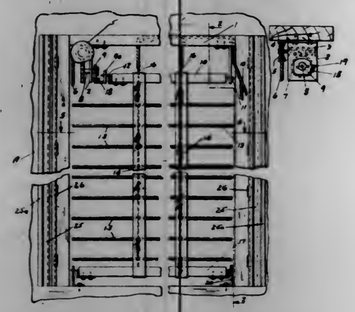
2,322,611
WELDING GUN
Bruno E. Winkler, Detroit, Mich.
Application April 27, 1940, Serial No. 331,963
6 Claims. (Cl. 303—6)



1. An air operated timer for actuating at least two pistons for different time periods of predeter-

mined length, comprising main and secondary pistons each normally held in retracted position within its cylinder by spring pressure, a body member having an air accumulating chamber and carrying a spring pressed delay valve and a manually operated air inlet valve normally closed by spring pressure and, when opened, connecting a source of compressed air with said accumulating chamber, said body member also having passages connecting the air accumulating chamber with the main piston, with the delay valve, and with a bypass arranged to bleed air from the accumulating chamber until the delay valve is opened, said body member also having a secondary air passage normally closed by the delay valve leading from the air accumulating chamber to the secondary piston, the delay valve being arranged so that its opening will simultaneously stop said bleeding of air from the accumulating chamber and admit air to said secondary air passage to move the secondary piston, means for closing said secondary air passage behind the delay valve after a predetermined time, and simultaneously permitting the exhausting of air from the secondary cylinder, and means dependent upon the movement of said closing means for later closing the air inlet valve and permitting exhausting of all compressed air from the accumulating chamber and connected passages and return of the main piston and delay valve to retracted positions.

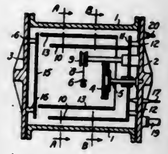
2,322,612
BLACK-OUT VENETIAN BLIND
Richard H. Wright, Cleveland Heights, Ohio
Application January 17, 1942, Serial No. 427,189
6 Claims. (Cl. 160—166)



1. A Venetian blind structure comprising slats and spaced supporting tapes coacting therewith to tilt the same, tilting means coacting with the tapes, a bottom rail connected to said tapes, hold-down brackets for the bottom rail, and parts intermediate the brackets and bottom rail to hold the latter from turning upon actuating the tilting means thereby to cause certain tapes to have abnormal pressure against and cause the slats to assume close contacting blackout condition.

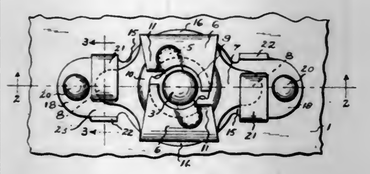
2,322,613
APPARATUS FOR DEPOSITION OF METALS BY THERMAL EVAPORATION IN VACUUM
Paul Alexander, Huyton, near Liverpool, England
Application February 25, 1939, Serial No. 258,416
In Great Britain March 2, 1938
5 Claims. (Cl. 91—12.2)

1. Apparatus for the deposition of a metal selected from the group consisting of metals aluminium and magnesium on a support by thermal evaporation in a vacuum, comprising a vacuum chamber containing the said support, said chamber containing as residual gas, a gas inert to the metal to be evaporated, for example hydrogen, electrical means for heating the metal to a temperature above its evaporation point at the vacuum in the chamber, said electrical heating means being located inside the chamber facing the support, means providing a surface facing the heater and support, said surface being of one of the said group of metals, said means being located within said chamber the said surface substantially surrounding the space containing the said support and the said heating means, and means for subjecting the said surface means to



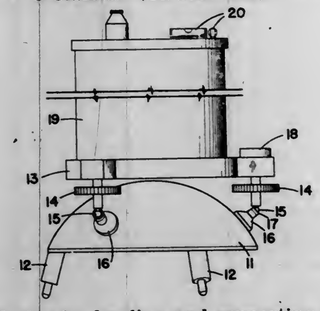
an electrical glow discharge, the said means, which provides the surface of one of the said group of metals surrounding the heater and support acting as cathode for at least part of the duration of the discharge, the said discharge being carried out after a vacuum suitable therefor has been produced in said chamber, this vacuum being maintained in the chamber during the discharge, said discharge, after it has continued for a few minutes, being stopped, whereupon the said chamber is evacuated to the pressure desired for the deposition, the deposition being effected when this pressure is obtained.

2,322,614
SHIFTABLE SOCKET FASTENING DEVICE
William A. Bedford, Jr., Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 16, 1942, Serial No. 462,264
10 Claims. (Cl. 24—221)



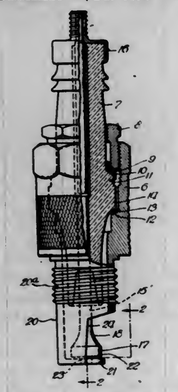
10. A socket fastener member for attachment to an apertured support comprising a stud-receiving socket having an elongated base formed with a stud-receiving aperture and a raised stud-engaging seat adjacent said aperture, the terminal end portions of said base being disposed in a plane spaced from the plane of said seat and constituting bearing sections, an attaching member for connecting said socket member to said support comprising an elongated plate supporting said socket and having its terminal ends beyond said bearing sections fixedly attached to said support, said plate providing a supporting surface for said bearing portions and being formed with an intermediate aperture overlying said support aperture and transversely disposed loop means on said plate ends overlying said bearing portions, said socket member being bodily shiftable upon said attaching member, at least one of said loops being formed with an open throat to permit a bearing section of said socket to be inserted laterally into said loop.

2,322,615
LEVELING DEVICE
Frank G. Boucher, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 8, 1941, Serial No. 410,006
3 Claims. (Cl. 248—180)



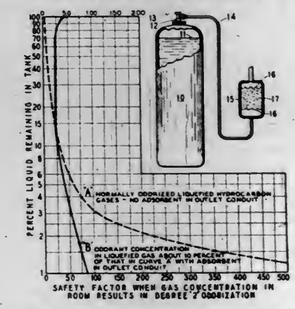
3. A device for leveling and supporting instruments comprising, in combination, a member having an upper surface in the shape of a portion of a sphere and a lower portion adapted to rest on an irregular surface, a second member arranged to carry an instrument, and means for supporting said second member on said first member consisting of three equidistantly spaced downwardly extending leveling screws attached to the lower surface of said member, a gripping cup secured to each leveling screw, each gripping cup being provided with a lower plane surface with a rubber ring secured thereto, and a ball and socket joint connecting the upper end of each gripping cup with its corresponding adjusting screw.

2,322,616
SPARK PLUG
Theodore L. Carson and Jay F. Brown, Denver, Colo., assignors to Waukesha Motor Company, Waukesha, Wis., a corporation of Wisconsin
Application April 13, 1942, Serial No. 438,750
3 Claims. (Cl. 123—169)



1. In a spark plug, a metal body and an insulating core mounted therein, an electrode rod extending through said core provided at its lower end with a relatively large disc-shaped head, and a neck integral with said body depending therefrom in substantially concentric spaced relation to said head provided with a flat disc-shaped firing plate of uniform thickness defining with said head a spark gap, said plate having an opening therethrough concentric with said head, said neck having its lower portion cut away from one side for substantially one half of its circumference and being otherwise closed except for the opening in said plate.

2,322,617
METHOD AND APPARATUS FOR ODORIZING LIQUEFIED GAS
Walter C. Dayhuff, Whittier, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application September 24, 1941, Serial No. 412,138
10 Claims. (Cl. 62—1)

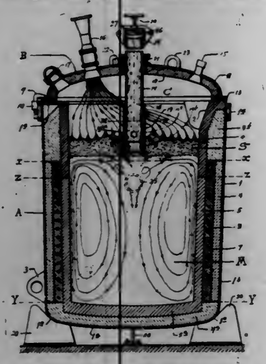


1. A method of improving the uniformity of odorant concentration in a stream of gas withdrawn from a container charged with a predetermined quantity of liquefied hydrocarbons and a less volatile odorant, which hydrocarbons and odorant will be subject to differential vaporization during said withdrawal whereby the lighter components will be volatilized before the heavier components thereof, the quantity of said odorant in said container being sufficient to impart acceptable warning properties to said withdrawn gas under conditions which would evaporate said odorant at substantially the same rate as said hydrocarbons, comprising directing said gas stream from the container through a zone having means therein for adding to about the first 20% of gas discharged an amount of odorant sufficient to give acceptable warning properties thereto and for abstracting from about the last 20% of gas withdrawn an amount of odorant sufficient to restore to said means substantially the amount of odorant previously abstracted therefrom by said first withdrawn gas.

2,322,618
APPARATUS FOR CONVERTING HIGH-PHOSPHORUS PIG IRON INTO HIGH-GRADE LOW-PHOSPHORUS STEEL
Baltzar E. L. de Maré, Germantown, Pa.
Application March 25, 1942, Serial No. 436,192
9 Claims. (Cl. 13—26)

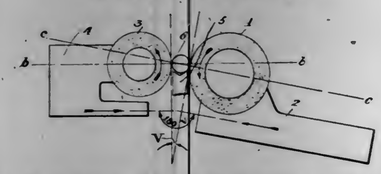
1. An apparatus for treating liquid molten metal, comprising a ladle open at its upper end, a cover for the open end of the ladle, electric means for effecting circulation of the liquid contents of the ladle, means carried by said cover for evacuating gaseous fluid from the ladle between

said cover and said contents, and means carried by said cover and adapted to be raised and lowered with respect to said contents for admitting



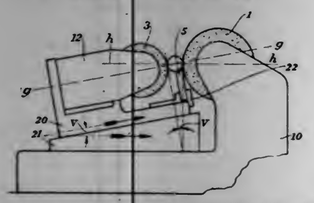
a regulated flow of extraneous air into the interior of the ladle.

2,322,619
CENTERLESS GRINDING MACHINE
Carl Gustav Ekholm, Lidkoping, Sweden
Application October 10, 1940, Serial No. 360,527
In Sweden November 4, 1939
9 Claims. (Cl. 51—103)



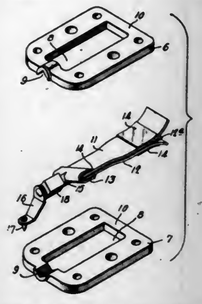
1. In a centerless grinding machine the combination with a machine bed and a grinding wheel and a regulating wheel, of two slides carrying the grinding wheel and the regulating wheel and being slidable on guides which form an angle of about 170° with each other, the point of the angle being directed from the machine bed, and a work support between said wheels.

2,322,620
CENTERLESS GRINDING MACHINE
Carl Gustav Ekholm, Lidkoping, Sweden
Application October 10, 1940, Serial No. 360,528
In Sweden November 4, 1939
7 Claims. (Cl. 51—103)



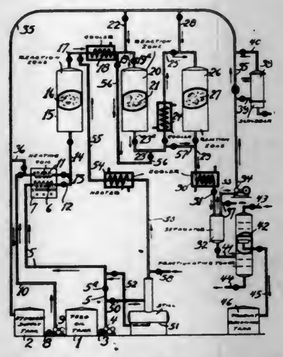
1. In a centerless grinding machine the combination with a machine bed and two wheels, of an overslide carrying one of the wheels and an underslide carrying the overslide, the directions of movement of the two slides forming an acute angle with each other of 5 to 20 degrees, and a work support between the wheels.

2,322,621
ELECTROACOUSTIC TRANSDUCER
Frederick R. Farrow, Jr., Audubon, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application October 2, 1941, Serial No. 413,363
11 Claims. (Cl. 179—100.41)



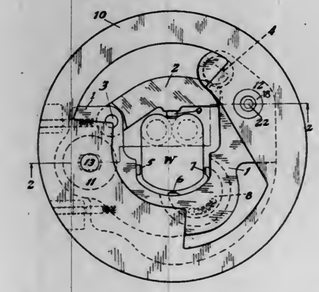
1. In an active electro-acoustic transducer, a variable condenser comprising spaced insulated flexible metallic sheet members, said members having substantially rectilinear axes and having a predetermined amount of pre-twist about said axes, and means adapted to torsionally deflect said members about said axes to vary the capacity of said condenser.

2,322,622
TREATMENT OF MOTOR FUELS
Herbert G. M. Fischer, Westfield, and Robert P. Russell, Millburn, N. J., assignors, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware
Application December 28, 1939, Serial No. 311,260
17 Claims. (Cl. 196—53)



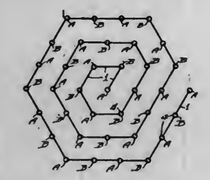
1. An improved process for preparing an internal combustion engine fuel of high octane number which comprises subjecting a hydrocarbon oil derived from any source and consisting essentially of hydrocarbons boiling substantially in the gasoline range to catalytic reforming in the presence of hydrogen at a temperature between 850 and 1050° F., subjecting the products of catalytic reforming to catalytic isomerization in the presence of hydrogen at a temperature between 700 and 900° F., subjecting the products of catalytic isomerization to catalytic polymerization in the presence of hydrogen at a temperature between 400 and 600° F., recovering from the products of catalytic polymerization a fraction boiling in the range of an internal combustion engine fuel, and a fraction which is uncondensed, and continuously recycling the uncondensed fraction to the catalytic reforming treatment to provide gas rich in free hydrogen required therein and in the two subsequent catalytic treatments.

2,322,623
LATHE CHUCK
Frederick S. Floeter, Saginaw, Mich., assignor to Wickes Bros., Saginaw, Mich., a corporation of Michigan
Application December 16, 1939, Serial No. 309,581
13 Claims. (Cl. 82—40)



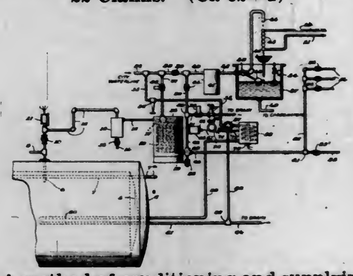
13. In a chuck, a rotary chuck body, a work engaging member floatingly mounted on said chuck body, a fixed abutment and an equalizing abutment in said work engaging member adapted to engage the rough irregular surface of a prelocated work piece on the axis of the chuck, clamping means on said work engaging member for holding said work engaging abutments in engagement with the work piece, and means for locking said work engaging member to said chuck body when fully engaged on said work piece.

2,322,624
CHAIN SHOT
John D. Forbes, San Francisco, Calif.
Application October 6, 1939, Serial No. 298,259
10 Claims. (Cl. 102—89)



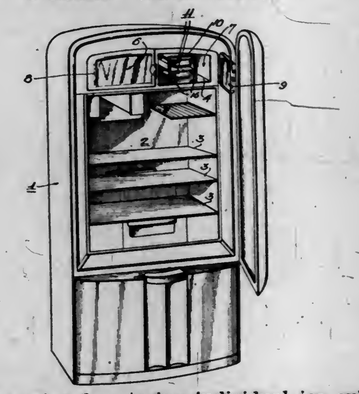
3. An expandable missile comprising a flexible member arranged in a pattern, rigid members carried by the flexible member at spaced intervals, said flexible member permitting the rigid members to be arranged in parallel and abutting relation to form a compact bundle with a solid cross section, the interconnecting portions of the flexible member projecting beyond the ends of the compact bundle, a compartment for receiving the compact missile, and spacing members placed between the ends of the rigid members and the end walls of the compartment for holding the bundle in proper position and for relieving any binding action on the flexible member portions that project beyond the ends of the compact bundle.

2,322,625
METHOD AND APPARATUS FOR CONDITIONING AND SUPPLYING WATER AND CARBON DIOXIDE TO CARBONATORS
Eric Geertz and Charles A. Getz, Glen Ellyn, Ill., assignors, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application September 11, 1941, Serial No. 410,468
22 Claims. (Cl. 62—1)



1. A method of conditioning and supplying carbon dioxide to carbonators, comprising establishing a supply of liquid carbon dioxide in bulk storage in a heat insulating tank, withdrawing only carbon dioxide vapors from the supply, raising the temperature of the withdrawn carbon dioxide vapors and delivering the heated vapors to the pressure regulators of the carbonators during the entire period of operation of the carbonators, and maintaining the vapor pressure of the carbon dioxide remaining in the supply within a relatively narrow range while the vapors are being withdrawn by applying heat to the carbon dioxide at rates which will balance the self-refrigeration of the carbon dioxide resulting from the withdrawal of vapors.

2,322,626
METHOD AND APPARATUS FOR STORING ICE CUBES
Charles E. Gerhard, Glenside, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application May 2, 1941, Serial No. 391,607
3 Claims. (Cl. 62—108.5)



2. Apparatus for storing individual ice cubes within a domestic refrigerator comprising a metallic refrigerant evaporator having therein a storage compartment, means substantially closing said compartment against the entrance of air and moisture, and means for supporting an ice cube container within said evaporator storage compartment free from thermal conductive con-

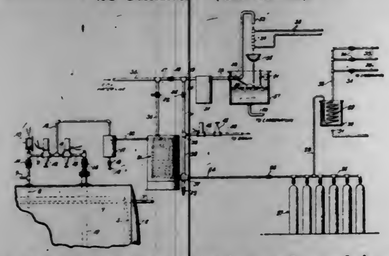
tact with the evaporator comprising a rack having legs provided with feet of thermally nonconductive material arranged to contact and rest upon the bottom wall of said evaporator storage compartment so that said ice cube container is cooled solely by convection of air within the storage compartment.

2,322,627

METHOD AND APPARATUS FOR CONDITIONING AND SUPPLYING WATER AND CARBON DIOXIDE TO CARBONATORS

Charles A. Getz, Glen Ellyn, Ill., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States

Application November 18, 1940, Serial No. 366,194
23 Claims. (Cl. 62—1)



1. A method of conditioning and supplying carbon dioxide to carbonators, comprising maintaining a supply of liquid carbon dioxide in bulk storage in a heat insulated tank, withdrawing carbon dioxide vapors from the supply until the self-cooling effect of such withdrawal lowers the vapor pressure in the tank to a predetermined minimum value, after said minimum value has been reached, stopping withdrawal of vapors and withdrawing liquid carbon dioxide from the supply until the vapor pressure in the tank rises to a predetermined maximum value as a result of heat input through the tank insulation and the absence of any self-cooling effect, repeating the aforesaid cycle of alternately withdrawing vapors and liquid as long as carbon dioxide is being withdrawn from the supply to maintain the vapor pressure in the tank between said maximum and minimum values, passing the liquid carbon dioxide vapor and liquid in heat exchange relation to the flow of drinking water going to the carbonators to effect cooling of the said water as a result of giving up heat of vaporization to the liquid carbon dioxide and superheating the thus formed vapor and the vapor obtained directly from the tank and delivering all of the withdrawn carbon dioxide to the pressure regulators of carbonators as superheated vapor at pressures falling between said maximum and minimum values.

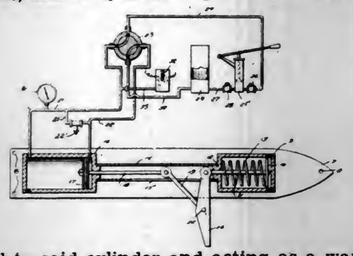
2,322,628

ANTIGROUNDING DEVICE FOR BOATS

Charles A. Goins, Tampa, Fla.

Application April 19, 1941, Serial No. 389,440
3 Claims. (Cl. 116—26)

1. In an anti-grounding device, a mounting, a slotted housing on said mounting, a ground engaging element operative in opposite directions to move a part thereof into and out of said housing, a yieldable pivot on said mounting for said ground engaging element, a hydraulic cylinder on said mounting and connected to said housing, a piston operable in said cylinder, means for connecting said piston to the ground engaging element, and a hydraulic operating means con-



nected to said cylinder and acting as a warning medium.

2,322,629

NONFOAMING ASPHALT SATURANT

Henry S. Goodwin, Fanwood, N. J., assignor, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware

No Drawing. Application February 24, 1941, Serial No. 380,311
3 Claims. (Cl. 106—273)

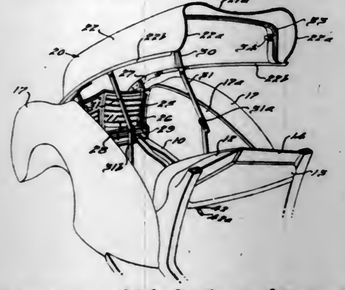
1. An asphalt saturant for fibrous material comprising a mixture of 99.8 to 99.95% of an asphalt and 0.20% to 0.05% of sulfonated tallow.

2,322,630

MOTOR VEHICLE CONSTRUCTION

James W. Greig, Grosse Pointe Park, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan

Application February 12, 1940, Serial No. 318,395
25 Claims. (Cl. 180—69)



1. In a motor vehicle having a frame, an engine and a radiator mounted on said frame, fenders and a radiator grille forming an engine compartment open at its top, a bonnet adapted to cover said compartment from its top, and hinge means adapted to support said bonnet directly on said frame.

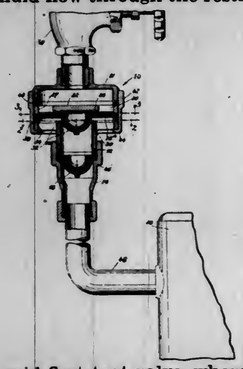
2,322,631

COMBINED VACUUM BREAKER AND CHECK VALVE

William C. Groeniger, Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application June 13, 1940, Serial No. 340,371
1 Claim. (Cl. 277—70)

A valve comprising, in combination, a body having in inlet chamber, an open-ended cylindrical central body chamber of uniform diameter adjustably positioned with respect thereto, and a discharge chamber; said inlet chamber including a centrally disposed baffle plate having, on its lower face, a peripheral valve seat; teat valve means disposed within said inlet chamber beneath said baffle plate and including a flexible, imperforate rim portion and a centrally disposed hemispherical teat valve, the mean diameter of said hemispherical teat valve being less than the mean diameter of said valve seat, whereby the said valve seat is in operative association with said flexible rim; the upper rim of said cylindrical central body portion comprising a valve seat for cooperation with the underside of the flexible rim of said teat valve; the valve portion of said teat valve forming, when in open status, a restricted orifice disposed axially of said inlet chamber and said central body chamber; and a second substantially hemispherical teat valve embodying a normally closed slit opening disposed in axial alignment with the valve orifice of said first-named teat valve at the opposite end of said central body chamber; said second named teat valve being so positioned with respect to said first teat valve that it is in the zone of accelerated velocity of fluid flow through the restricted orifice



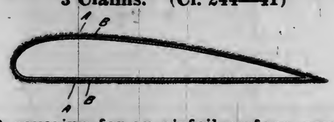
opening of said first teat valve, whereby to utilize the kinetic energy of fluid flow therethrough to open said second teat valve by direct impingement of said fluid flow against the hemispherical portion thereof; said valve body having air ports communicating with the outer atmosphere peripherally of said central body chamber and beneath the valve seat thereof, the rim portion of said first named teat valve being normally out of contact with the respective upper and lower valve seat means, whereby in the circumstance of an unbalance of pressure on opposite sides of said first named teat valve an excess of pressure above the valve causes the rim thereof to seat upon the valve seat of said central body portion to close off communication between the atmosphere and said central body portion and an excess of pressure beneath the valve causes the rim thereof to seat against the upper valve seat while concomitantly opening communication between the atmosphere and said central body portion.

2,322,632

COVERING FOR AIRFOIL SURFACES

William Harper, Jr., Montreal, Quebec, Canada

Application February 13, 1940, Serial No. 318,664
3 Claims. (Cl. 244—41)



1. A covering for an airfoil surface, comprising a nap of flexible glass filaments normally inclined outwardly relative to the airfoil surface in the direction of the airflow along said surface.

2,322,633

WOOD PRESERVATION

Richard M. Hitchens, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 10, 1940, Serial No. 352,173
7 Claims. (Cl. 167—38.7)

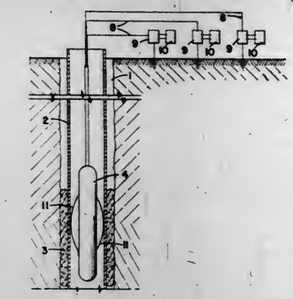
1. A composition for the preservation of cellulosic materials from decay, stain and mold organisms, which comprises a water-soluble salt of a polychlorophenol having more than two chlorine atoms substituted in the aromatic nucleus and a mixture of sodium bicarbonate and sodium carbonate in the ratio of approximately 2 parts of sodium bicarbonate to 1 part of sodium carbonate, on an anhydrous weight basis, said composition when present in water having an initial pH value within the range of approximately 6.8 to 9.2 and having no other constituents which would shift the pH value substantially from this range under such conditions.

2,322,634

METHOD AND APPARATUS FOR LOGGING BOREHOLES

Lynn G. Howell and Ludwig W. Blau, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 23, 1941, Serial No. 399,328
7 Claims. (Cl. 250—83.6)



1. A method for determining the distribution of radioactive material around a borehole, which comprises making a plurality of radioactive measurements inside the borehole, each measurement being confined to a selected direction by maintaining the azimuthal position of the detector substantially constant during the measurement, and the different measurements being made in different directions.

2,322,635

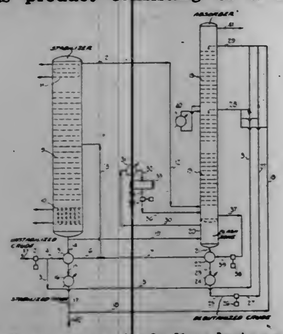
METHOD OF STABILIZING CRUDE PETROLEUM

Percival C. Keith, Jr., Peapack, N. J., assignor to The M. W. Kellogg Co., New York, N. Y., a corporation of Delaware

Application July 21, 1939, Serial No. 285,680
In Great Britain July 27, 1938
6 Claims. (Cl. 196—11)

1. A process for stabilizing crude petroleum by removal of propane and lighter hydrocarbons at relatively low temperatures and pressures for the minimization of corrosion and without excessive loss of butane, which comprises enriching the butane content of a portion of said crude by contacting it with a mixture of hydrocarbon

vapors including butane and lighter hydrocarbons under suitable conditions whereby the butane is largely absorbed in the crude and the lighter hydrocarbons separated, fractionating said butane-enriched crude into a bottoms product, constituting the desired stabilized crude, said product being substantially free of propane and containing butane in amount constituting a substantial proportion of the butane-content originally present in the crude, and an overhead vaporous product consisting of a mixture of



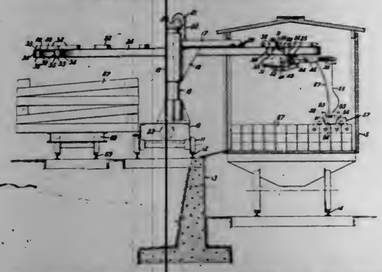
hydrocarbon vapors including butane and lighter hydrocarbons, the quantity of butane therein being not less than that absorbed by the crude from said mixture of hydrocarbon vapors, enriching the butane-content of an additional portion of crude to be stabilized by contacting said portion with said overhead vaporous product under suitable conditions whereby the butane is largely absorbed in said portion and the lighter hydrocarbons separated, and continuously repeating said cycle of steps.

2,322,636

TIE UNLOADING AND LOADING MECHANISM

Elwin H. Kidder, La Porte, Ind., assignor to American Creosoting Company, Inc., Louisville, Ky., a corporation of Delaware

Application July 9, 1941, Serial No. 401,672
8 Claims. (Cl. 212—42.5)



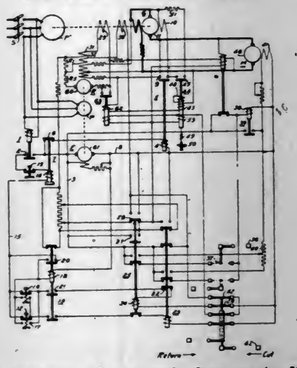
1. In car loading and unloading apparatus, a boom support mounted to rotate about a vertical axis, a substantially horizontal boom arm mounted on said support, a semi-circular horizontal track structure mounted on the outer end of said boom arm coaxial with said boom support, the point of connection of said boom arm to said track structure being substantially midway of the ends thereof to provide complementary arcuate track sections of substantially equal length extending in opposite directions from the outer end of said boom arm whereby said boom arm may be swung about its axis selectively in either direction to position the respective ends of said track structure in the opposite ends of a railway car through the center doorway thereof with the other end of said track structure extending outwardly from the doorway, a carriage movable from end to end of said trackway and hoist means mounted on said carriage.

2,322,637

VARIABLE VOLTAGE PLANER CONTROL

George E. King, Wilkinsburg, and William H. Formhals, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 4, 1942, Serial No. 433,350
6 Claims. (Cl. 172—240)



6. In a system of control, for controlling the operation of a machine tool, in combination, a machine tool adapted to operate on a work piece, a direct current motor for operating the machine tool, a direct current generator having its armature connected in series with the motor armature, a differential field winding for the generator including in its circuit an adjustable resistor and contact means, said contact means being electromagnetically operated by any adjustable spring-biased armature which is energized by a plurality of coils, one coil being energized by a constant voltage source and another coil being energized by the potential across the motor-generator circuit, said coils being additive and the variable voltage coil being designed to hold the said relay armature, and thus the contact members, in a closed position without the aid of the constant voltage coil during only a portion of the braking period in the reversing cycle of the machine motor, thus effecting a change in the generator differential field characteristics during the latter portion of the braking period so as to insure good commutation throughout the reversing cycle of the machine tool motor.

2,322,638

MOLD AND MOLD COMPOSITION

Francis S. Kleeman, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application July 31, 1942, Serial No. 453,035
8 Claims. (Cl. 22—188)

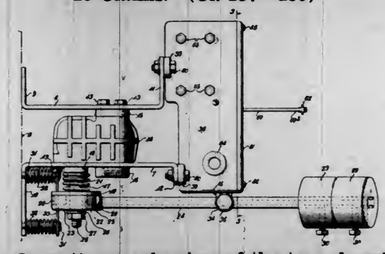
1. A foundry mold composition comprising, a mixture of 65% to 95% silica flour, 4% to 18% water glass, and 2% to 18% pitch, and from 8 to 17 parts of water added to 100 parts of the mixture.

2,322,639

WEIGHT OPERATED DIRECTIONAL VALVE AND CONTROL MECHANISM THEREFOR

Edward K. Kuhles, Wilmette, Ill., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States

Application April 11, 1941, Serial No. 388,182
15 Claims. (Cl. 137—139)



1. Operating mechanism of the type described, comprising a pair of spaced mounting plates, a unit to be operated positioned between and attached to said plates and having a rotatable operating stem projecting through one of said plates, a weighted lever operatively attached to and supported by said stem to swing between unit operating and non-operating positions in a path lying outwardly of and parallel to said last mentioned mounting plate, and a unit control device attached to said mounting plates and having means movable into and out of a position in the path of the lever for releasably holding the lever in its non-operating position.

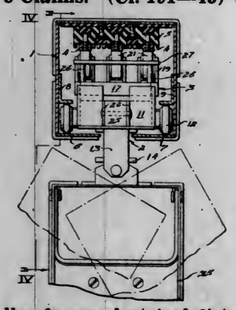
6. Operating mechanism of the type described, comprising a stem to be rotated, a weighted lever operatively attached to said stem to swing between two positions, and control means for releasably holding the weighted lever in one of its positions, said control means comprising a latch movable into and out of a position in the path of the lever, a toggle lever attached to the latch, spring means for conditioning the toggle lever with its joint past dead center in one direction to retain the latch in its weighted lever holding position, and means for breaking the toggle lever to move its joint past dead center in the other direction to effect withdrawal of the latch from the path of the weighted lever.

2,322,640

TROLLEY

John G. Jackson and Ralph H. Kingdon, Detroit, Mich., assignors to Square D Company, Detroit, Mich., a corporation of Michigan

Original application December 16, 1935, Serial No. 54,554. Divided and this application February 27, 1942, Serial No. 432,556
8 Claims. (Cl. 191—45)



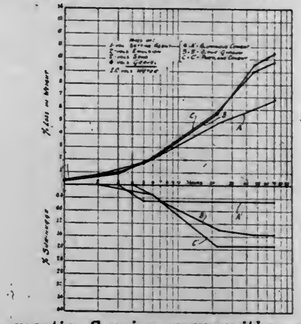
1. In a trolley for an electrical distribution system, a wheeled support, a collector platform mounted on said support but movable relative thereto, means limiting the extreme positions of said platform, collector rollers on said platform mounted in V-formation, and a spring bias tending to separate said platform from said support, the bias adjacent the single contact roller at the apex of the V being only half as strong as that adjacent the pair of contact rollers whereby the contact pressure on the three rollers is equalized.

2,322,641

MASTIC COMPOSITION FOR FLOORING, ETC.

Frank P. Jaros, New York, N. Y., assignor, by mesne assignments, to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

Application April 4, 1939, Serial No. 265,912
9 Claims. (Cl. 106—104)



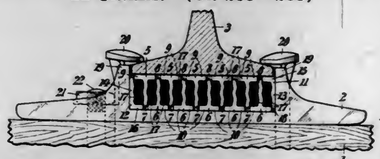
1. A mastic flooring composition comprising bituminous emulsion, aluminous cement as the setting agent, and mineral aggregate, the ratio of setting agent to emulsion being not substantially greater than 1:1.25 by volume, said composition having a linear shrinkage of less than 1% upon drying and setting.

2,322,642

CUSHIONING DEVICE

Lloyd B. Jones, Hollidaysburg, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania

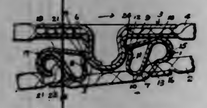
Application September 27, 1941, Serial No. 412,615
11 Claims. (Cl. 238—283)



1. A cushioning device comprising at least two relatively movable reversely arranged pressure components of rigid material with opposing ledges at right angles to opposing roughened surfaces which latter are aligned in the direction of movement of said components; and a resilient smooth surfaced component of rubber or the like interposed between the roughened surfaces of the pressure components with its ends overlapped respectively by and engaging the ledges of the latter components and contacting normally with the high spots only of said roughened surfaces, whereby, incident to movement of the pressure components toward each other under load, the resilient component is first compressed, and afterwards through attendant

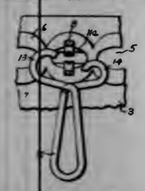
lateral expansion thereof, caused to be gripped by the opposing roughened surfaces of said pressure components.

2,322,643
SNAP FASTENER
Walter I. Jones, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 6, 1941, Serial No. 373,234
3 Claims. (Cl. 24—217)



1. A snap fastener socket device comprising a socket member having a plurality of yieldable sheet metal portions circularly arranged and forming an open-ended barrel providing a stud-receiving passage, a base portion extending from one end of said passage and flaring radially and outwardly therefrom to provide an annular supporting portion spaced radially from and outwardly of the stud-receiving opening, and a guiding and restraining member secured to said supporting portion and extending radially inwardly to overlie a substantial portion of the outer end of the barrel, said guiding and restraining member being formed with a central stud-receiving aperture immediately adjacent the outer end of the barrel, said aperture being of a diameter substantially equal to the maximum stud diameter to permit the passage of the stud therethrough.

2,322,644
KEY-CARRYING DEVICE
Walter I. Jones, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 29, 1941, Serial No. 416,985
3 Claims. (Cl. 70—456)



1. In a key-holding device, a key-carrying member and a supporting means to which said key-carrying member is removably attached, said key-carrying member having a key-carrying loop portion, a pair of opposed hook portions connected to said loop, and detachably engaging said supporting means, and one of said hooks being fork-shaped, while the other has a single end fitting into the fork, and the ends of the fork-shaped hook being connected to prevent the hooks from slipping out of engagement from the supporting means.

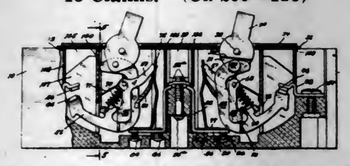
2,322,645
KEY-CARRYING DEVICE
Walter I. Jones, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Original application October 29, 1941, Serial No. 416,985. Divided and this application September 24, 1942, Serial No. 459,511
3 Claims. (Cl. 70—456)

1. In a key-carrying device, a supporting plate, a key-holder supporting member and a key-carrying member, said key-holder supporting member having a divided base portion and a loop portion and said supporting plate having an



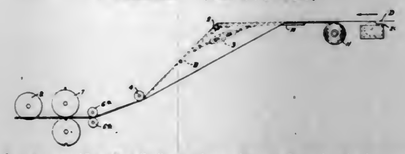
opening therein through which said loop portion extends, and said opening being elongated and relatively narrow to prevent the divided base from working through the said opening.

2,322,646
MULTIPLE-CIRCUIT BREAKER
David W. Johnson, New Britain, Conn., assignor to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn., a corporation of Connecticut
Application January 15, 1941, Serial No. 374,550
15 Claims. (Cl. 200—116)



3. An automatic circuit breaker mechanism comprising an oscillatory handle, a contact-carrying member pivoted thereto, a fixed contact engageable by said movable contact-carrying member, a bi-metallic latch, a holding member engaging said latch and having a portion affording a pivotal mounting for said movable contact carrier, pivotal mounting means for said holding member, spring means acting on said movable contact carrier and holding it in either open or closed circuit positions normally, and moving it to open circuit position when said bi-metal disengages said holding member.

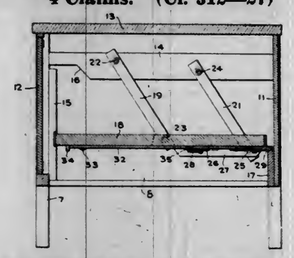
2,322,647
METHOD AND APPARATUS FOR FOLDING PAPER
John S. Luce, Oakland, Calif., assignor to The Web Appliance Company, San Francisco, Calif., a firm
Application July 22, 1941, Serial No. 403,510
7 Claims. (Cl. 270—32)



1. A method of forming two sheet statements in pairs, each statement being joined by a single fold at one edge, and having a carbon sheet secured between them, which consists in superimposing a web sheet over a carbon sheet, said web sheet being double the width of the carbon sheet, imparting continuous movement to the two sheets, applying an adhesive to secure the opposite edges of the carbon sheet to the web sheet, folding the edges of the web during movement over the carbon sheet, said edges substantially meeting centrally of the carbon sheet, cross-cutting the web at spaced intervals and then severing the cross-cut web sections longitudinally between the meeting edges of the folded portions of the web to form two single folded statements each having an interposed carbon sheet.

3. In a paper folding mechanism of the character described, a first and a second flat plate over which a paper web to be folded is continuously fed, said second plate being disposed on an angle with relation to the first plate and being rectangular in shape, and having a width substantially equal to one half the width of the web, said first named plate joining the second named plate at one end and being of the same width at that end but presenting outwardly flaring sides which, at the opposite end, are equal to the full width of the web, said web edges, when fed over the flaring edges of the first plate toward the narrower second plate, folding inwardly and in under the second plate, and a roller cooperating with the second plate under which the web passes and whereby the folding operation is completed.

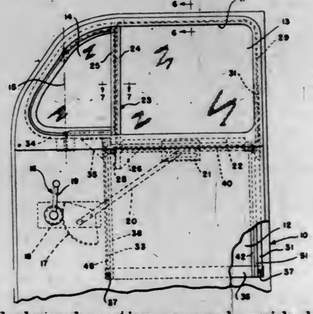
2,322,648
DISAPPEARING SUPPORT FOR BUSINESS MACHINES AND THE LIKE
Carl Brynolf Lundstrom, Little Falls, N. Y.
Application October 22, 1942, Serial No. 462,974
4 Claims. (Cl. 312—27)



1. The combination of a cabinet; supporting means carried by the cabinet; a horizontal machine platform movable between a projecting position and a retracted position; four substantially identical links hinged on parallel axes at their upper ends to said supporting means and at their lower ends to the platform, said links being arranged in parallel pairs, the links of each pair being spaced a distance less than the effective length of the links and arranged to swing in a common plane, one link of each pair being hinged sufficiently lower than the other to cause the two links in each pair to engage when the platform reaches its projecting position and substantially as the links reach horizontal positions, and means for latching said platform in its projecting position to the supporting means at a point forward of the interengagement of the links.

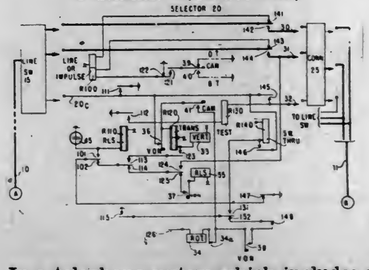
2,322,649
WINDOW ASSEMBLY
Henry W. Mackey, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application March 11, 1940, Serial No. 323,454
5 Claims. (Cl. 296—48)

1. In a vehicle body having a window opening and having a well below the window opening, a vertically slidable closure panel movable from a position within the well to a position within said window opening, a pair of vertically extending guide members substantially channel-shaped in cross section located in said well with the channels opening toward each other and with one guide member positioned adjacent one vertical edge of the closure and with the other guide member positioned adjacent the opposite vertical edge of the closure member, the flanges of each channel guide member having inwardly opening registering channel-shaped portions intermediate the ends extending for substantially the full length of the guide members, the base of one



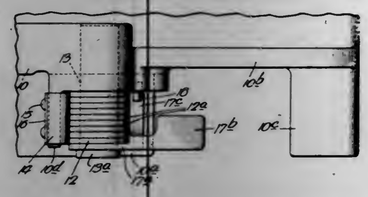
channel-shaped portion on each guide having a series of rack teeth, a pair of revoluble pinions carried by the closure and positioned within the inwardly opening channel-shaped portions of the flanges on the guide channels for engagement with the rack teeth, and a pair of rollers carried by the closure at the inner sides of the rack teeth and respectively extending between the free ends of the flanges on the channel-shaped guide members for rolling engagement with the inner surfaces of the flanges.

2,322,650
IMPULSING APPARATUS FOR SIGNALING SYSTEMS
Edward Matousek, Berwyn, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 6, 1941, Serial No. 421,878
8 Claims. (Cl. 179—18)



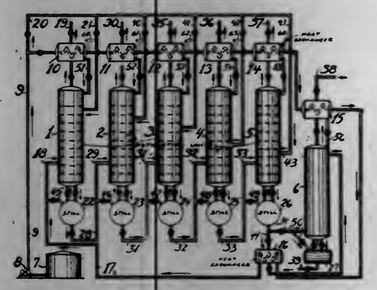
1. In a telephone system which includes a plurality of lines; an impulse-controlled selector having access to said lines and including a release relay operative to prevent the release of said selector during the transmission of impulses thereto, an impulse responsive line relay operative to direct the operation of said selector in the selection of one of said lines, an electron discharge device connected in circuit with the winding of said release relay and operative to delay the release of said release relay for a short interval after said release relay is deenergized, and means comprising said line relay for controlling the energization and deenergization of said release relay.

2,322,651
LAMINATED GRIPPING DOG
Chester M. MacChesney, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application October 31, 1940, Serial No. 363,675
1 Claim. (Cl. 24—134)



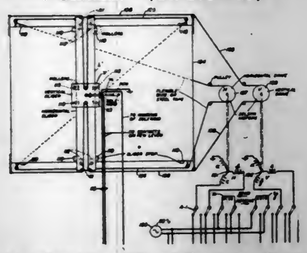
The combination in a gripping device, of a frame carrying a base flange, a gripping dog pivotally mounted on said frame and comprising a plurality of relatively movable laminations each adapted to engage a strap seated on said flange, an arm extending outwardly from said frame, a spring of inverted U-shaped cross section having one side attached to said arm and having the other side slotted to form a plurality of separate resilient fingers each engaging one of said laminations, and a lever pivotally mounted on said frame and having a part adapted to engage all of said laminations for forcing all of said laminations away from said flange.

2,322,652
REFINING MINERAL OILS
John H. McClintock, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 16, 1940, Serial No. 345,698
5 Claims. (Cl. 196—73)



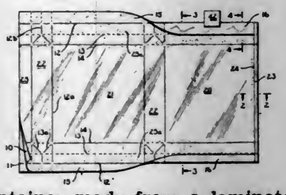
1. Distillation process which comprises passing a petroleum crude oil through a series of distillation units operated at progressively higher temperatures, under conditions in which the feed oil is introduced into an intermediate section of the initial unit and in which unvaporized portions of the oil are withdrawn from the bottoms of the succeeding units and introduced as feed into an intermediate section of the next succeeding unit, withdrawing vaporous overhead fractions and a final residue, segregating relatively small portions of the feed oil and introducing said segregated portions directly into the upper sections of the respective distillation units at a progressively lower point intermediate the points of withdrawal of the vaporous overhead fractions and the points at which the feed is introduced, as the temperature of the respective stills increases.

2,322,653
TELAUTOGRAPHIC DEVICE
Doren Mitchell, Bound Brook, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 5, 1940, Serial No. 312,472
7 Claims. (Cl. 178—19)



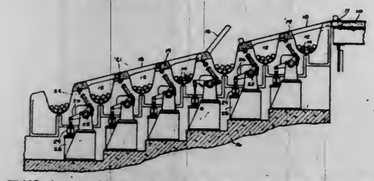
1. In a telautograph system, a transmission circuit, a writing point capable of moving in a plurality of directions in a system of coordinates, a pair of electric inductive machines, each having rotatable elements and a fixed element, a source of alternating current for energizing said fixed elements whereby said rotatable elements of said machines are electrically excited, linkages whereby movement of said point in one direction varies the position of the rotatable elements of one of said machines with respect to the position of their associated fixed element, and in another direction varies the position of the rotatable element of the other of said machines with respect to the position of their associated fixed element, and means for transmitting from each of said machines over said transmission circuit currents of various magnitudes which correspond to the movements of said point.

2,322,654
CONTAINER
George Arlington Moore, Louisville, Ky., assignor to Humoco Corporation, Louisville, Ky., a corporation of Delaware
Application November 30, 1937, Serial No. 177,176
4 Claims. (Cl. 229—55)



1. A container made from a laminated blank comprising a layer of fibrous material and a layer of impervious material, the top and bottom marginal edges of said blank being rolled and folded over to form top and bottom hems having rolled unpressed edges with the impervious material on the outside, one side marginal portion of said blank being likewise rolled and folded to form a side marginal hem having a rolled unpressed edge with the impervious material on the outside, said blank being folded to form a tubular body with said last-mentioned hem overlapping and in engagement with the other side marginal portion of the blank to form an overlapped seam extending longitudinally of said body, the impervious material of said hem engaging the impervious material of said other side marginal portion and being secured thereto by a thermoplastic adhesive interposed therebetween, the top and bottom portions of said blank being folded inwardly to close the top and bottom portions, respectively, of said body, with the top and bottom, respectively, pressed together and joined by thermoplastic adhesive interposed therebetween.

2,322,655
BILLET SORTING APPARATUS
Myles Morgan, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application January 21, 1942, Serial No. 427,596
9 Claims. (Cl. 214—16)



2. Billet sorting apparatus comprising spaced parallel inclined rows of members shaped to form a series of horizontal troughs arranged in a gradually descending series, bars pivotally secured to the lower walls of the troughs and extending upwardly across the troughs to provide an inclined surface over which billets may slide broadside downwardly, a horizontal rotatable shaft adjacent each trough and parallel therewith, the shafts being located a substantial distance below the corresponding bars, and means connecting the shafts with the corresponding bars and so arranged that by turning the proper shaft the bars above a selected trough may be swung upwardly to cause a descending billet to be deposited therein.

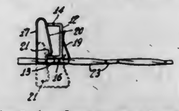
2,322,656
SNAP FASTENER FOR TRIMMING AND LIKE STRIPS
Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 9, 1941, Serial No. 422,253
6 Claims. (Cl. 24—73)



1. A fastener member of the class described comprising a base having a fastener-aligning portion in the form of a central fold providing a longitudinal groove for receiving a projecting aligning means provided by a part to which the fastener is to be attached, fastener-attaching means whereby said fastener member may be attached to said part and other fastening means for engagement with a support for said part.

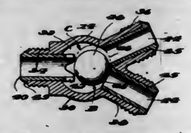
2,322,657
MEANS FOR SECURING LATH TO CHANNEL FURRING
Anders C. Olsen, Forest Hills, N. Y.
Application April 7, 1942, Serial No. 437,935
8 Claims. (Cl. 72—118)

1. A clip adapted for securing a plastering base to a furring channel, said clip comprising a portion adapted to bear against the outer surface of the plastering base, and resilient arms extending at an angle to the first-named portion, one of said arms having a reverse bent portion, the free end of said reverse bent portion being adapted to seat against the inner surface of one of the legs of the channel and an intermediate



portion adapted to bear against the outer edge of the other leg of the channel, and the other of said arms being adapted to engage and bear against the outer surface of the base of the channel which extends in a plane at a right angle to the plane of the plastering base.

2,322,658
VALVE
John William Overbeke, Anneslie, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application May 9, 1941, Serial No. 392,675
3 Claims. (Cl. 137—166)

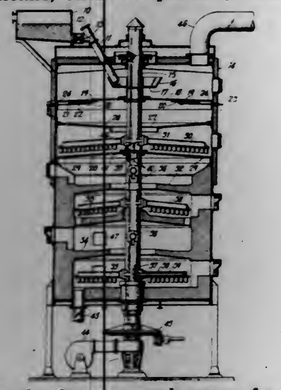


3. A ball valve for use with a pair of lines in which equal flow is to be effected comprising a housing enclosing a substantially cylindrical chamber, a radially extending inlet passage formed in one side of the housing, a pair of radially extending outlet passages formed in the opposite side of the housing, the axes of which form an acute angle and are symmetrically placed with respect to the axis of said first mentioned passage, a lightweight ball valve in the chamber, the diameter of which is slightly less than the axial length of the chamber, the diameter of the chamber is of such a size relative to the size of the ball that jet action of the fluid flow will be effected so as to center the ball with respect to the outlet passages and produce equal flow therefrom during normal flow conditions, and closing the entrance of one of said passages when excessive flow through the associated passage occurs.

2,322,659
INCINERATION OF LIQUID SEWAGE SLUDGE AND THE LIKE
Mark B. Owen, Ardsley-on-Hudson, N. Y., assignor to Nichols Engineering & Research Corporation, New York, N. Y., a corporation of Delaware
Application February 21, 1941, Serial No. 379,964
5 Claims. (Cl. 110—12)

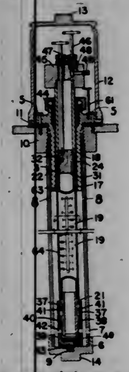
1. Apparatus for drying and incinerating a substantially liquid waste material, comprising a furnace having a series of superposed hearths, including a plurality of upper drying hearths formed of sheet metal and a plurality of lower burning hearths formed of refractory material, a central rotatable shaft carrying rabbling means cooperating with the hearths of the mid-portion and lower portion of the furnace for rabbling the material over said hearths and from each burning hearth to the next, means rotatable with the upper portion of said shaft for receiving the liquid waste material and distributing same annularly around the mid-portion of the upper hearth, adjustable gate means at spaced points around

the area of the latter hearth for discharging the liquid waste from the upper hearth to the next, conduit means for conducting cooling air through said shaft and said rabbling means and for discharging portions of such air after heating in the rabbling means, onto the partially dried waste



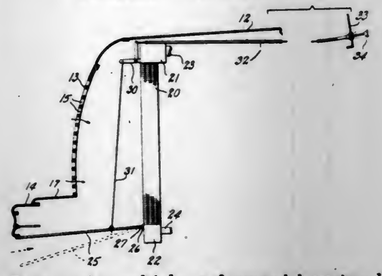
material in the furnace, and means for burning fuel at one or more of said burning hearths, the hearths being formed with ports permitting gases of combustion, air and vapor to travel upwardly through the furnace, countercurrent to downward travel of the material.

2,322,660
DEVICE FOR GAUGING LIQUIDS IN CONTAINERS UNDER PRESSURE
Harrison O. Parsons, Houston, Tex.
Application October 14, 1939, Serial No. 299,461
9 Claims. (Cl. 73—298)



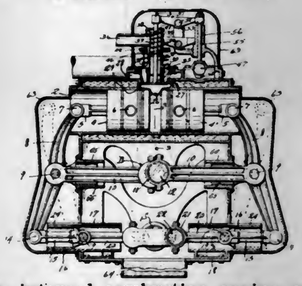
1. In a gauge comprising a tubular structure, a valve closure for the lower end of the structure, a valve head closing the upper end of the structure, the valve head having an outlet and a valve controlling the outlet, in combination, a tubular transparent member arranged to form an intermediate portion of said structure, said transparent member having a tubular opaque member fitting inside thereof, the outer circumference of said opaque member being provided with a longitudinal groove having fluid communication with the interior of the member at both ends of the groove, said transparent member and said opaque member being bonded together in a fluid-tight manner except along said groove, whereby a longitudinal passage is defined by the walls of said groove and said transparent member.

2,322,661
MOTOR VEHICLE
Clyde R. Paton, Birmingham, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application July 23, 1941, Serial No. 403,710
3 Claims. (Cl. 180—54)



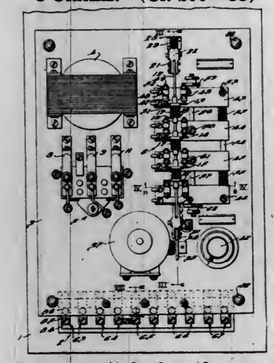
1. In a motor vehicle, a forward housing having louvers therein, an engine radiator in the housing behind the louvers, a bumper in advance of the housing, a stone deflector wall across the space between the bumper and the housing, an adjustable air deflector wall pivoted to the lower portion of the radiator and extending forwardly to a point beneath the lower edge of the bumper, and means operable to adjust the pivoted wall so that air will travel to the radiator in a path between the stone deflector wall and the air deflector wall.

2,322,662
ENGINE STRUCTURE
Sidney C. Raybon, Pensacola, Fla.
Application April 14, 1942, Serial No. 438,942
6 Claims. (Cl. 123—51)



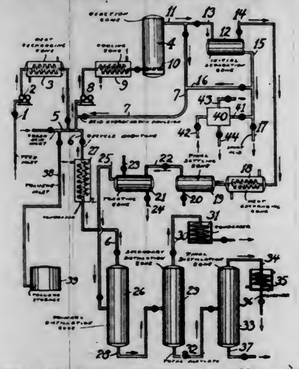
3. An internal combustion engine comprising opposed cylinders having their opposite ends open, the inner ends of the cylinders having an explosion chamber interposed therebetween, pistons working in the cylinders, rods for the pistons, a crank-shaft below the pistons, rods operatively engaged with the crank-shaft, said second-named rods being outwardly disposed, rocker arms, means for pivotally mounting the central portion of the rocker arms upon the outer ends of the second-named rods, means for pivotally connecting the extremities of said rocker arms to the first-named rods, a second crank-shaft, opposed sleeves supported at opposite sides of the second-named crank-shaft and open at both ends, tubular slides mounted in the sleeves, rods operatively engaged with the second-named crank-shaft and pivotally engaged with the tubular slides, and rods pivotally engaged with the adjacent extremities of the rocker arms and extending inwardly of the tubular slides and pivotally connected therewith.

2,322,663
ELECTRIC SWITCH
Frank H. Roby, Milwaukee, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Original application July 1, 1937, Serial No. 151,358. Divided and this application November 18, 1938, Serial No. 241,093
3 Claims. (Cl. 200—33)



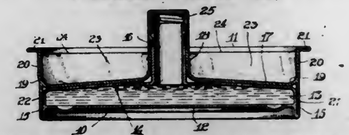
1. An electric switch for the operation of a plurality of electric circuits in timed sequence comprising a reciprocable member, means for effecting reciprocation of said member, a plurality of cooperating sets of contacts, means effecting operation of said contacts upon movement of said member, at least certain of at least the stationary contacts in said sets being mounted for relative movement and including relatively stationary insulating blocks upon which the opposite extreme contacts are mounted and intermediate movable insulating blocks upon which other contacts are mounted, spring means biasing the intermediate blocks for movement relative to the extreme stationary blocks, and adjustable means interconnecting intermediate and extreme blocks for regulating the distances between them to vary the time of operation of the contacts.

2,322,664
PRODUCTION OF MOTOR FUELS
Robert P. Russell, Short Hills, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 27, 1941, Serial No. 399,965
8 Claims. (Cl. 260—683.4)



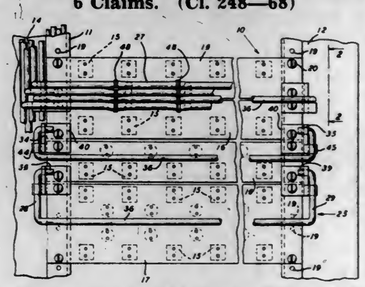
1. In the alkylation of isoparaffin with monoolefin under alkylation reaction conditions in the presence of a mineral acid catalyst of alkylating strength, the improvement comprising admixing an aromatic hydrocarbon with the said acid prior to catalyzing the alkylation reaction with said acid.

2,322,665
CHILD'S FEEDING DISH
Thomas A. Ryan, Mount Vernon, N. Y., assignor to Zadek-Feldstein Co., Inc., New York, N. Y., a corporation of New York
Application April 22, 1940, Serial No. 330,888
6 Claims. (Cl. 65—15)



1. The combination of a closed receptacle provided with an inlet and outlet spout and adapted to contain liquid and a separate open dish resting directly upon and in direct heat transferring contact with the receptacle and having a dependent skirt portion closely embracing the side of the receptacle.

2,322,666
CABLE SUPPORT
Herman J. Schmitz, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 31, 1940, Serial No. 354,928
6 Claims. (Cl. 248—68)

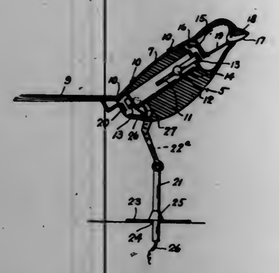


6. A support for cable arms formed of wires serving electrical units on mounting plates, the support comprising an element having an elongate supporting portion, and means to support the element to locate the supporting portion thereof in one of a plurality of positions parallel with and equidistant from the mounting plates to support a cable arm including wires extending longitudinally of the elements to points adjacent their respective electrical units.

2,322,667
MOLD AND MOLD COMPOSITION
John B. Seastone, Wilkinsburg, and William E. Mahin, Oakmont, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 31, 1942, Serial No. 453,030
10 Claims. (Cl. 22—188)

1. A mold composition comprising, a mixture of 85% to 98% silica flour and 15% to 2% waterglass, and from 5 to 25 parts of water added to 100 parts of the mixture.

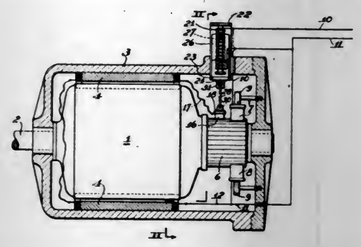
2,322,668
ANIMATED ELECTRIC BIRD AND CHARACTER
Harry H. Selvage, Eureka, Calif.
Application June 13, 1942, Serial No. 446,911
1 Claim. (Cl. 46—124)



An imitation bird comprising a dielectric body portion, a strip secured to the back thereof, metal wings formed of dielectric material hingedly secured to the strip and disposed in close spaced relation to the body portion, metal plates secured to the inner surfaces of the wings, a metal tail hingedly connected to the rear end of the strip, an electro-magnet secured within the body portion of the bird and having its core extending from its front and rear ends, laterally extending magnetic arms connected to the front end of the core with their outer ends disposed in opposed relation to the metal plates carried by the wings, springs carried by the laterally extending magnetic arms with their free ends bearing against the inner surfaces of the wings, a metal plate secured to the tail and yieldingly disposed in spaced relation to the rear end of the electro-magnet core, a metal plate pivotally secured to the front end of the metal strip and yieldingly disposed in spaced relation to the front end of the electro-magnet core, a lower bill member pivoted beneath the bill of the bird, a link hingedly connecting the lower bill and the last mentioned metal plate, a hollow metal perch, hollow metal legs supporting the bird on the perch, a collar on the standard of the perch adjacent its lower end, an electricity connecting plate having an aperture therein to receive the lower end of the perch standard, an electric circuit connected to the electro-magnet with one conduit thereof passing through the standard of the perch and the other conduit thereof electrically connected to the perch, a circuit maker and breaker connected to that conduit extending through the standard of the perch and one side of a source of electric supply and a conduit connected to the other side of the source of electric supply and the perch supporting plate.

2,322,669
GENERATOR REGULATOR
Erle I. Shobert, II, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application February 11, 1941, Serial No. 378,331
7 Claims. (Cl. 171—229)

1. A generator voltage and current regulator comprising a rotatable electrical conductor, a pair of reciprocable electrical conductors, resilient means pressing each reciprocable conductor against the rotatable conductor, said conductors being adapted to be connected in a generator field circuit, electromagnetic means adapted to be shunted across the generator armature circuit, electromagnetic means adapted to be connected in series in the generator armature circuit, and means including a lost motion connection for operatively connecting each of said magnetic

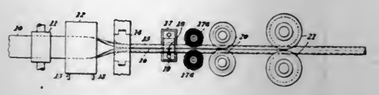


means to one of said reciprocable conductors whereby to move one of the latter away from said rotatable conductor when the generator voltage reaches a predetermined value and to move the other reciprocable conductor away from said rotatable conductor when the generator current reaches a predetermined value.

2,322,670
RESINOUS POLYMERIC MATERIAL
William J. Sparks, Elizabeth, and Donald C. Field, Berlant Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 14, 1940, Serial No. 370,133
4 Claims. (Cl. 260—2)

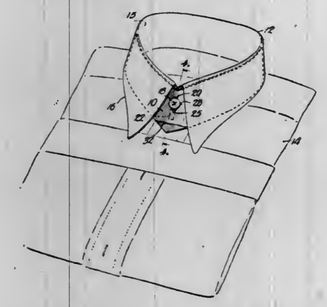
1. The process for preparing a high molecular weight interpolymerizate-condensate resin comprising the steps of bringing together an aromatic chloride and a tertiary alkyl halide at a temperature below about 0° C. in the presence of a polymerization-condensation catalyst comprising aluminum chloride dissolved in a low freezing solvent having a freezing point below about 0° C.

2,322,671
METHOD OF MAKING WELDED TUBE
Sigfrid W. Specht, Youngstown, Ohio, assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio, a corporation of Ohio
Application August 29, 1941, Serial No. 408,718
9 Claims. (Cl. 219—10)



1. In a method of making metal tube having a diameter of about 1½" or less and a wall thickness of about 0.125" or below, the steps including longitudinally advancing hot-rolled strip of suitable width and thickness having an adherent coating of oxide thereon, progressively heating the strip throughout substantially its entire width to a temperature at which it is appreciably softened, progressively forming the strip into a cylindrical blank with a longitudinal seam cleft while simultaneously quenching the strip, thereby fragmenting and detaching the oxide coating from substantially the entire surface area of the strip, trimming and brushing the edges of the seam cleft and uniting them by progressive electric-resistance welding.

2,322,672
COLLAR SUPPORT
James W. Steele, North Kansas City, Mo.
Application November 29, 1941, Serial No. 420,977
4 Claims. (Cl. 223—83)



1. A collar support for collar-attached shirts having a collar button or fastener at the front of the collar, said support comprising a strip of flexible and relatively stiff material for spanning the space between the front ends of the collar and the opposite end portions of the strip being insertable into supporting position between the neckband and outer fold of the collar, said strip being of substantially uniform width from end to end thereof and the interior middle portion of said strip being formed with a rectangular slit structure defining an enclosed oblong tab to be folded back to allow passage of said button or fastener edgewise through the strip and also a slit cooperating with said first slit structure to define a pair of triangular tab elements adjacent said first tab and adapted to spread to permit continued turning movement of said button or fastener on through the strip into flatwise position against the outer face thereof.

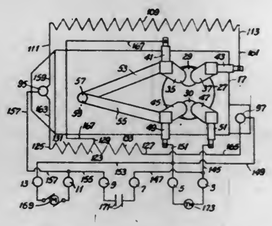
2,322,673
TREATING HYDROCARBON FLUIDS
William J. Sweeney, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 14, 1940, Serial No. 356,831
4 Claims. (Cl. 196—52)

1. A method of producing a low boiling hydrocarbon material suitable for use as a solvent from a hydrocarbon oil stock containing straight chain aliphatic hydrocarbons, single ring aromatic hydrocarbons and double ring hydrocarbons which comprises extracting said hydrocarbon oil stock with a suitable selective solvent to remove substantially all of the double ring aromatic hydrocarbons, further extracting the remaining oil stock with a second solvent suitable for extracting from said stock a fraction containing a relatively large amount of single ring aromatic compounds, heating said fraction containing large amounts of single ring aromatic compounds to an elevated temperature and passing it through a catalyst chamber wherein it is maintained under cracking conditions in the presence of catalyst particles for a sufficient time to produce a substantial amount of lower boiling constituents and separating a relatively low boiling fraction of high aromatic content from the cracked products.

2,322,674
DRESSING OF EARTH MINERALS
Samuel Benson Thomas, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 30, 1940, Serial No. 367,957
4 Claims. (Cl. 252—273)

1. In a process for the preparation of activated bauxite from natural bauxite ores containing ferrous iron impurities, the improvement which comprises activating the iron-containing bauxite ore at a temperature from about 250° C. to 500° C. in an atmosphere of steam sufficiently oxidizing to convert ferrous compounds to magnetite, but insufficiently oxidizing to oxidize magnetite to ferric oxide, to convert ferrous iron impurities predominantly to magnetite, to reduce the water content of the bauxite to that corresponding to the maximum adsorptive activity, and subjecting the bauxite activated in this manner to a magnetic separation, whereby there is obtained an activated bauxite concentrate relative free of iron and an activated bauxite concentrate high in iron.

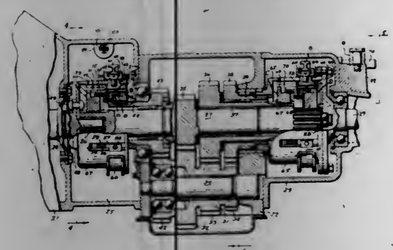
2,322,675
CONTROL MEANS
Victor G. Vaughan and John D. Bolesky, Attleboro, Mass., assignors to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Original application January 26, 1937, Serial No. 122,372. Divided and this application April 16, 1941, Serial No. 388,826
7 Claims. (Cl. 236—46)



1. In a heating system, a heating plant, an electrically controlled automatic stoker supplying fuel to said heating plant, and an electric circuit for the control of said stoker, said circuit including a room thermostat positioned in the space to be heated and an intermittent hold fire timer, said room thermostat being connected in such manner as to be capable of commencing the operation of said automatic stoker when said thermostat demands heat, regardless of said hold fire timer, said hold fire timer comprising contacts connected in parallel with said room thermostat for controlling said stoker circuit, a plurality of heating devices, switching means for controlling said heating devices, heat responsive means for intermittently actuating said contacts and said switching means to provide intermittent operation of said stoker during periods of no heat demand and so controlling said heating devices as to provide first one rate of heating and then a

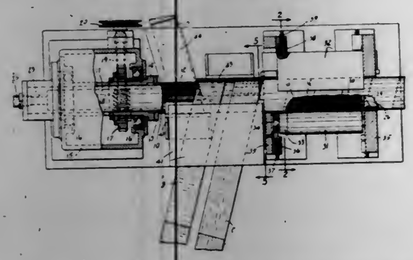
different rate of heating during a cycle of operation, and means controlled by said room thermostat whereby the operation of said stoker by said timer following a call for heat by said room thermostat is delayed for a period of time which varies in accordance with the duration of operation under control of said room thermostat.

2,322,676
MOTOR VEHICLE
Jesse G. Vincent, Grosse Pointe, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application April 26, 1939, Serial No. 270,167
7 Claims. (Cl. 74—330)



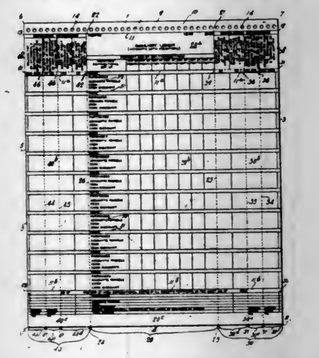
1. In a change speed gearing, a pair of clutches including shiftable means for establishing two driving ratios, a shiftable idler gear for establishing reverse drive, a rail connected to shift said shiftable clutch means, a rail connected to shift said idler, a manually operable lever constantly operatively engaging said clutch shifting rail and engageable with said idler gear shift rail, and a spring normally retaining said lever out of engagement with said idler gear shift rail, movement of said lever in one direction when held in engagement with the idler gear shift rail shifting both rails to engage one clutch and the idler gear.

2,322,677
APPARATUS FOR PRODUCING MULTIPLY TUBING
Albert J. Walt, Aurora, and Axel F. Rehnberg, Rockford, Ill., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application April 19, 1941, Serial No. 389,398
12 Claims. (Cl. 93—80)



1. An apparatus for continuously forming multi-ply tubing comprising a cylindrical mandrel about which a plurality of strips of flexible material are spirally wound, means for rotatably supporting said mandrel, means for rotating said mandrel upon said support to effect the winding of the strips into tubing thereon, a cylindrical feeding member supported in alignment with and as a continuation of said mandrel and having its surface formed with screw threads adapted to engage with the inner surface of the formed tubing, and means on said mandrel operable to engage and rotate the formed tubing thereon relative to said screw threads, whereby said screw threads will effect longitudinal withdrawal of said tubing from the mandrel as it is formed thereon.

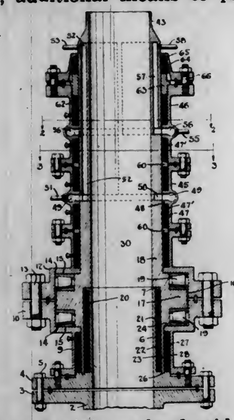
2,322,678
AUTOMATIZED ACCOUNTING MEDIUM
George L. Whitehead, Huntingdon, Pa.
Application October 24, 1942, Serial No. 463,217
6 Claims. (Cl. 283—66)



6. A recording sheet adapted to be bound with others of its kind in superposed succession, with the lateral and transverse edges of said sheets substantially flush, said sheet comprising an appropriately designated main vertical central area provided with horizontal rows of data receiving spaces, and an appropriately designated complementary vertical area at each of the opposite sides of said central area provided with horizontal rows of data receiving spaces as lateral extensions of said main area rows respectively, with major portions of said complementary areas upwardly from the bottom marginal edge of said sheet being detachable as a whole or selectively as vertical sub-portions thereof from the remainder of the sheet by tearing along vertical lines of perforations paralleling the lateral marginal edges of the sheet, and by tearing along transverse lines of perforations disposed parallel to and spaced downwardly from the top marginal edge of said sheet and extending inwardly from said lateral edges of said sheet to the lateral edges of said main central area, leaving upper portions of said complementary areas intact and integral with said central area whereby predetermined portions of the horizontal rows of data spaces in said complementary areas may be removed selectively.

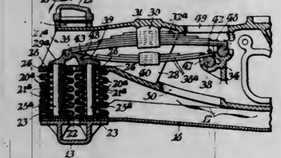
2,322,679
ROTATING BLOWOUT PREVENTER
Al B. Williamson, Corpus Christi, Tex.
Application February 4, 1941, Serial No. 377,294
2 Claims. (Cl. 255—19)

1. A well head for rotatably supporting a blowout preventer including a base spool, a plurality of additional spools stacked thereon, a support for the preventer extending through said spools, means rotatably positioning said support in said base spool, additional means to provide a seal



about said support in each of said spools, and a fluid passage through one of said additional spools to said support.

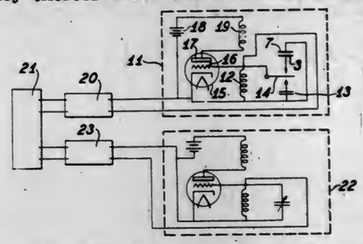
2,322,680
SPRING SUSPENSION FOR RAILWAY TRUCKS AND THE LIKE
Charles D. Young, Haverford, Pa.
Application July 16, 1941, Serial No. 402,574
9 Claims. (Cl. 105—197.1)



5. In a truck, the combination with a side frame having a bolster window and a hollow bolster with an end in said window, of a spring suspension which includes leaf spring means comprising two sections mounted in superposed relation within the bolster longitudinally thereof with their outer ends within the frame window and within the bolster end, the mid portion of said spring means serving as a support for the bolster end, one spring section being normally relaxed and out of operative contact with the other spring section but effective upon engagement with said other spring section to augment the resistivity of the latter when it has been flexed, and bearings respectively on the frame and within the bolster against which the opposite ends of the spring means react.
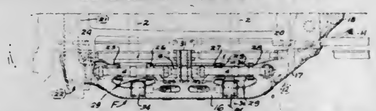
2,322,681
CONDENSER GRAVITY METER
Hughes M. Zenor, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 29, 1938, Serial No. 221,881
5 Claims. (Cl. 265—1.4)

1. A gravity meter comprising, in combination, a condenser, one plate of which is movable in response to changes in gravity in a manner to change the value of the capacity of said condenser, a fixed condenser equal in capacity to the aforesaid condenser at a base station, an oscillator comprising an oscillating circuit, means for selectively connecting one or the other of said condensers in said circuit, a second oscillator, means for beating the frequency of said oscillators one against the other, said second oscillator including means for adjusting the frequency thereof when either of said condensers



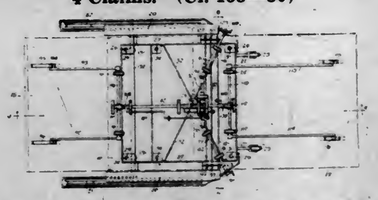
is in the circuit of said first oscillator, whereby any change in the frequency of said first oscillator occasioned by alternately connecting said condensers in said first oscillating circuit at a field station constitutes a measure of the difference in gravity between said field station and the base station.

2,322,682
RAILWAY TRUCK
Robert R. Cease, Nameoki, Ill., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application November 1, 1941, Serial No. 417,461
11 Claims. (Cl. 105—174)



1. In a railway vehicle truck, spaced axles, wheels thereon, said axles having portions extending outwardly of the truck beyond said wheels, boxes on said portions, spring means mounted on said boxes, and a truck frame supported from said springs and including elements at the sides of said boxes for guiding the same in the relative vertical movements of the frame and boxes, said frame including side members positioned mainly abreast of the ends of axles and having portions extending between the guide elements for each box and beyond the end of the box and below the level of the corresponding spring means, the space between said wheels and axles being free of truck frame parts, and the end of said frame being provided with a center plate positioned longitudinally of the truck beyond the adjacent axle.

2,322,683
COMBINATION WHEEL CHAIR AND STRETCHER
Juanita Costa and Ferrere Costa, New York, N. Y.
Application November 29, 1940, Serial No. 367,786
4 Claims. (Cl. 155—30)



2. In a chair having a frame, back and leg rest

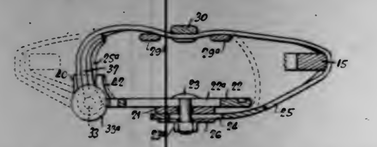
members hinged to a seat member, a shaft mounted centrally of said frame, means on said seat member operatively connected with said shaft to raise and lower said seat member, means on said leg rest and back members operatively connected with said shaft to vary the angle between said back and leg rest members with relation to said seat member, means to operate said shaft, and means to selectively engage or disengage each of said operatively connected means with said shaft to move any one of said seat, back, or leg rest members independently or simultaneously.

2,322,684
MACHINE TOOL
Benjamin Grob and Theodore Grob, West Allis, Wis.
Application August 21, 1935, Serial No. 37,159
7 Claims. (Cl. 29—76)



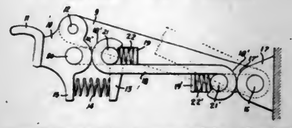
6. An endless file train for filing machines, said train comprising a flexible endless carrier, a longitudinal succession of files individually attached to said carrier, mutually interlocking means at the adjacent ends of successive files for retaining the latter against relative later displacement, said interlocking means having guiding surfaces extending substantially parallel to the axes of said files.

2,322,685
PICKER STICK CHECK FOR LOOMS
John C. Crocker, Ware Shoals, S. C., assignor of one-half to William D. Dodenhoff, Greenville, S. C.
Application February 3, 1942, Serial No. 429,415
9 Claims. (Cl. 139—165)



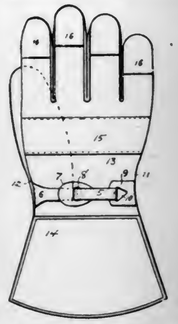
1. In a loom having a lay and an oscillating picker stick, a picker stick check comprising a hanger carried by said lay, a headed pin adjustably mounted in said bracket at a point near one of the limits of oscillation, a loop strap surrounding the said stick, said strap being rotatably mounted upon said pin and confined thereon by said head, said hanger having a beveled surface disposed on the opposite side of said strap from said pin head, and said surface being engageable by the strap as it rotates about a pin, whereby an increasing resistance to said rotation will be produced as the picker stick approaches its other limit of oscillation.

2,322,686
ELECTRICAL CONNECTOR
Erich Dehmel, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application July 10, 1941, Serial No. 401,834
In Germany June 13, 1940
4 Claims. (Cl. 173—324)



2. In combination, a movable electric current conductor having a curvilinear surface at one end thereof, a stationary electric current conductor having a curvilinear surface at one end thereof, means for electrically interconnecting said movable and stationary conductors comprising a cage having a pair of rollers mounted therein, one of said rollers being movable relative to the other, the curvilinear surfaces of said conductors being held in rolling engagement with each other between said rollers, and means for biasing said one roller toward said other roller to bias said curvilinear surfaces into good current-conducting engagement throughout the rolling movement between the same when said movable conductor moves relative to said stationary conductor.

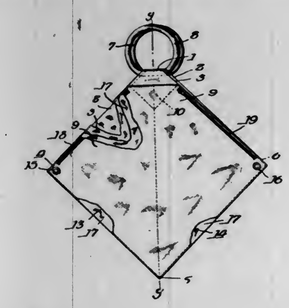
2,322,687
TAKE-UP FOR GLOVES
Herman A. Gillian, Kendallville, Ind.
Application July 15, 1942, Serial No. 450,950
2 Claims. (Cl. 24—266)



1. In a wrist take-up for a glove, an apertured anchor piece secured in one of the side seams of said glove, and a thong, one end of which is shaped to provide an apertured pull-tab that is looped through the aperture in said anchor piece, the opposite end portion of said thong being strung through the aperture of the pull-tab and its extremity being secured in the opposite side seam of the glove, the under surfaces of said thong having frictional contact with the adjacent face of said wrist portion of the glove when the take-up is tightened and the wrist of the glove thereby constricted thus to hold the glove in place.

2,322,688
LADY'S KNITTING AND SHOPPING BAG
Gertrude J. Glick, Bartlett, Ill.
Application April 16, 1942, Serial No. 439,161
1 Claim. (Cl. 150—1.7)

A shopping bag or the like comprising a substantially diamond-shaped body member having a supporting handle at one corner thereof, a pair of similar diamond-shaped wall members secured to each other and to said body member along converging edges which intersect to form a second corner opposite said first mentioned corner, said pair of walls being further connected to each other along a central line intersecting both said corners to provide therebetween a pair of oppositely opening pockets along the free con-

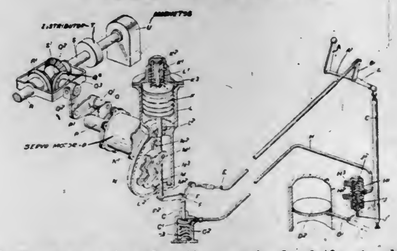


verging edges thereof, detachable fastening means normally closing said free converging edges, cooperating fastening members on said first mentioned corner portion of the body member and on the overlying corner portion of the wall members, said fastening members being located adjacent said handle and in alignment with the central line of connection of said wall members to each other.

2,322,689
CHEMICAL PROCESS FOR PRODUCTION OF POTABLE WATER FROM NONPOTABLE SALINE WATER
Alexander Goetz, Pasadena, Calif., assignor to Sunshine Mining Company, Yakima, Wash., a corporation
No Drawing. Application August 4, 1942, Serial No. 453,596
18 Claims. (Cl. 210—23)

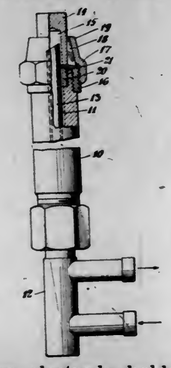
1. A process for the production of potable water from saline waters which are non-potable due to contained sodium chloride and magnesium chloride in sufficient amounts to be toxic to the human system on consumption of said water, said process comprising dispersing in a body of said saline water in a suitable container a sufficient quantity of a compound of silver selected from the group consisting of silver oxide and silver carbonate to effect reactions with said chloride solutes in said saline water with resulting formation of precipitates containing substantially all the chlorine and magnesium of said sodium and magnesium chlorides originally contained in said body of saline water and formation of a sodium hydroxide solute in said body of water when silver oxide is the selected and dispersed silver compound and a sodium carbonate solute in said body of water when silver carbonate is the selected and dispersed silver compound, adding to the supernatant water containing one of said last-mentioned solutes a sufficient amount of a non-toxic, weak organic acid capable of reacting with either of said sodium hydroxide and sodium carbonate solutes to form a non-toxic sodium salt of said acid, and separating the formed precipitates from the supernatant water in any desired order during the performance of the process.

2,322,690
APPARATUS FOR THE CONTROL OF THE IGNITION OF INTERNAL COMBUSTION ENGINES
Frank Bernard Halford, Edgware, and Adrian Leslie Catford, Hampton, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain
Application July 21, 1942, Serial No. 451,790
In Great Britain September 5, 1941
7 Claims. (Cl. 123—117)



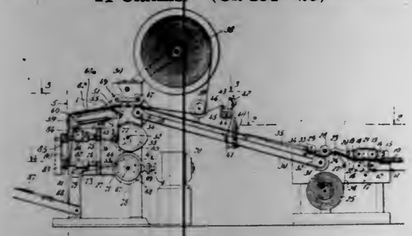
1. In apparatus for the control of the ignition in an internal combustion engine the combination of at least one magneto and at least one distributor with means for driving them, a pressure sensitive capsule, an engine throttle, a hand lever and means for moving the throttle by this lever, means for adjusting the magneto and distributor to vary the timing by movements transmitted through a cam member, means by which the hand lever can act on this cam member, means by which the said capsule can act on the said cam member, and means whereby when the throttle is opened fully the capsule automatically becomes operative alone on the said cam member and controls the ignition timing and simultaneously the hand lever ceases to act on the siad cam member until the throttle is a least partially closed.

2,322,691
WELDING ELECTRODE HOLDER
Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application August 4, 1942, Serial No. 453,523
7 Claims. (Cl. 219—4)



1. A welding electrode holder comprising a barrel having a longitudinal fluid passage emerging at one end, a sharp annular ridge on said end surrounding said passage, and a welding electrode clamp for holding an electrode against said ridge on said end, whereby said ridge will make electric contact and form a water seal with said electrode.

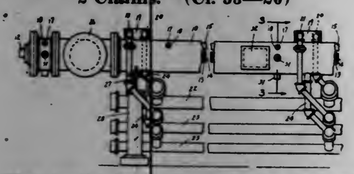
2,322,692
METHOD AND APPARATUS FOR MAKING ABSORBENT PADS
John O. Hunt, Ware Shoals, S. C., assignor to Ware Shoals Manufacturing Co., New York, N. Y., a corporation of South Carolina
Application January 6, 1942, Serial No. 425,773
11 Claims. (Cl. 154—29)



1. A method of making absorbent pads which comprises applying to one face of a web of loose fibrous material a sheet wider than the web with the lateral edges of the sheet projecting beyond the adjacent edges of the web, folding the lateral edges of the sheet around the adjacent edges of the web and against the other face thereof, placing a layer of a different absorbent material in juxtaposition to said other face of the web and with one face of the layer opposed to said face of the web, applying lines of adhesive to one of said opposed faces throughout the length thereof before said faces are brought into final opposed position, and pressing the layers together to cause the adhesive to secure the second layer to the inturned edges of the sheet.

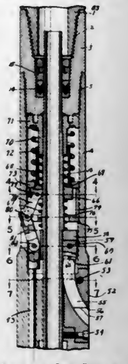
7. An apparatus for making absorbent pads which comprises means for advancing a web of loose fibrous material, means for applying to one face of the advancing web a sheet of fabric wider than the web, the lateral edges of the sheet projecting beyond the adjacent edges of the web, means for turning the lateral edges of the sheet around the lateral edges of the web and against the other face thereof, means for advancing a strip of a different fibrous material along the path of the web and at the same rate, with one face of the strip opposed to the face of the web against which the inturned edges of the sheet lie, means for applying longitudinal lines of adhesive to one of said opposed faces, means for compressing the sheet and web to form a pad strip, and means for severing unit pads from the end of the pad strip.

2,322,693
METHOD FOR PROCESSING CANNED FOODS
Alex R. Kennedy, deceased, late of Indianapolis, Ind., by Harriett M. Kennedy, executrix, Indianapolis, Ind., assignor to Indiana Condensed Milk Company, Indianapolis, Ind., a corporation
Original application November 16, 1940, Serial No. 365,906. Divided and this application July 17, 1941, Serial No. 402,808
2 Claims. (Cl. 53—20)



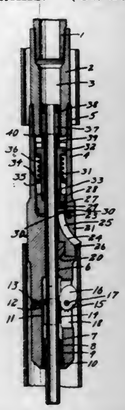
1. The method of processing a canned food product consisting in agitating the food while preheating it for a predetermined period of time to a degree of temperature but below that required for cooking it, at the end of said preheating thereof increasing the heat to bring the product to a cooking temperature while continuing to agitate it for a further predetermined period of time, thereupon discontinuing the agitation of the product and simultaneously decreasing the heat for a period of time during which the product is maintained stationary, and thereafter again agitating the product while applying a cooling medium thereto to reduce the heat thereof to normal temperature.

2,322,694
PIPE CUTTER AND REAMER
Robert B. Kinzbach, Houston, Tex.
Application October 11, 1941, Serial No. 414,659
16 Claims. (Cl. 164—0.7)



1. In a pipe cutter, a body, a knife mounted in the body for outward radial movement with respect to the body to engage a pipe to be cut, an actuating member movable in said body, an epicyclic gear train for causing movement of said actuating member upon rotation of said body, and means for transmitting the movement of said actuating member to said knife to cause radial movement thereof.

2,322,695
PIPE MILLING DEVICE
Robert B. Kinzbach, Houston, Tex.
Application May 11, 1942, Serial No. 442,426
15 Claims. (Cl. 164—0.8)



15. An apparatus for milling away the upper end of the lower of two vertically axially spaced sections of pipe in a well, comprising a body adapted to be lowered through an upper section of pipe and inserted into the lower section through the upper end of the latter, a knife mounted on the body for outward movement, knife actuating means carried by the body below the knife and engageable with the inner surface of the upper section to prevent outward movement of said knife, and means urging said actuating means outwardly whereby said actuating means will be displaced outwardly beyond the inner surface of the pipe as it is passed downwardly through the space between said sections of pipe and engage the upper end of the lower section upon further downward movement of the body to move the knife outwardly into a position to mill the upper end of the lower section.

2,322,696
PROCESS FOR THE MANUFACTURE OF ACRYLIC ACID NITRILE DERIVATIVES
Peter Kurtz and Herbert Schwarz, Leverkusen-Wiesdorf, Germany; vested in the Alien Property Custodian
No Drawing. Application February 12, 1941, Serial No. 378,566. In Germany October 17, 1939
10 Claims. (Cl. 260—464)

1. Process for the manufacture of acrylic acid nitrile derivatives of the formula

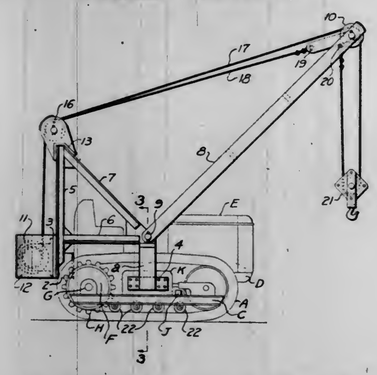
$$R.CH{=}CH{-}C{\equiv}N$$

which comprises bringing derivatives of acetylene of the formula

$$R.C{\equiv}CH$$

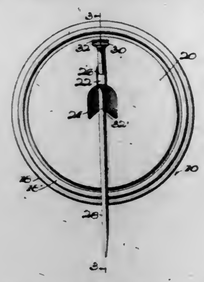
wherein R stands for a lower aliphatic hydrocarbon radical together with hydrocyanic acid into contact with a cuprous chloride catalyst.

2,322,697
CRANE ATTACHMENT FOR TRACTORS
Frank P. Lawler, Chicago, Ill., assignor of one-half to Mayer R. Robinson, Burlingame, Calif.
Application May 15, 1942, Serial No. 443,073
2 Claims. (Cl. 212—8)



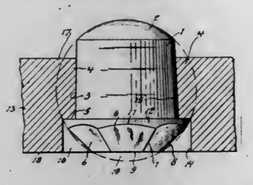
1. The combination with the main frame and the track frames of a tractor of the self-laying track type, of a U-shaped supporting member secured to and straddling each track frame at a point substantially midway of the length of the track frames, a cross-plate secured to the rear end of the main frame, a pair of A-frames disposed one on each side of the tractor and secured at their forward ends to the respective U-shaped supporting members and at their rear ends to the cross-plate, a boom arm pivotally supported on the respective U-shaped supporting members, a hoist secured to the cross-plate to operate the boom arms, and means rigidly connecting the track frames to the main frame of the tractor.

2,322,698
LAPEL BUTTON
Charles F. Mitchel, Rochester, N. Y., assignor to Bastian Brothers Company, Rochester, N. Y., a corporation of New York
Application April 23, 1942, Serial No. 440,232
2 Claims. (Cl. 24—103)



1. In a lapel button, a backing plate provided with a pin head receiving seat and having a fabric receiving opening spaced from said seat, said backing plate being provided between said seat and opening with a projecting strap forming an eye of a size to receive a headed pin and arranged to confine the pin head normally in said seat, the latter having walls arranged to engage the pin head and hold the pin against sliding movement in said eye and maintain the pin in a position extending across the fabric receiving opening so that the pin when passed through fabric will force the latter into said opening and cause the fabric to resist removal of the lapel button.

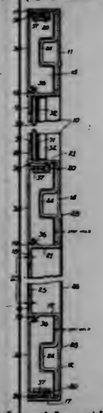
2,322,699
LIGHT REFLECTING DEVICE
Waldemar O. Mitscherling, New York, N. Y., assignor to Reflecto Letters, Inc., New York, N. Y., a corporation of New York
Application September 9, 1941, Serial No. 410,210
3 Claims. (Cl. 88—82)



1. A transparent reflector for signs comprising a front refracting convex lens having a circular edge, said lens being a portion of a sphere, a substantially cylindrical body portion extending rearwardly from said lens, the center of said sphere being within said body, a convex rear reflecting surface, a transverse shoulder at the area of junction of said body and rear surface, the outer edge of said shoulder being a circle having the same radius and the same center as said sphere, facets on said rear surface, the corners of said

facets being on radii of said sphere, and a polygonal facet at the rear of said surface in a plane transverse to said body and having its corners on radii of said sphere.

2,322,700
STRUCTURE
Delavan S. Mussey, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 18, 1940, Serial No. 335,929
7 Claims. (Cl. 189—46)



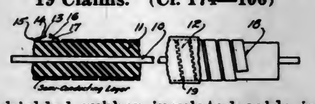
1. In a frame work, side stile members and cross rail members, both of substantially U-shape with their legs extending outwardly in the same direction, connecting members secured to the inner web surfaces of the members to form joints between the stile and rail members, oppositely disposed legs of said stiles and rails being provided with co-planar angularly disposed flanges, and detachable cover plates applied over the normally open sides of the stile and rail members to obscure the connecting members.

2,322,701
PREPARATION OF STERILE TUBING SETS
Maurice M. Nesset, Glenview, and Edward J. Nawoj, Chicago, Ill., assignors to Baxter Laboratories, Inc., Glenview, Ill., a corporation of Delaware
Application August 20, 1941, Serial No. 407,612
6 Claims. (Cl. 21—2)



1. A method of preparing sterile tubing, comprising filling thin-walled tubing collapsible under atmospheric pressure with a sterile liquid, sealing the ends, supporting the same, and sterilizing with heat.

2,322,702
SHIELDED CABLE
Thomas F. Peterson, Brooklyn, N. Y.
Application June 24, 1929, Serial No. 373,181
19 Claims. (Cl. 174—106)



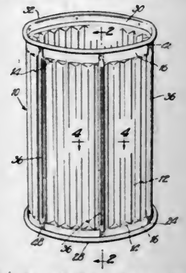
3. A shielded rubber insulated cable in which ionizable spaces between the rubber and shield are obviated by the use of an adhesive tape located between the rubber insulation and the shield and in contact with the rubber, the outer face of said adhesive tape being covered with metal.

2,322,703
ALARM INDICATOR
Herbert S. Polin, New York, N. Y., assignor of one-half to Harry A. Furman, Schenectady, N. Y.
Application August 10, 1939, Serial No. 289,349
3 Claims. (Cl. 177—311)



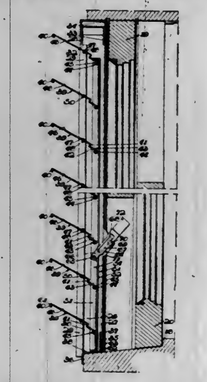
1. The combination of a measuring instrument, a glow discharge lamp adjacent the face thereof, said instrument having an index member, a source of high-tension electric energy connected to said member, and a conductor attached to said glow discharge lamp to preserve the operative relation thereof with the index member when the latter moves past said lamp.

2,322,704
SIDE BRACE FOR RECEPTACLES
Irving Seltzer, Brooklyn, N. Y.
Application July 25, 1941, Serial No. 403,963
1 Claim. (Cl. 220—71)



In a receptacle of the class described, a cylindrical body, corrugations extending longitudinally of the cylindrical body and terminating short of the ends thereof stays extending longitudinally of the body at spaced intervals therearound, each of said stays being of a length equal to that of the cylindrical body comprising a sheet metal member of U-shaped cross-sectional form for a length equal to the length of the corrugations with the distance between the side walls of the stays being less than the greatest distance between the corrugations, having inwardly folded side walls at each end to provide relatively short flattened portions, the free ends of which terminate flush with the end edges of the cylindrical body, rivets passing through the flattened ends of the stays and the cylindrical body beyond the ends of the corrugations for securing the stays to the cylindrical body, an end wall for closing one end of the cylindrical body, a ring-like member mounted within each end of the cylindrical body and secured therein by the rivets which secure the stays to the cylindrical body and an outwardly rolled bead on each of said ring-like members, said outwardly rolled beads enclosing their respective end edges of the cylindrical body and ends of the stays in spaced relation thereto.

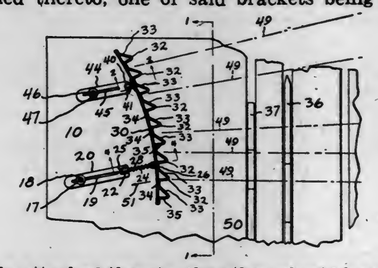
2,322,705
SHUTTER STRUCTURE
William E. Small, Miami, Fla., assignor of one-third to Lyle Bishop, Miami, Fla., and one-third to Thomas B. Lehon, Chicago, Ill.
Application October 10, 1941, Serial No. 414,520
7 Claims. (Cl. 189—62)



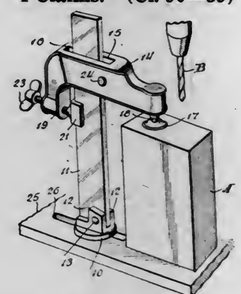
1. In a shutter structure, an outer rigid frame formed entirely of metal and of channel formation, a plurality of louvers pivotally mounted upon the outer portion of the frame to turn upon substantially horizontal longitudinal axes, a vertically movable rigid metal frame including sides and a top and bottom connecting the sides and mounted within the channel of the outer frame and disposed upon the inner side of the louvers and pivotally connected with the louvers near their inner longitudinal edges, and means to move the vertically movable frame.

2,322,706
GRAIN GUIDE AND RETARDER FOR BINDERS
Frank Wengler, Remsen, Iowa
Application June 29, 1942, Serial No. 448,914
2 Claims. (Cl. 56—468)

1. A grain guide and retarder for binders comprising a substantially arcuate plate member attached to a binder deck, said plate member being positioned at right angles to the deck, and having its lower end nearer to the binder tying mechanism than its upper end, said plate member including a plurality of raised serrations, said serrations having angularly inclined rear portions against which grain heads are adapted to bear, said serrations having rounded end portions, means for adjustably securing said plate in any desired position, including a pair of brackets attached thereto, one of said brackets being pivotally attached thereto, the other of said brackets including a resilient member interposed between the bracket and said plate.



2,322,707
HOLD-DOWN CLAMP
Max E. Wetzler, Long Island City, N. Y.
Application February 10, 1942, Serial No. 430,189
4 Claims. (Cl. 90—59)

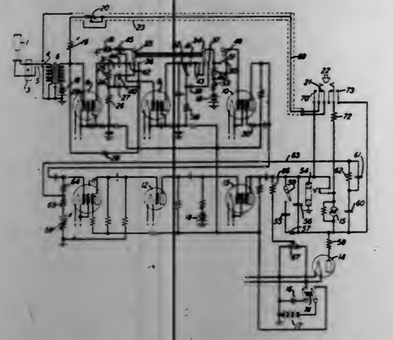


1. A hold down clamp of the kind described comprising a base, an upright member fixed upon said base and projecting upwardly therefrom, a clamping bracket having a slot for slidably mounting said bracket on said upright member for adjustment lengthwise thereof, a swivelled clamping member carried by said clamping bracket for engagement with the work, a fulcrum member carried by said clamping bracket in the slot thereof and extending transversely of the upright member in engagement therewith, a pressure developing spindle carried by said clamping bracket in threaded engagement therewith, a pressure member in swivelled connection with said spindle for engagement with said upright member in opposed relation to said fulcrum member, said spindle co-operating with said fulcrum member to force said clamping member into clamping engagement with the work, and means whereby said base is adapted to be movably connected with the bed-plate of a machine to mount said hold down clamp in said machine.

2,322,708
VIBRATION MEASURING APPARATUS
Michael J. Burger, South Ozone Park, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 31, 1942, Serial No. 429,068
8 Claims. (Cl. 179—1)

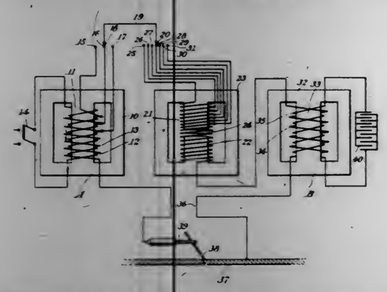
1. Portable, self-contained, measuring apparatus comprising a carrying case containing input

connections, a meter, a multistage amplifier having an input circuit connected to the input connection, and an output circuit connected to the meter, batteries for energizing the amplifier, negative feedback circuits in the amplifier for



stabilizing the gain of the amplifier, and means for producing within the amplifier and impressing on the meter oscillations of an amplitude varying with the gain of the amplifier for checking the gain of the apparatus.

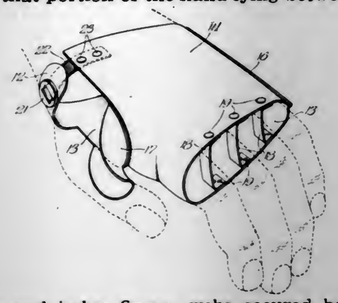
2,322,709
WELDING APPARATUS
Frederick C. Owen, Fayetteville, N. C.
Application January 13, 1939, Serial No. 250,832
1 Claim. (Cl. 219—8)



Welding apparatus comprising a main transformer having a core providing a closed magnetic circuit and closely coupled primary and secondary windings thereon, an auxiliary transformer having a core likewise providing a closed magnetic circuit and closely coupled primary and secondary windings thereon, a capacitance connected across the secondary of the auxiliary transformer, and a reactor having a core providing a closed magnetic circuit interrupted with an air gap and a winding mounted on the core and bridging the air gap, the secondary of the main transformer, the winding of the reactor and the primary of the auxiliary transformer being serially connected and in series with welding leads.

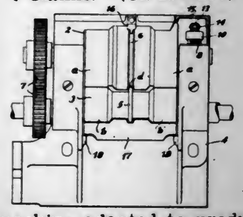
2,322,710
HAND PROTECTOR
Robert M. Eisendrath, Chicago, Ill., assignor to Eisendrath Glove Company, Chicago, Ill.
Application December 21, 1939, Serial No. 310,267
2 Claims. (Cl. 2—20)

1. A hand guard for workmen and the like, comprising a body portion folded upon itself to cover only the palm and back of the hand and extending slightly over the knuckles where the fingers join the hand, stitching connecting contiguous side edges of the body portion so as to lie along one side of the hand, said body portion being of flat material and being cut away at the thumb area so as to be readily applicable to either hand, a web stitched to the body portion at the cut-away thumb area in a position to lie flat between that portion of the hand lying between the



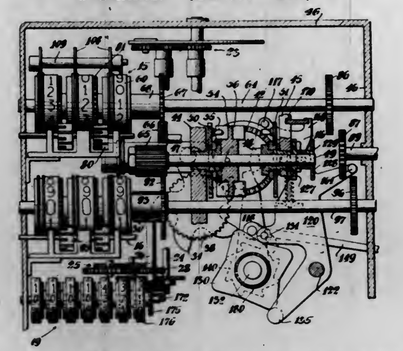
thumb and index finger, webs secured between the palm and back of the body portion to separate the fingers, and means for closing the body portion around the wrist at the region of said cut-away thumb area, said means operable whether the guard is on the right or left hand.

2,322,711
CALENDERING MECHANISM FOR CARD SLIVER WORKING MACHINES
Eugene C. Gwaltney, Biddeford, and Paul B. West, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application September 27, 1941, Serial No. 412,630
7 Claims. (Cl. 19—157)



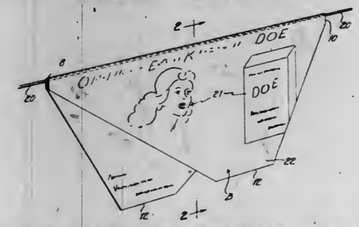
1. In a machine adapted to produce a sliver, the combination of a pair of rolls for calendering said sliver, one of said rolls being provided with a circumferential tongue and the other with a circumferential groove to receive said tongue, and the calendering surfaces being formed, respectively, on the edge of said tongue and the bottom of said groove, each of said rolls having collars at opposite sides of the tongued and grooved portions thereof, respectively; means supporting said rolls with the collars of one running in contact with those of the other, said calendering surfaces having approximately the same diameter as the collars of the respective rolls on which they are formed, means for driving said rolls at substantially the same peripheral speed to avoid producing any material wiping action on a sliver being fed between said calendering surfaces, the parts being so dimensioned, however, that the collars cooperate to maintain a small minimum clearance between said calendering surfaces, but said clearance being so limited as to facilitate the piecing up operation, and weighting means for yieldingly forcing one of said rolls against the other to maintain the desired degree of calendering pressure on the sliver.

2,322,712
UNIVERSAL PREDETERMINED AUTOSTOP REGISTER
Charles S. Hazard, Andover, N. J., assignor to Neptune Meter Company, a corporation of New Jersey
Application February 17, 1938, Serial No. 190,993
3 Claims. (Cl. 235—132)



1. In a device having counting means operable in either a forward or reverse direction to a predetermined count, driving means therefor and a reversible connection for said driving means; the combination therewith of predetermining means adapted to be operated at the end of each counting operation, a cam driven by said driving means, an element movable to cam engageable position upon operation of said predetermining means, and means associated with said element to effect reversal of said connection when said element is actuated by said cam.

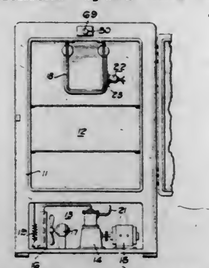
2,322,713
DISPLAY DEVICE
Hilmer Hirschhorn, Newark, N. J., assignor to Snyder & Black, Inc., New York, N. Y.
Application December 20, 1941, Serial No. 423,800
1 Claim. (Cl. 40—128)



A display of the type described comprising a rectangular blank of greater length than width, said blank having a plurality of incomplete display copies printed upon each of its opposite faces in such arrangement that when the blank is folded upon itself upon a line extending diagonally through the blank, printed portions of both faces of the blank will be visible upon each side of the folded blank to produce a complete display copy upon each side of the folded blank.

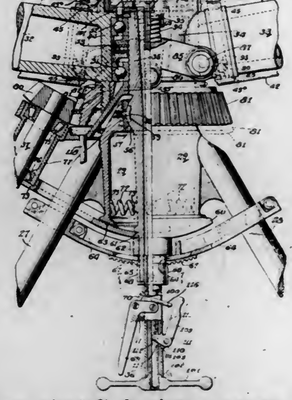
2,322,714
REFRIGERATING APPARATUS
Milton Kalischer, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 15, 1940, Serial No. 365,822
10 Claims. (Cl. 62—4)

1. In refrigerating apparatus, the combination of an evaporator, a compressor for circulating refrigerant through the evaporator, a motor for driving the compressor, a switch for controlling the operation of the motor, a thermostatic element in heat exchange relation with said evaporator for opening and closing said switch at predetermined low and high temperatures, and means for varying the temperatures at which said thermostatic element opens and closes, said



means including an electrical heater in heat exchange relation with said thermostatic element and a single manually operable member for controlling said heater and said motor to provide continuous operation of the motor, complete deenergization of said motor, or automatic cyclic operation of said motor in response to one or more pre-selected mean evaporator temperatures.

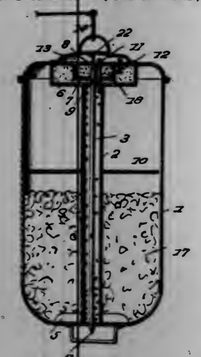
2,322,715
AIRCRAFT
Theodore Kloeren, Philadelphia, Pa.
Application July 24, 1940, Serial No. 347,272
8 Claims. (Cl. 244—7)



5. In an aircraft having a power plant, an overhead wing system comprising a pair of wings extending oppositely outwardly from a common hub, said wings each being rotatably adjustable about their respective longitudinal axes, said hub being rotatably mounted on a tiltable pivot shaft, rotating means for said hub including a drive-shaft operatively connected to said power plant, a spur gear carried by the drive-shaft, a bevel gear permanently in mesh with said spur gear and means for axially advancing said bevel gear to a hub rotating position when said drive-shaft is rotated by said power plant and for axially retracting said bevel gear when said drive-shaft is not rotated by said power plant thereby to permit free rotation of said wings, pitch-varying means associated with said wings arranged automati-

cally to change the pitch of said wings, said pitch-varying means including a pair of pivoted members carried by said hub and connected to said wings, said pivoted members being moved when said bevel gear is in its wing-driving position to tilt said wings to a value suitable for power-driven rotation of the wing system, said pivoted members being oppositely moved when said bevel gear is in its retracted position to change the pitch of said wings to a value suitable for free rotation of said wing system, releasable hub-locking means for locking said hub against rotation with the wings extending generally transversely of the body of said aircraft, and manually-operable means for setting said wings at pre-determined pitch for fixed-wing operation.

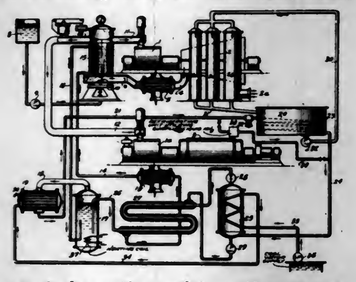
2,322,716
MARINE TORCH
Charles Linhardt, Jr., Baltimore, Md.
Application June 25, 1940, Serial No. 342,351
3 Claims. (Cl. 9—8.3)



3. A marine torch, including a casing formed in its lower portion to receive a chemical of a character to generate an inflammable gas on contact with water, a foraminous tube passing through the chemical-receiving area of the casing and extending above the same, a pipe extending through the tube and opening below the casing, said pipe being in communication with the foraminous tube, a tank carried by the foraminous tube and designed to receive a chemical to produce a smoke on contact with water, a receptacle supported at the upper end of the casing and designed to receive a chemical to produce a flame on contact with water, said pipe passing through and in communication with the tank and opening in the receptacle, means to deliver the inflammable gas from the foraminous tube to and beyond the top of the casing, said means passing through the tank and receptacle extending through an opening in the casing, which opening forms an outlet from the receptacle.

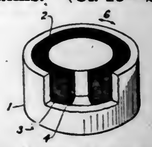
2,322,717
APPARATUS FOR COMBUSTION TURBINES
Friedrich Nettel, New York, N. Y.
Application December 15, 1939, Serial No. 309,359
In Japan August 10, 1939
6 Claims. (Cl. 60—41)

1. A power system, comprising means for combusting fuel, a turbine connected to be driven by the gases of combustion from said combustion means, means to compress in a plurality of stages air to support combustion of said fuel, means to cool said air before the first said compression stage and between each two said stages, heat exchange means to transfer at least a portion of the rejected heat from said turbine to preheat said air after the final compression stage and before introducing said air into said combustion



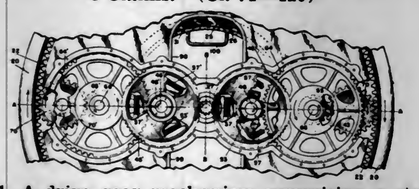
means and absorption refrigerating means utilizing at least a portion of the rejected heat from said turbine to supply a refrigerating medium at low temperature to said air cooling means.

2,322,718
SURFACING DEVICE
Harold Childs Pease, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application April 1, 1941, Serial No. 386,262
13 Claims. (Cl. 15—201)



1. In a device of the character described, a supporting member having an annular recess therein, and a continuous band of bristles in said recess secured only at their inner ends and to the bottom of said recess with the length of said bristles and the depth of said recess being substantially equal, and the walls of said recess adapted to laterally support said bristles substantially uniformly throughout the depth extent of said bristles in said recess.

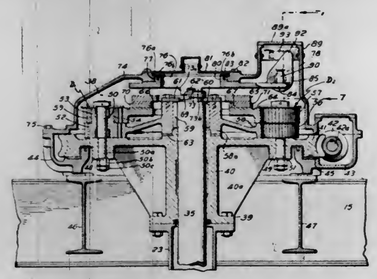
2,322,719
APPARATUS FOR THE TREATMENT OF SLURRIES OR LIQUID SOLIDS MIXTURES
Charles H. Scott, Westport, Conn., assignor to The Dorr Company, New York, N. Y., a corporation of Delaware
Application March 6, 1942, Serial No. 433,574
3 Claims. (Cl. 74—410)



1. A drive gear mechanism comprising a stationary frame, an internally toothed low speed gear mounted upon said frame for rotation about a vertical axis, a vertical drive shaft having fixed thereon a high speed driving pinion rotatable about a fixed vertical rotary axis substantially coaxial with the rotary axis of said rotary

internally toothed gear, a pair of gear trains disposed substantially symmetrically with respect to the high speed driving pinion for transmitting substantially half of the driving torque to each of two corresponding diametrically opposed points of driving engagement of the low speed gear, resilient torque absorbing means interposed in each gear train, whereby the respective shares of the driving torque thus transmitted to the low speed gear are substantially interbalanced and equalized and a substantially true torque transmission is obtained from said high speed pinion to said low speed gear, and means whereby said vertical drive shaft is adjustable in a horizontal direction which is at right angles to a diameter of said low speed gear, which diameter is defined by said opposed points of driving engagement on said low speed gear.

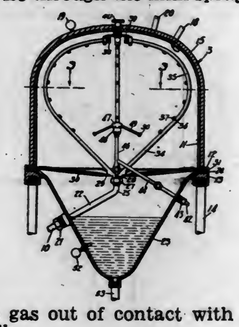
2,322,720
APPARATUS FOR THE TREATMENT OF LIQUID SOLIDS MIXTURES
Charles H. Scott and Harry A. Linch, Westport, Conn., assignors to The Dorr Company, New York, N. Y., a corporation of Delaware
Application March 27, 1942, Serial No. 436,450
4 Claims. (Cl. 74—306)



1. A drive gear mechanism comprising a primary gear, stationary means for supporting said primary gear for rotation about a vertical axis, means for driving said primary gear, a vertical shaft, a secondary gear above and rotatably supported by said primary gear and substantially concentric therewith and rotatable relative thereto and connected with said shaft to rotate therewith, a non-rotatable gear above the secondary gear and having substantially concentric relationship therewith and being of different diameter than said secondary gear, stationary structure to provide for non-rotatable mounting of said non-rotatable gear, a pair of opposedly arranged planetary gear units rotatably mounted upon said primary gear, by which units said secondary gear is geared up to said non-rotatable gear thereabove, and means for mounting the non-rotatable gear and the planetary gear units in a manner to permit them to float horizontally relative to one another so as to interbalance the torque loads being transmitted simultaneously through each of said planetary gear units.

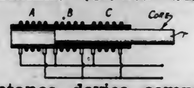
2,322,721
METHOD OF AND APPARATUS FOR STERILIZING MILK
Herbert T. Stiles, Suffield, Conn.
Application January 13, 1939, Serial No. 250,776
15 Claims. (Cl. 99—212)

1. The step in sterilizing milk which consists in, flash sterilizing milk spray with previously unheated chlorine gas while heating the gas to cause it to rise through the milk spray and main-



taining the gas out of contact with the collecting bulk milk.

2,322,722
PERMEABILITY TUNING SYSTEM
Chandler Wentworth, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 29, 1942, Serial No. 444,974
9 Claims. (Cl. 171—242)



1. An inductance device comprising a plurality of coils disposed end to end and electrically connected in parallel, and a magnetic core arranged for axial movement with respect to said coils.

2,322,723
ORGANIC INSECTICIDE COMPOSITION
David W. Young, Roselle, N. J., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application April 24, 1941, Serial No. 390,103
10 Claims. (Cl. 167—42)

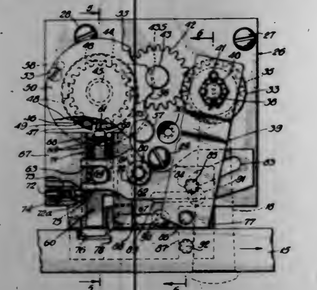
1. A persistent stomach poisoning insecticide spray composition comprising essentially a normally solid organic insecticide of heterocyclic composition in powdered form suspended in a viscous to plastic iso-olefin polymer having an average molecular weight of above about 1,000.

2,322,724
COMBINATION LOCK
Sylvanus M. Archer, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application January 30, 1941, Serial No. 376,574
22 Claims. (Cl. 70—1.5)

1. In a lock of the class described, a series of tumblers having gatings, a fence adapted to enter said gatings, a manually operated handle for moving said fence into said gatings, a cam connection between said handle and fence, and through which said handle moves said fence into said gatings, said cam connection being formed so that but a slight portion of the manual force applied to said handle is in turn applied toward the moving of said fence into said gatings.

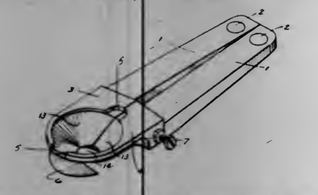
8. In a lock of the class described, a series of tumblers having gatings, a fence adapted to enter said gatings, means mounting said fence for movement normally away from said gatings, limit means limiting the movement of said fence away

from said gatings to a predetermined position, and means for deadlocking said fence against movement back toward said predetermined position



once said fence moves beyond said predetermined position as when said limit means is destroyed by an attack on the lock.

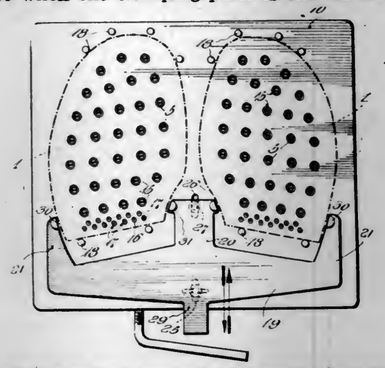
2,322,725
FLARE HOLDER
Albert T. Bovio, Beverly, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application October 26, 1940, Serial No. 363,000
5 Claims. (Cl. 49—14)



2. A flare holder for a machine for making stems for electric lamps comprising a pair of jaws which, when abutting each other, form a truncated cone in which the flare is held, the bottom of said cone having a substantially elliptical opening therein; and a shield located beneath said holder and protecting said flare during its cycle about said stem machine.

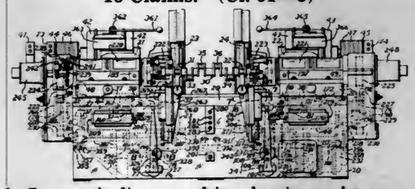
2,322,726
SHOE SOLE PUNCHING DIE
Thomas F. Carfagno, Hanover, Pa., assignor to Cannon Shoe Company, Baltimore, Md., a corporation of Massachusetts
Original application September 2, 1941, Serial No. 409,309. Divided and this application June 13, 1942, Serial No. 446,923
3 Claims. (Cl. 164—29)

2. In a device of the character described, a die comprising a base plate, a plurality of prongs mounted on the base plate and projecting upwardly therefrom, a sole supporting plate yieldingly and normally supported in a plane slightly above the upper ends of said prongs, guide means for said sole supporting plate directing its movement with respect to said base plate, means in association with said guide means to limit the upward movement of said sole supporting plate with respect to the base plate, said sole supporting plate being provided with a plurality of openings in registering alignment with the aforesaid prongs, abutment lugs extending upwardly from said supporting plate in position for engaging edges of front ends of soles resting upon the supporting plate in spaced side-by-side relation to each other, a clamping plate resting upon the rear portion of the supporting plate and slidable thereon toward and away from said lugs to adjusted positions, arms extending forwardly from ends of said clamping plate and midway the length thereof and provided with upstanding lugs for engaging side edges of rear portions of the soles and cooperating with the first lugs for clamping the soles in place upon the supporting plate when the clamping plate is shifted toward



the first lugs and secured, and means for supplying pressure to the sole supporting plate against the tension of the yielding support thereof to position the sole supporting plate nearer the base plate and permit the prongs to project through the openings of the sole supporting plate and penetrate soles clamped upon the supporting plate.

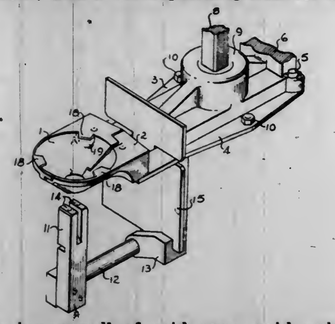
2,322,727
CRANKSHAFT GRINDING MACHINE
Raymond A. Cole and Franklin E. Johnson, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application July 15, 1941, Serial No. 402,466
18 Claims. (Cl. 51—3)



1. In a grinding machine having a base, a rotatable work support including a pair of spaced work heads on said base, a pair of spaced rotatable grinding wheels, means simultaneously to feed said grinding wheels transversely simultaneously to grind a pair of aligned pins on a crankshaft, and means simultaneously to index said grinding wheels longitudinally successively into alignment with successive pairs of pins on a crankshaft.

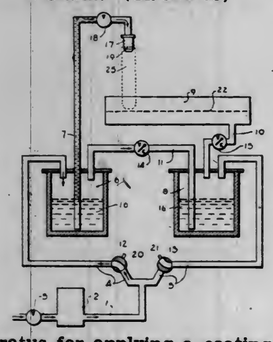
2,322,728
APPARATUS FOR LAMP STEM MANUFACTURE
Paul E. Gates, Danvers, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application October 1, 1941, Serial No. 413,140
3 Claims. (Cl. 49—2)

1. In apparatus for making electric lamp stems, the combination: a pair of jaws which, when abutting each other, form a hollow, inverted, truncated, circular cone; a plurality of tangs disposed equidistantly about the periphery of the base of said cone and projecting inwardly therefrom; and a corresponding number of nubs



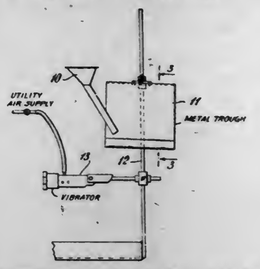
on the inner wall of said cone, said nubs each being adjacent to and immediately below one of said tangs; said jaws having overlappingly disposed meeting edges which form baffles.

2,322,729
COATING APPARATUS FOR GASEOUS DISCHARGE LAMPS
George E. Holman, Melrose, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application March 22, 1941, Serial No. 384,765
1 Claim. (Cl. 91—43)



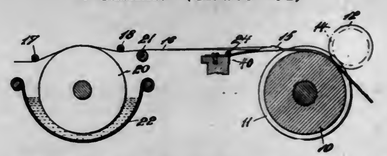
In apparatus for applying a coating of luminescent material solution to the walls of an elongated glass envelope, the combination; a source of air pressure; a coating solution container in communication with said source; means for directing said coating solution on to the walls of said glass envelope at the top only of said envelope so that the solution may drain down over the inside walls over said envelope to coat the same, said means being in communication with said container; a trough in drainage relationship to said elongated glass envelope; a filter in said trough; a recovery container; a check valve; means for connecting said recovery container to said filtering trough through said check valve; a second check valve; means for connecting said recovery container to said first mentioned container through said second check valve; means for connecting said source of air under pressure to said recovery container; means for closing said first mentioned container from said air source when said recovery container is connected to said air source; and means for closing said recovery container from said air source when said first mentioned container is connected to said air source.

2,322,730
BEAD STRINGING
George T. Kaneb, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application April 16, 1942, Serial No. 439,247
2 Claims. (Cl. 223—48)



1. A bead stringing device for use in stringing beads having sides of substantial length parallel to the holes therethrough and having one convex and one concave end, which comprises; an elongated trough shaped member, open at its top throughout its length, extending approximately horizontally, but slightly inclined in the direction of its length; means for feeding beads to the upper end of said trough; and means for agitating said trough.

2,322,731
FORMER FOR PAPER STRING
George E. Repass, Pawtucket, R. I., assignor to H & B American Machine Company, a corporation of Maine
Application August 30, 1941, Serial No. 409,013
7 Claims. (Cl. 270—94)

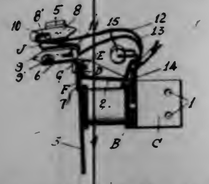


1. A device for forming a paper strip into a folded shape preparatory for twisting comprising a generally funnel-shaped guide including a front nozzle and having tapered concaved side walls forming a tapered concaved guideway extending therethrough for guiding and curling the side edges of a paper strip upwardly and laterally to dispose them opposite each other above the body of the strip, means for guiding and folding the bottom of said folded strip lengthwise along its middle and to maintain the resulting shape of said bottom fold without support therefor as the folded strip advances along said guideway through the nozzle, and means coacting with the said last-named folding means for folding the laterally bent side edges into the bottom of said middle fold and causing them to be bent outwardly and upwardly by the inner surface thereof to be ultimately disposed inside the first mold of each of said edges.

2,322,732
ELECTRIC SWITCH AND CONTROL THEREFOR
Vern S. Roach, Wichita, and Raymond A. Gray, Rock, Kans., assignors to H. H. Hurst, Wichita, Kans.
Application July 14, 1941, Serial No. 102,332
2 Claims. (Cl. 172—126)

1. In an electric switch structure for pendulum

movement, an electric magnet and a flap, means to rockably carry the flap in working relation to the magnet, and another means secured to the flap to carry a pair of mercury switches extending outward from one side of the flap, the extension being oppositely disposed to the position of the magnet for gravity control to swing the flap to engagement with the magnet, and the said switch elements and magnet being on the same electric circuit, there being means on a pendulum to move the flap outward from the magnet sufficient to close the circuit in both mer-



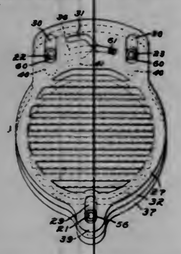
cury switch elements and the said switch elements and magnet when energized by an electric current will start an oscillatory movement of the pendulum which in its oscillatory movement will make and break the current by rocking movement of the mercury switch elements as the said means on the pendulum moves the flap to rock said mercury switch elements across a horizontal plane alternately in opposite directions to effect the flow of the mercury in each element to close the circuit momentary at each rocking movement.

2,322,733

SHUTTER MECHANISM FOR PHOTOGRAPHIC CAMERAS

Oscar Steiner, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware

Application December 3, 1940, Serial No. 368,394
50 Claims. (Cl. 95—56)



29. In shutter mechanism for a photographic camera, a stationary plate and two oppositely movable plates, all in a face to face relation, and all of which plates are provided with spaced bars alternating with unobstructed spaces, a supporting housing for all said plates and provided with a cover plate also having spaced bars, and means supported by said housing to move said movable plates in directions opposite to each other, transversely to their bars, so as to open and close the shutter.

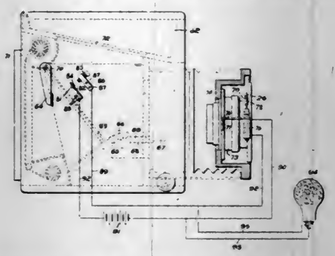
2,322,734

REFLEX CAMERA WITH GRID SHUTTER

Oscar Steiner, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware

Original application December 4, 1940, Serial No. 368,394. Divided and this application June 19, 1941, Serial No. 398,791
6 Claims. (Cl. 95—42)

1. A camera of the reflex type having a pivoted mirror swingable from focusing position to picture-taking position, and having a lens barrel with an objective lens in advance of said mirror; an exposure grid shutter at said lens barrel providing in excess of fifty per cent shutter opening, and for that purpose consisting of a stationary grid plate having a plurality of parallel, flat bars and intervening, parallel, elongated, unobstructed openings, and of two oppositely movable grid plates with bars and openings like those of said stationary plate, all said plates occupying a face-to-face relation, the cross sectional dimension of all of the said bars of each such plate being less than the cross sectional dimension of all said openings of such plate, and such dimension of each bar being less than such



dimension of the adjacent opening at either side thereof, thereby to admit sufficient light past the lens, for photographic purposes, the said mirror acting as a capping means for the said grid shutter during the resetting thereof; mirror release means; and means operatively connecting said mirror and the said two movable grid plates to move said two grid plates simultaneously in directions transverse to their bars substantially simultaneously with the movement of the released mirror from focusing to picture-taking position, thereby bringing all the bars and all the openings respectively of said grid plates into superposed relation.

2,322,735

HEMOSTATIC ANALGESIC, AND BACTERICIDAL COMPOSITION OF MATTER

Nicholas M. Molnar, New York, N. Y., assignor to Albert D. Mizzy, New York, N. Y.

No Drawing. Application August 11, 1939, Serial No. 289,591
3 Claims. (Cl. 167—58)

1. A stable hemostatic, analgesic and bactericidal preparation comprising a solution of tannic acid, chlorbutanol, and a solvent for chlorbutanol having the property of lowering the ionization factor of the tannic acid, and comprising glycerine, the preparation being stable under extremes of temperature.

2,322,736

SUGAR PLASTICIZER PRODUCT

Nathan R. Pike, New Rochelle, N. Y., Paul H. Kelm, Fort Lee, and George A. McLaren, Jr., West Englewood, N. J., assignors to Applied Sugar Laboratories, Inc., New York, N. Y., a corporation of New York

No Drawing. Application November 14, 1941, Serial No. 419,168
4 Claims. (Cl. 106—124)

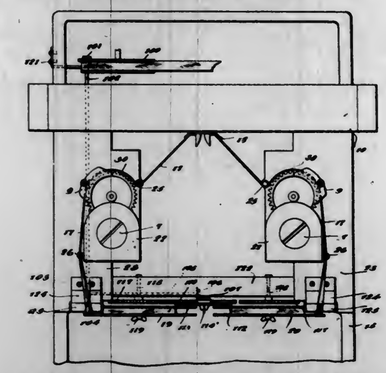
1. A composition of matter comprising a substance selected from the group consisting of animal and vegetable glues incorporated with the reaction product of a monosaccharide and an alkaline bisulfite.

2,322,737

INK FOUNTAIN TYPING MACHINE

George E. Pelton, Middleburg, Va., assignor to Ida S. Pelton, Middleburg, Va.

Application May 21, 1940, Serial No. 336,443
7 Claims. (Cl. 197—151)



1. A typing machine comprising a frame having typing means, a bar transverse of the frame, a pair of spools revolubly mounted thereon adapted to rotate in vertical planes, said spools being of sufficient diameter for accommodation of a ribbon at least thirty-six yards long, and means for rotating the spools free from drag for winding said ribbon tightly thereon, even when the said ribbon is under substantial tension, including a selective gear connection between said spools, a driving means in the rear of said frame and a driven shaft extending longitudinally of said frame and having connection at its rear and front ends, respectively, with said driving means and with said gear connection.

2,322,738

LUBRICATING MATERIAL AND PROCESS OF PRODUCING THE SAME

Benjamin H. Rouse, Russell, Kans., assignor of one-third to Floyd B. Lee and Corder T. Brown, both of Hays, Kans., jointly, and one-third to Clair J. Wilson, M. C. Eddy, Hays, Kans., Floyd B. Lee, St. Louis, Mo., and Corder T. Brown, Kansas City, Mo.

No Drawing. Application October 18, 1939, Serial No. 300,069
5 Claims. (Cl. 252—21)

1. A process of producing a lubricant of the character described, said process comprising screening the "vermiculite" through a 60–100 mesh, then exfoliating the screened "vermiculite" by direct flame heating, then washing the resultant to remove foreign matter therefrom, then drying said resultant, then grinding the dried resultant in a hammer mill so as to separate the "vermiculite" into microscopic laminae or flakes along the natural lines of cleavage thereof, then grinding the resultant in company with lubricating oil alone so as to further reduce the "vermiculite" to substantially colloidal form and produce a substantially saturated suspension of the "vermiculite" in the oil.

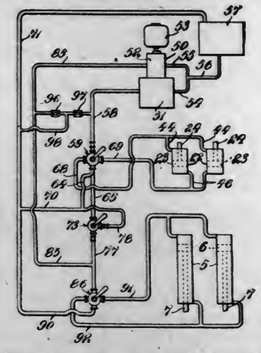
2,322,739

HYDRAULICALLY OPERATED APPARATUS

Harry H. Vanderzee, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application November 14, 1939, Serial No. 304,384
15 Claims. (Cl. 60—97)

1. In a hydraulically operated apparatus, hydraulically operable means for selectively gripping and releasing a tool, hydraulically operable means for selectively feeding and retracting a tool when it is gripped by said first mentioned hydraulically operable means, a relatively large capacity pumping unit, a relatively small capacity pumping unit, a valve means for selectively rendering one of said pumping units operable to supply fluid to said first mentioned hydraulically operable means to effect gripping of a tool or to trap fluid in said first mentioned hydrauli-



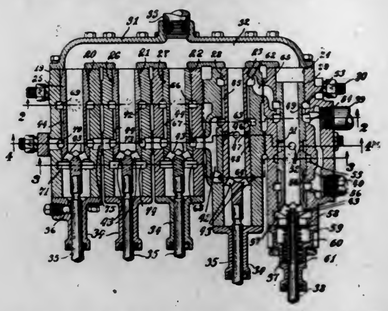
cally operable means to maintain tool gripping while rendering the discharge of said pumping unit available for other purposes, means for selectively rendering one or both of said pumping units operable to supply fluid to said second mentioned hydraulically operable means, a return line, and means operable to connect the discharge from one or both of said pumping units freely to said return line when the same are not supplying fluid to said second mentioned hydraulically operable means.

2,322,740

HYDRAULICALLY OPERATED APPARATUS

Harry H. Vanderzee, Claremont, N. H., and Adolph E. Felt, Marquette, Mich., assignors to Sullivan Machinery Company, a corporation of Massachusetts

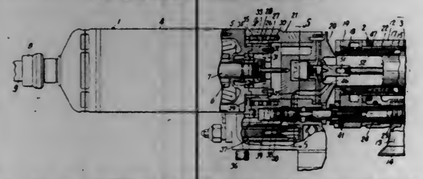
Application June 5, 1940, Serial No. 338,980
8 Claims. (Cl. 60—52)



5. In a hydraulic control mechanism, in combination, a hydraulic pump of high capacity, a hydraulic pump of low capacity, said pumps having a common intake, a hydraulically operated device actuated on the supply of a liquid to one end to move in one direction and on the supply of liquid to its opposite end to move in another direction, means for supplying liquid from said pump of low capacity to one end of said hydraulically operated device including

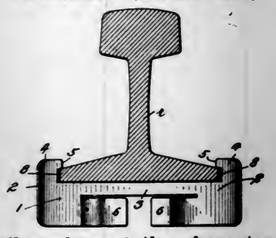
means for automatically establishing communication between said pump and said end whenever the pressure in the latter is below a predetermined value, and means including a manually operated valve for selectively connecting one end of said hydraulically operated device to said pump of high capacity while connecting its other end to the intake of said pumps.

2,322,741
DRILLING APPARATUS
Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application August 2, 1940, Serial No. 349,647
24 Claims. (Cl. 255—45)



1. In a drilling apparatus, the combination comprising a motor for rotating a drill bit, means effective upon supply of operating medium thereto for feeding the drill bit, and means automatically responsive to variations in the resistance to drill bit penetration for controlling the feeding pressure on the drill bit, said automatic controlling means being operable wholly independently of the torque changes on said motor and embodying means for controlling the supply of operating medium to said feeding means positionable automatically to provide an increased supply rate upon a reduction in the resistance to drill bit penetration.

2,322,742
RAIL ANCHOR
Chester Francis Gailor, Brooklyn, N. Y.; Evelyn P. Gailor, administratrix of said Chester Francis Gailor, deceased
Application November 14, 1941, Serial No. 419,146
5 Claims. (Cl. 238—327)



1. A rail anchor of the character described comprising a body having opposite end portions and a transverse connecting tension member underlying the rail base, the end portions being formed with upwardly extended jaw portions to engage the rail base vertical edges and having shoulders overlying the rail base flange and offset, resilient bearing flanges extending inwardly from the inner sides of the end portions and positioned to engage the tie and operative to effect flexing of the body under pressures of tie engagement to increase the gripping pressure responsive thereto.

DESIGNS

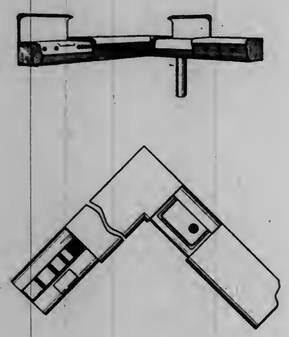
JUNE 22, 1943

135,841
DESIGN FOR A ONE CUP DRIP COFFEE MAKER
Joseph Block, New York, N. Y., assignor to J. & I. Block, New York, N. Y., copartnership composed of Irving Block, Dorothy Block, and said Joseph Block
Application April 30, 1943, Serial No. 110,083
Term of patent 7 years



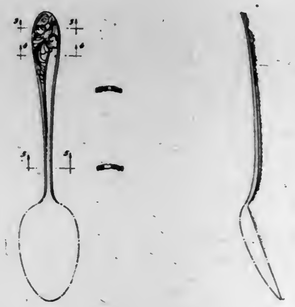
The ornamental design for a one cup drip coffee maker, as shown and described.

135,842
DESIGN FOR A COMBINATION KITCHEN UNIT
Halbert Creston Doner, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application November 23, 1942, Serial No. 108,845
Term of patent 14 years



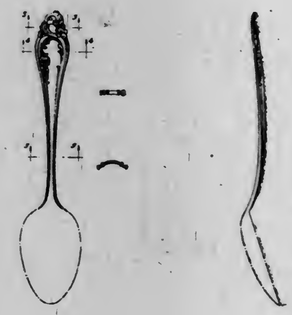
The ornamental design for a combination kitchen unit, substantially as shown.

135,843
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
James Russell Price, Cranston, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island
Application April 18, 1942, Serial No. 106,619
Term of patent 3½ years



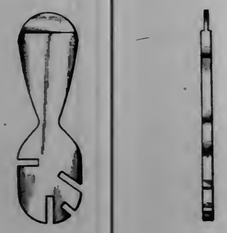
The ornamental design for a spoon or other article of flatware, substantially as shown.

135,844
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
James Russell Price, Cranston, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island
Application April 18, 1942, Serial No. 106,620
Term of patent 14 years



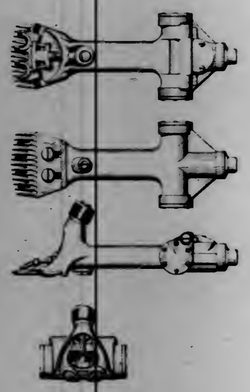
The ornamental design for a spoon or other article of flatware, substantially as shown.

135,845
DESIGN FOR A WRENCH OR SIMILAR ARTICLE
Clarence Milborn Mayo, Oklahoma City, Okla.
Application April 20, 1943, Serial No. 110,006
Term of patent 14 years



The ornamental design for a wrench or similar article, as shown.

135,846
DESIGN FOR A SHEEP SHEARING DEVICE
Vincent A. Wilcox, Modesto, Calif., assignor to The Pneumatic Shear Company, Turlock, Calif., a corporation of California
Application February 23, 1942, Serial No. 105,953
Term of patent 14 years



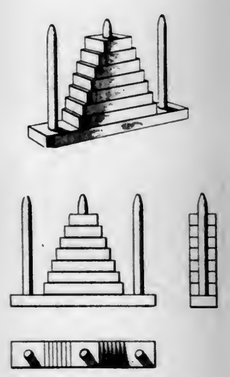
The ornamental design for a sheep shearing device, substantially as shown.

135,847
DESIGN FOR A COMBINED CANDLE AND MUSIC BOX
Ralph A. Ajello, Bronx, N. Y., assignor to Antonino Ajello & Bros., New York, N. Y., a firm composed of Ralph A. Ajello and Edward J. Ajello
Application March 11, 1943, Serial No. 109,733
Term of patent 7 years



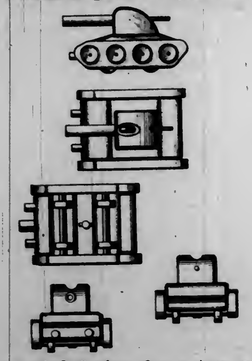
The ornamental design for a combined candle and music box, as shown.

135,848
DESIGN FOR A PUZZLE
Joseph W. Drueke, Grand Rapids, Mich.
Application December 26, 1942, Serial No. 109,139
Term of patent 3½ years



The ornamental design for a puzzle, as shown.

135,849
DESIGN FOR A TOY
James E. Gibson, Jr., High Point, N. C.
Application March 10, 1943, Serial No. 109,708
Term of patent 7 years



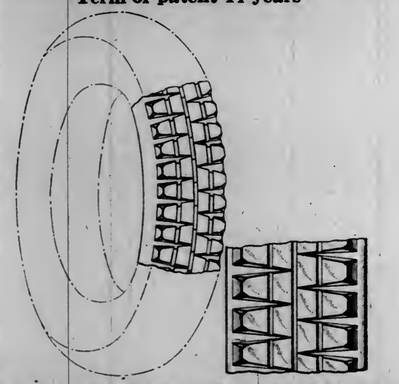
The ornamental design for a top, as shown.

135,850
DESIGN FOR A FISH LURE OR SIMILAR ARTICLE
James W. Harvey, Lakeville, Conn.
Application June 6, 1942, Serial No. 107,149
Term of patent 7 years



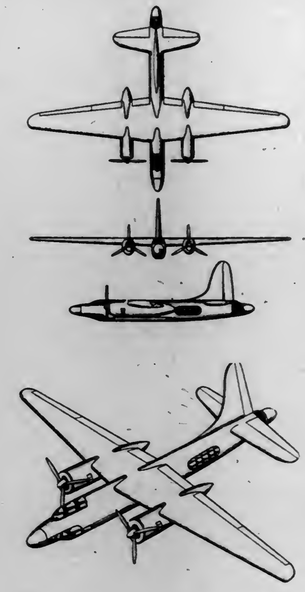
The ornamental design for a fish lure or similar article, substantially as shown.

135,851
DESIGN FOR A NONSKID TIRE
Edward Hayes, Wickliffe, Ohio
Application September 14, 1942, Serial No. 108,229
Term of patent 14 years



The ornamental design for a nonskid tire, as shown.

135,852
DESIGN FOR A BOMBARDMENT AIRPLANE
Paul H. Kemmer, Patterson Field, and Charles S. Butt, Jr., and Carl E. Reichert, Dayton, Ohio
Application October 23, 1942, Serial No. 108,598
Term of patent 7 years



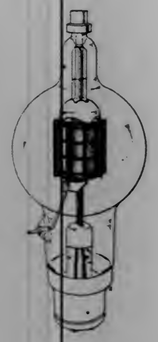
The ornamental design for a bombardment airplane, as shown.

135,853
DESIGN FOR LATTICEWORK
Lewis W. Cohn, Chicago, Ill.
Application March 4, 1943, Serial No. 109,664
Term of patent 7 years



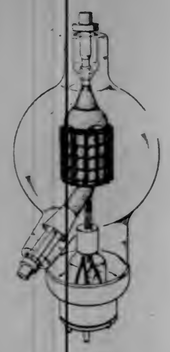
The ornamental design for latticework, substantially as shown.

135,854
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application July 13, 1942, Serial No. 107,514
Term of patent 14 years



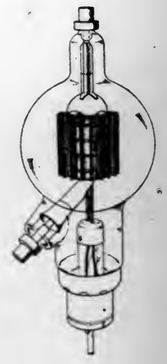
The ornamental design for a vacuum tube, substantially as shown.

135,855
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application August 24, 1942, Serial No. 108,021
Term of patent 14 years



The ornamental design for a vacuum tube, substantially as shown.

135,856
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application August 24, 1942, Serial No. 108,022
Term of patent 14 years



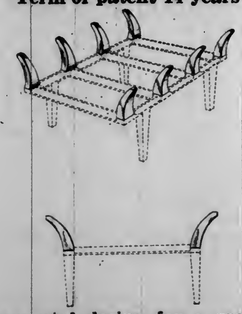
The ornamental design for a vacuum tube, substantially as shown.

135,857
DESIGN FOR A HANDBAG
Joseph F. Keene, New York, N. Y.
Application May 8, 1943, Serial No. 110,165
Term of patent 3½ years



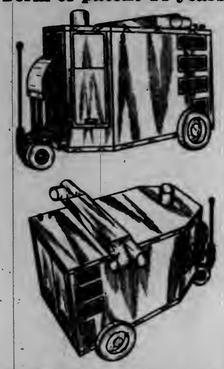
The ornamental design for a handbag, as shown.

135,858
DESIGN FOR A GRATE
Richard M. O'Brien, Arlington Heights, Ill.
Application September 11, 1942, Serial No. 108,185
Term of patent 14 years



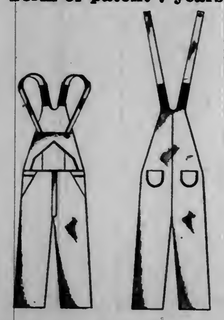
The ornamental design for a grate, substantially as shown and described.

135,859
DESIGN FOR A PORTABLE HEATER UNIT
Donald H. Powers, Tacoma, Wash.
Application January 19, 1942, Serial No. 105,300
Term of patent 14 years



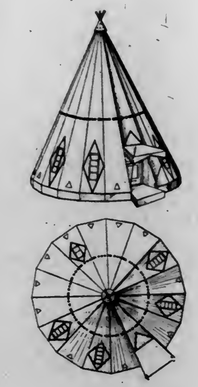
The ornamental design for a portable heater unit, substantially as shown.

135,860
DESIGN FOR AN OVERALL OR SIMILAR ARTICLE
Vincent F. Carlucci, New York, N. Y.
Application June 10, 1942, Serial No. 107,168
Term of patent 7 years



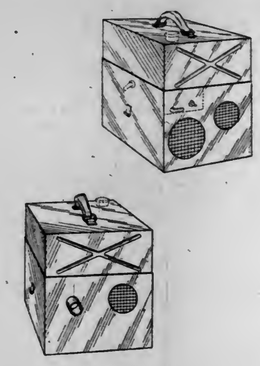
The ornamental design for an overall or similar article, as shown.

135,861
DESIGN FOR A BUILDING
Emerson W. Jarman, Farmville, Va.
Application February 20, 1942, Serial No. 105,920
Term of patent 14 years



The ornamental design for a building, as shown.

135,862
DESIGN FOR A PORTABLE HEATING UNIT
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application October 5, 1942, Serial No. 108,436
Term of patent 14 years



The ornamental design for a portable heating unit, substantially as shown and described.

135,863
DESIGN FOR A SLACKS SUIT
Murray Kay, New York, N. Y.
Application March 10, 1942, Serial No. 106,128
Term of patent 7 years



The ornamental design for a slacks suit, substantially as shown and described.

135,864
DESIGN FOR A COMBINED HEEL, ELONGATED SHANK, AND SOLE
Joseph W. McGee, New York, N. Y.
Application April 30, 1943, Serial No. 110,090
Term of patent 14 years





The ornamental design for a combined heel, elongated shank, and sole, substantially as shown and described.

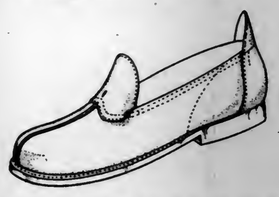
135,865
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Roy L. Ragan, Colorado Springs, Colo.
Application August 28, 1942, Serial No. 108,059
Term of patent 3½ years





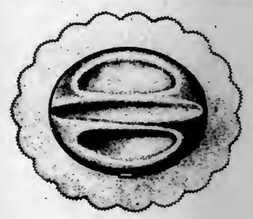
The ornamental design for a badge or similar article as shown and described.

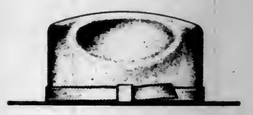
135,866
DESIGN FOR A SHOE
Jacob Sandler, Boston, Mass.
Application May 18, 1943, Serial No. 110,234
Term of patent 3½ years



The ornamental design for a shoe, substantially as shown and described.

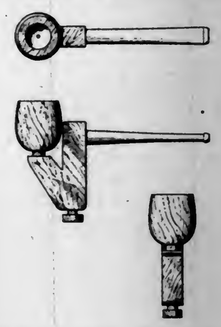
135,867
DESIGN FOR A HAT
Harry Siegelbaum, Yonkers, N. Y.
Application February 25, 1943, Serial No. 109,624
Term of patent 3½ years





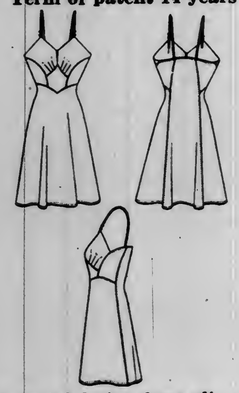
The ornamental design for a hat, substantially as shown.

135,868
DESIGN FOR A SMOKING PIPE
William Newton Snider, Los Angeles, Calif.
Application January 12, 1943, Serial No. 109,242
Term of patent 14 years



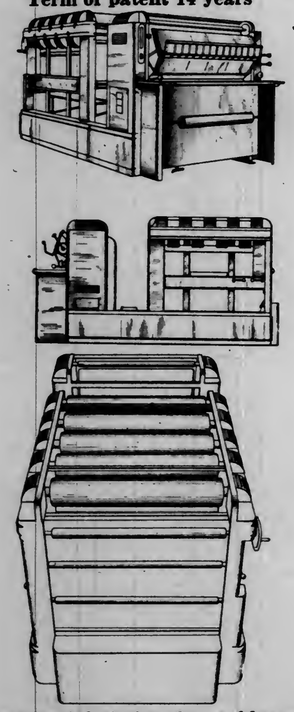
The ornamental design for a smoking pipe, as shown.

135,869
DESIGN FOR A SLIP
Morton Brown, New York, N. Y.
Application May 31, 1943, Serial No. 110,334
Term of patent 14 years



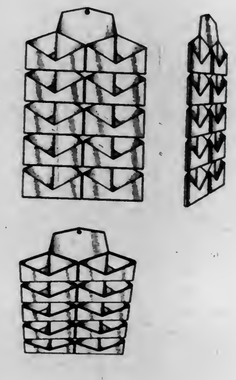
The ornamental design for a slip, substantially as shown.

135,870
DESIGN FOR A BLUEPRINT MACHINE
Harold J. Brunk, Chicago, Ill., assignor to The C. F. Pease Company, a corporation of Delaware
Application July 11, 1940, Serial No. 93,565
Term of patent 14 years



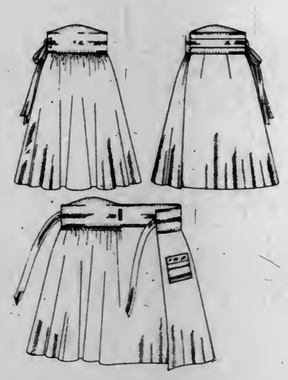
The ornamental design for a blueprint machine, as shown.

135,871
DESIGN FOR A CARD HOLDER
Alvin M. Ferrier, Lowell, Mass.
Application March 4, 1943, Serial No. 109,659
Term of patent 3½ years



The ornamental design for a card holder, as shown.

135,872
DESIGN FOR A WRAP-AROUND SKIRT
Emanuel J. Gerli, New York, N. Y.
Application May 25, 1943, Serial No. 110,285
Term of patent 3½ years



The ornamental design for a wrap-around skirt, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Actomin Products Limited, Wembley, England. Preparations of mineral salts. Serial No. 458,451; June 22. Class 6.

Aktivin Corporation, The, New York, N. Y. Humectants. Serial No. 459,682; June 22. Class 6.

Allen Products Company. (See Hunsicker, Robert F.)

Allied Chemical & Dye Corporation, New York, N. Y. Trade organ. Serial No. 459,157; June 22. Class 38.

Allied Mills, Inc., Chicago, Ill. Poultry feed. Serial No. 460,206; June 22. Class 46.

American Art Service, doing business as Spector-Goodman Advertising, Chicago, Ill. Stationery. Serial No. 459,100; June 22. Class 37.

Ansehl, Benjamin, Co., The, St. Louis, Mo. Leg make-up foundation. Serial No. 459,775; June 22. Class 6.

Associated Fruit Distributors of California. (See Crane, Ray M.)

Baxter Laboratories, Inc., Glenview, Ill. Preparations containing amino acids and mixtures thereof. Serial No. 456,839; June 22. Class 6.

Bay West Paper Company, Green Bay, Wis. Wooden dispensing cabinets. Serial No. 456,266; June 22. Class 2.

Bias, Cyrus D., doing business as Tobacco States Chemical Company, Cave City, Ky. Chemical preparation for fumigating tobacco. Serial No. 459,801; June 22. Class 6.

Boncilla Laboratories, Incorporated, Indianapolis, Ind. Face pack cosmetic, white face pack cosmetic, cold cream, etc. Serial No. 458,060; June 22. Class 6.

Brown Shoe Company, Inc., St. Louis, Mo. Boys' and girls' leather, canvas, and cloth shoes. Serial No. 459,561; June 22. Class 39.

Bucher & Gibbs Plow Company, The. (See Levene Motor Company.)

Bumstead, Dale, Phoenix, Ariz. Fresh citrus fruits. Serial No. 457,539; June 22. Class 46.

Busch, Vern W., doing business as V. W. Busch Manufacturing Company, Rushton, South Lyons, Mich. Lunch boxes. Serial No. 459,977; June 22. Class 2.

Cambridge Handkerchief Works, Inc., New York, N. Y. Handkerchiefs. Serial No. 456,933; June 22. Class 39.

Cannon Mills Company, Kannapolis, N. C. Sheets and pillow cases. Serial No. 459,982; June 22. Class 42.

Certain-Teed Products Corporation, Chicago, Ill. Bottle crown discs. Serial No. 459,358; June 22. Class 50.

Childhood Interests, Inc., Roselle, N. J. Exercisers for babies. Serial No. 459,164; June 22. Class 22.

Cogbill, Joseph A., doing business as Dixie Tool Company, Newark, N. J. Wrenches. Serial No. 460,418; June 22. Class 23.

Crane, Ray M., doing business as Associated Fruit Distributors of California, Los Angeles, Calif. Fresh citrus fruits. Serial No. 458,679; June 22. Class 46.

Cross, Mark, Company, New York, N. Y. Handbags. Serial No. 460,212; June 22. Class 3.

Dixie Tool Company. (See Cogbill, Joseph A.)

Dixon, Joseph, Crucible Company, Jersey City, N. J. Graphite lubricants. Serial No. 457,273; June 22. Class 15.

Dow Chemical Company, The, Midland, Mich. Aromatic chemical. Serial Nos. 459,921–3; June 22. Class 6.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Rayon piece goods. Serial Nos. 459,403–7; June 22. Class 42.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Rayon piece goods. Serial Nos. 459,409–10; June 22. Class 42.

Eclipse Sleep Products, Inc., Brooklyn, N. Y. Mattresses. Serial No. 459,859; June 22. Class 32.

Eiseman, Helen A., doing business as Vitamond Vitamin Company, New York, N. Y. Vitamins and vitamin compounds. Serial No. 459,413; June 22. Class 6.

Essel Manufacturing Co., Brooklyn, N. Y. Mattress covers, ironing board covers, blanket covers, etc. Serial No. 459,563; June 22. Class 42.

Ferroid Supply Company. (See Lauder, Robert B. D.)

Firestone Tire & Rubber Company, The, Akron, Ohio. Pyrophoric cigarette lighters. Serial No. 459,623; June 22. Class 34.

Forsyth, George H., Evanston, Ill. Table ball game. Serial No. 459,541; June 22. Class 22.

Fougera, E., & Co., Incorporated, New York, N. Y. Ferruginous tonic used as a stimulant to the appetite and nutritional anemia. Serial No. 460,293; June 22. Class 6.

France Manufacturing Company, The, Cleveland, Ohio. Gaseous tube lighting units. Serial No. 458,780; June 22. Class 21.

G and N Engineering Company, Boston, Mass. Switch gear including cubicles and switchboards. Serial No. 451,816; June 22. Class 21.

General Electric Company, Schenectady, N. Y. Quartz crystal electric oscillator. Serial No. 449,734; June 22. Class 21.

Glensder Textile Co., New York, N. Y. Women's scarfs. Serial No. 459,657; June 22. Class 39.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Cushions, pillows, mattresses, etc. Serial No. 459,340; June 22. Class 32.

Grimes, James C., Opp, Ala. Laxative powder. Serial No. 460,427; June 22. Class 6.

Gyro-Balance Corporation, Greenwich, Conn. Machine for balancing masses, determining and correcting unbalance in masses, etc. Serial No. 458,393; June 22. Class 26.

Harpignies, Zinaida, New York, N. Y. Women's dresses, suits, caps, etc. Serial Nos. 459,469–70; June 22. Class 39.

Harrison, Monroe, Chicago, Ill. Non-alcoholic maltless fruit juices and fruit concentrates. Serial No. 459,995; June 22. Class 45.

Hess & Clark, Dr., Inc., Ashland, Ohio. Preparation used in the prevention and treatment of coccidiosis. Serial No. 459,957; June 22. Class 6.

Hickman, Alfred M. (See Victory Bag Company, assignor.)

Hines, Bertha, Garnerville, N. Y. Sachets. Serial No. 457,152; June 22. Class 40.

Hopp Press Inc., New York, N. Y. Plastic price tickets, moldings and holders. Serial No. 459,307; June 22. Class 13.

Hoyland Steel Company, Incorporated, New York, N. Y. Tool steel. Serial No. 459,836; June 22. Class 14.

Hudnut, Richard, New York, N. Y. Ointments and creams. Serial Nos. 459,837–8; June 22. Class 6.

Hunsicker, Robert F., doing business as Allen Products Company, Allentown, Pa. Canned and boxed dog foods. Serial No. 459,581; June 22. Class 46.

Hunter Drug Company, The, Lima, Ohio. Vitamin preparations. Serial No. 459,877; June 22. Class 6.

Identag, Inc., New York, N. Y. Identification bracelets and tags. Serial No. 459,667; June 22. Class 28.

Ioline Company, Newark, N. J. Iodine compositions. Serial No. 456,491; June 22. Class 6.

Javatone Manufacturing Company, doing business as Javatone Company, Los Angeles, Calif. Coffee substitute and diluent. Serial No. 460,184; June 22. Class 46.

Johnson-March Corporation, The, New York, N. Y. Wetting agent. Serial No. 459,878; June 22. Class 6.

Jolles, Ida, doing business as J. Jolles Studios, New York, N. Y. Ladies' handbags. Serial No. 460,111; June 22. Class 3.

Jolles, J., Studios. (See Jolles, Ida.)

Kasco Mills, Inc., Toledo, Ohio. Card game. Serial No. 459,999; June 22. Class 22.

Kennedy, John T., Sales Company, Kansas City, Mo. Skin lotion. Serial No. 460,155; June 22. Class 6.

Klinkerfues Bros. Co., St. Paul, Minn. Outer garments. Serial No. 458,464; June 22. Class 39.

Kraft Cheese Company, Chicago, Ill. House organ. Serial No. 459,372; June 22. Class 38.

Lauder, Robert B. D., doing business as Ferroid Supply Company, Stretford, Manchester, England. Fluxes for soldering and welding metals. Serial No. 460,002; June 22. Class 6.

Lehrhoff, Isaac, doing business as I. Lehrhoff & Co., Newark, N. J. Portfolios, pocketbooks, passport cases, etc. Serial No. 459,342; June 22. Class 3.

Leichter, Emil, New York, N. Y. Watches. Serial No. 460,058; June 22. Class 27.

Levene Motor Company, doing business as The Bucher & Gibbs Plow Company, Tacony, Philadelphia, Pa. Plows, moldboards, landsides, and disk harrows. Serial No. 460,263; June 22. Class 23.

Logan Engineering Co., Chicago, Ill. Centrifugal separators of moisture and/or dust from flowing gases. Serial No. 459,692; June 22. Class 34.

Marks, Samuel I., Chicago, Ill. Toilet preparations. Serial No. 460,428; June 22. Class 6.

Master Surgical Instrument Corporation, Irvington, N. J. Haemostatic forceps, holders for surgical needles, tissue forceps, etc. Serial No. 459,959; June 22. Class 44.

Medalist Co., Inc., Passaic, N. J. Cigars. Serial No. 459,012; June 22. Class 17.

Mitchell-Bradford Chemical Company, Bridgeport, Conn. Salts. Serial No. 459,572; June 22. Class 6.

Mohawk Chemical Products Co., assignor to Mohawk Chemical Products, Inc., Philadelphia, Pa. Liquid preparation for cleaning, preserving, and renewing typewriters. Serial No. 456,219; June 22. Class 4.

National Glass Distributors Association, Chicago, Ill. Flat glass. Serial No. 451,649; June 22. Class 33.

Noma Electric Corporation, New York, N. Y. Pull toys. Serial No. 460,122; June 22. Class 22.

Ohlen-Bishop Manufacturing Company, Columbus, Ohio. Saws. Serial No. 460,383; June 22. Class 23.

Pacific Lumber Company, The, San Francisco, Calif. Men's and women's hats. Serial No. 457,422; June 22. Class 39.

Packard Food Products Co. (See Polin, Jack.)

Palmer, Roy P., Minneapolis, Minn. Printed advertising material. Serial No. 458,739; June 22. Class 38.
Parfums Charbert, Inc., New York, N. Y. Gentlemen's toiletries. Serial No. 460,194; June 22. Class 6.
Peerless Album Co., Inc., New York, N. Y. Albums. Serial No. 452,537; June 22. Class 36.
Pittsburgh Chemical Laboratory, Pittsburgh, Pa. Washing powder. Serial No. 460,391; June 22. Class 4.
Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Boys' clothing. Serial No. 458,951; June 22. Class 39.
Polin, Jack, doing business as Packard Food Products Co., Brooklyn, N. Y. Chocolate malted milk preparation in powder and liquid form. Serial No. 451,241; June 22. Class 46.
Portable Elevator Mfg. Co., Bloomington, Ill. Refrigerators and coolers. Serial No. 460,124; June 22. Class 31.
Printing Arts Research Laboratories, Inc., Santa Barbara, Calif. Chemical preparations. Serial No. 451,611; June 22. Class 6.
Production Devices Incorporated, East Hartford, Conn. Pneumatically operated machinery. Serial No. 452,986; June 22. Class 23.
Quality Fruit Wines Corporation, Yonkers, N. Y. Wines. Serial No. 457,751; June 22. Class 47.
Raymond Laboratories, Inc., St. Paul, Minn. Chemical solution. Serial No. 459,946; June 22. Class 6.
Red Rose Chemical Co., Newark, N. Y. Bottled sodium hypochlorite solution. Serial No. 459,603; June 22. Class 6.
Revlon Products Corporation, New York, N. Y. Face powder, rouge and make-up base. Serial No. 460,071; June 22. Class 6.
Rosenthal, Daniel L., New York, N. Y. Neckties, handkerchiefs, dresses, etc. Serial No. 459,769; June 22. Class 39.
Schlesinger, Nelson, New York, N. Y. Women's outer garments. Serial No. 457,998; June 22. Class 39.
Sclafani, Gus, Stamford, Conn. Canned compound of cottonseed, peanut and imported olive oil. Serial No. 445,751; June 22. Class 46.
Selig Company, The, Atlanta, Ga. Insecticide. Serial No. 460,311; June 22. Class 6.
Shane, C. B., Corporation, Chicago, Ill. Overcoats and topcoats. Serial No. 459,499; June 22. Class 39.
Shotwell, The, Mfg. Co., Chicago, Ill. Candy bars. Serial No. 459,913; June 22. Class 46.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Emulsified wall finishing paint. Serial No. 459,231; June 22. Class 16.
Spector-Goodman Advertising. (See American Art Service.)
Squibb, E. R., & Sons, New York, N. Y. Antiseptic and analgesic preparations. Serial No. 460,355; June 22. Class 6.
Staley, A. E., Manufacturing Company, Decatur, Ill. Soy flour. Serial No. 460,202; June 22. Class 46.
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils and greases. Serial No. 460,099; June 22. Class 15.
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils and greases. Serial No. 460,100; June 22. Class 15.
Stokes, Francis C., Company, Vincentown, N. J. Tomato seeds. Serial No. 459,951; June 22. Class 1.
Stomar Products Company, assignor, by mesne assignments, to Stomar Products Co., of Kansas City, Mo. Preparation used as a corn and callous remover. Serial No. 447,409; June 22. Class 6.
Sun Flame Appliances Limited, Ridgefield, N. J. Glass table and cooking ware. Serial No. 459,017; June 22. Class 33.
Surgitube Products Corp., New York, N. Y. Tubular gauze bandages. Serial No. 460,128; June 22. Class 44.
Tobacco States Chemical Company. (See Bias, Cyrus D.)
Trailer Company of America, The, Cincinnati, Ohio. Unitary axle assembly. Serial No. 458,295; June 22. Class 19.
United Aircraft Corporation, East Hartford, Conn. Aircraft propellers, parts, and attachments theretor. Serial No. 458,360; June 22. Class 19.
United Gilsonite Laboratories, Scranton, Pa. Spachtling compound. Serial No. 459,445; June 22. Class 12.
United States Envelope Company, Springfield, Mass. Paper drinking cups. Serial No. 459,180; June 22. Class 2.
Victory Bag Company, assignor to Alfred Merwin Hickman, doing business as Victory Bag Company, Paterson, N. J. Utility bags. Serial No. 453,132; June 22. Class 3.
Vitamond Vitamin Company. (See Eiseman, Helen A.)
Warner, William R., & Co., Inc., Wilmington, Del., and New York, N. Y. Vehicle for use in compounding prescriptions. Serial No. 459,680; June 22. Class 6.
White Company, The, Baltimore, Md. Casein wall paint. Serial No. 451,921; June 22. Class 16.
White, S. S. Dental Manufacturing Company, The, Philadelphia, Pa. Lubricating grease. Serial No. 455,110; June 22. Class 15.
Woodward-Wanger Company, Philadelphia, Pa. Nonmetallic faucet washers. Serial No. 459,894; June 22. Class 35.

LIST OF REGISTRANTS OF TRADE-MARKS

Adler, Jeanne, doing business as Cofytex Sales Co., New York, N. Y. Imitation coffee. 402,002; June 22; Serial No. 458,027; published Apr. 13, 1943. Class 46.
Aget Manufacturing Co., Adrian, Mich. Electrically driven suction fan with housing and ducts therefor. 401,976; June 22; Serial No. 456,634; published Apr. 13, 1943. Class 21.
Allied Mills, Inc. (See Peters, M. C., Mill Co.)
Al-Lon Manufacturing Company, Inc., Baltimore, Md. Ironing board pads and covers, and washable mattress covers. 175,129; renewed Oct. 30, 1943.
Alpha Mills, Schuylkill Haven, Pa. Children's sweaters, two-piece romper suits, pants and creepers. 401,987; June 22; Serial No. 457,560; published Mar. 23, 1943. Class 39.
Alpha Mills, Schuylkill Haven, Pa. Infants' and children's creepers, sweaters, two-piece romper suits, etc. 401,995; June 22; Serial No. 457,801; published Mar. 30, 1943. Class 39.
American Art Alloys, Inc., Kokomo, Ind. Table hollow ware. 402,010–11; June 22; Serial Nos. 458,137–8; published Apr. 13, 1943. Class 13.
American Sales Book Company, Inc., Niagara Falls and Elmira, N. Y. Record blank forms. 402,037; June 22. Class 37.
American Seeding Machine Company, The, Springfield, Ohio, assignor to Oliver Farm Equipment Company, Chicago, Ill. Seeding implements. 175,035; renewed Oct. 30, 1943.
Annual Reviews, Inc., Stanford University, Calif. Publication. 402,043; June 22. Class 38.
Aridye Corporation, Fair Lawn, N. J. Paints in ready-mixed form. 402,032–3; June 22. Class 16.
Arkansas Company, Inc., Newark, N. J. Detergents used in processing of textiles. 402,025; June 22; Serial No. 458,674; published Apr. 13, 1943. Class 4.
Auto-Supplies Mfg. Co., Inc. (See Falbraith, Leslie P., assignor.)
Badger Worsted Mills, Grafton, Wis. Yarns. 402,026; June 22; Serial No. 458,717; published Apr. 13, 1943. Class 43.
Belding Heminway Company. (See H. K. H. Silk Co., The, assignor.)
Bell Smoked Fish Co., The, San Francisco, Calif. Canned fish. 402,023; June 22; Serial No. 458,622; published Apr. 13, 1943. Class 46.
Beneke & Kropf Manufacturing Company, to Borg-Warner Corporation, Chicago, Ill., successor. Carburetors, thermostatic controls for internal-combustion engines, cooling systems for hydrocarbon engines, etc. 161,406; renewed Nov. 14, 1942.
Best Foods, Inc., The. (See H-O (Hornby's Oatmeal) Company, The, assignor.)
Best Foods, Inc., The. (See H-O Cereal Company, Inc., The.)
Bleacho Golden Hair Rinse Co. (See Karp, Joseph Henry.)
Block, Charles A., doing business as H & L Block, San Francisco, Calif. Jackets for men, women and children. 401,986; June 22; Serial No. 457,537; published Mar. 30, 1943. Class 39.
Bon Ami Company, The, New York, N. Y. Scouring soap. 175,072; renewed Oct. 30, 1943.
Booth, Sheldon, & Co., Chicago, Ill., assignor, by mesne assignments, to The A. S. Boyle Company, Jersey City, N. J. Polish. 168,736; renewed May 29, 1943.
Borg-Warner Corporation. (See Beneke & Kropf Manufacturing Company.)
Boyle, A. S., Company, The. (See Booth, Sheldon, & Co., assignor.)
Broadcasting Publications, Inc., Washington, D. C. Weekly periodical. 402,029–30; June 22. Class 38.
Calumet and Hecla Consolidated Copper Company, Boston, Mass. Metal tubing, plain and formed. 401,966; June 22; Serial No. 454,327; published Nov. 17, 1942. Class 13.
Campbell, Rosalie M. Dolls, dog and cat toys, and games, etc. 401,988; June 22; Serial No. 457,585; published Apr. 13, 1943. Class 22.
Cannon Mills Company, Kannapolis, N. C. Sheets and pillowcases. 402,048–9; June 22. Class 42.
Celcure Wood Preserving Corporation, Jacksonville, Fla. Wood products treated with wood preservatives. 401,958; June 22; Serial No. 443,221; published Apr. 13, 1943. Class 12.
Central Yarn Company, Inc., Brooklyn, N. Y. Hand knitting yarn. 402,000; June 22; Serial No. 457,947; published Apr. 6, 1943. Class 43.

Certain-Teed Products Corporation, New York, N. Y. Sheet roofing material. 401,960; June 22; Serial No. 451,030; published Apr. 13, 1943. Class 12.
Chapman, Frank, doing business as The M. W. Dunton Co., assignor to The M. W. Dunton Company, Providence, R. I. Soldering flux. 169,661; renewed June 26, 1943.
Chesterton, A. W., Company, Boston, Mass. Mechanical packing. 401,978; June 22; Serial No. 456,884; published Apr. 13, 1943. Class 35.
Chinook Packing Company, Chinook, Wash. Canned salmon. 171,357; renewed Aug. 7, 1943.
Chinook Packing Company, Chinook, Wash. Canned salmon. 173,844; renewed Oct. 2, 1943.
City Auto Stamping Company, The, Toledo, Ohio. Ammunition chests. 401,990; June 22; Serial No. 457,624; published Apr. 13, 1943. Class 2.
Cofytex Sales Co. (See Adler, Jeanne.)
Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. 174,202; renewed Oct. 9, 1943.
College Inn Food Products Company, Chicago, Ill. Blended whiskey. 402,046; June 22. Class 49.
Colonna, D., & Son, Union Hill, assignor to J. Colonna Bros., North Bergen, N. J. Grated cheese. 167,473; renewed May 1, 1943.
Colonna, J., Bros. (See Colonna, D., & Son, assignor.)
Continental-Diamond Fibre Company. (See Diamond State Fibre Company, assignor.)
County Fair Packing Corp., Jamaica, Long Island, N. Y. Beef cuts. 401,962; June 22; Serial No. 451,741; published Apr. 13, 1943. Class 46.
Coverdale & Bruebaker, Sioux City, Iowa, assignors to Joe Lowe Corporation, New York, N. Y. Sherbet bars. 171,328; renewed August 7, 1943.
Davidow, Inc., New York, N. Y. Ladies' and misses' suits, jackets, skirts, etc. 402,006; June 22; Serial No. 458,063; published Mar. 23, 1943. Class 39.
Delacour Bros. Ltd., assignor to Delco Briars Limited, London, England. Tobacco pipes. 170,624; renewed July 17, 1943.
Delco Briars Limited. (See Delacour Bros. Ltd., assignor.)
De Maria, J. J. (See Union Celery Company, assignor.)
Detroit Lubricator Company, Detroit, Mich. Locomotive lubricators, stationary lubricators, and oil cups. 173,041; renewed Sept. 11, 1943.
Detroit Lubricator Company, Detroit, Mich. Metal valves. 174,509; renewed Oct. 16, 1943.
Diamond Alkali Company, Pittsburgh, Pa. Cleaning and washing compounds, silicated alkalis, dry cleaners, etc., all of which are for general laundry use. 401,970; June 22; Serial No. 455,562; published Apr. 13, 1943. Class 4.
Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del. Laminated phenolic condensation product. 175,089; renewed Oct. 30, 1943.
Dickinson, Albert, Company, The, Chicago, Ill. Dairy feed. 172,812; renewed Sept. 11, 1943.
Dickinson, Albert, Company, The, Chicago, Ill. Poultry feed. 172,965; renewed Sept. 11, 1943.
Draper-Maynard Company, The, Plymouth, N. H., assignor to Sport Products, Inc., Cincinnati, Ohio. Athletic shirts, jerseys, and sweaters. 175,070; renewed Oct. 30, 1943.
Druggists' Supply Corporation, New York, N. Y. Handkerchiefs. 175,172; renewed Oct. 30, 1943.
Fashion Towne, Inc., New York, N. Y. Misses' and junior misses' coats, suits and coat and suit ensembles. 402,014; June 22; Serial No. 458,237; published Apr. 13, 1943. Class 39.
Fellows Medical Manufacturing Company, Inc., New York, N. Y. Preparation of hypophosphites. 175,495; renewed Nov. 6, 1943.
Fingles Company, The, Baltimore, Md. Portable oil-burning heaters for domestic and industrial cooking purposes. 401,955; June 22; Serial No. 438,474; published Apr. 13, 1943. Class 34.
Franklin, Clarence C., Chicago, Ill. Cigars and cigarettes. 401,963; June 22; Serial No. 453,194; published Apr. 13, 1943. Class 17.
Galbraith, Leslie P., Pueblo, assignor to The Auto-Supplies Mfg. Co., Inc., Denver, Colo. Chemically-treated cleaning cloths. 168,048; renewed May 18, 1943.
Garis, Howard R. (See Wish, Fred A., Incorporated.)
Geiger, Louis, Inc., New York, N. Y. Ladies' and girls' overalls, outer shirts, blouses, etc. 401,996; June 22; Serial No. 457,828; published Apr. 6, 1943. Class 39.
Gemetal Company. (See Wilkening, Walter H.)
Gianandrea, N., doing business as Valley Growers Exchange, San Jose, Calif. Fresh vegetables. 402,027; June 22; Serial No. 458,729; published Apr. 13, 1943. Class 46.
Globe Laboratories, Fort Worth, Tex. Anti-hog cholera serums, hog-cholera virus, certain bacterius, etc. 172,680; renewed Sept. 11, 1943.
Goldberg, Samuel A., Chicago, Ill. Sweaters and hosiery. 401,998; June 22; Serial No. 457,853; published Mar. 23, 1943. Class 39.
H. K. H. Silk Co., The, Watertown, Conn., assignor to Belding Heminway Company, New York, N. Y. Sewing silk. 175,168; renewed Oct. 30, 1943.
H-O Cereal Company, Inc., The, Buffalo, to The Best Foods, Inc., New York, N. Y. Flour. 170,697; renewed July 24, 1943.
H-O Cereal Company, Inc., The, Buffalo, to The Best Foods, Inc., New York, N. Y. Poultry feeds. 170,855; renewed July 24, 1943.
H-O (Hornby's Oatmeal) Company, The, assignor to The Best Foods, Inc., New York, N. Y. Oatmeal and similar oat foods. 23,770; re-renewed Oct. 31, 1943.
Haeger Potteries, Incorporated, The, Dundee, Ill. Vases, bowls, flower-pots, etc. 402,031; June 22. Class 30.
Harrisburg Colliery Company, assignor, by mesne assignments, to Peabody Coal Company, Chicago, Ill. Coal. 175,459; renewed Nov. 6, 1943.
Hartford Rayon Corporation, The, Rocky Hill, Conn. Rayon yarn. 401,983; June 22; Serial No. 457,338; published Feb. 23, 1943. Class 43.
Hartmann Trunk Company, Racine, Wis. Suitcases, luggage-carrying cases, and wardrobe suitcases. 402,008; June 22; Serial No. 458,115; published Apr. 13, 1943. Class 3.
Haslin Mills. (See Meyer, Emile.)
Hatch Full Fashioned Hosiery Co., Belmont, N. C. Hosiery. 402,013; June 22; Serial No. 458,191; published Mar. 30, 1943. Class 39.
Holbrook, W. H., Company, Boston, Mass., assignor, by mesne assignments, to Myron B. Levy Co. Inc., New York, N. Y. All-wool textile piece goods. 173,689; renewed Oct. 2, 1943.
Hood, H. P., & Sons, Inc., Boston, Mass. Confection. 174,338; renewed Oct. 16, 1943.
Horrocks-Ibbotson Co., Utica, N. Y. Fishing rods and poles, fishing tackle and accessories. 174,991; renewed Oct. 30, 1943.
Horsfall, John C., & Sons Limited, Glusburn, near Keighley, England. Knitting wools. 401,968; June 22; Serial No. 455,019; published Mar. 30, 1943. Class 43.
Hos-O-Mat. (See Stone, Samuel O., Jr.)
Huffman, Velma C. (See Huffman, William G.)
Huffman, William G., Jr., to Velma C. Huffman, Greenville, Tex., successor. Laxative. 175,497; renewed Nov. 6, 1943.
Hughes-Autograf Brush Co., Inc. (See Hughes, Henry L., Co. Inc.)
Hughes, Henry L., Co. Inc., to Hughes-Autograf Brush Co., Inc., New York, N. Y. Nail polish. 170,755; renewed July 24, 1943.
Hydraulic-Press Brick Company, Indianapolis, Ind. Ceramic glazed brick and tile structural building units. 401,961; June 22; Serial No. 451,412; published Apr. 13, 1943. Class 12.
Ideal Coated Paper Company, assignor to McLaurin-Jones Co., assignor to McLaurin-Jones Co., Brookfield, Mass. Gummed paper. 175,442; renewed Nov. 6, 1943.
Iliff, William H., Los Angeles, Calif. Peanuts and nut meats. 401,984; June 22; Serial No. 457,364; published Apr. 13, 1943. Class 46.
Industrial Tape Corporation, New Brunswick, N. J. Pressure sensitive adhesive tapes. 402,003; June 22; Serial No. 458,040; published Apr. 13, 1943. Class 5.
International Milling Company, Minneapolis, Minn. Wheat flour. 402,028; June 22; Serial No. 458,733; published Apr. 13, 1943. Class 46.
Jensen, Cecil L., Glen Ellyn, Ill. Games played with cards and equipment. 402,019; June 22; Serial No. 458,475; published Apr. 13, 1943. Class 22.
Jergens, Andrew, Company of California, Burbank, Calif., assignor to The Andrew Jergens Company, Cincinnati, Ohio. Toilet soap. 167,683; renewed May 8, 1943.
Karp, Joseph H., doing business as Bleacho Golden Hair Rinse Co., New York, N. Y. Toilet and medicinal preparations. 167,853; renewed May 8, 1943.
Karp, Joseph H., doing business as Bleacho Golden Hair Rinse Co., New York, N. Y. Chemicals and bleaches and other chemical preparations. 167,878; renewed May 8, 1943.
Kendall Company, The, Walpole, Mass. Interlinings and stiffener fabrics. 401,971; June 22; Serial No. 456,077; published Apr. 13, 1943. Class 42.
Kings County Packing Co., Armona, to Kings County Packing Company, Ltd., San Francisco, Calif., successor. Canned fruits. 168,480; renewed May 22, 1943.
Kings County Packing Co., Armona, to Kings County Packing Company, Ltd., San Francisco, Calif., successor. Canned fruits and vegetables. 168,598; renewed May 29, 1943.
Kings County Packing Company, Armona, to Kings County Packing Company, Ltd., San Francisco, Calif., successor. Canned fruits and vegetables. 169,207; renewed June 12, 1943.
Kings County Packing Co., Armona, to Kings County Packing Company, Ltd., San Francisco, Calif., successor. Canned fruits. 169,305; renewed June 12, 1943.
Kings County Packing Co., Armona, to Kings County Packing Company, Ltd., San Francisco, Calif., successor. Canned fruits. 171,323; renewed Aug. 7, 1943.
Kings County Packing Co., Armona, to Kings County Packing Company, Ltd., San Francisco, Calif., successor. Canned fruits and vegetables. 171,839; renewed Aug. 14, 1943.

Kings County Packing Co., Armona, to Kings County Packing Company, Ltd., San Francisco, Calif., successor. Canned and preserved figs, canned fruits, and canned vegetables. 173,345; renewed Sept. 25, 1943.

Kings County Packing Co., Armona, to Kings County Packing Company, Ltd., San Francisco, Calif., successor. Canned fruits. 174,748; renewed Oct. 23, 1943.

Klein, L., Inc., Chicago, Ill. Men's and boys' suits, overcoats, and hats. 174,987; renewed Oct. 30, 1943.

Laird Manufacturing Co., Inc., The, Richmond, Va., by change of name to Rich Maid Manufacturing Company, Inc. Coffee. 171,177; renewed July 31, 1943.

Lasher, Philip H., doing business as Western Movie Supply Co., San Francisco, Calif. Post cards containing pictures. 401,974; June 22; Serial No. 456,289; published Apr. 13, 1943. Class 38.

Lau, H. P., Co., Lincoln, Nebr. Coffee, rice, and evaporated milk. 170,667; renewed July 17, 1943.

Leach, C. H., Company, Boston, Mass., assignor to C. H. Leach Company, Englewood, N. J. Oil condensers, heat exchangers, and dephlegmators. 175,078; renewed Oct. 30, 1943.

Levy, Myron B., Co., Inc. (See Holbrook, W. H., Company.)

Leon-Ferenbach Incorporated. (See Leon-Ferenbach Silk Company, Inc., The.)

Leon-Ferenbach Silk Company, Inc., The, now by change of name Leon-Ferenbach Incorporated, New York, N. Y., Wilkes-Barre, Pa., and Johnson City, Tenn. Rayon yarn. 402,040; June 22. Class 43.

Loew's Incorporated. (See Metro Pictures Corporation, assignor.)

Lowe, Joe, Corporation. (See Coverdale & Bruebaker, assignor.)

Ludlow Manufacturing & Sales Co., Boston, Mass. Twine. 401,999; June 22; Serial No. 457,917; published Apr. 13, 1943. Class 12.

Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. 402,024; June 22; Serial No. 458,659; published Apr. 13, 1943. Class 46.

Meinecke & Co. Inc., New York, N. Y. Liquid cleansing composition for surgical instruments. 402,007; June 22; Serial No. 458,078; published Apr. 13, 1943. Class 4.

Metro Pictures Corporation, New York, N. Y., assignor to Loew's Incorporated, Dover, Del. Motion picture films. 171,816; renewed Aug. 14, 1943.

Meyer, Emile, doing business as Haslin Mills, New York, N. Y. Water repellent fabrics. 401,991; June 22; Serial No. 457,629; published Mar. 30, 1943. Class 42.

McLaurin-Jones Co. (See Ideal Coated Paper Company, assignor.)

Mount Carbon Brewery, Pottsville, Pa. Beer. 402,034; June 22. Class 48.

Mount Carbon Brewery, Pottsville, Pa. Beer. 402,041; June 22. Class 48.

Mullins Manufacturing Corporation, Salem, Ohio. Wringer rolls. 401,956–7; June 22; Serial Nos. 440,207–8; published Apr. 13, 1943. Class 24.

Mutascio, Joseph, doing business as Prosperity California Wines, New York, N. Y. Wines. 402,009; June 22; Serial No. 458,118; published Apr. 13, 1943. Class 47.

National Canners Association, Wilmington, Del., and Washington, D. C. Canned vegetables. 401,975; June 22; Serial No. 456,427; published Apr. 13, 1943. Class 46.

National Unit Distributors, Inc., Boston, Mass. Tableware, semi-vitreous china. 401,992; June 22; Serial No. 457,634; published Apr. 13, 1943. Class 30.

New Jersey Zinc Company, The, Newark and Franklin, N. J., to The New Jersey Zinc Company, New York, N. Y. Zinc oxide. 174,809; renewed Oct. 23, 1943.

New Wrinkle, Inc., Dayton, Ohio. Paints, enamels, varnishes. 401,989; June 22; Serial No. 457,591; published Apr. 13, 1943. Class 16.

New Wrinkle, Inc., Dayton, Ohio. Paints, enamels and varnishes, and paint oils. 401,997; June 22; Serial No. 457,837; published Apr. 13, 1943. Class 16.

North American Cement Corporation. (See Security Cement & Lime Co., assignor.)

Norton Pike Company. (See Pike Manufacturing Company, assignor.)

Oliver Farm Equipment Company. (See American Seeding Machine Company, assignor.)

Pacific Mills, Boston, Mass. Cotton piece goods. 401,972; June 22; Serial No. 456,221; published Apr. 6, 1943. Class 42.

Pacific Mills, Boston, Mass. Mixed cotton and rayon piece goods. 401,973; June 22; Serial No. 456,222; published Apr. 6, 1943. Class 42.

Pastene Wine & Spirits Co., Inc., Boston, Mass. Wines. 401,969; June 22; Serial No. 455,458; published Apr. 6, 1943. Class 47.

Peabody Coal Company. (See Harrisburg Colliery Company, assignor.)

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Lye. 173,905–7; renewed Oct. 2, 1943.

Permanente Metals Corporation, The, Oakland, Calif. Magnesium and magnesium alloys. 402,036; June 22. Class 14.

Peters, M. C., Mill Co., Omaha, Nebr., to Allied Mills, Inc., Chicago, Ill., successor. Stock and poultry feed. 167,278; renewed Apr. 24, 1943.

Phillips, Ed., & Sons Company, Minneapolis, Minn. Brandy blend. 402,038; June 22. Class 49.

Phillips, Ed., & Sons Company, Minneapolis, Minn. Liqueur. 402,039; June 22. Class 49.

Pike Manufacturing Company, Pike and Littleton, N. H., Evansville, Vt., New York, N. Y., Orleans, Ind., and Hot Springs, Ark., assignor, by mesne assignments, to Norton Pike Company, Littleton, N. H. Sharpening stones, grinding disks and wheels, etc. 170,680; renewed July 17, 1943.

Pike Manufacturing Company, Pike and Littleton, N. H., Evansville, Vt., New York, N. Y., Orleans, Ind., and Hot Springs, Ark., assignor, by mesne assignments, to Norton Pike Company, Littleton, N. H. Sharpening stones, grinding disks and wheels, etc. 171,350; renewed Aug. 7, 1943.

Prosperity California Wines. (See Mutascio, Joseph.)

Reardon Company, The, St. Louis, Mo. Calcimine. 168,802; renewed May 29, 1943.

Rich Maid Manufacturing Company, Inc. (See Laird Manufacturing Co. Inc., The.)

Rover Company, Limited, Coventry, to The Rover Company Limited, Chesford Grange, near Kenilworth, England. Motor cars, bicycles, tricycles, etc. 172,992; renewed Sept. 11, 1943.

Sawdey and Hunt, Los Angeles, assignors, by mesne assignments, to Curtis I. Sawdey, doing business as Sawdey Farms Company, Los Angeles and El Centro, Calif. Fresh cantaloupes. 167,698; renewed May 8, 1943.

Sawdey, Curtis I. (See Sawdey and Hunt, assignor.)

Sea Board Supply Co., Inc., Philadelphia, Pa. Feed concentrate for ducks. 401,964; June 22; Serial No. 454,205; published Apr. 13, 1943. Class 46.

Sea Board Supply Co., Inc., Philadelphia, Pa. Feed concentrates for animals, particularly hogs. 401,965; June 22; Serial No. 454,206; published Apr. 13, 1943. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Men's and boys' slack suits. 402,017; June 22; Serial No. 458,411; published Apr. 13, 1943. Class 39.

Sea Wave Wedding & Engagement Ring, Inc., New York, N. Y. Wedding and engagement rings, clips, bracelets, etc. 401,993; June 22; Serial No. 457,643; published Apr. 13, 1943. Class 28.

Security Cement & Lime Co., Hagerstown, Md., assignor to North American Cement Corporation, New York, N. Y. Ground lime and hydrated lime. 174,447; renewed Oct. 16, 1943.

Singer Manufacturing Company, The. (See Standard Sewing Machine Company, assignor.)

Smartcraft, New York, N. Y. Women's and children's dresses. 401,967; June 22; Serial No. 455,010; published Apr. 6, 1943. Class 39.

Smith, John A., Ponca City, Okla. Stationery. 402,042; June 22. Class 37.

Socony-Vacuum Oil Company, Incorporated. (See Standard Oil Company of New York.)

Spark-O-Life Company, Kansas City, Kans. Fresh natural granular wheat embryo. 402,015; June 22; Serial No. 458,345; published Apr. 13, 1943. Class 46.

Spinnerin Yarn Co., Inc., New York, N. Y. Yarn. 401,985; June 22; Serial No. 457,532; published Feb. 23, 1943. Class 43.

Sport Products, Inc. (See Draper-Maynard Company, The, assignor.)

Stafford, George Albert, doing business as G. A. Stafford & Company, assignor to G. A. Stafford & Company, Inc., New York, N. Y. Woven cotton fabrics in the piece. 174,985; renewed Oct. 30, 1943.

Standard Oil Company of New York, New York, N. Y., by change of name to Socony-Vacuum Oil Company, Incorporated. Petroleum and products of petroleum. 171,553; renewed Aug. 7, 1943.

Standard Oil Company of New York, New York, N. Y., by change of name to Socony-Vacuum Oil Company, Incorporated. Petroleum and products of petroleum. 171,556; renewed Aug. 7, 1943.

Standard Sewing Machine Company, The, Cleveland, Ohio, assignor, by mesne assignments, to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machines. 23,160; re-renewed May 30, 1943.

Star-Peerless Wall Paper Mills, Joliet, to Star-Peerless Wall Paper Mills, Chicago, Ill. Paints, varnishes, stains, etc. 175,507; renewed Nov. 6, 1943.

Stavisky Lining Co., New York, N. Y. Cut-out interlinings and interfacings. 402,045; June 22. Class 39.

Stone, Samuel O., Jr., doing business as Hos-O-Mat, Concord, N. C. Ladies' and men's hosiery. 402,004; June 22; Serial No. 458,050; published Mar. 23, 1943. Class 39.

Street, R. R., & Co. Inc., Chicago, Ill. Dry cleaning detergent. 402,012; June 22; Serial No. 458,162; published Apr. 13, 1943. Class 4.

Supreme Sportswear Co., St. Louis, Mo. Women's, misses' and girls' wearing apparel. 402,018; June 22; Serial No. 458,416; published Apr. 6, 1943. Class 39.

Tenenbaum, Icek M., doing business as Tenens Watch Co., Great Neck, N. Y. Watches. 402,005; June 22; Serial No. 458,051; published Apr. 13, 1943. Class 27.

Tenens Watch Co. (See Tenenbaum, Icek M.)

Theta Sigma Phi, Chicago, Ill. Magazine. 402,022; June 22; Serial No. 458,560; published Apr. 13, 1943. Class 38.

Thew Shovel Company, The, Lorain, Ohio. Power cranes, shovels, and dragline machines. 402,044; June 22. Class 23.

Townley Frocks, Inc., New York, N. Y. Ladies' and misses' dresses, coats, dress and jacket ensembles, etc. 402,020–1; June 22; Serial Nos. 458,555–6; published Apr. 13, 1943. Class 39.

Tribune Company, Chicago, Ill. Newspaper and newspaper supplements. 173,669; renewed Oct. 2, 1943.

Tribune Company, Chicago, Ill. Heading for a newspaper column. 174,759; renewed Oct. 23, 1943.

Turco Products, Inc., Los Angeles, Calif. Wax polish. 402,001; June 22; Serial No. 458,002; published Apr. 13, 1943. Class 16.

Union Celery Company, Kansas City, Mo., assignor to J. J. De Maria, Merriam, Kans. Fresh tomatoes. 168,702; renewed May 29, 1943.

United Chemical Companies, assignor to United Chemical Company, Inc., Kansas City, Mo. Cleanser, disinfectant and deodorizer; 172,798; renewed Sept. 11, 1943.

United States Gypsum Company, Chicago, Ill. Calcined gypsum, stucco and wall plasters. 172,143; renewed Aug. 21, 1943.

United States Gypsum Company, Chicago, Ill. Plaster board and plaster wall board. 172,145; renewed Aug. 21, 1943.

United States Gypsum Company, Chicago, Ill. Calcined gypsum wall plasters. 172,927; renewed Sept. 11, 1943.

United Wall Paper Factories, Inc., Chicago, Ill. Wall paper. 401,994; June 22; Serial No. 457,798; published Apr. 13, 1943. Class 37.

Valley Growers Exchange. (See Gianandrea, N.)

Viking Chemical Corporation, New York, N. Y. Synthetic rubber compound. 401,979; June 22; Serial No. 457,194; published Apr. 13, 1943. Class 1.

Volpit Chewing Candy Co., Inc., Long Island City, N. Y. Candy. 402,016; June 22; Serial No. 458,378; published Apr. 13, 1943. Class 46.

Vulcan Proofing Company, Brooklyn, N. Y. Offset blankets, rubber sheetings, sheet rubber, etc. 175,090; renewed Oct. 30, 1943.

Wallstein Industrial Corp., New York, N. Y. Elastic knitted goods. 175,664; renewed Nov. 6, 1943.

Wanamaker, John, New York, New York, N. Y. Men's leather gloves. 170,439; renewed July 17, 1943.

Warner & Stewart, Yuma, Ariz. Fresh vegetables and melons. 402,047; June 22. Class 46.

Welmaid Products, Chicago, Ill. Combination folding fabric clothes baskets and clothes-pin holders. 401,977; June 22; Serial No. 456,643; published Apr. 13, 1943. Class 2.

Wescott, Slade and Balcom Company, Providence, R. I. Boat paint. 174,403; renewed Oct. 16, 1943.

Western Movie Supply Co. (See Lasher, Philip H.)

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric fans. 401,959; June 22; Serial No. 450,889; published May 12, 1942. Class 21.

Whitin, Paul, Manufacturing Company, The, Northbridge, Mass. Fabrics in the piece. 401,980–2; June 22; Serial Nos. 457,259–61; published Apr. 13, 1943. Class 42.

Wickes, Wm. Wirt, & Son, assignor to W. Wirt Wickes & Son, New York, N. Y. Molasses. 175,110; renewed Oct. 30, 1943.

Wilkening, Walter H., doing business as Gemetal Company, Cincinnati, Ohio. Silver polish and jewelery cleaner. 402,035; June 22. Class 4.

Wilson & Glenny Ltd., Hawick, Scotland. Cloths and stuffs, vestings, etc. 167,485; renewed May 1, 1943.

Wish, Fred A., Incorporated, New York, N. Y., assignor to Howard R. Garis, East Orange, N. J. Envelopes, writing paper, pads, etc. 174,229; renewed Oct. 9, 1943.

Wish, Fred A., Incorporated, New York, N. Y., assignor to Howard R. Garis, East Orange, N. J. Metal and paper fancy containers and boxes. 174,230; renewed Oct. 9, 1943.

Wish, Fred A., Incorporated, New York, N. Y., assignor to Howard R. Garis, East Orange, N. J. Hosiery, sleeping garments, bibs, etc. 174,583; renewed Oct. 23, 1943.

Wish, Fred A., Incorporated, New York, N. Y., assignor to Howard R. Garis, East Orange, N. J. Bath soap. 174,806; renewed Oct. 23, 1943.

Wolf Creek Soap Works Company, The, Dayton, Ohio. Soaps. 170,666; renewed July 17, 1943.

Wolfe, Abraham, doing business as Wolfe's Shoe Store, Plattsburg, N. Y. Corn salve. 175,502; renewed Nov. 6, 1943.

Worumbo Manufacturing Company, Bath, to Worumbo Manufacturing Company, Lisbon Falls, Maine. Woolen goods in the piece. 173,732; renewed Oct. 2, 1943.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Harrisburg Colliery Company. 175,459; renewed Nov. 6, 1943.

Laminated phenolic condensation product. Diamond State Fibre Company. 175,089; renewed Oct. 30, 1943.

Rubber compound, Synthetic. Viking Chemical Corporation. 401,979; June 22; Serial No. 457,194; published Apr. 13, 1943.

CLASS 2

Baskets and clothes-pin holders, Combination folding fabric clothes. Welmaid Products. 401,977; June 22; Serial No. 456,643; published Apr. 13, 1943.

Chests, Ammunition. City Auto Stamping Company. 401,990; June 22; Serial No. 457,624; published Apr. 13, 1943.

Containers and boxes. Fred A. Wish, Incorporated. 174,230; renewed Oct. 9, 1943.

CLASS 3

Suitcases, luggage-carrying cases, and wardrobe suitcases. Hartmann Trunk Company. 402,008; June 22; Serial No. 458,115; published Apr. 13, 1943.

CLASS 4

Chemically treated cleaning cloths, etc. L. P. Galbraith. 168,048; renewed May 18, 1943.

Sharpening stones, grinding disks and wheels, etc. Pike Manufacturing Company. 170,680; renewed July 17, 1943.

Sharpening stones, grinding disks and wheels, etc. Pike Manufacturing Company. 171,350; renewed Aug. 7, 1943.

Cleaning and washing compounds, silicated alkalis, dry cleaners, etc., all of which are for general laundry use. Diamond Alkali Company. 401,970; June 22; Serial No. 455,562; published Apr. 13, 1943.

Cleansing composition for surgical instruments, Liquid. Meinecke & Co. Inc. 402,007; June 22; Serial No. 458,078; published Apr. 13, 1943.

Detergents used in processing of textiles. Arkansas Company, Inc. 402,025; June 22; Serial No. 458,674; published Apr. 13, 1943.

Dry cleaning detergent. R. R. Street & Co. Inc. 402,012; June 22; Serial No. 458,162; published Apr. 13, 1943.

Polish and jewelry cleaner, Silver. W. H. Wilkening. 402,035; June 22.

Soap, Bath. F. A. Wish, Incorporated. 174,806; renewed Oct. 23, 1943.

Soap, Scouring. Bon Ami Company. 175,072; renewed Oct. 30, 1943.

Soap, Toilet. Andrew Jergens Company of California. 167,683; renewed May 8, 1943.

Soaps. Wolf Creek Soap Works Company. 170,666; renewed July 17, 1943.

CLASS 5

Adhesive tapes, Pressure sensitive. Industrial Tape Corporation. 402,003; June 22; Serial No. 458,040; published Apr. 13, 1943.

CLASS 6

Anti-hog-cholera serums, hog-cholera virus, certain bacterias, etc. Globe Laboratories. 172,680; renewed Sept. 11, 1943.

Chemicals and bleaches and other chemical preparations. J. H. Karp. 167,878; renewed May 8, 1943.

Cleanser, disinfectant and deodorizer. United Chemical Companies. 172,798; renewed Sept. 11, 1943.

Flux, Soldering. F. Chapman. 169,661; renewed June 26, 1943.

Laxative. W. G. Huffman, Jr. 175,497; renewed Nov. 6, 1943.

Lye. The Pennsylvania Salt Manufacturing Company. 173,905–7; renewed Oct. 2, 1943.

Oxide, Zinc. New Jersey Zinc Company. 174,809; renewed Oct. 23, 1943.

Polish, Nail. Henry L. Hughes Co. Inc. 170,755; renewed July 24, 1943.

Preparation of hypophosphites. Fellows Medical Manufacturing Company, Inc. 175,495; renewed Nov. 6, 1943.

Salve, Corn. A. Wolfe. 175,502; renewed Nov. 6, 1943.

Toilet and medicinal preparations. J. H. Karp. 167,853; renewed May 8, 1943.

CLASS 8

Pipes, Tobacco. Delacour Bros. Ltd. 170,624; renewed July 17, 1943.

CLASS 12

Brick and tile structural building units, Ceramic glazed. Hydraulic-Press Brick Company. 401,961; June 22; Serial No. 451,412; published Apr. 13, 1943.

Gypsum, stucco and wall plasters. Calcined. United States Gypsum Company. 172,143; renewed Aug. 21, 1943.
Gypsum wall plasters, Calcined. United States Gypsum Company. 172,927; renewed Sept. 11, 1943.
Lime. Security Cement & Lime Co. 174,447; renewed Oct. 16, 1943.
Plaster board and plaster wall board. United States Gypsum Company. 172,145; renewed Aug. 21, 1943.
Sheet roofing material. Certain-Teed Products Corporation. 401,960; June 22; Serial No. 451,030; published Apr. 13, 1943.
Twine. Ludlow Manufacturing & Sales Co. 401,999; June 22; Serial No. 457,917; published Apr. 13, 1943.
Wood products treated with wood preservatives. Celcure Wood Preserving Corporation. 401,958; June 22; Serial No. 443,221; published Apr. 13, 1943.

CLASS 13

Metal tubing, plain and formed. Calumet and Hecla Consolidated Copper Company. 401,966; June 22; Serial No. 454,327; published Nov. 17, 1942.
Metal valves. Detroit Lubricator Company. 174,509; renewed Oct. 16, 1943.
Table hollow ware. American Art Alloys, Inc. 402,010–11; June 22; Serial Nos. 458,137–8; published Apr. 13, 1943.

CLASS 14

Magnesium and magnesium alloys. Permanente Metals Corporation. 402,036; June 22.

CLASS 15

Petroleum and products of petroleum. Standard Oil Company of New York. 171,553; renewed Aug. 7, 1943.
Petroleum and products of petroleum. Standard Oil Company of New York. 171,556; renewed Aug. 7, 1943.

CLASS 16

Calcimine. Reardon Company. 168,802; renewed May 29, 1943.
Paint. Wescott, Slade and Balcom Company. 174,403; renewed Oct. 16, 1943.
Paints, enamels, varnishes. New Wrinkle, Inc. 401,989; June 22; Serial No. 457,591; published Apr. 13, 1943.
Paints, enamels, and varnishes, and paint oils. New Wrinkle, Inc. 401,997; June 22; Serial No. 457,837; published Apr. 13, 1943.
Paints, varnishes, stains, etc. Star-Peerless Wall Paper Mills. 175,507; renewed Nov. 6, 1943.
Paints in ready-mixed form. Aridye Corporation. 402,032–3; June 22.
Polish. Sheldon Booth & Co. 168,736; renewed May 29, 1943.
Wax polish. Turco Products, Inc. 402,001; June 22; Serial No. 458,002; published Apr. 13, 1943.

CLASS 17

Cigars and cigarettes. C. C. Franklin. 401,963; June 22; Serial No. 453,194; published Apr. 13, 1943.

CLASS 19

Motor cars, bicycles, tricycles, etc. Rover Company, Limited. 172,992; renewed Sept. 11, 1943.

CLASS 21

Electrically driven suction fan with housing and ducts therefor. Aget Manufacturing Co. 401,976; June 22; Serial No. 456,634; published Apr. 13, 1943.
Fans, Electric. Westinghouse Electric & Manufacturing Company. 401,959; June 22; Serial No. 450,889; published May 12, 1942.

CLASS 22

Dolls, dog and cat toys, and games, etc. R. M. Campbell. 401,988; June 22; Serial No. 457,585; published Apr. 13, 1943.
Fishing rods and poles, fishing tackle, and accessories. Horrocks-Ibbotson Co. 174,991; renewed Oct. 30, 1943.
Games played with cards and equipment. C. L. Jensen. 402,019; June 22; Serial No. 458,475; published Apr. 13, 1943.

CLASS 23

Carburetors, thermostatic controls for internal-combustion engines, cooling systems for hydrocarbon engines, etc. Beneke & Kropf Manufacturing Company. 161,406; renewed Nov. 14, 1942.
Cranes, shovels, and dragline machines, Power. Thew Shovel Company. 402,044; June 22.
Locomotive and stationary lubricators, and oil cups. Detroit Lubricator Company. 173,041; renewed Sept. 11, 1943.
Oil condensers, heat exchangers, and dephlegmators. C. H. Leach Company. 175,078; renewed Oct. 30, 1943.
Seeding implements. American Seeding Machine Company. 175,035; renewed Oct. 30, 1943.
Sewing machines. Standard Sewing Machine Company. 23,160; re-renewed May 30, 1943.

CLASS 24

Wringer rolls. Mullins Manufacturing Corporation. 401,956–7; June 22; Serial Nos. 440,207–8; published Apr. 13, 1943.

CLASS 26

Films, Motion picture. Metro Pictures Corporation. 171,816; renewed Aug. 14, 1943.

CLASS 27

Watches. I. M. Tenenbaum. 402,005; June 22; Serial No. 458,051; published Apr. 13, 1943.

CLASS 28

Wedding and engagement rings, clips, bracelets, etc. Sea Wave Wedding & Engagement Ring, Inc. 401,993; June 22; Serial No. 457,643; published Apr. 13, 1943.

CLASS 30

Tableware, Semi-vitreous china. National Unit Distributors, Inc. 401,992; June 22; Serial No. 457,634; published Apr. 13, 1943.
Vases, bowls, flower-pots, etc. Haeger potteries, Incorporated. 402,031; June 22.

CLASS 34

Heaters, Portable oil-burning for domestic and industrial cooking purposes. Fingles Company. 401,955; June 22; Serial No. 438,474; published Apr. 13, 1943.

CLASS 35

Packing, Mechanical. A. W. Chesterton Company. 401,978; June 22; Serial No. 456,884; published Apr. 13, 1943.

CLASS 37

Envelopes, writing paper, pads, etc. Fred A. Wish, Incorporated. 174,229; renewed Oct. 9, 1943.
Forms, Record blank. American Sales Book Company. 402,037; June 22.
Paper, Gummed. Ideal Coated Paper Company. 175,442; renewed Nov. 6, 1943.
Paper, Wall. United Wall Paper Factories, Inc. 401,994; June 22; Serial No. 457,798; published Apr. 13, 1943.
Stationery. J. A. Smith. 402,042; June 22.

CLASS 38

Cards containing pictures, Post. P. H. Lasher. 401,974; June 22; Serial No. 456,289; published Apr. 13, 1943.
Heading for a newspaper column. Tribune Company. 174,759; renewed Oct. 23, 1943.
Magazine. Theta Sigma Phi. 402,022; June 22; Serial No. 458,560; published Apr. 13, 1943.
Newspaper and newspaper supplements. Tribune Company. 173,669; renewed Oct. 2, 1943.
Periodical, Weekly. Broadcasting Publications, Inc. 402,029–30; June 22.
Publication. Annual Reviews, Inc. 402,043; June 22.

CLASS 39

Coats, suits and coat and suit ensembles, Misses' and junior misses'. Fashion Towne, Inc. 402,014; June 22; Serial No. 458,237; published Apr. 13, 1943.
Creepers, sweaters, two-piece romper suits, etc., Infants' and children's. Alpha Mills. 401,995; June 22; Serial No. 457,801; published Mar. 30, 1943.
Dresses, coats, dress and jacket ensembles, etc., Ladies' and misses'. Townley Frocks, Inc. 402,020–1; June 22; Serial Nos. 458,555–6; published Apr. 13, 1943.
Dresses, Women's and children's. Smartcraft. 401,967; June 22; Serial No. 455,010; published Apr. 6, 1943.
Gloves, Men's leather. J. Wanamaker New York. 170,439; renewed July 17, 1943.
Handkerchiefs. Druggists' Supply Corporation. 175,172; renewed Oct. 30, 1943.
Hosiery. Hatch Full Fashioned Hosiery Co. 402,013; June 22; Serial No. 458,191; published Mar. 30, 1943.
Hosiery, Ladies' and men's. S. O. Stone Jr. 402,004; June 22; Serial No. 458,050; published Mar. 23, 1943.
Hosiery, sleeping garments, bibs, etc. F. A. Wish, Incorporated. 174,583; renewed Oct. 23, 1943.
Interlinings and interfacings, Cut-out. Stavisky Lining Co. 402,045; June 22.
Jackets for men, women, and children. C. A. Block. 401,986; June 22; Serial No. 457,537; published Mar. 30, 1943.
Overalls, outer shirts, blouses, etc., Ladies' and girls'. Louis Geiger, Inc. 401,996; June 22; Serial No. 457,828; published Apr. 6, 1943.
Shirts, jerseys, and sweaters, Athletic. Draper-Maynard Company. 175,070; renewed Oct. 30, 1943.
Suits, jackets, skirts, etc., Ladies' and misses'. Davidow, Inc. 402,006; June 22; Serial No. 458,063; published Mar. 23, 1943.
Suits, Men's and boys' slack. Sears, Roebuck & Co. 402,017; June 22; Serial No. 458,411; published Apr. 13, 1943.
Suits, overcoats, and hats, Men's and boys'. L. Klein, Inc. 174,987; renewed Oct. 30, 1943.
Sweaters and hosiery. Samuel A. Goldberg. 401,998; June 22; Serial No. 457,853; published Mar. 23, 1943.

Sweaters, two-piece romper suits, pants, and creepers, Children's. Alpha Mills. 401,987; June 22; Serial No. 457,560; published Mar. 23, 1943.
Wearing apparel, Women's, misses', and girls'. Supreme Sportswear Co. 402,018; June 22; Serial No. 458,416; published Apr. 6, 1943.

CLASS 42

Cloths and stuffs, vestings, etc. Wilson & Glenny Ltd. 167,485; renewed May 1, 1943.
Cotton fabrics in the piece. G. A. Stafford. 174,985; renewed Oct. 30, 1943.
Elastic knitted goods. Wallstein Industrial Corp. 175,664; renewed Nov. 6, 1943.
Fabrics, Interlinings and stiffener. Kendall Company. 401,971; June 22; Serial No. 456,077; published Apr. 13, 1943.
Fabrics in the piece. Paul Whitin Manufacturing Company. 401,980–2; June 22; Serial Nos. 457,259–61; published Apr. 13, 1943.
Fabrics, Water repellent. E. Meyer. 401,991; June 22; Serial No. 457,629; published Mar. 30, 1943.
Ironing board pads and covers, and washable mattress covers. Al-Lon Manufacturing Company, Inc. 175,129; renewed Oct. 30, 1943.
Piece goods, Cotton. Pacific Mills. 401,972; June 22; Serial No. 456,221; published Apr. 6, 1943.
Piece goods, Cotton. Cohn-Hall-Marx Co. 174,202; renewed Oct. 9, 1943.
Piece goods, Mixed cotton and rayon. Pacific Mills. 401,973; June 22; Serial No. 456,222; published Apr. 6, 1943.
Piece goods, Textile. W. H. Holbrook Company. 173,689; renewed Oct. 2, 1943.
Piece goods, Woolen. Worumbo Manufacturing Company. 173,732; renewed Oct. 2, 1943.
Sheets and pillowcases. Cannon Mills Company. 402,048–9; June 22.

CLASS 43

Silk, Sewing. H. K. H. Silk Co. 175,168; renewed Oct. 30, 1943.
Wools, Knitting. John C. Horsfall & Sons Limited. 401,968; June 22; Serial No. 455,019; published Mar. 30, 1943.
Yarn. Spinnerin Yarn Co. 401,985; June 22; Serial No. 457,532; published Feb. 23, 1943.
Yarn, Hand knitting. Central Yarn Company. 402,000; June 22; Serial No. 457,947; published Apr. 6, 1943.
Yarn, Rayon. Hartford Rayon Corporation. 401,983; June 22; Serial No. 457,338; published Feb. 23, 1943.
Yarn, Rayon. Leon-Ferenbach Silk Company. 402,040; June 22.
Yarns. Badger Worsted Mills. 402,026; June 22; Serial No. 458,717; published Apr. 13, 1943.

CLASS 46

Beef cuts. County Fair Packing Corp. 401,962; June 22; Serial No. 451,741; published Apr. 13, 1943.
Candies and chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. 402,024; June 22; Serial No. 458,659; published Apr. 13, 1943.
Candy. Volpit Chewing Candy Co. 402,016; June 22; Serial No. 458,378; published Apr. 13, 1943.
Canned and preserved figs, canned fruits, and canned vegetables. Kings County Packing Co. 173,345; renewed Sept. 25, 1943.
Canned fish. Bell Smoked Fish Co. 402,023; June 22; Serial No. 458,622; published Apr. 13, 1943.
Canned fruits. Kings County Packing Co. 168,480; renewed May 22, 1943.
Canned fruits. Kings County Packing Co. 169,305; renewed June 12, 1943.
Canned fruits. Kings County Packing Co. 171,323; renewed Aug. 7, 1943.
Canned fruits. Kings County Packing Co. 174,748; renewed Oct. 23, 1943.
Canned fruits and vegetables. Kings County Packing Co. 168,598; renewed May 29, 1943.
Canned fruits and vegetables. Kings County Packing Company. 169,207; renewed June 12, 1943.
Canned fruits and vegetables. Kings County Packing Co. 171,839; renewed Aug. 14, 1943.
Canned salmon. Chinook Packing Company. 171,357; renewed Aug. 7, 1943.
Canned salmon. Chinook Packing Company. 173,844; renewed Oct. 2, 1943.
Canned vegetables. National Canners Association. 401,975; June 22; Serial No. 456,427; published Apr. 13, 1943.
Cantaloupes, Fresh. Sawdey and Hunt. 167,698; renewed May 8, 1943.
Cheese, Grated. D. Colonna & Son. 167,473; renewed May 1, 1943.
Coffee. The Laird Manufacturing Co. 171,177; renewed July 31, 1943.
Coffee, Imitation. J. Adler. 402,002; June 22; Serial No. 458,027; published Apr. 13, 1943.
Cofffee, rice and evaporated milk. H. P. Lau Co. 170,667; renewed July 17, 1943.
Confection. H. P. Hood & Sons, Inc. 174,338; renewed Oct. 16, 1943.
Feed concentrates for animals particularly hogs. Sea Board Supply Co. 401,965; June 22; Serial No. 454,206; published Apr. 13, 1943.
Feed concentrate for ducks. Sea Board Supply Co. 401,964; June 22; Serial No. 454,205; published Apr. 13, 1943.
Feed, Dairy. Albert Dickinson Company. 172,812; renewed Sept. 11, 1943.
Feed, Poultry. Albert Dickinson Company. 172,965; renewed Sept. 11, 1943.
Feed, Stock and poultry. M. C. Peters Mill Co. 167,278; renewed Apr. 24, 1943.
Feeds, Poultry. The H-O Cereal Company. 170,855; renewed July 24, 1943.
Flour. The H-O Cereal Company. 170,697; renewed July 24, 1943.
Flour, Wheat. International Milling Company. 402,028; June 22; Serial No. 458,733; published Apr. 13, 1943.
Molasses. Wm. W. Wickes & Son. 175,110; renewed Oct. 30, 1943.
Oat meal and similar oat foods. H-O (Hornby's Oatmeal) Company. 23,770; re-renewed Oct. 31, 1943.
Peanuts and nut meats. W. H. Iliff. 401,984; June 22; Serial No. 457,364; published Apr. 13, 1943.
Sherbet bars. Coverdale & Bruebaker. 171,328; renewed Aug. 7, 1943.
Tomatoes, Fresh. Union Celery Company. 168,702; renewed May 29, 1943.
Vegetables, Fresh. N. Gianandrea. 402,027; June 22; Serial No. 458,729; published Apr. 13, 1943.
Vegetables and melons, Fresh. Warner & Stewart. 402,047; June 22.
Wheat embryo, Fresh natural. Spark-O-Life Company. 402,015; June 22; Serial No. 458,345; published Apr. 13, 1943.

CLASS 47

Wines. Pastene Wine & Spirits Co. 401,969; June 22; Serial No. 455,458; published Apr. 6, 1943.
Wines. J. Mutascio. 402,009; June 22; Serial No. 458,118; published Apr. 13, 1943.

CLASS 48

Beer. Mount Carbon Brewery. 402,034; June 22.
Beer. Mount Carbon Brewery. 402,041; June 22.

CLASS 49

Brandy blend. E. Phillips & Sons Company. 402,038; June 22.
Liqueur. E. Phillips & Sons Company. 402,039; June 22.
Whiskey, Blended. College Inn Food Products Company. 402,046; June 22.

CLASS 50

Offset blankets, rubber sheetings, sheet rubber, etc. Vulcan Proofing Company. 175,090; renewed Oct. 30, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Anderson, Antone F. (See Johnson, D. O., and Anderson.)
Bible, Walter E., assignor to The Western Battery and Supply Company, Denver, Colo. Vacuum cleaner. Re. 22,336; June 22.
Johnson, Dwight O., Woodside, and A. F. Anderson, Bell, assignors to National Motor Bearing Co., Inc., Oakland, Calif. Fluid seal. Re. 22,337; June 22.
Mendelsohn, Samuel, Montclair, N. J. Photoflash synchronizer. Re. 22,338; June 22.
National Motor Bearing Co., Inc. (See Johnson, D. O., and Anderson, assignors.)
Western Battery and Supply Company, The. (See Bible, Walter E., assignor.)

LIST OF PLANT PATENTEES

Hoffman, Philip B., Marysville, Calif. Peach tree. 593; June 22.

LIST OF DESIGN PATENTEES

Ajello, Antonino, & Bros. (See Ajello, Ralph A., assignor.)
Ajello, Ralph A., Bronx, assignor to Antonino Ajello & Bros., New York, N. Y. Combined candle and music box. 135,847; June 22.
Block, J. & I. (See Block, Joseph, assignor.)
Block, Joseph, assignor to J. & I. Block, New York, N. Y. One cup drip coffee maker. 135,841; June 22.
Brown, Morton, New York, N. Y. Slip. 135,869; June 22.
Brunk, Harold J., Chicago, Ill., assignor to The C. F. Pease Company. Blueprint machine. 135,870; June 22.
Butt, Charles S., Jr. (See Kemmer, P. H., Butt, and Reichert.)
Carlucci, Vincent F., New York, N. Y. Overall or similar article. 135,860; June 22.
Cohn, Lewis W., Chicago, Ill. Latticework. 135,853; June 22.
Doner, Halbert C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Combination kitchen unit. 135,842; June 22.
Drueke, Joseph W., Grand Rapids, Mich. Puzzle. 135,848; June 22.
Eitel-McCullough, Inc. (See Eitel, W. W., and McCullough, assignors.)
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,854; June 22.
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,855; June 22.
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,856; June 22.
Ferrier, Alvin M., Lowell, Mass. Card holder. 135,871; June 22.
Galvin Manufacturing Corporation. (See Holthouse, Harry B., assignor.)
Gerli, Emanuel J., New York, N. Y. Wrap-around skirt. 135,872; June 22.
Gibson, James E., High Point, N. C. Toy. 135,849; June 22.
Gorham Manufacturing Company. (See Price, James R., assignor.)
Harvey, James W., Lakeville, Conn. Fish lure or similar article. 135,850; June 22.
Hayes, Edward, Wickliffe, Ohio. Nonskid tire. 135,851; June 22.
Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Portable heating unit. 135,862; June 22.
Jarman, Emerson W., Farmville, Va. Building. 135,861; June 22.
Kay, Murray, New York, N. Y. Slacks suit. 135,863; June 22.
Keene, Joseph F., New York, N. Y. Handbag. 135,857; June 22.
Kemmer, Paul H., Patterson Field, and C. S. Butt, Jr., and C. E. Reichert, Dayton, Ohio. Bombardment airplane. 135,852; June 22.
Libbey-Owens-Ford Glass Company. (See Doner, Halbert C., assignor.)
Mayo, Clarence M., Oklahoma City, Okla. Wrench or similar article. 135,845; June 22.
McCullough, Jack A. (See Eitel, W. W., and McCullough.)
McGee, Joseph W., New York, N. Y. Combined heel, elongated shank, and sole. 135,864; June 22.
O'Brien, Richard M., Arlington Heights, Ill. Grate. 135,858; June 22.
Pease, C. F., Company, The. (See Brunk, Harold J., assignor.)
Pneumatic Shear Company, The. (See Wilcox, Vincent A., assignor.)
Powers, Donald H., Tacoma, Wash. Portable heater unit. 135,859; June 22.
Price, James R., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Spoon or other article of flatware. 135,843; June 22.
Price, James R., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Spoon or other article of flatware. 135,844; June 22.
Ragan, Roy L., Colorado Springs, Colo. Badge or similar article. 135,865; June 22.
Reichert, Carl E. (See Kemmer, P. H., Butt, and Reichert.)
Sandler, Jacob, Boston, Mass. Shoe. 135,866; June 22.
Siegelbaum, Harry, Yonkers, N. Y. Hat. 135,867; June 22.
Snider, William N., Los Angeles, Calif. Smoking pipe. 135,868; June 22.
Wilcox, Vincent A., Modesto, assignor to The Pneumatic Shear Company, Turlock, Calif. Sheep shearing device. 135,846; June 22.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aber, Earnest F., Racine, Wis. Milling machine cherrying attachment. 2,322,408; June 22.
Acme Steel Company. (See MacChesney, Chester M., assignor.)
Adams, Bert N., Queens Village, N. Y. Battery. 2,322,210; June 22.
Adams, James F., Wilmington, Del., assignor to General Chemical Company, New York, N. Y. Retarding abscission. 2,322,409; June 22.
Advance Machine Co. (See Gebert, A. E., and Black, assignors.)
Agriculture of the United States of America, Claude R. Wickard, and to his successors in office, Secretary of. (See Reed, Jesse O., assignor.)
Air Reduction Company. (See Anderson, James L., assignor.)
Akemann, Theodore H. (See Brown, Bernard J., assignor.)
Aktiebolaget Götaverken. (See Johansson, Johan E., assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Baumann, Adolf, assignor.)
Albright, Charles L., Beverly, Mass., assignor to Sylvania Electric Products Inc. Apparatus for coating fluorescent lamps. 2,322,211; June 22.
Alexander, Paul, Huyton, near Liverpool, England. Apparatus for deposition of metals by thermal evaporation in vacuum. 2,322,613; June 22.
Alfery, Henry F., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Burner control apparatus. 2,322,410; June 22.
Alien Property Custodian. (See Kurtz, P., and Schwarz.)
Alien Property Custodian. (See Sandström, Jacques R. E.)
Allen, Herbert, assignor to Cameron Iron Works, Houston, Tex. Blowout preventer. 2,322,269; June 22.
Allen, William H., U. S. Army, Bowling Green, Ky. Practice shell. 2,322,212; June 22.
Aluminum Company of America. (See Mussey, Delavan S., assignor.)
Alwin Manufacturing Company. (See Krueger, Albert G., assignor.)
Amberg, Walter E., Beverly Shores, Ind., assignor to Universal Paper Products Company, Chicago, Ill. Collapsible tube container. 2,322,213; June 22.
American Can Company. (See Cereghino, Joseph, assignor.)
American Can Company. (See Feher, Joseph, assignor.)
American Can Company. (See McLaughlin, Michael J., assignor.)
American Can Company. (See Murch, John H., assignor.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Creosoting Company. (See Kidder, Elwin H., assignor.)
American Cyanamid Company. (See Kropa, Edward L., assignor.)
American Cyanamid Company. (See Patterson, D. G., assignor.)
American Machine and Metals, Inc. (See Martinson, Edwin O., assignor.)
American Optical Company. (See Weyl, Woldemar A., assignor.)
American Screw Company. (See Tomalis, Joseph J., assignor.)
American Steel and Wire Company of New Jersey. (See Wald, George F., assignor.)
Amstutz, Forrest C. (See Strosacker, C. J., and Amstutz.)
Anderson, Arvid E., Haverford Township, Delaware County, Pa., assignor to General Electric Company. System of electrical distribution. 2,322,557; June 22.
Anderson, Bertil T., Rockford, Ill. Reversible magnetic brake. 2,322,335; June 22.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Glass-severing machine. 2,322,336; June 22.
Andrews, William N., New York, N. Y. Auxiliary brake operator for vehicles. 2,322,499; June 22.
Andrus, Ralph H., Spanish Fork, Utah. Punch board. 2,322,216; June 22.
Anspach, Harry R. (See Marquardt, R. E., Anspach, and Croteau.)
Applied Sugar Laboratories, Inc. (See Pike, N. R., Kelm, and McLaren, assignors.)
Archer, Sylvanus M., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combination lock. 2,322,724; June 22.
Armstrong, Frank J., Erdington, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Safety tube for pneumatic tires. 2,322,500; June 22.
Arrow-Hart & Hegeman Electric Co., The. (See Johnson, David W., assignor.)
Arvey Corporation. (See Strauss, Charles, assignor.)
Associated Electric Laboratories, Inc. (See Matousek, Edward, assignor.)
Atkin, Lawrence. (See Schultz, A. S., Atkin, and Frey.)
Atkin, Lawrence, and A. S. Schultz, Bronx, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Thiamin containing compositions and their production. 2,322,270; June 22.
Atwood & Morrill Co. (See Hose, Alexander V., assignor.)
Auer, George. (See Eickemeyer, Henry, assignor.)
Bachman, William S., Fairfield, Conn., assignor to General Electric Company. Tone control means. 2,322,558; June 22.
Bagley, William N., Chicago, Ill. Irrigation sprinkler. 2,322,271; June 22.
Bahr, Gustave F., assignor to Casco Products Corporation, Bridgeport, Conn. Shaving machine. 2,322,337; June 22.
Bailey, Frederick S., Hoboken, and P. Schone, Ridgefield, N. J., assignors to National-Standard Company. Drying oven. 2,322,272; June 22.
Baird, Clyde W., Columbus, Ohio, assignor to The Traylor Vibrator Company. Vibration control apparatus. 2,322,217; June 22.
Baird, Clyde W., Columbus, Ohio, assignor to The Traylor Vibrator Company. Control system. 2,322,218; June 22.
Baird, Stuart R., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Laundry apparatus. 2,322,559; June 22.
Ballard, Bernard T., Warren, Ohio, assignor to United States Gypsum Company, Chicago, Ill. Machine for the manufacture of expanded metal. 2,322,204; June 22.
Barbulesco, Constantin D. (See Crane, C. J., Holloman, Stout, and Barbulesco.)
Barkelj, Jean A. H., Altadena, Calif. Semiautomatic gear shift transmission together with a combined fuel control element and gearshifter. 2,322,411; June 22.
Barnes Drill Co. (See Caldwell, Harry J., assignor.)
Barnitz, Blair M., Los Angeles, Calif., assignor to The Brown Instrument Company, Philadelphia, Pa. Automatic temperature control instrument. 2,322,501; June 22.
Bartlett, Percy. (See Thumim, C., and Bartlett.)
Bastian Brothers Company. (See Mitchel, Charles F., assignor.)
Baumann, Adolf, Wettingen, assignor to Aktiengesellschaft Brown Boveri & Cie. Baden, Switzerland. Axial flow compressor plant. 2,322,338; June 22.
Baxter Laboratories, Inc. (See Nesset, N. M., and Nawoj.)
Beals, Albert E., Norwich, N. Y. Refrigerating apparatus. 2,322,339; June 22.
Bechler, André, Moutier, Switzerland. Device for transmitting the movement of a cam to another part of a machine tool. 2,322,340; June 22.
Beck, Francis M., Schenectady, N. Y., assignor to General Electric Company. Safety system. 2,322,560; June 22.
Beckstrom, Harry A., Seattle, Wash. Water heater. 2,322,502; June 22.
Bedford, William A., Jr., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Shiftable socket fastening device. 2,322,614; June 22.
Bell Telephone Laboratories, Incorporated. (See Biggs, Burnard S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Harrison, Henry C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mitchell, Doren, assignor.)
Bell Telephone Laboratories, Incorporated. (See Vroom, Edward, assignor.)
Bendix Aviation Corporation. (See Bevins, J. E., and Konet, assignors.)
Bendix Aviation Corporation. (See Blanchard, Arthur D., assignor.)
Bendix Aviation Corporation. (See Nardone, Romeo M., assignor.)
Bendix Aviation Corporation. (See Webster, Sidney H., assignor.)
Bennett, William G., Chicago, Ill. Pneumatic tire tread augmenting means. 2,322,412; June 22.
Berg, John C. (See Ingebrigtsen, Matheus O., assignor.)

Bevins, James E., Ardmore, Pa., and H. Konet, Ridgefield Park, assignors to Bendix Aviation Corporation, Bendix, N. J. Automatic balancing of rotating bodies. 2,322,561; June 22.
Biggs, Burnard S., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manufacture of esters of mononitriles of dicarboxylic acids. 2,322,273; June 22.
Billings & Spencer Company, The. (See Kuehn, Raymond L., assignor.)
Birch, Raymond E., and C. L. Thompson, Mount Lebanon, assignors to Harbison-Walker Refractories Company, Pittsburgh, Pa. Magnesite for furnace linings. 2,322,274; June 22.
Birdsall, Albert L., and G. V. Jakeway, assignors to Keeler Brass Company, Grand Rapids, Mich. Door handle. 2,322,275; June 22.
Bishop, J. Paul, Clarendon Hills, and W. F. Henry, Argo, Ill., assignors to Corn Products Refining Company, New York, N. Y. Steeping corn. 2,322,413; June 22.
Bishop, Lyle. (See Small, William E., assignor.)
Black, Floyd C. (See Gebert, A. E., and Black.)
Blair, Charles M., Jr. (See Wirtel, A. F., and Blair.)
Blanchard, Arthur D., Bloomfield, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Connector. 2,322,562; June 22.
Blaser, Wilfred A., assignor to Deere & Company, Moline, Ill. Harvester platform mounting means. 2,322,276; June 22.
Blau, Ludwig W. (See Howell, L. G., and Blau.)
Bolesky, John D. (See Vaughan, V. G., and Bolesky.)
Bonnett, Howard T. (See Major, R. T., and Bonnett.)
Booth, Morris F., Alden, Mich. Heat exchange unit. 2,322,341; June 22.
Boswau, Hans P., Lorain, Ohio. Automatic telephone system. 2,322,219; June 22.
Boucher, Frank G., Tulsa, Okla., assignor to Standard Oil Development Company. Leveling device. 2,322,615; June 22.
Bovio, Albert T., Beverly, Mass., assignor to Sylvania Electric Products Inc. Flare holder. 2,322,725; June 22.
Bowen, William S., Westfield, N. J. Venturi dust collector. 2,322,414; June 22.
Bowman, Daniel C., Pendleton, Oreg. Green corn fork. 2,322,503; June 22.
Brandon, Arthur H., Los Angeles, assignor to Dia-Loy Company, Los Angeles County, Calif. Tubing wear detector. 2,322,343; June 22.
Brandon, Benjamin R., Columbia, S. C. Portable dry closet receptacle. 2,322,344; June 22.
Brandon, George E., assignor to Semet-Solvay Engineering Corporation, New York, N. Y. Barge loading and unloading apparatus. 2,322,504; June 22.
Braniff Airways, Incorporated. (See Johnson, Charles J., assignor.)
Braun, W. L. (See Rickus, G. M., and Braun.)
Briskin, Jack. (See Sperry, P. F., and Briskin, Philip F. and J.)
Briskin, Jack, et al. (See Sperry, Philmore F., assignor.)
Briskin, Philip F. (See Sperry, P. F., and Briskin, Philip F. and J.)
Briskin, Philip F., et al. (See Sperry, Philmore F., assignor.)
Briskin, Theodore H. (See Sperry, P. F., and Briskin, Philip F. and J.)
Briskin, Theodore H., et al. (See Sperry, Philmore F.)
Briskin, Theodore S. (See Sperry, P. F., and Briskin.)
Brown, Bernard J., assignor of one-half to Theodore H. Akemann, Elgin, Ill. Linoleum marker. 2,322,277; June 22.
Brown, Corder T., et al. (See Rouse, Benjamin H., assignor.)
Brown Instrument Company, The. (See Barnitz, Blair M., assignor.)
Brown, Jay F. (See Carson, T. L., and Brown.)
Bruno Patents Inc. (See Bruno, William A., assignor.)
Bruno, William A., Astoria, Long Island, assignor to Bruno Patents Inc., Long Island City, N. Y. Remote control. 2,322,563; June 22.
Buckbee, John C., Los Angeles, Calif. Sand dewatering wheel. 2,322,415; June 22.
Buckley, James M., and T. F. Clarey, assignors to Club Aluminum Products Company, Chicago, Ill. Game apparatus. 2,322,564; June 22.
Buckwalter, Jacob S., Philadelphia, Pa. Spark timing indicator. 2,322,278; June 22.
Budd, Edward G., Manufacturing Company. (See Deisley, Edward J., assignor.)
Builders Iron Foundry. (See Lowe, Rudy P., assignor.)
Bull, Arthur W., Grosse Pointe, Mich., assignor to United States Rubber Company, New York, N. Y. Pneumatic tire. 2,322,505; June 22.
Bunn, Simon M., Waco, Tex. Plow attachment for tractors. 2,322,342; June 22.
Burger, Michael J., South Ozone Park, assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration measuring apparatus. 2,322,708; June 22.
Butters, Robert H., Atlanta, Ga. Machine for and method of relieving milling cutters. 2,322,506; June 23.
Cage, James, Valley Stream, N. Y., assignor to Reynolds Metals Company, Richmond, Va. Fireproof shipping container. 2,322,345; June 22.
Caldwell, Harry J., assignor to Barnes Drill Co., Rockford, Ill. Honing machine. 2,322,346; June 22.
Cameron Iron Works. (See Allen, Herbert, assignor.)
Canadian Copper Refiners Limited. (See Clark, Charles W., assignor.)
Cannon Shoe Company. (See Carfagno, Thomas F., assignor.)
Carfagno, Thomas F., Hanover, Pa., assignor to Cannon Shoe Company, Baltimore, Md. Shoe sole punching die. 2,322,726; June 22.
Carpenter, Laura P., et al., trustees. (See Daugherty, Fount F., assignor.)
Carson, Theodore L., and J. F. Brown, Denver, Colo., assignors to Waukesha Motor Company, Waukesha, Wis. Spark plug. 2,322,616; June 22.
Casco Products Corporation. (See Bahr, Gustave F., assignor.)
Casselberry, Theodore E., France Field, C. Z. Radio tube extractor. 2,322,220; June 22.
Caterpillar Tractor Co. (See Gustafson, Carl A., assignor.)
Caterpillar Tractor Co. (See McDonald, Allen T., assignor.)
Catford, Adrian L. (See Halford, F. B., and Catford.)
Cease, Robert R., Nameoki, assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,322,682; June 22.
Celanese Corporation of America. (See Seymour, G. W., and Ward, assignors.)
Cereghino, Joseph, Los Angeles, Calif., assignor to American Can Company, New York, N. Y. Soldering machine. 2,322,221; June 22.
Channing, Robert, Company. (See Woodard, R. E., and MacLean, assignors.)
Cheney Weeder Company. (See Rubens, Timothy, assignor.)
Christian, Jack, Sanford, Fla. Vegetable washing machine. 2,322,417; June 22.
Chromium Mining and Smelting Corpn., Limited. (See Timmins, Leo H., assignor.)
Churchman, Russell C., Des Moines, Iowa. Nut lock. 2,322,347; June 22.
Ciba Products Corporation. (See Widmer, G., and Ruperti, assignors.)
Clarey, Thomas F. (See Buckley, J. M., and Clarey.)
Clark, Charles W., Montreal, Quebec, assignor to Canadian Copper Refiners Limited, Montreal East, Quebec, Canada. Recovering selenium as selenium dioxide from copper refinery slimes. 2,322,348; June 22.
Club Aluminum Products Company. (See Buckley, J. M., and Clarey, assignors.)
Cole, Norman W., Detroit, Mich. Bonding. 2,322,507; June 22.
Cole, Raymond A., and F. E. Johnson, assignors to Norton Company, Worcester, Mass. Crankshaft grinding machine. 2,322,727; June 22.
Cole, Robert M., Bryn Athyn, Pa. Composition for the treatment of ivy poisoning. 2,322,565; June 22.
Coleman, John D., and C. W. Ewing, assignors to General Motors Corporation, Dayton, Ohio. Flux. 2,322,416; June 22.
Collender, Gustave A., Los Angeles, Calif. Vehicle drive mechanism. 2,322,279; June 22.
Colton, Alpha F., Detroit, Mich., assignor to Ralph C. Coxhead Corporation, New York, N. Y. Automatic justifying and indention control. 2,322,222; June 22.
Colt's Patent Fire Arms Manufacturing Company. (See Webb, George, assignor.)
Cooper, Arthur H., Iver, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Radio receiver. 2,322,280; June 22.
Corn Products Refining Company. (See Bishop, J. P., and Henry, assignors.)
Corn Products Refining Company. (See Swallen, L. C., and James, assignors.)
Coss, George R., Elizabeth, N. J., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich. Vacuum cleaner. 2,322,223; June 22.
Costa, Ferrere. (See Costa, Juanita and F.)
Costa, Juanita and F., New York, N. Y. Combination wheel chair and stretcher. 2,322,683; June 22.
Cox, James L., Danvers, Mass., assignor to Sylvania Electric Products Inc. Electric discharge lamp. 2,322,224; June 22.
Cox, James L., Danvers, Mass., assignor to Sylvania Electric Products Inc. Electric discharge lamp. 2,322,421; June 22.
Coxhead, Ralph C., Corporation. (See Colton, Alpha F., assignor.)
Craig, David, Silver Lake Village, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Separation of piperylene isomers. 2,322,281; June 22.
Craig, Ernest, Falconbridge, Ontario, Canada. Rock drill. 2,322,420; June 22.
Crane, Carl J., G. V. Holloman, and R. K. Stout, Dayton, and C. D. Barbulesco, Yellow Springs, Ohio. Aircraft automatic take-off, flight, and landing. 2,322,225; June 22.
Crane, Hubert R., Los Angeles, Calif. Pipe bore cleaner apparatus. 2,322,508; June 22.
Cranford, Lloyd L. O., Baton Rouge, La. Paraffin scraping tool. 2,322,419; June 22.
Crawford, Ernest A., Chicago, Ill., assignor to Sperry Products, Inc., Hoboken, N. J. Automatic temperature compensation for pressure indicators of continuous rolling mills. 2,322,418; June 22.

Crocker, John C., Ware Shoals, assignor of one-half to W. D. Dodenhoff, Greenville, S. C. Picker stick check for looms. 2,322,685; June 22.
Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
Croteau, Clarence A. (See Marquardt, R. E., Anspach and Croteau.)
Cunnington, George R., Grosse Pointe Park, assignor to National Automotive Fibres, Inc., Detroit, Mich. Making decorative fabrics. 2,322,226; June 22.
Curzons, Charles E. (See Smallpeice, C. D. P., and Curzons.)
Cushman Chuck Company, The. (See Highberg, G. A., and Hickey, assignors.)
Dain Manufacturing Company of Iowa. (See Hill, George B., assignor.)
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Aminoplasts modified with oxanilic acid. 2,322,566; June 22.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Plasticized aminoplast. 2,322,567; June 22.
Danneman, Fred C., Ridgewood, N. Y. Demountable pin or shank assembly. 2,322,422; June 22.
Dannenbaum, Hans, Falkenhain-Finkenkrug, near Berlin, H. H. Inhoffen, Berlin-Wilmersdorf, and W. Hohlweg, Hohen Neuendorf, near Berlin, Germany, assignors to Schering Corporation, Bloomfield, N. J. Carbonyl compounds of the cyclopentano polyhydro phenanthrene series and producing the same. 2,322,227; June 22.
Daugherty, Fount F., assignor to T. Francis, F. F. Daugherty, N. S. Wood, T. H. Mize, I. L. Rhodes, W. J. Moran, L. P. Carpenter, D. R. Francis, St. Louis, Mo., and N. Ewing, Fort Lewis, Wash., as trustees. Recording apparatus. 2,322,282; June 22.
Davidson, Harry, Auburn, Ind. Sewer cleaner. 2,322,423; June 22.
Dayhuff, Walter C., Whittier, assignor to Standard Oil Company of California, San Francisco, Calif. Method and apparatus for odorizing liquefied gas. 2,322,617; June 22.
Dayton Veneer & Lumber Mills. (See James, Oliver M., assignor.)
Deere & Company. (See Blaser, Wilfred A., assignor.)
Deere & Company. (See Tuft, Miles H., assignor.)
Deere & Company. (See White, Charles H., assignor.)
Dehmel, Erich, Berlin, Germany, assignor to General Electric Company. Electrical connector. 2,322,686; June 22.
Deisley, Edward J., Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Bow for the tarpaulin of platform vehicles. 2,322,424; June 22.
De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Scavenging pump. 2,322,568; June 22.
De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Mechanical movement for shifting gears. 2,322,569; June 22.
De Long, Herbert K., assignor to The Dow Chemical Company, Midland, Mich. Treating magnesium and its alloys. 2,322,205; June 22.
De Long, Herbert K. (See Loose, W. S., and De Long.)
De Maré, Baltzar E. L., Germantown, Pa. Apparatus for converting high-phosphorous pig iron into high-grade low-phosphorus steel. 2,322,618; June 22.
Dempsey, Robert M., assignor to Shull Perforating Co., Inc., Long Beach, Calif. Dumping bailer. 2,322,425; June 22.
Dennison, Brook J., Aspinwall, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Modified vinyl plastic. 2,322,571; June 22.
Denny, Albert A., Sewickley, Pa. Grate. 2,322,283; June 22.
De Staebler, Herbert C., Kirkwood, Mo. Testing protective coatings. 2,322,228; June 22.
De Vellier, William A., New York, N. Y. Screw. 2,322,509; June 22.
Dewald, Edward A., Massillon, Ohio, assignor to The Griscom-Russell Company, New York, N. Y. Heat exchanger. 2,322,284; June 22.
Dewees, Alvin G., Philadelphia, Pa. Reconditioning yarn cones. 2,322,350; June 22.
Dewey and Almy Chemical Company. (See Lanigan, F. W., and Mark, assignors.)
Dia-Loy Company. (See Brandon, Arthur H., assignor.)
Diamond, Harry, Washington, D. C., and W. S. Hinman, Jr., Falls Church, Va., assignors to The Government of the United States of America. Pressure switching. 2,322,229; June 22.
Dillon, Maurice B. (See Fox, O. T., and Dillon.)
Dodenhoff, William D. (See Crocker, John C., assignor.)
Dodge, Adiel Y., Rockford, Ill. Universal joint. 2,322,570; June 22.
Domestic Manufacturing Company. (See Jenkins, Wayne E., assignor.)
Donnelly, William H. (See Holmes, Paul J., assignor.)
Dorfman, Hiller D., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,322,285; June 22.
Dorr Company, The. (See Scott, Charles H., assignor.)
Dorr Company, The. (See Scott, C. H., and Linch, assignors.)
Douglas Aircraft Company. (See Klemperer, Wolfgang B., assignor.)
Dow Chemical Company, The. (See De Long, Herbert K., assignor.)
Dow-Chemical Company, The. (See Loose, W. S., and De Long, assignors.)
Dow Chemical Company, The. (See Strosacker, C. J., and Amstutz, assignors.)
Dreyfuss, Henry, New York, N. Y., assignor to Sylvania Electric Products Inc. Fluorescent lamp fixture. 2,322,426; June 22.
Dufine, Abraham, New York, N. Y. Reversible garment. 2,322,510; June 22.
Dumelin, Charles, Detroit, Mich. Concealed hinge for automobile doors. 2,322,286; June 22.
Dunlop Tire and Rubber Corporation. (See Armstrong, Frank J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hill, Julian W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Russell, Ralph C., assignor.)
Eakin, Robert E., and R. J. Williams, Corvallis, Oreg., assignors to Standard Brands Incorporated, New York, N. Y. Producing yeast. 2,322,287; June 22.
Eddy, M. C., et al. (See Rouse, Benjamin H., assignor.)
Edelstein, Sidney M., Elizabeth, N. J. Cellulose product. 2,322,427; June 22.
Edison, John S., Burbank, Calif. Typewriter combination. 2,322,289; June 22.
Edison, Thomas A., Incorporated. (See Gardenier, Clyde B., assignor.)
Edwards, William G., Kenmore, N. Y., assignor to The Linde Air Products Company. Treating castings. 2,322,288; June 22.
Eickemeyer, Henry, assignor to G. Auer, Chicago, Ill. Filter system and apparatus. 2,322,428; June 22.
Eisendrath Glove Company. (See Eisendrath, Robert M., assignor.)
Eisendrath, Robert M., assignor to Eisendrath Glove Company, Chicago, Ill. Hand protector. 2,322,710; June 22.
Eisenman, Louis, Brooklyn, assignor to Solo Products Corporation, New York, N. Y. Hair curling device. 2,322,429; June 22.
Ekholm, Carl G., Lidkoping, Sweden. Centerless grinding machine. 2,322,619; June 22.
Ekholm, Carl G., Lidkoping, Sweden. Centerless grinding machine. 2,322,620; June 22.
Electric & Musical Industries Limited. (See Cooper, Arthur H., assignor.)
Electronbeam, Incorporated. (See Ziebolz, Herbert, assignor.)
Eureka Vacuum Cleaner Company. (See Coss, George R., assignor.)
Ewing, Charles W. (See Coleman, J. D., and Ewing.)
Ewing, Nathaniel, et al., trustees. (See Daugherty, Fount F., assignor.)
Farrel-Birmingham Company. (See Kuhns, A., and Gasser, assignors.)
Farrell, Marion L. (See Johnson, W. T., and Farrell.)
Farrow, Frederick R., Jr., Audubon, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Electroacoustic transducer. 2,322,621; June 22.
Fay, Joseph W., Villa Park, assignor to Overland Candy Corporation, Chicago, Ill. Machine for packaging edible products. 2,322,430; June 22.
Feher, Joseph, North Arlington, N. J., assignor to American Can Company, New York, N. Y. Can testing machine. 2,322,230; June 22.
Feldtkeller, Carl L., Milwaukee, Wis. Trimming mechanism for grid plates. 2,322,351; June 22.
Felt, Adolph E. (See Vanderzee, H. H., and Felt.)
Field, Donald C. (See Sparks, W. J., and Field.)
Finlayson, Frank E. (See Reddington, F. W., and Finlayson.)
Fischer, Ernest A., Bloomfield, and E. C. Moss, Westfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Safety device. 2,322,511; June 22.
Fischer, Herbert G. M., Westfield, and H. P. Russell, Millburn, N. J., assignors, by mesne assignments, to Standard Catalytic Company. Treatment of motor fuels. 2,322,622; June 22.
Fischer, Joseph, New York, N. Y. Automobile accessory. 2,322,431; June 22.
Fischer, William L., Philadelphia, Pa. Optical amplifier. 2,322,231; June 22.
Fisher, Harry L., Stamford, Conn., assignor to U. S. Industrial Alcohol Co., New York, N. Y. Production of aromatic amines. 2,322,572; June 22.
Flock, Bernard J. (See Gerhold, C. G., and Flock.)
Floeter, Frederick S., assignor to Wickes Bros., Saginaw, Mich. Lathe chuck. 2,322,623; June 22.
Folmer Graflex Corporation, The. (See Steiner, Oscar, assignor.)
Forbes, John D., San Francisco, Calif. Chain shot. 2,322,624; June 22.
Formhals, William H. (See King, G. E., and Formhals.)
Forte, Carl D., San Diego, Calif. Demountable bulldozer attachment. 2,322,432; June 22.
Foster, Edson P., Evanston, Ill. Felting needle. 2,322,573; June 22.
Fox, Gordon. (See Whitcomb, A. J., and Fox.)
Fox, Orrin T., and M. B. Dillon, Redding, Calif. Bed. 2,322,512; June 22.

Francis, David R., et al, trustees. (See Daugherty, Fount F., assignor.)
Franta, William A. (See Muskat, I. E., Pollack, Strain, and Franta.)
Frazier, Harold A., Paterson, N. J. Airplane blade pitch-control. 2,322,352; June 22.
Frey, Charles N. (See Atkin, L., Schultz, and Frey.)
Frey, Charles N. (See Schultz, A. S., Atkin, and Frey.)
Freyn Engineering Company. (See Whitcomb, A. J., and Fox, assignors.)
Fruit & Vegetable Processing Co. (See Wilson, William H., assignor.)
Fruth, Hal F., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Dielectric material. 2,322,353; June 22.
Fuller, Frederic B. (See Guibert, F. W., and Fuller.)
Furman, Harry A. (See Polin, Herbert S., assignor.)
Gabel, Richard H., Norristown, assignor to Superior Tube Company, Philadelphia, Pa. Apparatus for making tubular electrodes. 2,322,290; June 22.
Gallor, Chester F., Brooklyn, N. Y., deceased; E. P. Gallor, administratrix. Rail anchor. 2,322,742; June 22.
Gallor, Evelyn P., administratrix. (See Gallor, Chester F.)
Gammache, Frank J., deceased, Manheim Township, Lancaster County; M. Gammache, executrix, assignor to Magdalena Gammache, Country Club Heights, Lancaster, Pa. Miter box. 2,322,433; June 22.
Gammache, Magdalena, executrix. (See Gammache, Frank J.)
Gardenier, Clyde B., Belleville, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Gas absorbent and method for preparing the same. 2,322,206; June 22.
Gasser, Emil R. (See Kuhns, A., and Gasser.)
Gates, Paul E., Danvers, Mass., assignor to Sylvania Electric Products Inc. Apparatus for lamp stem manufacture. 2,322,728; June 22.
Gearing, Charles M., assignor to The Charles Parker Company, Meriden, Conn. Vise. 2,322,291; June 22.
Gebert, Albert E., Wilmette, and F. C. Black, Chicago, assignors to Advance Machine Co. Coin detecting apparatus. 2,322,434; June 22.
Geertz, Eric, and C. A. Getz, Glen Ellyn, assignors, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Method and apparatus for conditioning and supplying water and carbon dioxide to carbonators. 2,322,625; June 22.
General Chemical Company. (See Adams, James F., assignor.)
General Electric Company. (See Anderson, Arvid E., assignor.)
General Electric Company. (See Bachman, William S., assignor.)
General Electric Company. (See Beck, Francis M., assignor.)
General Electric Company. (See D'Alelio, Gaetano, assignor.)
General Electric Company. (See Dehmel, Erich, assignor.)
General Electric Company. (See Goldberg, Leon J., assignor.)
General Electric Company. (See Minneci, Salvatore, assignor.)
General Electric Company. (See Reddington, F. W., and Finlayson, assignors.)
General Electric Company. (See Short, Thomas T., assignor.)
General Electric Company. (See Simkins, Stephen V. R., and Harris, assignors.)
General Electric Company. (See Thumim, C., and Barelett, assignors.)
General Motors Corporation. (See Coleman, J. D., and Ewing, assignors.)
General Motors Corporation. (See Wurtz, Clifford H., assignor.)
General Steel Castings Corporation. (See Cease, Robert R., assignor.)
Gerhard, Charles E., Glenside, assignor to Philco Corporation, Philadelphia, Pa. Method and apparatus for storing ice cubes. 2,322,626; June 22.
Gerhold, Clarence G., and B. J. Flock, assignors to Universal Oil Products Company, Chicago, Ill. Separation of selected components from hydrocarbon mixtures. 2,322,354; June 22.
Getz, Charles A. (See Geertz, E., and Getz.)
Getz, Charles A., Glen Ellyn, assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Method and apparatus for conditioning and supplying water and carbon dioxide to carbonators. 2,322,627; June 22.
Gilbert & Barker Manufacturing Company. (See DeLancey, Warren H., assignor.)
Gillian, Herman A., Kendallville, Ind. Take-up for gloves. 2,322,687; June 22.
Glick, Gertrude J., Bartlett, Ill. Lady's knitting and shopping bag. 2,322,688; June 22.
Goetz, Alexander, Pasadena, Calif., assignor to Sunshine Mining Company, Yakima, Wash. Chemical process for production of potable water from nonpotable saline water. 2,322,689; June 22.
Goins, Charles A., Tampa, Fla. Antigrounding device for boats. 2,322,628; June 22.
Goldberg, Leon J., Schenectady, N. Y., assignor to General Electric Company. Electromagnet. 2,322,574; June 22.
Goldman, Russell. (See Lackoff, S. K., and Gordon, assignor.)
Goldsmith, Alfred N., New York, N. Y. Television transmitter. 2,322,355; June 22.
Goodloe, Alfred M., Montclair, assignor to Metal Textile Corporation, West Orange, N. J. Removable filter unit for air cleaners. 2,322,513; June 22.
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodrich, B. F., Company, The. (See Craig, David, assignor.)
Goodwin, Henry S., Fanwood, N. J., assignor, by mesne assignments, to Standard Catalytic Company. Nonfoaming asphault saturant. 2,322,629; June 22.
Goodwin, William M., Central Square, N. Y. Valve actuating mechanism. 2,322,514; June 22.
Gordon, Harry. (See Lackoff, S. K., and Gordon.)
Goshaw, Irl R., Beverly Hills, Calif., assignor to Radio Corporation of America. Motion picture sound recording and reproducing system. 2,322,435; June 22.
Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Tension device. 2,322,232; June 22.
Government of the United States of America, The. (See Diamond H., and Hinman, assignors.)
Granger, Harold, U. S. Marine Corps. Coaxial transmission line terminal. 2,322,233; June 22.
Gray, Raymond A. (See Roach, V. S., and Gray.)
Greensfelder, Edward, et al, trustees. (See Johnston, Harry.)
Greig, James W., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Motor vehicle construction. 2,322,630; June 22.
Griscom-Russell Company, The. (See Dewald, Edward A., assignor.)
Grob, Benjamin and T., West Allis, Wis. Machine tool. 2,322,684; June 22.
Grob, Theodore. (See Grob, Benjamin and T.)
Groeniger, William C., Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Combined vacuum breaker and check valve. 2,322,631; June 22.
Guibert, Francis W., Beverly Hills, and F. B. Fuller, Whittier, Calif.; said Fuller assignor to said Guibert. Measuring device for liquids. 2,322,436; June 22.
Gullett Gin Company. (See Wallace, Jeffrey J., assignor.)
Gustafson, Carl A., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Dump wagon. 2,322,437; June 22.
Gwaltney, Eugene C., Middeford, and P. B. West, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass. Calendering mechanism for card sliver working machines. 2,322,711; June 22.
H & B American Machine Company. (See Repass, George E., assignor.)
Hagen, Harold F., Wellesley, assignor to B. F. Sturtevant Company, Boston, Mass. Centrifugal fan. 2,322,357; June 22.
Hagstrom, Joseph E., assignor to C. E. Hovey, trustee, Kansas City, Mo. Mechanical coin changer. 2,322,234; June 22.
Hahn, Erwin, assignor to Aktiengesellschaft Adolph Saurer, Arbon, Switzerland. Injection pump. 2,322,356; June 22.
Hale, Arthur N., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,322,207; June 22.
Halford, Frank B., Edgware, and A. L. Catford, Hampton, assignor to D. Napier & Son, Limited, London, England. Apparatus for the control of the ignition of internal combustion engines. 2,322,690; June 22.
Hamilton Watch Company. (See Pease, Harold C., assignor.)
Hansen, Lee R., Anatone, assignor of one-fourth to G. A. Tuttle, Richland, and one-fourth to C. Ward, Anatone, Wash. Lifting mechanism. 2,322,358; June 22.
Harbison-Walker Refractories Company. (See Birch, R. E., and Thompson, assignors.)
Harper, William, Jr., Montreal, Quebec, Canada. Covering for airfoil surfaces. 2,322,632; June 22.
Harris, Eugene E. (See Simkins, Stephen V. R., and Harris.)
Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Bearing structure for relays and the like. 2,322,292; June 22.
Hart, Leo W. (See Larson, L. A., and Hart.)
Hat Corporation of America. (See Rickus, G. M., assignor.)
Hat Corporation of America. (See Rickus, G. M., and Braun, assignors.)
Hattox, Erwin M. (See Stahly, E. E., and Hattox.)
Hayes Industries, Inc. (See Hollerith, Charles, assignor.)
Hazard, Charles S., Andover, N. J., assignor to Neptune Meter Company. Universal predetermined autostop register. 2,322,712; June 22.

Hazard, William J., Boulder, Colo. Toilet ventilating system. 2,322,515; June 22.
Hazeltine Corporation. (See Lewis, Harold M., assignor.)
Heath, William C., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Heating and forming tubular bodies. 2,322,444; June 22.
Hedges, Harry O., Seattle, Wash. Internal combustion engine. 2,322,293; June 22.
Heithoff, William E., Dika, Iowa. Refuse container. 2,322,439; June 22.
Helfeda, S. A. (See Mercier, Pierre E., assignor.)
Henry, Robert W., Bartlesville, J. V. Montgomery, Okmulgee, Okla., and S. D. Lawson, Borger, Tex., assignors to Phillips Petroleum Company. Dewaxing lubricant stocks. 2,322,438; June 22.
Henry, William F. (See Bishop, J. P., and Henry.)
Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Welding electrode holder. 2,322,691; June 22.
Hensel, Henry A., Milwaukee, Wis. Tied sausage casing and method for tying. 2,322,447; June 22.
Hercules Powder Company. (See Rummelsburg, Alfred L., assignor.)
Heyman, Irene K. (See Heyman, Moses D., assignor.)
Heyman, Moses D., assignor of one-half to I. K. Heyman, Cedarhurst, N. Y. Feeding mechanism for power presses and like machines. 2,322,294; June 22.
Hickey, Herbert. (See Highberg, G. A., and Hickey.)
Highberg, George A., West Hartford, and H. Hickey, assignors to The Cushman Chuck Company, Hartford, Conn. Chuck operating mechanism. 2,322,440; June 22.
Hill, George B., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Sweep rake. 2,322,295; June 22.
Hill, Julian W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of cellulose mixed esters. 2,322,575; June 22.
Hinman, Wilbur S., Jr. (See Diamond, H., and Hinman.)
Hirschhorn, Herman, New Rochelle, N. Y. Putty removing knife. 2,322,359; June 22.
Hirschhorn, Hilmer, Newark, N. J., assignor to Snyder & Black, Inc., New York, N. Y. Display device. 2,322,713; June 22.
Hitchens, Richard M., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Wood preservation. 2,322,633; June 22.
Hoffmann Ernest. (See Renstrom, C. W., and Hoffmann.)
Hohlweg, Walter. (See Dannenbaum, H., Inhoffen, and Hohlweg.)
Hollerith, Charles, assignor to Hayes Industries, Inc., Jackson, Mich. Pressure sealed wheel. 2,322,360; June 22.
Holliday, Roy M., Oak Park, Ill. Reading glass. 2,322,441; June 22.
Holloman, George V. (See Crane, C. J., Holloman, Stout, and Barbulesco.)
Holman, George E., Melrose, Mass., assignor to Sylvania Electric Products Inc. Coating apparatus for gaseous discharge lamps. 2,322,729; June 22.
Holmes, Paul J., assignor to W. H. Donnelly, Los Angeles, Calif. Method and apparatus for producing radio beacons. 2,322,442; June 22.
Holtzman, John, New York, N. Y. Shaving equipment. 2,322,443; June 22.
Hopkins, Patsy N. (See Richardson, S., and Hopkins.)
Horvath, Artemy A., assignor to Horvath Laboratories, Inc., Chambersburg, Pa. Fixation process. 2,322,516; June 22.
Horvath Laboratories, Inc. (See Horvath, Artemy A., assignor.)
Hose, Alexander V., Marblehead, assignor to Atwood & Morrill Co., Salem, Mass. Valve assembly. 2,322,517; June 22.
Hovey, C. Earl, trustee. (See Hagstrom, Joseph E., assignor.)
Howard, Ernest R., Ridgewood, assignor to The H. A. Wilson Company, Newark, N. J. Switch. 2,322,235; June 22.
Howell, Lynn G., and L. W. Blau, Houston, Tex., assignors to Standard Oil Development Company. Method and apparatus for logging boreholes. 2,322,634; June 22.
Huber, J. M., Inc. (See Huber, Walter, assignor.)
Huber, Matthew W., Chicago, Ill., assignor to Hydraulic Controls, Inc. Combined brake and selector valve. 2,322,518; June 22.
Huber, Walter, Mount Kisco, assignor to J. M. Huber, Inc., New York, N. Y. Printing process. 2,322,445; June 22.
Hudson Motor Car Company. (See Greig, James W., assignor.)
Hudson, Neal, Phoenix, Ariz. Coupler. 2,322,446; June 22.
Huebshman, Paul, Dearborn, and G. D. Stough, Detroit, assignors to Whitehead & Kales Company, River Rouge, Mich. Hook structure. 2,322,576; June 22.
Humoco Corporation. (See Moore, George A., assignor.)
Hunt, John O., Ware Shoals, S. C., assignor to Ware Shoals Manufacturing Co., New York, N. Y. Method and apparatus for making absorbent pads. 2,322,692; June 22.
Hunter, Donald P., Los Angeles, assignor to Turco Products, Inc., Los Angeles County, Calif. Spray device. 2,322,296; June 22.
Hurst, H. H. (See Roach, V. S., and Gray, assignors.)
Hydraulic Controls, Inc. (See Huber, Matthew W., assignor.)
Iams, Harley A., Berkeley Heights, N. J., assignor to Radio Corporation of America. Electronic device. 2,322,361; June 22.
Imperial Chemical Industries Limited. (See Morgan, Leslie B. and W. M., assignors.)
Indiana Condensed Milk Company. (See Kennedy, Alex R., assignor.)
Ingebrigtsen, Matheus O., assignor to J. C. Berg, Minneapolis, Minn. Birthday cake tray. 2,322,519; June 22.
Ingram, Harry, Wheeling, W. Va. Valved can closure. 2,322,236; June 22.
Inhoffen, Hans H. (See Dannenbaum, H., Inhoffen, and Hohlweg.)
Inhoffen, Hans H. (See Schoeller, W., and Inhoffen.)
Interchemical Corporation. (See Kjellstrands, A. G., assignor.)
Jackson, Corwell, Ludington, Mich. Concrete placement machine. 2,322,362; June 22.
Jackson, John G., and R. H. Kingdon, assignors to Square D Company, Detroit, Mich. Trolley. 2,322,640; June 22.
Jakeway, Gerald V. (See Birdsall, A. L., and Jakeway.)
Jalbert, Adrien L., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe. 2,322,297; June 22.
James, Albert L. (See Swallen, L. C., and James.)
James, Oliver M., Americus, Ga., assignor to Dayton Veneer & Lumber Mills, Dayton, Tenn. Apparatus for making basket covers. 2,322,363; June 22.
Jaros, Frank P., assignor, by mesne assignments, to The Patent and Licensing Corporation, New York, N. Y. Mastic composition for flooring, etc. 2,322,641; June 22.
Jasco, Incorporated. (See Young, David W., assignor.)
Jenkins, Wayne E., assignor to Domestic Manufacturing Company, Inc., Los Angeles, Calif. Thermostatically controlled shutoff device. 2,322,520; June 22.
Jenkins, Wayne E., assignor to Domestic Manufacturing Company, Inc., Los Angeles, Calif. Thermostatically controlled gas valve. 2,322,521; June 22.
Jernstedt, George W., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Corrosion resistant coating for metal surfaces. 2,322,349; June 22.
Johansen, Harry C., Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 2,322,237; June 22.
Johansson, Johan E., assignor to Aktiebolaget Götaverken, Goteborg, Sweden. Vessel power plant. 2,322,522; June 22.
Johns-Manville Corporation. (See Rembert, Ernest W., assignor.)
Johnson, Charles J., Dallas, Tex., assignor to Braniff Airways, Incorporated, Oklahoma City, Okla. Ignition distribution system. 2,322,448; June 22.
Johnson, David W., New Britain, assignor to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn. Multiple-circuit breaker. 2,322,646; June 22.
Johnson, Franklin E. (See Cole, R. A., and Johnson.)
Johnson, John E., assignor to Watson-Williams Manufacturing Company, Millbury, Mass. Thread tension device for loom shuttles. 2,322,364; June 22.
Johnson, Oscar N. (See Macdonald, L. S., and Johnson.)
Johnson, John E., assignor to Watson-Williams Manufacturing Company, Millbury, Mass. Loom shuttle. 2,322,365; June 22.
Johnson, William T., and M. L. Farrell, Dwight, Ill. Brake apparatus for railway cars. 2,322,449; June 22.
Johnston, Harry, assignor, by mesne assignments, to Mercantile-Commerce Bank and Trust Company, and E. Greensfelder, St. Louis, Mo., trustees under the will of W. Rubenstein, deceased. Thermal attaching machine. 2,322,298; June 22.
Johnstone, Robert A., Aurora, Ind. Multiple spindle turrent attachment for machine tools and the like. 2,322,450; June 22.
Jones, Frank, Toronto, Ontario, Canada. Garment. 2,322,451; June 22.
Jones, George L., Garden City, assignor to Sperry Products, Inc., Hoboken, N. J. Rail flaw detector mechanism. 2,322,452; June 22.
Jones, Lloyd B., Hollidaysburg, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Cushioning device. 2,322,642; June 22.
Jones, Walter I., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener. 2,322,643; June 22.
Jones, Walter I., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Key-carrying device. 2,322,644; June 22.
Jones, Walter I., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Key-carrying device. 2,322,645; June 22.
Judelshon, Oscar I. (See Nowka, Hans W., assignor.)

Kalischer, Milton, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,322,714; June 22.

Kaneb, George T., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Bead stringing. 2,322,730; June 22.

Karlin, Henry. (See Stein, M. R., and Karlin.)

Kassel, Louis S., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion process. 2,322,366; June 22.

Kavanagh, Frank W. (See Neely, G. L., and Kavanagh.)

Kaveler, Herman H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for controlling oil wells. 2,322,453; June 22.

Keeler Brass Company. (See Birdsall, A. L., and Jakeway, assignors.)

Keith, Percival C., Jr., Peapack, N. J., assignor to The M. W. Kellogg Co., New York, N. Y. Stabilizing crude petroleum. 2,322,635; June 22.

Kellogg, M. W., Co., The. (See Keith, Percival C., Jr., assignor.)

Kelm, Paul H. (See Pike, N. R., Kelm, and McLaren.)

Kennedy, Alex R., deceased; H. M. Kennedy, executrix, assignor to Indiana Condensed Milk Company, Indianapolis, Ind. Processing canned foods. 2,322,693; June 22.

Kennedy, Harriett M., executrix. (See Kennedy, Alex R.)

Keough, Zachariah E., Mansfield, Ohio. Resilient wheel construction. 2,322,454; June 22.

Kidder, Elwin H., La Porte, Ind., assignor to American Creosoting Company, Inc., Louisville, Ky. Tie unloading and loading mechanism. 2,322,636; June 22.

Kierner, Anton, Union, assignor to E. Prazak, Elizabeth, N. J. Cross-stitch sewing machine. 2,322,523; June 22.

King, George E., Wilkinsburg, and W. H. Formhals, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Variable voltage planer control. 2,322,637; June 22.

Kingdon, Ralph H. (See Jackson, J. G., and Kingdon.)

Kinzbach, Robert B., Houston, Tex. Pipe cutter and reamer. 2,322,694; June 22.

Kinzbach, Robert R., Houston, Tex. Pipe milling device. 2,322,695; June 22.

Kirkwood, Ian W. A., and P. D. Ritchie, Newcastle-on-Tyne, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electrically insulating bodies. 2,322,214; June 22.

Kirkwood, I. W. A., and P. D. Ritchie, Newcastle-on-Tyne, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric condenser bushing. 2,322,215; June 22.

Kittel, John J., St. Albans, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,322,524; June 22.

Kjellstrand, Arthur G., Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y. Carbon paper. 2,322,367; June 22.

Kleeman, Francis S., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Mold and mold composition. 2,322,638; June 22.

Klemperer, Wolfgang B., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Gunnery correction device. 2,322,455; June 22.

Kloeren, Theodore, Philadelphia, Pa. Aircraft. 2,322,715; June 22.

Konet, Henry. (See Bevins, J. E., and Konet.)

Kothny, Gottdank L., Strafford, and G. A. Smith, assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Time delay relay control. 2,322,238; June 22.

Kouyoumjian, Leon V., Fairview, N. J., assignor to National-Standard Company. Conveyer for drying ovens. 2,322,299; June 22.

Kramer, Henry J., Mason City, Iowa. Cellular box. 2,322,239; June 22.

Kropa, Edward L., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Plasticizer. 2,322,240; June 22.

Krueger, Albert G., assignor to Alwin Manufacturing Company, Green Bay, Wis. Dispensing cabinet for rolled webs of paper and the like. 2,322,456; June 22.

Kuehn, Raymond L., Hartford, Conn., assignor to The Billings & Spencer Company. Machine tool. 2,322,525; June 22.

Kuhles, Edward K., Wilmette, assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Weight operated directional valve and control mechanism therefor. 2,322,639; June 22.

Kuhns, Austin, and E. R. Gasser, assignors to Farrel-Birmingham Company, Incorporated, Buffalo, N. Y. Hydraulic clutch structure. 2,322,577; June 22.

Kurtz, Peter, and H. Schwarz, Leverkusen-Wiesdorf, Germany; vested in the Alien Property Custodian. Manufacture of acrylic acid nitrile derivatives. 2,322,696; June 22.

Kurz, Christian A., Dayton, Ohio. Fishing float. 2,322,241; June 22.

Kutscha, Alois, Chicago, Ill. Side milling cutter. 2,322,578; June 22.

Kutscha, Alois, Chicago, Ill. Milling cutter assembly. 2,322,579; June 22.

Kwik Steak Machine Company. (See Larson, L. A., and Hart, assignors.)

Lacey, Terry S., Atlanta, Ga. Multitemplate wall assembly bench. 2,322,368; June 22.

Lackoff, Samuel K., New York, and H. Gordon, Brooklyn, assignors to R. Goldman, New York, N. Y. Talking motion picture projector. 2,322,369; June 22.

Lake, Howard C., Cincinnati, Ohio. Game device. 2,322,526; June 22.

Lance, Robert C., Montpelier, Vt. Lift compensator for firearms. 2,322,370; June 22.

Lanctot, Homer C., Anson, Maine. Sliding door operating and latching device. 2,322,457; June 22.

Lanigan, Francis W., Belmont, and J. G. Mark, Cambridge, assignors to Dewey and Almy Chemical Company, North Cambridge, Mass. Coating composition. 2,322,242; June 22.

Larson, Leonard A., Chicago, Ill., and L. W. Hart, assignors to Kwik Steak Machine Co. of America, Milwaukee, Wis. Meat tenderizing machine. 2,322,243; June 22.

Lawson, Shelby D. (See Henry R. W., Montgomery, and Lawson.)

Lawler, Frank P., Chicago, Ill., assignor of one-half to M. R. Robinson, Burlingame, Calif. Crane attachment for tractors. 2,322,697; June 22.

Leatherman, Jerry M., Akron, Ohio. Bottle closure. 2,322,527; June 22.

Le Bleu, Charles, Los Angeles, Calif. Scraper. 2,322,458; June 22.

Lee, Floyd B., et al. (See Rouse, Benjamin H., assignor.)

Lehon, Thomas B. (See Small, William E., assignor.)

Letourneau, Robert G., Peoria, Ill., assignor to R. G. Letourneau, Inc. Power control unit. 2,322,371; June 22.

Letourneau, R. G., Inc. (See Letourneau, Robert G., assignor.)

Lévy, René L., Paris, France, assignor to Societe D'Inventions Aeronautiques et Mecaniques S. I. A. M., Fribourg, Switzerland. Control device for folding doors. 2,322,372; June 22.

Lewis, Harold M., Allenhurst, N. J., assignor to Hazeltine Corporation. Signal amplifier. 2,322,528; June 22.

Linch, Harry A. (See Scott, C. H., and Linch.)

Linde Air Products Company, The. (See Edwards, William G., assignor.)

Linde Air Products Company, The. (See Linden, Walter R., assignor.)

Linde Air Products Company, The. (See McGuire, Frank, Jr., assignor.)

Linden, Walter R., Palisades Park, N. J., assignor to The Linde Air Products Company. Multiflame welding tip. 2,322,300; June 22.

Lindstrom, Ture, Edgewood, and J. W. May, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,322,301; June 22.

Linhardt, Charles, Jr., Baltimore, Md. Marine torch. 2,322,716; June 22.

Link-Belt Company. (See Sayers, William W., assignor.)

Link-Belt Company. (See Strube, Harry L., assignor.)

Lippold, Carl J., Wauwatosa, assignor to J. M. Nash Company, Milwaukee, Wis. Finishing and polishing equipment. 2,322,459; June 22.

Lockhart, Marshall L., Ossining, N. Y. Hypodermic injector. 2,322,244; June 22.

Lockhart, Marshall L., Ossining, N. Y. Hypodermic injector and use thereof. 2,322,245; June 22.

Long, Ralph L., San Diego, Calif. Hanger for sliding doors. 2,322,529; June 22.

Loose, William S., and H. K. De Long, assignors to The Dow Chemical Company, Midland, Mich. Providing a protective coating on magnesium and its alloys. 2,322,208; June 22.

Louis Marx & Company. (See Pasek, W. L., assignor.)

Lowe, Rudy P., Cranston, assignor to Builders Iron Foundry, Providence, R. I. Telemetric control apparatus. 2,322,373; June 22.

Lowe, Rudy P., East Providence, assignor to Builders Iron Foundry, Providence, R. I. Control apparatus. 2,322,374; June 22.

Lubri-Zol Corporation, The. (See Prutton, Carl F., assignor.)

Luce, John S., Oakland, assignor to The Web Appliance Company, San Francisco, Calif. Method and apparatus for folding paper. 2,322,647; June 22.

Lumley, Gerard M., San Antonio, Tex. Washing machine heater. 2,322,580; June 22.

Lundstrom, Carl B., Little Falls, N. Y. Disappearing support for business machines and the like. 2,322,648; June 22.

Lytle, William O., New Kensington, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Manufacture of cellular bodies. 2,322,581; June 22.

MacArthur, Charles J., Glen Ridge, N. J. Intaglio printing. 2,322,530; June 22.

MacChesney, Chester M., assignor to Acme Steel Company, Chicago, Ill. Laminated gripping dog. 2,322,651; June 22.

Macdonald, Laurie S., and O. N. Johnson, assignors to Thompson Bros. Shoe Co., Brockton, Mass. Boot or shoe. 2,322,532; June 22.

Mackey, Henry W., assignor to Motor Products Corporation, Detroit, Mich. Window assembly. 2,322,649; June 22.

MacLean, A. C. (See Woodard, R. E., and MacLean.)

Mahin, William E. (See Seastone, J. B., and Mahin.)

Major, Randolph T., Plainfield, and H. T. Bonnett, assignors to Merck & Co., Inc., Rahway, N. J. Preparing therapeutically active substances. 2,322,375; June 22.

Mallory, P. R., & Co. (See Hensel, Franz R., assignor.)

Maltby, Maurice E., Bell and L. L. Price, Los Angeles, Calif., assignor to Towl-Craft Co. Dispensing device. 2,322,531; June 22.

Mankoff, Henry J., Wichita, Kans. Rotor for feed grinding machines. 2,322,460; June 22.

Mariano, Florence, Chicago, Ill. Costume jewelry. 2,322,461; June 22.

Mark, Jacob G. (See Lanigan, F. W., and Mark.)

Marini, Herman R., New Kensington, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Laminated glass. 2,322,582; June 22.

Marinsky, Davis. (See Morin, Louis H., assignor.)

Marquardt, Ronald E., Monroeville, H. R. Anspach and C. A. Croteau, Fort Wayne, Ind. Check valve. 2,322,462; June 22.

Marshall, Arnold C., Thornton Heath, England. Clamp or coupling for connecting scaffold poles or other solid or hollow elongated bodies. 2,322,583; June 22.

Martin, Erle, West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Engine control means. 2,322,303; June 22.

Martin, Glenn L., Company, The. (See Overbeke, John W., assignor.)

Martin, Glenn L., Company, The. (See Verdechia, Anthony J., assignor.)

Martinson, Edwin O., Moline, Ill., assignor to American Machine and Metals Inc., New York, N. Y. Ventilator. 2,322,302; June 22.

Matousek, Edward, Berwyn, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Impulsing apparatus for signaling systems. 2,322,650; June 22.

May, J. W. (See Lindstrom, T., and May.)

Mayer, Charles W., Rochester, N. Y. Coating machine. 2,322,533; June 22.

McCleary, Rush F., and S. M. Roberts, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Lubricating oil. 2,322,376; June 22.

McClintock, John H., Cranford, N. J., assignor to Standard Oil Development Company. Refining mineral oils. 2,322,652; June 22.

McDonald, Allen T., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Lubricating system. 2,322,463; June 22.

McGarr-Turner Company. (See McGarr, Walter J., assignor.)

McGarr, Walter J., assignor to McGarr-Turner Company, Cordele, Ga. Head fastener for dip barrels. 2,322,534; June 22.

McGuire, Frank Jr., Bogota, N. J., assignor to The Linde Air Products Company. Heat treating apparatus. 2,322,305; June 22.

McHarg, Leslie, Huntington, N. Y. Door. 2,322,377; June 22.

McKee, Earl A., and J. A. Schachtell, Chicago, Ill. Grease retainer puller and the like. 2,322,464; June 22.

McKibben, George L. (See Zink, W. L., and McKibben.)

McLaren, Chester, Yuma, Ariz. Ice shaver and blower. 2,322,306; June 22.

McLaren, George A., Jr. (See Pike, N. R., Kelm, and McLaren.)

McLaughlin, Michael J., Ogden, Utah, assignor to American Can Company, New York, N. Y. Can closing machine. 2,322,246; June 22.

Mercantile-Commerce Bank and Trust Company, et al., trustees. (See Johnston, Harry, assignor.)

Mercier, Pierre E., New York, N. Y., assignor to Helfeda S. A., Geneva, Switzerland. Aircraft propeller drive. 2,322,247; June 22.

Merck & Co., Inc. (See Major, R. T., and Bonnett, assignors.)

Merrick, De Witt D., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cable structure. 2,322,378; June 22.

Messler, Homer J., New Bedford, Mass. Container. 2,322,535; June 22.

Metal Textile Corporation. (See Goodloe, Alfred M., assignor.)

Metals & Controls Corporation. (See Vaughan, V. G., and Bolesky, assignors.)

Middlebrook, William R. (See Phillips, H., and Middlebrook.)

Mihailoff, Sergei, San Francisco, Calif. Music device. 2,322,465; June 22.

Miller, Fred J., San Francisco, Calif. Sinker releasing device. 2,322,536; June 22.

Miller, William H., Washington, D. C. Combination selective scale. 2,322,248; June 22.

Milwaukee Gas Specialty Company. (See Alfery, Henry F., assignor.)

Minneci, Salvatore, Pontoosuc Lake, Mass., assignor to General Electric Company. Electric circuit. 2,322,249; June 22.

Mitchel, Charles F., assignor to Bastian Brothers Company, Rochester, N. Y. Lapel button. 2,322,698; June 22.

Mitchell, Doren, Bound Brook, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telautographic device. 2,322,653; June 22.

Mitscherling, Waldemar O., assignor to Reflecto Letters, Inc., New York, N. Y. Light reflecting device. 2,322,699; June 22.

Mize, Thomas H., et al., trustees. (See Daugherty, Fount F., assignor.)

Mizzy, Albert D. (See Molnar, Nicholas M., assignor.)

Molnar, Nicholas M., assignor to A. D. Mizzy, New York, N. Y. Hemostatic analgesic, and bactericidal composition of matter. 2,322,735; June 22.

Monsanto Chemical Company. (See Hitchens, Richard M., assignor.)

Montgomery, David E., Mirando City, Tex. Automatic valve. 2,322,304; June 22.

Montgomery, James V. (See Henry, R. W., Montgomery and Lawson.)

Moore Fabric Company. (See Moore, John V., assignor.)

Moore, George A., assignor to Humoco Corporation, Louisville, Ky. Container. 2,322,654; June 22.

Moore, John V., assignor to Moore Fabric Company, Pawtucket, R. I. Elastic binding tape. 2,322,382; June 22.

Moran, W. J., et al., trustees. (See Daugherty, Fount F., assignor.)

Morehead, French H., Riverside, Conn., assignor to Walworth Patents Inc., Boston, Mass. Lubricated plug valve. 2,322,379; June 22.

Morgan Construction Company. (See Morgan, Myles, assignor.)

Morgan, Leslie B., and W. M., Blackley, Manchester, England, assignors to Imperial Chemical Industries, Limited. Flocculose vinyl halide polymers. 2,322,309; June 22.

Morgan, Myles, assignor to Morgan Construction Company, Worcester, Mass. Billet sorting apparatus. 2,322,655; June 22.

Morgan, William M. (See Morgan, Leslie B. and W. M.)

Morin, Louis H., assignor of one-half to D. Marinsky, Bronx, N. Y. Separable fastener. 2,322,537; June 22.

Mosley, Walter O., Jr., North Zulch, Tex. Vise. 2,322,380; June 22.

Moss, Earl C. (See Fischer, E. A., and Moss.)

Motor Products Corporation. (See Mackey, Henry W., assignor.)

Moyer, Wendell W., Decatur, Ill., assignor to The Solvay Process Company, New York, N. Y. Treatment of organic compounds. 2,322,308; June 22.

Mueller, Otto, Dearborn, assignor to The Murray Corporation of America, Detroit, Mich. Rivet sticker. 2,322,381; June 22.

Murch, John H., East Orange, N. J., assignor to American Can Company, New York, N. Y. Can closing machine. 2,322,250; June 22.

Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener for trimming and like strips. 2,322,656; June 22.

Murray Corporation of America, The. (See Mueller, Otto, assignor.)

Murray Corporation of America, The. (See Widman, Charles H., assignor.)

Muskat, Irving E., M. A. Pollack and F. Strain, Akron, and W. A. Franta, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Alleghany County, Pa. Transparent barrier for vehicles. 2,322,310; June 22.

Mussey, Delavan S., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Structure. 2,322,700; June 22.

Muther, Lorenz F., Newton Center, Mass. Machine and method for assembling shells and perforated end members. 2,322,538; June 22.

Napier, D., & Son Limited. (See Halford, F. B., and Catford, assignors.)

Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Internal combustion engine control. 2,322,584; June 22.

Nash, J. M., Company. (See Lippold, Carl J., assignor.)

National Automative Fibres, Inc. (See Cunnington, George R., assignor.)

National Blank Book Company. (See Schade, Frank S., assignor.)

National Blank Book Company. (See Schade, John, assignor.)

National Rubber Machinery Company. (See Stricklen, John R., assignor.)

National Standard Company. (See Bailey, F. S., and Schone, assignors.)

National Standard Company. (See Kouyoumjian, Leon V., assignor.)

Nawoj, Edward J. (See Nesset, N. M., and Nawoj.)

Neeley, George L., and F. W. Kavanagh, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded oil. 2,322,307; June 22.

Neptune Meter Company. (See Hazard, Charles S., assignor.)

Nesset, Naurice M., Glenview, and E. J. Nawoj, Chicago, assignors to Baxter Laboratories, Inc., Glenview, Ill. Preparation of sterile tubing sets. 2,322,701; June 22.

Nettel, Friedrich, New York, N. Y. Apparatus for combustion turbines. 2,322,717; June 22.

New York Air Brake Company, The. (See Safford, Lewis A., assignor.)

Nichols Engineering & Research Corporation. (See Owen, Mark B., assignor.)
Nichols, Paul R., Chicago, Ill. Stock line recording means. 2,322,383; June 22.
Niederl, Joseph B., Brooklyn, N. Y. Carboxylated estrogenic hormones. 2,322,311; June 22.
Norton Company. (See Cole, R. A., and Johnson, assignors.)
Norton, Frank D. (See Stuart, J. F., W., and Norton.)
Nowka, Hans W., Rockaway Park, N. Y., assignor of one-half to O. I. Judelshon, Park Ridge, N. J. Mechanical movement. 2,322,539; June 22.
O'Callaghan, Robert D., Des Moines, Iowa. Emergency drive release for wringers or the like. 2,322,384; June 22.
Ojalvo, Edmond, New York, N. Y. Gas regulator pedal attachment. 2,322,585; June 22.
Oliver, Edwin L., Piedmont, assignor to Oliver United Filters Incorporated, Oakland, Calif. Filter. 2,322,586; June 22.
Oliver United Filters Incorporated. (See Oliver, Edwin L., assignor.)
Olsen, Anders C., Forest Hills, N. Y. Means for securing lath to channel furring. 2,322,567; June 22.
Ormond, John J., assignor of two-thirds to J. D. Ramsey, Boston, Mass. Making printing members. 2,322,540; June 22.
Osborn, Charles L., Cheyenne, Wyo. Windshield wiper. 2,322,312; June 22.
Osburn, Neild H. (See Sjoberg Thor, assignor.)
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling apparatus. 2,322,741; June 22.
Overbeke, John W., Anneslie, assignor to The Glenn L. Martin Company, Baltimore, Md. Valve. 2,322,658; June 22.
Overland Candy Corporation. (See Fay, Joseph W., assignor.)
Owen, Frederick C., Fayetteville, N. C. Welding apparatus. 2,322,709; June 22.
Owen, Mark B., Ardsley-on-Hudson, assignor to Nichols Engineering & Research Corporation, New York, N. Y. Incineration of liquid sewage sludge and the like. 2,322,659; June 22.
Packard Motor Car Company. (See Paton, Clyde R., assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Parker, Charles Company, The. (See Gearing, Charles M., assignor.)
Parsons, Harrison O., Houston, Tex. Device for gauging liquids in containers under pressure. 2,322,660; June 22.
Pasek, Walter L., St. Louis, Mo., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy. 2,322,541; June 22.
Patchett, George W., Egham, England. Percussion fuse for projectiles. 2,322,543; June 22.
Patent and Licensing Corporation, The. (See Jaros, Frank P., assignor.)
Paton, Clyde R., Birmingham, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,322,661; June 22.
Patterson, Donald G., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Surface covering compositions containing synthetic resins and producing same. 2,322,542; June 22.
Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Separator bar for warp stop motion. 2,322,385; June 22.
Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric warp stop contact means. 2,322,386; June 22.
Payne, Thomas F., Cincinnati, Ohio. Pipe joint. 2,322,587; June 22.
Pease, Harold C., assignor to Hamilton Watch Company, Lancaster, Pa. Surfacing device. 2,322,718; June 22.
Pelton, George E., assignor to I. S. Pelton, Middleburg, Va. Ink fountain typing machine. 2,322,737; June 22.
Pelton, Ida S. (See Pelton, George E., assignor.)
Pennsylvania Railroad Company, The. (See Jones, Lloyd B., assignor.)
Perry, William R., Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ohio. Belt. 2,322,466; June 22.
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Transmitting system and apparatus. 2,322,588; June 22.
Peterson, Thomas F., Brooklyn, N. Y. Shielded cable. 2,322,702; June 22.
Petrolite Corporation, Ltd. (See Wirtel, A. F., and Blair, assignors.)
Philco Corporation. (See Gerhard, Charles E., assignor.)
Philco Radio and Television Corporation. (See Farrow, Frederick R., Jr., assignor.)
Philippi, Theodore F., East St. Louis, Ill. Polishing machine. 2,322,589; June 22.
Phillips, Henry, and W. R. Middlebrook, Leeds, England. Treatment of wool to diminish shrinkage. 2,322,313; June 22.
Phillips Petroleum Company. (See Henry, R. W., Montgomery, and Lawson, assignors.)
Phillips Petroleum Company. (See Kaveler, Herman H., assignor.)
Pickering, Frank O. (See Pickering, Glenroy and F. O.)
Pickering, Glenroy and F. O., Marietta, Ohio. Window ventilator. 2,322,590; June 22.
Pierce, John B., Foundation. (See Groeniger, William C., assignor.)
Pike, Nathan R., New Rochelle, N. Y., P. H. Kelm, Fort Lee, and G. A. McLaren, Jr., West Englewood, N. J., assignors to Applied Sugar Laboratories, Inc., New York, N. Y. Sugar plasticizer product. 2,322,736; June 22.
Pitney, Earl H., Willmar, Minn. Automatic tuning mechanism for radio receivers. 2,322,387; June 22.
Pittsburgh Corning Corporation. (See Rapp, George M., assignor.)
Pittsburgh Plate Glass Company. (See Dennison, Brook J., assignor.)
Pittsburgh Plate Glass Company. (See Lytle, William O., assignor.)
Pittsburgh Plate Glass Company. (See Marini, Herman R., assignor.)
Pittsburgh Plate Glass Company. (See Muskat, I. E., Pollack, Strain, and Franta, assignors.)
Pneumatic Shear Company, The. (See Wilcox, Vincent A., assignor.)
Polin, Herbert S., New York, assignor of one-half to H. A. Furman, Schenectady, N. Y. Alarm indicator. 2,322,703; June 22.
Pollack, Maxwell A. (See Muskat, I. E., Pollack, Strain, and Franta.)
Pollard, Willard L., Evanston, Ill. Variable speed transmission. 2,322,251; June 22.
Pomeroy, Timothy C., Long Beach, Calif. Hydraulic jack. 2,322,314; June 22.
Powledge, Carl B., Norfolk, Va. Battery terminal. 2,322,388; June 22.
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Slack or cuttings removing attachment for kerf-cutting machines. 2,322,315; June 22.
Prazak, Emil. (See Kierner, Anton, assignor.)
Price, Laurence L. (See Maltby, M. E., and Price.)
Price, Stanley, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Carton. 2,322,389; June 22.
Proctor, B. A., Company. (See Proctor, Barton A., assignor.)
Proctor, Barton A., Larchmont, assignor to B. A. Proctor Company, Inc., New York, N. Y. Sound recording and reproducing device. 2,322,467; June 22.
Prutton, Carl F., Cleveland, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio. Lubricating composition. 2,322,209; June 22.
Radio Corporation of America. (See Goshaw, Irl R., assignor.)
Radio Corporation of America. (See Iams, Harley A., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Wentworth, Chandler, assignor.)
Ramsey, Joseph D. (See Ormond, John J., assignor.)
Rapp, George M., Mount Lebanon, assignor to Pittsburgh Corning Corporation, Allegheny County, Pa. Nonglare glass building block. 2,322,591; June 22.
Raybon, Sidney C., Pensacola, Fla. Engine structure. 2,322,662; June 22.
Reconstruction Finance Corporation. (See Geertz, E., and Getz, assignors.)
Reconstruction Finance Corporation. (See Getz, Charles A., assignor.)
Reconstruction Finance Corporation. (See Kuhles, Edward K., assignor.)
Redrup, Charles B., assignor to A. V. Roe & Company Limited, Middleton, Manchester, England. Pressure reducing valve. 2,322,468; June 22.
Reed, Jesse O., Washington, D. C., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office. Apparatus for washing oleoresin. 2,322,252; June 22.
Reeves Pulley Company. (See Perry, William R., assignor.)
Reflecto Letters, Inc. (See Mitscherling, Waldemar O., assignor.)
Rehm, Gustav A., assignor to Riley Stoker Corporation, Worcester, Mass. Steam generator. 2,322,390; June 22.
Rehnberg, Axel F. (See Walt, A. J., and Rehnberg.)
Reinhart, Theodore J., Maple Heights, Ohio. Ironing board. 2,322,392; June 22.
Rembert, Ernest W., Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Asbestos-cement pipe. 2,322,592; June 22.
Renstrom, Carl W., and E. Hoffmann, Omaha, Nebr. Hair curler. 2,322,253; June 22.
Repass, George E., Pawtucket, R. I., assignor to H & B American Machine Company. Former for paper string. 2,322,731; June 22.
Revere Camera Company. (See Sperry, P. F., and Briskin, assignors.)
Reynolds, Ellwood W., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Balancing means. 2,322,391; June 22.

Reynolds Metals Company. (See Cage, James, assignor.)
Reyrolle, A., & Company Limited. (See Kirkwood, I. W. A., and Ritchie, assignors.)
Rhodes, Idus L., et al., trustees. (See Daugherty, Fount F., assignor.)
Richardson, Sidney, Hollywood, and P. N. Hopkins, Burbank, Calif. Combination stereoscopic pictures and viewing device. 2,322,393; June 22.
Rickus, George M., and W. L. Braun, assignors to Hat Corporation of America, Norwalk, Conn. Hat and making the same. 2,322,254; June 22.
Rickus, George M., assignor to Hat Corporation of America, Norwalk, Conn. Fabric, hat and making the same. 2,322,255; June 22.
Riddington, Frederick W., and F. E. Finlayson, Ontario, Calif., assignors to General Electric Company. Pressing iron. 2,322,593; June 22.
Riley Stoker Corporation. (See Rehm, Gustav A., assignor.)
Ritchie, Patrick D. (See Kirkwood, I. W. A., and Ritchie.)
Roach, Vern S., Wichita, and R. A. Gray, Rock, assignors to H. H. Hurst, Wichita, Kans. Electric switch and control therefor. 2,322,732; June 22.
Roberts, Stiles M. (See McCleary, R. F., and Roberts.)
Robertson, Robert D., Santa Monica, Calif. Quick acting clamp. 2,322,471; June 22.
Robinson, Mayer R. (See Lawler, Frank P., assignor.)
Robson, Aubrey H., Detroit, Mich. Apparatus for air conditioning. 2,322,469; June 22.
Roby, Frank H., Milwaukee, Wis., assignor to Square D Company, Detroit, Mich. Electric switch. 2,322,663; June 22.
Roe, A. V., & Company Limited. (See Redrup, Charles B., assignor.)
Rojas, Juan J., San Francisco, Calif. Rotary brush. 2,322,470; June 22.
Roosevelt, Mayme, Detroit, Mich. Curtain stretcher. 2,322,317; June 22.
Rose, Millard O., Detroit, Mich. Bumping machine. 2,322,318; June 22.
Rouse, Benjamin H., Russell, assignor of one-third to F. B. Lee and C. T. Brown, jointly, and one-third to C. J. Wilson and M. C. Eddy, Hays, Kans., F. B. Lee, St. Louis, and C. T. Brown, Kansas City, Mo. Lubricating material and producing the same. 2,322,738; June 22.
Royal Typewriter Company. (See Kittel, John J., assignor.)
Rubens, Timothy, Farmington, assignor to Cheney Weeder Company, Cheney, Wash. Tillage implement. 2,322,256 June 22.
Rubenstein, Wilton. (See Johnston, Harry.)
Ruge, Arthur C., Cambridge, Mass. Strain responsive apparatus. 2,322,319; June 22.
Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Refining polymerized rosin and polymerized rosin esters. 2,322,316; June 22.
Ruperti, Andreas. (See Widmer, G., and Ruperti.)
Russell, Ralph C., Arden, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dispensing package. 2,322,594; June 22.
Russell, Robert P. (See Fischer, H. G. M., and Russell.)
Russell, Robert P., Short Hills, N. J., assignor to Standard Oil Development Company. Production of motor fuels. 2,322,664; June 22.
Ryan, Thomas A., Mount Vernon, assignor to Zadek-Feldstein Co., Inc., New York, N. Y. Child's feeding dish. 2,322,665; June 22.
Saco-Lowell Shops. (See Gwaltney, E. C., and West, assignors.)
Safford, Lewis A., Watertown, N. Y., assignor to The New York Air Brake Company. Lubricator. 2,322,544; June 22.
Sandström, Jacques R. E., Saint-Tropez, France; vested in the Alien Property Custodian. Device for changing the pH of fermentescible liquids. 2,322,545; June 22.
Sandvig, Rubin, Brooten, Minn. Combined power hay bucker and stacker. 2,322,472; June 22.
Saurer, Adolph, Aktiengesellschaft. (See Hahn, Erwin, assignor.)
Sayers, William W., Chicago, Ill., assignor to Link-Belt Company. Conveyer. 2,322,473; June 22.
Sayers, William W., Chicago, Ill., assignor to Link-Belt Company. Conveyer. 2,322,474; June 22.
Schachtell, Joseph A. (See McKee, E. A., and Schachtell.)
Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Ring binder construction. 2,322,596; June 22.
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf book construction. 2,322,595; June 22.
Scherbatskoy, Serge A., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well surveying method and apparatus. 2,322,478; June 22.
Schering Corporation. (See Dannenbaum, H., Inhoffen, and Hohlweg, assignors.)
Schering Corporation. (See Schoeller, W., and Inhoffen, assignors.)
Schjolin, Hans O., assignor, by mesne assignments, to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Torque converter interlocking control, automatic. 2,322,479; June 22.
Schmitz, Herman J., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cable support. 2,322,666; June 22.
Schoeller, Walter, Berlin-Charlottenburg, and Hans Herloff Inhoffen, Berlin-Wilmersdorf, Germany, assignors to Schering Corporation, Bloomfield, N. J. Enolic derivatives of steroids and making the same. 2,322,475; June 22.
Schone, Paul. (See Bailey, F. S., and Schone.)
Schultz, Alfred S. (See Atkin, L., Schultz, and Frey, assignors.)
Schultz, Alfred S., and L. Atkin, Bronx, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Yeast propagation. 2,322,320; June 22.
Schwarz, Herbert. (See Kurtz, P., and Schwarz.)
Scott, Charles H., Westport, Conn., assignor to The Dorr Company, New York, N. Y. Apparatus for the treatment of slurries or liquid solids mixtures. 2,322,719; June 22.
Scott, Charles H., and H. A. Linch, Westport, Conn., assignors to The Dorr Company, New York, N. Y. Apparatus for the treatment of liquid solids mixtures. 2,322,720; June 22.
Scullin Steel Co. (See Spenner, Fred H., assignor.)
Sears, Roebuck and Co. (See Zink, W. L., and McKibben, assignors.)
Seastone, John B., Wilkinsburg, and W. E. Mahin, Oakmont, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Mold and mold composition. 2,322,667; June 22.
Seltzer, Irving, Brooklyn, N. Y. Side brace for receptacles. 2,322,704; June 22.
Selvage, Harry H., Eureka, Calif. Animated electric bird and character. 2,322,668; June 22.
Semet-Solvay Engineering Corporation. See Brandon, George E., assignor.)
Sepin, Lee T., Los Angeles, Calif. Rim for tire retreading apparatus. 2,322,546; June 22.
Setterlund, Einar, Clifton, N. J. Razor-blade sharpening equipment. 2,322,321; June 22.
Seymour, George W., and G. C. Ward, Cumberland, Md. assignors to Celanese Corporation of America. Discharge printing of textiles. 2,322,323; June 22.
Seymour, George W., and G. C. Ward, Cumberland, Md., assignors to Celanese Corporation of America. Discharge printing of textiles. 2,322,322; June 22.
Shalla, Edmund F., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Punch and die mechanism. 2,322,547; June 22.
Sharpe, John S., Haverford, Pa. Mechanical movement. 2,322,394; June 22.
Shell Development Company. (See Thomas, Samuel B., assignor.)
Sheppard, Creedy C., Fort Lee, N. J. Mirror mounting. 2,322,395; June 22.
Shobert, Erle I., II, assignor to Stackpole Carbon Company, St. Marys, Pa. Generator regulator. 2,322,669; June 22.
Short, Thomas T., Fort Wayne, Ind., assignor to General Electric Company. Electric circuit. 2,322,597; June 22.
Shull Perforating Company. (See Dempsey, Robert M., assignor.)
Sigmund, Miroslav, Gosforth, Newcastle-on-Tyne, England. Filter. 2,322,548; June 22.
Simkins, Stephen V. R., Scotia, and E. E. Harris, Watervliet, N. Y., assignors to General Electric Company. Elastic fluid turbine arrangement. 2,322,598; June 22.
Singer Manufacturing Company, The. (See Hale, Arthur N., assignor.)
Sjoberg, Thor, Alhambra, assignor of one-half to N. H. Osburn, Pasadena, Calif. Motor vehicle. 2,322,477; June 22.
Slevin, Julian B., Jr., Drexel Hill, Pa. Carrier for containers. 2,322,396; June 22.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Loading device. 2,322,481; June 22.
Small, William E., assignor of one-third to L. Bishop, Miami, Fla., and one-third to T. B. Lehon, Chicago, Ill. Shutter structure. 2,322,705; June 22.
Smallpeice, Cosby D. P., and C. E. Curzons, Marton, near Rugby, England; said Curzons assignor to said Smallpeice. Pressure-reducing valve unit. 2,322,480; June 22.
Smith, A. O., Corporation. (See Heath, William C., assignor.)
Smith, A. O., Corporation. (See Uecker, Otto E., assignor.)
Smith, Clarence C., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,322,397; June 22.
Smith, George A. (See Kothny, G. L., and Smith.)
Smith, Henry C., assignor to Superior Hand Brake Company, Chicago, Ill. Winding drum. 2,322,398; June 22.
Snyder & Black, Inc. (See Hirschhorn, Hilmer, assignor.)
Sobleskie, Charles, Jessup, Pa. Safety razor. 2,322,476; June 22.
Societe D'Inventions Aeronautiques et Mecaniques S. I. A. M. (See Lévy, René L., assignor.)
Socony-Vacuum Oil Company, Incorporated. (See Kaneb, George T., assignor.)

Solo Products Corporation. (See Eisenman, Louis, assignor.)
Solvay Process Company, The. (See Moyer, Wendell W., assignor.)
Sorensen, Marius, Astoria, N. Y. Tilting switch alarm or signal. 2,322,549; June 22.
Sparks William J., Elizabeth, and D. C. Field, Berlant Park, N. J., assignors to Standard Oil Development Company. Resinous polymeric material. 2,322,670; June 22.
Specht, Siegfrid W., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Method of making welded tube. 2,322,671; June 22.
Spenner, Fred H., assignor to Scullin Steel Co., St. Louis, Mo. Truck side frame. 2,322,599; June 22.
Sperry, Helen B., executrix. (See Sperry, Philmore F.)
Sperry, Philmore F., deceased, and P. F. and J. Briskin, Chicago, Ill.; H. B. Sperry, executrix; said executrix assignor, by mesne assignments, to T. H., P. F., and J. Briskin. Camera and view finder means therefor. 2,322,399; June 22.
Sperry, Philmore F., Chicago, Ill., deceased; H. B. Sperry, executrix, assignor, by mesne assignments, to T. H., P. F., and J. Briskin. Film magazine positioning and ejecting mechanism. 2,322,400; June 22.
Sperry, Philmore F., deceased, and T. S. Briskin; H. B. Sperry, executrix, assignors to Revere Camera Company, Chicago, Ill. Motion picture camera construction. 2,322,401; June 22.
Sperry Products Inc. (See Crawford, Ernest A., assignor.)
Sperry Products, Inc. (See Jones, George L., assignor.)
Sperry Products, Inc. (See Zeitlin, Alexander, assignor.)
Sperry-Sun Well Surveying Company. (See Kothny, G. L., and Smith, assignors.)
Spitzner, Erich, Chicago, Ill. Game card. 2,322,324; June 22.
Square D Company. (See Jackson, J. G., and Kingdon, assignors.)
Square D Company. (See Roby, Frank H., assignor.)
Stackpole Carbon Company. (See Shobert, Erle I., II, assignor.)
Stahler, George H., Cleveland, Ohio. Holder for the staff of flags or the like. 2,322,600; June 22.
Stahly, Eldon E., and E. M. Hattox, Baton Rouge, La., assignors to Standard Oil Development Company. Production of motor fuels by alkylation. 2,322,482; June 22.
Standard Brands Incorporated. (See Atkin, L., Frey, and Schultz.)
Standard Brands Incorporated. (See Eakin, R. E., and Williams, assignors.)
Standard Brands, Incorporated. (See Schultz, A. S., Atkin, and Frey, assignors.)
Standard Catalytic Company. (See Fischer, H. G. M., and Russell, assignors.)
Standard Catalytic Company. (See Goodwin, Henry S., assignor.)
Standard Oil Company of California. (See Dayhuff, Walter C., assignor.)
Standard Oil Company of California. (See Neely, G. L., and Kavanagh, assignors.)
Standard Oil Development Company. (See Boucher, Frank G., assignor.)
Standard Oil Development Company. (See Howell, L. G., and Blau, assignors.)
Standard Oil Development Company. (See McClintock, John H., assignor.)
Standard Oil Development Company. (See Russell, Robert P., assignor.)
Standard Oil Development Company. (See Sparks, W. J., and Field, assignors.)
Standard Oil Development Company. (See Stahly, E. E., and Hattox, assignors.)
Standard Oil Development Company. (See Sweeney, William J., assignor.)
Standard Oil Development Company. (See Zenor, Hughes M., assignor.)
Stanolind Oil and Gas Company. (See Stuart, Robert W., assignor.)
Steele, James W., North Kansas City, Mo. Collar support. 2,322,672; June 22.
Stein, Michael R., and H. Karlin, New York, N. Y., assignors to Universal Dental Company, Philadelphia, Pa. Denture. 2,322,325; June 22.
Steinacher, Rudolph, New York, N. Y. Wrench. 2,322,550; June 22.
Steiner, Oscar, assignor to The Folmer Graflex Corporation, Rochester, N. Y. Shutter mechanism for photographic cameras. 2,322,733; June 22.
Steiner, Oscar, assignor to The Folmer Graflex Corporation, Rochester, N. Y. Reflex camera with grid shutter. 2,322,734; June 22.
Stiles, Herbert T., Suffield, Conn. Method of and apparatus for sterilizing milk. 2,322,721; June 22.
Stough, Gerald D. (See Huebshman, P., and Stough.)
Stout, Raymond K. (See Crane, C. J., Holloman, Stout, and Barbulesco.)
Strain, Franklin. (See Muskat, I. E., Pollack, Strain, and Franta.)
Strauss, Charles, assignor to Arvey Corporation, Chicago, Ill. Garment protector. 2,322,601; June 22.
Stricklen, John R., assignor to National Rubber Machinery Company, Akron, Ohio. Manufacturing insulated wire. 2,322,483; June 22.
Strosacker, Charles J., and F. C. Amstutz, assignors to The Dow Chemical Company, Midland, Mich. Dehydrohalogenation of halogenated organic compounds. 2,322,258; June 22.
Strube, Harry L., Philadelphia, Pa., assignor to Link-Belt Company. Conveyer. 2,322,485; June 22.
Stuart, Charles J., Winchester, assignor to Wellman Company, Medford, Mass. Locking mechanism. 2,322,402; June 22.
Stuart, John F. W., Manchester, and F. D. Norton, Cheadle, England. Clock. 2,322,257; June 22.
Stuart, Robert W., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Removing mud sheaths. 2,322,484; June 22.
Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article handling apparatus. 2,322,551; June 22.
Sturtevant, B. F., Company. (See Hagen, Harold F., assignor.)
Submarine Signal Company. (See Turner, Edwin E., Jr., assignor.)
Sullivan, George C. (See Ward, Earl M., assignor.)
Sullivan Machinery Company. (See Johansen, Harry C., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan Machinery Company. (See Vanderzee, H. H., and Felt, assignors.)
Sullivan Machinery Company. (See Vanderzee, Harry H., assignor.)
Sunshine Mining Company. (See Goetz, Alexander, assignor.)
Superior Hand Brake Company. (See Smith, Henry C., assignor.)
Superior Tube Company. (See Gabel, Richard H., assignor.)
Swallen, Lloyd C., Villa Park, Ill., and A. L. James, Tenafly, N. J., assignors to Corn Products Refining Company, New York, N. Y. Curing zein. 2,322,486; June 22.
Sweeney, William J., Elizabeth, N. J., assignor to Standard Oil Development Company. Treating hydrocarbon fluids. 2,322,673; June 22.
Sweetland, Ernest J., Piedmont, Calif. Dispensing apparatus. 2,322,552; June 22.
Sylvania Electric Products Inc. (See Albright, Charles L., assignor.)
Sylvania Electric Products Inc. (See Bovio, Albert T., assignor.)
Sylvania Electric Products Inc. (See Cox, James L., assignor.)
Sylvania Electric Products Inc. (See Dreyfuss, Henry, assignor.)
Sylvania Electric Products Inc. (See Gates, Paul E., assignor.)
Sylvania Electric Products Inc. (See Holman, George E., assignor.)
Taylor, Leonard, Rochdale, England. Friction clutch. 2,322,326; June 22.
Terry, Bennett F., Stamford, Conn. Recording device. 2,322,602; June 22.
Texas Company, The. (See McCleary, R. F., and Roberts, assignors.)
Thomas, Samuel B., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Dressing of earth minerals. 2,322,674; June 22.
Thompson Bros. Shoe Co. (See Macdonald, L. S., and Johnson, assignor.)
Thompson, Clyde L. (See Birch, R. E., and Thompson.)
Thumim, Carl, Yeadon, and P. Bartlett, Springfield, Pa., assignors to General Electric Company. Air drying apparatus. 2,322,603; June 22.
Thurston, Fred W., Carmel, Calif. Line indicating copyholder. 2,322,259; June 22.
Thurston, Fred W., Chevy Chase, Md. Line indicating copyholder. 2,322,260; June 22.
Thurston, Fred W., Chevy Chase, Md. Line indicating copyholder. 2,322,261; June 22.
Tide Water Associated Oil Company. (See Winding, Charles C., assignor.)
Timmins, Leo H., Montreal, Quebec, assignor to Chromium Mining and Smelting Corpn., Limited, Sault Ste., Marie, Ontario, Canada. Production of ferro-alloys substantially free of gangue materials. 2,322,327; June 22.
Toftey, Joseph A., Kanawha, Iowa. Sweep rake stacker and loader. 2,322,487; June 22.
Tomalis, Joseph J., assignor to American Screw Company, Providence, R. I. Cold heading machine. 2,322,262; June 22.
Towl-Craft Co. (See Maltby, M. E., and Price, assignor.)
Traylor Vibrator Company, The. (See Baird, Clyde W., assignor.)
Tuft, Miles H., assignor to Deere & Company, Moline, Ill. Rod weeder. 2,322,328; June 22.
Turco Products, Inc. (See Hunter, Donald P., assignor.)
Turner, Edwin E., Jr., West Roxbury, assignor to Submarine Signal Company, Boston, Mass. Electromagnetic recording mechanism. 2,322,263; June 22.

Turner, Edwin E., Jr., West Roxbury, assignor to Submarine Signal Company, Boston, Mass. Apparatus for echo distance measurement. 2,322,264; June 22.
Tuttle, George A. (See Hansen, Lee R., assignor.)
U. S. Industrial Alcohol Co. (See Fisher, Harry L., assignor.)
Uecker, Otto E., assignor to A. O. Smith Corporation, Milwaukee, Wis. Glass lined hot water tank. 2,322,488; June 22.
United Aircraft Corporation. (See Martin, Erle, assignor.)
United-Carr Fastener Corporation. (See Bedford, William A., Jr., assignor.)
United-Carr Fastener Corporation. (See Jones, Walter I., assignor.)
United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)
United Shoe Machinery Corporation. (See Gouldbourn, Joseph, assignor.)
United Shoe Machinery Corporation. (See Jalbert, Adrien L., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Gypsum Company. (See Bailard, Bernard T., assignor.)
United States Rubber Company. (See Bull, Arthur W., assignor.)
Union Special Machine Company. (See Smith, Clarence C., assignor.)
Universal Dental Company. (See Stein, M. R., and Karlin, assignors.)
Universal Oil Products Company. (See Gerhold, C. G., and Flock, assignor.)
Universal Oil Products Company. (See Kassel, Louis S., assignor.)
Universal Paper Products Company. (See Amberg, Walter E., assignor.)
Van der Kieft, Patricia E., Darien, Conn. Vehicle attachment. 2,322,403; June 22.
Vanderzee, Harry H., Claremont, N. H., and A. E. Felt, Marquette, Mich., assignors to Sullivan Machinery Company. Hydraulically operated apparatus. 2,322,740; June 22.
Vanderzee, Harry H., Michigan City, Ind., assignor to Sullivan Machinery Company. Hydraulically operated apparatus. 2,322,739; June 22.
Van Norstrand, Ralph E., Suffield, Conn. Cigarette extinguisher. 2,322,604; June 22.
Vaughan, Victor G., and J. D. Bolesky, assignors to Metals & Controls Corporation, Attleboro, Mass. Control means. 2,322,675; June 22.
Venn, Adrien G., San Francisco, Calif. Flare. 2,322,329; June 22.
Verdechia, Anthony J., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Wire tagging machine. 2,322,605; June 22.
Vincent, Jesse G., Grosse Pointe, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,322,676; June 22.
Von Madaler, Ferdinand, Los Angeles, Calif. Selective projector and sound reproducer. 2,322,489; June 22.
Vroom, Edward, Ossining, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,322,330; June 22.
Wald, George F., North Olmstead, Ohio, assignor to The American Steel and Wire Company of New Jersey. Continuous supply reel for wire processing machines. 2,322,607; June 22.
Wallace, Jeffrey J., assignor to Gullett Gin Company, Amite, La. Air blast gin with valve controlled pneumatic mote discharge. 2,322,553; June 22.
Walsh, Ralph, Los Angeles, Calif. Handicap computer. 2,322,331; June 22.
Wait, Albert J., Aurora, and A. F. Rehnberg, Rockford, Ill., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Apparatus for producing multiply tubing. 2,322,677; June 22.
Walworth Patents Inc. (See Morehead, French H., assignor.)
Ward, Charles. (See Hansen, Lee R., assignor.)
Ward, Earl M., Los Angeles, assignor of twenty-five per cent to G. C. Sullivan, Hollywood, Calif. Internal combustion engine. 2,322,606; June 22.
Ward, George C. (See Seymour, G. W., and Ward.)
Ware Shoals Manufacturing Co. (See Hunt, John O., assignor.)
Watson-Williams Manufacturing Company. (See Johnson, John E., assignor.)
Waukesha Motor Company. (See Carson, T. L., and Brown, assignors.)
Web Appliance Company, The. (See Luce, John S., assignor.)
Webb, George, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Trigger safety for automatic firearms. 2,322,490; June 22.
Webster, Sidney H., Bogota, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,322,608; June 22.
Weinaug, Fred, Sheboygan, Wis. Ski attachment. 2,322,497; June 22.
Weisglass, Louis L., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Metering circuit for X-ray apparatus. 2,322,404; June 22.
Well Surveys, Incorporated. (See Scherbatskoy, Serge A., assignor.)
Wellman Company. (See Stuart, C. J., assignor.)
Wengler, Frank, Remsen, Iowa. Grain guide and retarder for binders. 2,322,706; June 22.
Wentworth, Chandler, Haddon Heights, N. J., assignor to Radio Corporation of America. Pereability tuning system. 2,322,722; June 22.
West, Paul B. (See Gwaltney, E. C., and West.)
Westerfield, James A., Beaver Dam, Ky. Buckle. 2,322,609; June 22.
Western Electric Company. (See Burger, Michael J., assignor.)
Western Electric Company. (See Fischer, E. A., and Moss, assignors.)
Western Electric Company. (See Fruth, Hal F., assignor.)
Western Electric Company. (See Merrick, De Witt D., assignor.)
Western Electric Company. (See Price, Stanley, assignor.)
Western Electric Company. (See Reynolds, Ellwood W., assignor.)
Western Electric Company. (See Schmitz, Herman J., assignor.)
Western Electric Company. (See Shalla, Edmund F., assignor.)
Western Electric Company. (See Stull, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baird, Stuart R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dorfman, Hiller D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jernstedt, George W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kalischer, Milton, assignor.)
Westinghouse Electric & Manufacturing Company. (See King, G. E., and Formhals, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kleeman, Francis S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lindstrom, T., and May, assignors.)
Westinghouse Electric & Manufacturing Company. (See Seastone, J. B., and Mahin, assignors.)
Westinghouse Electric & Manufacturing Company. (See Weisglass, Louis L., assignor.)
Wetzler, Max E., Long Island City, N. Y. Hold-down clamp. 2,322,707; June 22.
Weyl, Woldemar A., State College, Pa., assignor to American Optical Company, Southbridge, Mass. Yellow fluorescent material and making the same. 2,322,265; June 22.
Whitcomb, Arthur J., and G. Fox, assignors to Freyn Engineering Company, Chicago, Ill. Blast furnace distributor control. 2,322,406; June 22.
White, Charles H., assignor to Deere & Company, Moline, Ill. Planter. 2,322,332; June 22.
White, Everett H., St. Paul, Minn. Air conditioning system. 2,322,405; June 22.
Whitehead, George L., Huntingdon, Pa. Automatized accounting medium. 2,322,678; June 22.
Whitehead & Kales Company. (See Huebshman, P., and Stough, assignors.)
Wickes Bros. (See Floeter, Frederick S., assignor.)
Widman, Charles H., assignor to The Murray Corporation of America, Detroit, Mich. Tub construction. 2,322,407; June 22.
Widmer, Gustave, Basel, and A. Ruperti, Arlesheim, Switzerland, assignors, by mesne assignments, to Ciba Products Corporation, Dover, Del. Improving fastness of dyeings. 2,322,333; June 22.
Wilcox, Vincent A., Modesto, assignor to The Pneumatic Shear Company, Turlock, Calif. Motor for sheep shearing devices. 2,322,619; June 22.
Williams, Arthur L., Maywood, Calif. Electrical coupling. 2,322,491; June 22.
Williams, Harry O., Kansas City, Mo. Automatic brake adjusting means. 2,322,492; June 22.
Williams, Roger J. (See Eakin, R. E., and Williams.)
Williamson, Al B., Corpus Christi, Tex. Rotating blowout preventer. 2,322,679; June 22.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, Philadelphia, Pa. Railway car truck and its brake mechanism. 2,322,266; June 22.
Wilson, Clair J., et al. (See Rouse, Benjamin H., assignor.)
Wilson, H. A., Company, The. (See Howard, Ernest R., assignor.)
Wilson, William H., assignor to Fruit & Vegetable Processing Co., Santa Monica, Calif. Article for use in the treatment of leafy vegetables. 2,322,493; June 22.
Winding, Charles C., Ithaca, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Adsorbent and treatment of oil therewith. 2,322,555; June 22.
Winding, Charles C., Ithaca, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Oil refining. 2,322,554; June 22.
Winkler, Bruno E., Detroit, Mich. Welding gun. 2,322,611; June 22.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Leveling machine. 2,322,334; June 22.

Wirtel, Arthur F., Kirkwood, and C. M. Blair, Jr., Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,322,494; June 22.
Wood, Neal S., et al., trustees. (See Daugherty, Fount F., assignor.)
Woodard, Roger E., Campello, and A. C. MacLean, Braintree, assignors, by mesne assignments, to Robert Channing Company, East Bridgewater, Mass. Shoe form. 2,322,267; June 22.
Workman, Walter J., Chicago, Ill. Fuel burner. 2,322,496; June 22.
Wright, Richard H., Cleveland Heights, Ohio. Black-out Venetian blind. 2,322,612; June 22.
Wurlitzer, Rudolph, Company, The. (See Walt, A. J., and Rahnberg, assignors.)
Wurtz, Clifford H., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,322,495; June 22.
Yale & Towne Manufacturing Company, The. (See Archer, Sylvanus M., assignor.)
Yellow Truck & Coach Manufacturing Company. (See Schjolin, Hans O., assignor.)
Young, Charles D., Haverford, Pa. Spring suspension for railway trucks and the like. 2,322,680; June 22.
Young, David W., Roselle, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Organic insecticide composition. 2,322,723; June 22.
Youngstown Sheet and Tube Company, The. (See Specht, Sigfrid W., assignor.)
Zadek-Feldstein Co. (See Ryan, Thomas A., assignor.)
Zeitlin, Alexander, New York, N. Y., assignor, by mesne assignments, to Sperry Products, Inc. Generating balancing signals. 2,322,498; June 22.
Zenor, Hughes M., Houston, Tex., assignor to Standard Oil Development Company. Condenser gravity meter. 2,322,681; June 22.
Ziebolz, Herbert, assignor to Electronbeam, Incorporated, Chicago, Ill. Electronic relay. 2,322,556; June 22.
Zink, William, Plano, and G. L. McKibben, Kankakee, assignors to Sears, Roebuck and Co., Chicago, Ill. Tractor implement. 2,322,268; June 22.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cleaner, Vacuum. W. E. Bible. Re. 22,336; June 22.
Seal, Fluid. D. O. Johnson and A. F. Anderson. Re. 22,337; June 22.
Synchronizer, Photoflash. S. Mendelsohn. Re. 22,338; June 22.

LIST OF PLANT INVENTIONS

Tree, Peach. P. B. Hoffman. 593; June 22.

LIST OF DESIGN INVENTIONS

Airplane, Bombardment. P. H. Kemmer, C. S. Butt, Jr., and C. E. Reichert. 135,852; June 22.
Badge or similar article. R. L. Ragan. 135,865; June 22.
Blueprint machine. H. J. Brunk. 135,870; June 22.
Building. E. W. Jarman. 135,861; June 22.
Candle and music box, Combined. R. A. Ajello. 135,847; June 22.
Coffee maker, One cup drip. J. Block. 135,841; June 22.
Fish lure or similar article. J. W. Harvey. 135,850; June 22.
Grate. R. M. O'Brien. 135,858; June 22.
Handbag. J. F. Keene. 135,857; June 22.
Hat. H. Siegelbaum. 135,867; June 22.
Heater unit, Portable. D. H. Powers. 135,859; June 22.
Heating unit, Portable. H. B. Holthouse. 135,862; June 22.
Heel, elongated shank, and sole, Combined. J. W. McGee. 135,864; June 22.
Holder, Card. A. M. Ferrier. 135,871; June 22.
Kitchen unit, Combination. H. C. Doner. 135,842; June 22.
Latticework. L. W. Cohn. 135,853; June 22.
Overall or similar article. V. F. Carlucci. 135,860; June 22.
Pipe, Smoking. W. N. Snider. 135,868; June 22.
Puzzle. J. W. Drueke. 135,848; June 22.
Shearing device, Sheep. V. A. Wilcox. 135,846; June 22.
Shoe. J. Sandler. 135,866; June 22.
Skirt, Wrap-around. E. J. Gerli. 135,872; June 22.
Slip. M. Brown. 135,869; June 22.
Spoon or other article of flatware. J. R. Price. 135,843–4; June 22.
Suit, Slacks. M. Kay. 135,863; June 22.
Tire, Nonskid. E. Hayes. 135,851; June 22.
Toy. J. E. Gibson. 135,849; June 22.
Tube, Vacuum. W. W. Eitel and J. A. McCullough. 135,854–6; June 22.
Wrench or similar article. C. M. Mayo. 135,845; June 22.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abscission, Retarding. J. F. Adams. 2,322,409; June 22.
Accessory, Automobile. J. Fischer. 2,322,431; June 22.
Acids, Manufacture of esters of mononitriles of dicarboxylic. B. S. Biggs. 2,322,273; June 22.
Acrylic acid nitrile derivatives, Manufacture of. P. Kurtz and H. Schwarz. 2,322,696; June 22.
Adsorbents and treatment of oil therewith. C. C. Winding. 2,322,555; June 22.
Aircraft. T. Kloeren. 2,322,715; June 22.
Aircraft automatic take-off, flight, and landing. C. J. Crane, G. Y. Holloman, R. K. Stout, and C. D. Barbulesco. 2,322,225; June 22.
Air drying apparatus. C. Thumim and P. Bartlett. 2,322,603; June 22.
Alarm indicator. H. S. Polin. 2,322,703; June 22.
Alarm or signal, Tilting switch. M. Sorensen. 2,322,549; June 22.
Amines, Production of aromatic. H. L. Fisher. 2,322,572; June 22.
Aminoplast, Plasticized. G. F. D'Alelio. 2,322,567; June 22.
Aminoplast modified with oxanilic acid. G. F. D'Alelio. 2,322,566; June 22.
Amplifier, Optical. W. L. Fischer. 2,322,231; June 22.
Amplifier, Signal. H. M. Lewis. 2,322,528; June 22.
Apparatus for air conditioning. A. H. Robson. 2,322,469; June 22.
Apparatus for coating fluorescent lamps. C. L. Albright. 2,322,211; June 22.
Apparatus for combustion turbines. F. Nettel. 2,322,717; June 22.
Apparatus for controlling oil wells. H. H. Kaveler. 2,322,453; June 22.
Apparatus for converting high-phosphorous pig iron into high-grade low-phosphorus steel. B. E. L. De Maré. 2,322,618; June 22.
Apparatus for deposition of metals by thermal evaporation in vacuum. P. Alexander. 2,322,613; June 22.
Apparatus for echo distance measurement. E. E. Turner, Jr. 2,322,264; June 22.
Apparatus for lamp stem manufacture. P. E. Gates. 2,322,728; June 22.
Apparatus for making basket covers. O. M. James. 2,322,363; June 22.
Apparatus for making tubular electrodes. R. H. Gabel. 2,322,290; June 22.
Apparatus for producing multiply tubing. A. J. Walt and A. F. Rehnberg. 2,322,677; June 22.
Apparatus for the control of the ignition internal combustion engines. F. B. Halford and A. L. Catford. 2,322,690; June 22.
Apparatus for the treatment of liquid solids mixtures. C. H. Scott and H. A. Linch. 2,322,720; June 22.
Apparatus for the treatment of slurries or liquid solids mixtures. C. H. Scott. 2,322,719; June 22.
Apparatus for washing ocoresin. J. O. Reed. 2,322,252; June 22.
Anchor, Rail. C. F. Gallor. 2,322,742; June 22.
Article for use in the treatment of leafy vegetables. W. H. Wilson. 2,322,493; June 22.
Article handling apparatus. J. S. Stull. 2,322,551; June 22.
Asbestos-cement pipe. E. W. Rembert. 2,322,592; June 22.
Asphalt saturant, Non-foaming. H. S. Goodwin. 2,322,629; June 22.
Attachment, Vehicle. P. E. Van der Kieft. 2,322,403; June 22.
Automatic balancing of rotating bodies. J. E. Bevins and H. Konet. 2,322,561; June 22.
Automatic valve. D. F. Montgomery. 2,322,304; June 22.
Automatized accounting medium. G. L. Whitehaad. 2,322,678; June 22.
Auxiliary brake operator for vehicles. W. N. Andrews. 2,322,499; June 22.
Axial flow compressor plant. A. Baumann. 2,322,338; June 22.
Bag: *See*—
  Lady's knitting and shopping bag.
Bailer, Dumping. R. M. Dempsey. 2,322,425; June 22.
Balancing signals, Generating. A. Zeitlin. 2,322,498; June 22.
Barge loading and unloading apparatus. G. E. Brandon. 2,322,504; June 22.
Barrier for vehicles, Transparent. I. E. Muskat, M. A. Pollack, F. Strain, and W. A. Franta. 2,322,310; June 22.
Battery. B. N. Adams. 2,322,210; June 22.
Battery terminal. C. B. Powledge. 2,322,388; June 22.
Bead stringing. G. T. Kaneb. 2,322,730; June 22.
Bearing structure for relays and the like. H. C. Harrison. 2,322,292; June 22.
Bed. O. T. Fox and M. B. Dillon. 2,322,512; June 22.
Belt. W. R. Perry. 2,322,466; June 22.
Blade pitch-control, Airplane. H. A. Frazier. 2,322,352; June 22.
Blind, Black-out Venetian. R. H. Wright. 2,322,612; June 22.
Blowout preventer. H. Allen. 2,322,269; June 22.
Blowout preventer, Rotating. A. B. Williamson. 2,322,679; June 22.
Board: *See*—
  Ironing board. Punch board.
Bonding. N. W. Cole. 2,322,507; June 22.
Boot or shoe. L. S. Macdonald and O. N. Johnson. 2,322,532; June 22.
Bottle closure. J. M. Leatherman. 2,322,527; June 22.
Bow for the tarpaulin of platform vehicles. E. J. Deisley. 2,322,424; June 22.
Box: *See*—
  Cellular box. Miter box.
Brace for receptacles, Side. I. Seltzer. 2,322,704; June 22.
Brake: *See*—
  Reversible magnetic brake.
Brake adjusting means, Automatic. H. O. Williams. 2,322,492; June 22.
Brake and selector valve, Combined. M. W. Huber. 2,322,518; June 22.
Brake apparatus for railway cars. W. T. Johnson and M. L. Farrell. 2,322,449; June 22.
Brush, Rotary. J. J. Rojas. 2,322,470; June 22.
Buckle. J. A. Westerfield. 2,322,609; June 22.
Building block, Nonglare glass. G. M. Rapp. 2,322,591; June 22.
Bulldozer attachment, Demountable. C. D. Forte. 2,322,432; June 22.
Bumping machine. M. O. Rose. 2,322,318; June 22.
Burner: *See*—
  Fuel burner.
Burner control apparatus. H. F. Alfery. 2,322,410; June 22.
Button, Lapel. C. F. Mitchel. 2,322,698; June 22.
Cabinet for rolled webs of paper and the like, Dispensing. A. G. Krueger. 2,322,456; June 22.
Cable support. H. J. Schmitz. 2,322,666; June 22.
Cables, Shielded. T. F. Peterson. 2,322,702; June 22.
Calendering mechanism for card sliver working machines. E. C. Gwaltney and P. B. West. 2,322,711; June 22.
Camera and view finder means therefor. P. F. Sperry, P. F. and J. Briskin. 2,322,399; June 22.
Camera construction, Motion picture. P. F. Sperry, H. B. Sperry, and T. S. Briskin. 2,322,401; June 22.
Can closing machine. M. J. McLaughlin. 2,522,246; June 22.
Can closing machine. J. H. Murch. 2,322,250; June 22.
Canned foods, Processing. A. R. Kennedy. 2,322,693; June 22.
Can testing machine. J. Feher. 2,322,230; June 22.
Carbonyl compounds of the cyclopentanopolyhydro phenanthrene series and a method of producing the same. H. Dannenbaum, H. H. Inhoffen, and W. Hohlweg. 2,322,227; June 22.
Carrier for containers. J. B. Slevin, Jr. 2,322,396; June 22.
Carton. S. Price. 2,322,389; June 22.
Castings, Treating. W. G. Edwards. 2,322,288; June 22.
Cellular bodies, Manufacture of. W. O. Lytle. 2,322,581; June 22.
Cellular box. H. J. Kramer. 2,322,239; June 22.
Cellulose product. S. M. Edelstein. 2,322,427; June 22.
Check for looms, Picker stick. J. C. Crocker. 2,322,685;
Check valve. R. E. Marquardt, H. R. Anspach, and C. A. Croteau. 2,322,462; June 22.
Chemical production of potable water from nonpotable saline water. A. Goetz. 2,322,689; June 22.
Chuck, Lathe. F. S. Floeter. 2,322,623; June 22.
Chuck operating mechanism. G. A. Highberg and H. Hickey. 2,322,440; June 22.
Cigarette extinguisher. R. E. van Norstrand. 2,322,604; June 22.
Circuit: *See*—
  Electric circuit.
Circuit breaker. H. D. Dorfman. 2,322,285; June 22.
Circuit breaker. T. Lindstrom and J. W. May. 2,322,301; June 22.

Clamp: *See*—
  Hold-down clamp. Quick acting clamp.
Clamp or coupling for connecting scaffold poles or other solid or hollow elongated bodies. A. C. Marshall. 2,322,583; June 22.
Cleaner: *See*—
  Sewer cleaner. Vacuum cleaner.
Clock. J. F. W. Stuart and F. D. Norton. 2,322,257; June 22.
Clutch: *See*—
  Friction clutch.
Clutch structure, Hydraulic. A. Kuhns and E. R. Gasser. 2,322,577; June 22.
Coating apparatus for gaseous discharge lamps. G. E. Holman. 2,322,729; June 22.
Coating composition. F. W. Lanigan and J. G. Mark. 2,322,242; June 22.
Coating machine. C. W. Mayer. 2,322,533; June 22.
Coating on magnesium and its alloys, Providing a protective. W. S. Loose and H. K. De Long. 2,322,208; June 22.
Coin changer, Mechanical. J. E. Hagstrom. 2,322,234; June 22.
Coin detecting apparatus. A. E. Gebert and F. C. Black. 2,322,434; June 22.
Cold heading machine. J. J. Tomalis. 2,322,262; June 22.
Collapsible tube container. W. E. Amberg. 2,322,213; June 22.
Collar support. J. W. Steele. 2,322,672; June 22.
Combination lock. S. M. Archer. 2,322,724; June 22.
Combined power hay bucker and stacker. R. Sandvig. 2,322,472; June 22.
Combined vacuum breaker and check valve. W. C. Groeniger. 2,322,631; June 22.
Compensator for firearms, Lift. R. C. Lance. 2,322,370; June 22.
Composition for the treatment of ivy poisoning. R. M. Cole. 2,322,565; June 22.
Concealed hinge for automobile doors. C. Dumelin. 2,322,286; June 22.
Concrete placement machine. C. Jackson. 2,322,362; June 22.
Condenser gravity meter. H. M. Zenor. 2,322,681; June 22.
Connector: *See*—
  Electrical connector.
Connector. A. D. Blanchard. 2,322,562; June 22.
Container: *See*—
  Collapsible tube container. Refuse container.
  Fireproof shipping container.
Container. H. J. Messier. 2,322,535; June 22.
Container. G. A. Moore. 2,322,654; June 22.
Control apparatus. R. P. Lowe. 2,322,374; June 22.
Control means. V. G. Vaughan and J. D. Bolesky. 2,322,675; June 22.
Control means, Tone. W. S. Bachman. 2,322,558; June 22.
Control system. C. W. Baird. 2,322,218; June 22.
Conveyer. W. W. Sayers. 2,322,473–4; June 22.
Conveyer. H. L. Strube. 2,322,485; June 22.
Conveyer for drying ovens. L. V. Kouyoumjian. 2,322,299; June 22.
Copyholder, Line indicating. F. W. Thurston. 2,322,259–60–1; June 22.
Corn fork, Green. D. C. Bowman. 2,322,503; June 22.
Corn, Steeping. J. P. Bishop and W. F. Henry. 2,322,413; June 22.
Coupler. N. Hudson. 2,322,446; June 22.
Coupling: *See*—
  Electrical.
Covering for airfoil surfaces. W. Harper, Jr. 2,322,632; June 22.
Crane attachment for tractors. F. P. Lawler. 2,322,697; June 22.
Crankshaft grinding machine. R. A. Cole and F. E. Johnson. 2,322,727; June 22.
Crude petroleum, Stabilizing. P. C. Keith, Jr. 2,322,635; June 22.
Curing zein. L. C. Swallen and A. L. James. 2,322,486; June 22.
Curler, Hair. C. W. Renstrom and E. Hoffmann. 2,322,253; June 22.
Cushioning device. L. B. Jones. 2,322,642; June 22.
Cutter: *See*—
  Side milling cutter.
Dehydrohalogenation of halogenated organic compounds. C. J. Strosacker and F. C. Amstutz. 2,322,258; June 22.
Denture. M. R. Stein and H. Karlin. 2,322,325; June 22.
Detector, Tubing wear. A. H. Brandon. 2,322,343; June 22.
Device, Combination stereoscopic pictures and viewing. S. Richardson and P. N. Hopkins. 2,322,393; June 22.
Device for boats, Antigrounding. C. A. Goins. 2,322,628; June 22.
Device for changing the pH of fermentescible liquids. J. R. E. Sandström. 2,322,545; June 22.
Device for folding doors, Control. R. L. Lévy. 2,322,372; June 22.
Device for gauging liquids in containers under pressure. H. O. Parsons. 2,322,660; June 22.
Device for liquids, Measuring. F. W. Guibert and F. B. Fuller. 2,322,436; June 22.
Device for loom shuttles, Thread tension. J. E. Johnson. 2,322,364; June 22.
Device for transmitting the movement of a cam to another part of a machine tool. A. Bechler. 2,322,340; June 22.
Device, Spray. D. P. Hunter. 2,322,296; June 22.
Die: *See*—
  Shoe sole punching die.
Dielectric material. H. F. Fruth. 2,322,353; June 22.
Directional valve and control mechanism therefor, Weight operated. E. K. Kuhles. 2,322,639; June 22.
Dispensing apparatus. E. J. Sweetland. 2,322,552; June 22.
Dispensing device. M. E. Maltby and L. L. Price. 2,322,531; June 22.
Display device. H. Hirschhorn. 2,322,713; June 22.
Door. L. McHarg. 2,322,377; June 22.
Door handle. A. L. Birdsall and G. V. Jakeway. 2,322,275; June 22.
Drill: *See*—
  Rock drill.
Drilling apparatus. H. C. Johansen. 2,322,237; June 22.
Drilling apparatus. C. F. Osgood. 2,322,741; June 22.
Drum, Winding. H. C. Smith. 2,322,398; June 22.
Dust collector, Venturi. W. S. Bowen. 2,322,414; June 22.
Dyeings, Improving fastness of. G. Widmer and A. Ruperti. 2,322,333; June 22.
Electric bird and character, Animated. H. H. Selvage. 2,322,668; June 22.
Electric circuit. S. Minneci. 2,322,249; June 22.
Electric circuit. T. T. Short. 2,322,597; June 22.
Electric condenser bushing. I. W. A. Kirkwood and P. D. Ritchie. 2,322,215; June 22.
Electric discharge lamp. J. L. Cox. 2,322,224; June 22.
Electric discharge lamp. J. L. Cox. 2,322,421; June 22.
Electric switch. F. H. Roby. 2,322,663; June 22.
Electric switch and control therefor. V. S. Roach and R. A. Gray. 2,322,732; June 22.
Electric warp stop contact means. O. V. Payne. 2,322,386; June 22.
Electrical connector. E. Dehmel. 2,322,686; June 22.
Electrical coupling. A. L. Williams. 2,322,491; June 22.
Electrical distribution, System of. A. E. Anderson. 2,322,557; June 22.
Electrically insulating bodies. I. W. A. Kirkwood and P. D. Ritchie. 2,322,214; June 22.
Electroacoustic transducer. F. R. Farrow, Jr. 2,322,621; June 22.
Electromagnet. L. J. Goldberg. 2,322,574; June 22.
Electronic device. H. A. Iams. 2,322,361; June 22.
Electronic relay. H. Ziebolz. 2,322,556; June 22.
Emulsions, Breaking petroleum. A. F. Wirtel and C. M. Blair, Jr. 2,322,494; June 22.
Engine: *See*—
  Internal combustion engine.
Engine control means. E. Martin. 2,322,303; June 22.
Engine starting mechanism. S. H. Webster. 2,322,608; June 22.
Enolic derivatives of steroids and making the same. W. Schoeller and H. H. Inhoffen. 2,322,475; June 22.
Equipment, Razor-blade sharpening. E. Setterlund. 2,322,321; June 22.
Esters, Preparation of cellulose mixed. J. W. Hill. 2,322,575; June 22.
Extractor: *See*—
  Radio tube extractor.
Fabric, hat, and making the same. G. M. Rickus. 2,322,255; June 22.
Fabrics, Making decorative. G. R. Cunnington. 2,322,226; June 22.
Fan, Centrifugal. H. F. Hagen. 2,322,357; June 22.
Fastener: *See*—
  Separable fastener. Snap fastener.
Fastener for trimming and like strips, Snap. H. J. Murphy. 2,322,656; June 22.
Feeding dish, Child's. T. A. Ryan. 2,322,665; June 22.
Feeding mechanism for power presses and like machines. M. D. Heyman. 2,322,294; June 22.
Feeding mechanism for sewing machines. A. N. Hale. 2,322,207; June 22.
Ferro-alloys substantially free of gangue materials, Production of. L. H. Timmins. 2,322,327; June 22.
Film magazine positioning and ejecting mechanism. P. F. Sperry. 2,322,400; June 22.
Filter. M. Sigmund. 2,322,548; June 22.
Filter. E. L. Oliver. 2,322,586; June 22.
Filter system and apparatus. H. Eickemeyer. 2,322,428; June 22.
Finishing and polishing equipment. C. J. Lippold. 2,322,459; June 22.
Fireproof shipping container. J. Cage. 2,322,345; June 22.
Fixation process. A. A. Horvath. 2,322,516; June 22,
Flare. A. G. Venn. 2,322,329; June 22.
Flare holder. A. T. Bovio. 2,322,725; June 22.
Float, Fishing. C. A. Kurz. 2,322,241; June 22.

Fluids, Treating hydrocarbon. W. J. Sweeney. 2,322,673; June 22.
Fluorescent material and making same, Yellow. W. A. Weyl. 2,322,265; June 22.
Flux. J. D. Coleman and C. W. Ewing. 2,322,416; June 22.
Former for paper string. G. E. Repass. 2,322,731; June 22.
Frame: *See*—
Truck side frame.
Friction clutch. L. Taylor. 2,322,326; June 22.
Fuel burner. W. J. Workman. 2,322,496; June 22.
Fuels, Production of motor. R. P. Russell. 2,322,664; June 22.
Fuels, Treatment of motor. H. G. M. Fischer and R. P. Russell. 2,322,622; June 22.
Furnace distributor control, Blast. A. J. Whitcomb and G. Fox. 2,322,406; June 22.
Game card. E. Spitzner. 2,322,324; June 22.
Game device, H. C. Lake. 2,322,526; June 22.
Game apparatus. J. M. Buckley and T. F. Clarey. 2,322,564; June 22.
Garment. F. Jones. 2,322,451; June 22.
Garment protector. C. Strauss. 2,322,601; June 22.
Garment, Reversible. A. Dufine. 2,322,510; June 22.
Gas absorbent and preparing the same. C. B. Gardenier. 2,322,206; June 22.
Gas regulator pedal attachment. E. Ojalvo. 2,322,585; June 22.
Gear shift transmission together with a combined fuel control element and gearshifter, Semiautomatic. J. A. H. Barkeij. 2,322,411; June 22.
Generator: *See*—
Steam generator.
Generator regulator. E. I. Shobert, II. 2,322,669; June 22.
Gin with valve controlled pneumatic mote discharge, Air blast. J. J. Wallace. 2,322,553; June 22.
Glass, Laminated. H. R. Marini. 2,322,582; June 22.
Glass, Reading. R. M. Holliday. 2,322,441; June 22.
Glass-severing machine. J. L. Anderson. 2,322,336; June 22.
Grate. A. A. Denny. 2,322,283; June 22.
Grease retainer puller and the like. E. A. McKee and J. A. Schachtell. 2,322,464; June 22.
Grinding machine, Centerless. C. G. Ekholm. 2,322,619–20; June 22.
Guide and retarder for binders, Grain. F. Wengler. 2,322,706; June 22.
Gun, Welding. B. E. Winkler. 2,322,611; June 22.
Gunnery correction device. W. B. Klemperer. 2,322,455; June 22.
Hair curling device. L. Eisenman. 2,322,429; June 22.
Handicap computer. R. Walsh. 2,322,331; June 22.
Hand protector. R. M. Eisendrath. 2,322,710; June 22.
Handle: *See*—
Door handle.
Hanger for sliding doors. R. L. Long. 2,322,529; June 22.
Harvester platform mounting means. W. A. Blaser. 2,322,276; June 22.
Hat and method of making the same. G. M. Rickus and W. L. Braun. 2,322,254; June 22.
Head fastener for dip barrels. W. J. McGarr. 2,322,534; June 22.
Heat exchanger. E. A. Dewald. 2,322,284; June 22.
Heat exchange unit. M. F. Booth. 2,322,341; June 22.
Heat treating apparatus. F. McGuire, Jr. 2,322,305; June 22.
Heater: *See*—
Washing machine heater. Water heater.
Heating and forming tubular bodies. W. C. Heath. 2,322,444; June 22.
Hemostatic analgesic, and bacterical composition of matter. N. M. Molnar. 2,322,735; June 22.
Hold-down clamp. M. E. Wetzler. 2,322,707; June 22.
Holder: *See*—
Flare holder. Welding electrode holder.
Holder for the staff of flags or the like. G. H. Stahler. 2,322,600; June 22.
Honing machine. H. J. Caldwell. 2,322,346; June 22.
Hook structure. P. Huebshman and G. D. Stough. 2,322,576; June 22.
Hormones, Carboxylated oestrogenic. J. B. Niederl. 2,322,311; June 22.
Hot water tank, Glass lined. O. E. Uecker. 2,322,488; June 22.
Hydraulic jack. T. C. Romeroy. 2,322,314; June 22.
Hydraulically operated apparatus. H. H. Vanderzee. 2,322,739; June 22.
Hydraulically operated apparatus. H. H. Vanderzee and A. E. Felt. 2,322,740; June 22.
Hydrocarbon conversion process. L. S. Kassel. 2,322,366; June 22.
Hydrocarbon mixtures, Separation of selected components. C. G. Gerhold and B. J. Flock. 2,322,354; June 22.
Hypodermic injector. M. L. Lockhart. 2,322,244; June 22.
Hypodermic injector and use thereof. M. L. Lockhart. 2,322,245; June 22.
Ignition distribution system. C. J. Johnson. 2,322,448; June 22.
Implement, Tillage. T. Rubens. 2,322,256; June 22.
Impulse apparatus for signaling systems. E. Matousek. 2,322,650; June 22.
Indicator: *See*—
Alarm indicator. Spark timing indicator.
Injection pump. E. Hahn. 2,322,356; June 22.
Ink fountain typing machine. G. E. Pelton. 2,322,737; June 22.
Insecticide composition, Organic. D. W. Young. 2,322,723; June 22.
Internal combustion engine. H. O. Hedges. 2,322,293; June 22.
Internal combustion engine. E. M. Ward. 2,322,606; June 22.
Internal combustion engine control. R. M. Nardone. 2,322,584; June 22.
Iron: *See*—
Pressing iron.
Ironing board. T. J. Reinhart. 2,322,392; June 22.
Isomers, Separation of piperylene. D. Craig. 2,322,281; June 22.
Jack: *See*—
Hydraulic jack.
Jewelry, Costume. F. Mariano. 2,322,461; June 22.
Joint: *See*—
Pipe joint. Universal joint.
Justifying and indention control, Automatic. A. F. Colton. 2,322,222; June 22.
Key-carrying device. W. I. Jones. 2,322,644–5; June 22.
Knife, Putty removing. H. Hirschhorn. 2,322,359; June 22.
Lady's knitting and shopping bag. G. J. Glick. 2,322,688; June 22.
Laminated gripping dog. C. M. MacChesney. 2,322,651; June 22.
Lamp: *See*—
Electric discharge lamp.
Lamp fixtures, Fluorescent. H. Dreyfuss. 2,322,426; June 22.
Lath to channel furring, Securing. A. C. Olsen. 2,322,657; June 22.
Laundry apparatus. S. R. Baird. 2,322,559; June 22.
Leveling device. F. G. Boucher. 2,322,615; June 22.
Leveling machine. E. E. Winkley. 2,322,334; June 22.
Lifting mechanism. L. R. Hansen. 2,322,358; June 22.
Light-reflecting device. W. O. Mitscherling. 2,322,699; June 22.
Loading device. W. W. Sloane. 2,322,481; June 22.
Lock: *See*—
Combination lock. Nut lock.
Locking mechanism. C. J. Stuart. 2,322,402; June 22.
Loom shuttle. J. E. Johnson. 2,322,365; June 22.
Loose leaf book construction. J. Schade. 2,322,595; June 22.
Lubricated plug valve. F. H. Morehead. 2,322,379; June 22.
Lubricating composition. C. F. Prutton. 2,322,209; June 22.
Lubricating material and producing the same. B. H. Rouse. 2,322,738; June 22.
Lubricating oil. R. F. McCleary and S. M. Roberts. 2,322,376; June 22.
Lubricator. L. A. Safford. 2,322,544; June 22.
Machine and method for assembling shells and perforated end members. L. F. Muther. 2,322,538; June 22.
Machine for and method of relieving milling cutters. R. H. Butters. 2,322,506; June 22.
Machine for the manufacture of expanded metal. B. T. Ballard. 2,322,204; June 22.
Machine tool. R. L. Kuehn. 2,322,525; June 22.
Machine tool. B. and T. Grob. 2,322,684; June 22.
Magnesite for furnace linings. R. E. Birch and C. L. Thompson. 2,322,274; June 22.
Magnesium and its alloys, Treating. H. K. De Long. 2,322,205; June 22.
Marker, Linoleum. B. J. Brown. 2,322,277; June 22.
Mastic composition for flooring, etc. F. P. Jaros. 2,322,641; June 22.
Means, Balancing. E. W. Reynolds. 2,322,391; June 22.
Mechanical movement. J. S. Sharpe. 2,322,394; June 22.
Mechanical movement. H. W. Nowka. 2,322,539; June 22.
Mechanical movement for shifting gears. W. H. De Lancey. 2,322,569; June 22.
Meter: *See*—
Condenser gravity meter.
Metering circuit for X-ray apparatus. L. L. Weisglass. 2,322,404; June 22.
Method and apparatus for conditioning and supplying water and carbon dioxide to carbonators. E. Geertz and C. A. Getz. 2,322,625; June 22.
Method and apparatus for conditioning and supplying water and carbon dioxide to carbonators. C. A. Getz. 2,322,627; June 22.
Method and apparatus for folding paper. J. S. Luce. 2,322,647; June 22.
Method and apparatus for logging boreholes. L. G. Howell and L. W. Blau. 2,322,634; June 22.
Method and apparatus for making absorbent pads. J. O. Hunt. 2,322,692; June 22.
Method and apparatus for odorizing liquefied gas. W. C. Dayhuff. 2,322,617; June 22.

Method and apparatus for producing radio beacons. P. J. Holmes. 2,322,442; June 22.
Method of and apparatus for sterilizing milk. H. T. Stiles. 2,322,721; June 22.
Method and apparatus for storing ice cubes. C. E. Gerhard. 2,322,626; June 22.
Method and apparatus for treating gasoline. J. J. Allinson, J. W. Poole, and F. R. Grant. 2,323,079; June 22.
Method and machine for packaging edible products. J. W. Fay. 2,322,430; June 22.
Milling cutter assembly. A. Kutscha. 2,322,579; June 22.
Milling machine cherrying attachment. E. F. Aber. 2,322,408; June 22.
Minerals, Dressing of earth. S. B. Thomas. 2,322,674; June 22.
Mirror mounting. C. C. Sheppard. 2,322,395; June 22.
Miter box. F. J. Gammache. 2,322,433; June 22.
Mold and mold composition. F. S. Kleeman. 2,322,638; June 22.
Molds and mold compositions. J. B. Seastone and W. E. Mahin. 2,322,667; June 22.
Motor for sheep shearing devices. V. A. Wilcox. 2,322,610; June 22.
Motor vehicle. T. Sjoberg. 2,322,477; June 22.
Motor vehicle. C. R. Paton. 2,322,661; June 22.
Motor vehicle. J. G. Vincent. 2,322,676; June 22.
Mounting: *See*—
Mirror mounting.
Multiple-circuit breaker. D. W. Johnson. 2,322,646; June 22.
Multitemplate wall assembly bench. T. S. Lacey. 2,322,368; June 22.
Music device. S. Mihailoff. 2,322,465; June 22.
Needle, Felting. E. P. Foster. 2,322,573; June 22.
Nut lock. R. C. Churchman. 2,322,347; June 22.
Oil, Compounded. G. L. Neely and F. W. Kavanagh. 2,322,307; June 22.
Oil refining. C. C. Winding. 2,322,554; June 22.
Oils, Refining mineral. J. H. McClintock. 2,322,652; June 22.
Organic compounds, Treatment of. W. W. Moyer. 2,322,308; June 22.
Oven, Drying. F. S. Bailey and P. Schone. 2,322,272; June 22.
Package, Dispensing. R. C. Russell. 2,322,594; June 22.
Paper, Carbon. A. G. Kjellstrand. 2,322,367; June 22.
Paraffin scraping tool. L. L. O. Cranford. 2,322,419; June 22.
Percussion fuse for projectiles. G. W. Patchett. 2,322,543; June 22.
Pin or shank assemblies, Demountable. F. C. Danneman. 2,322,422; June 22.
Pipe: *See*—
Asbestos-cement pipe.
Pipe bore cleaner apparatus. H. R. Crane. 2,322,508; June 22.
Pipe cutter and reamer. R. B. Kinzbach. 2,322,694; June 22.
Pipe milling device. R. B. Kinzbach. 2,322,695; June 22.
Pipe joint. T. F. Payne. 2,322,587; June 22.
Planter. C. H. White. 2,322,332; June 22.
Plasticizer. E. L. Kropa. 2,322,240; June 22.
Plasticizer product sugar. N. R. Pike, P. H. Kelm and G. A. McLaren, Jr. 2,322,736; June 22.
Plow attachment for tractors. S. M. Bunn. 2,322,342; June 22.
Plug: *See*—
Spark plug.
Polishing machine. T. F. Philippi. 2,322,589; June 22.
Polymeric material, Resinous. W. J. Sparks and D. C. Field. 2,322,670; June 22.
Polymers, Flocculose vinyl halide. L. B. and W. M. Morgan. 2,322,309; June 22.
Portable dry closet receptacle. B. R. Brandon. 2,322,344; June 22.
Power control unit. R. G. Letourneau. 2,322,371; June 22.
Power plant, Vessel. J. E. Johansson. 2,322,522; June 22.
Preparing therapeutically active substances. R. T. Major and H. T. Bonnett. 2,322,375; June 22.
Pressing iron. F. W. Riddington and F. E. Finlayson. 2,322,593; June 22.
Pressure reducing valve. C. B. Redrup. 2,322,468; June 22.
Pressure sealed wheel. C. Hollerith. 2,322,360; June 22.
Printing, Intaglio. C. J. MacArthur. 2,322,530; June 22.
Printing members, Making. J. J. Ormond. 2,322,540; June 22.
Printing process. W. Huber. 2,322,445; June 22.
Production of motor fuels by alkylation. E. E. Stahly and E. M. Hattox. 2,322,482; June 22.
Projector and sound reproducer, Selective. F. von Madaler. 2,322,489; June 22.
Projector, Talking motion picture. S. K. Lackoff and H. Gordon. 2,322,369; June 22.
Propeller drive, Aircraft. P. E. Mercier. 2,322,247; June 22.
Protective coatings, Testing. H. C. De Staebler. 2,322,228; June 22.
Protector: *See*—
Garment-protector. Hand protector.
Pump: *See*—
Injection pump. Scavenging pump.
Punch and die mechanism. E. F. Shalla. 2,322,547; June 22.
Punch board. R. H. Andrus. 2,322,216; June 22.
Quick acting clamp. R. D. Robertson. 2,322,471; June 22.
Radio receiver. A. H. Cooper. 2,322,280; June 22.
Radio tube extractor. T. E. Casselberry. 2,322,220; June 22.
Rail flaw detector mechanism. G. L. Jones. 2,322,452; June 22.
Rake, Sweep. G. B. Hill. 2,322,295; June 22.
Razor, Safety. C. Sobleskie. 2,322,476; June 22.
Receptacle: *See*—
Portable dry closet receptacle.
Recording and reproducing system, Motion picture sound. I. R. Goshaw. 2,322,435; June 22.
Recording apparatus. F. F. Daugherty. 2,322,282; June 22.
Recording apparatus, Electromagnetic. E. E. Turner, Jr., 2,322,263; June 22.
Recording device. B. F. Terry. 2,322,602; June 22.
Recording means, Stock line. P. R. Nichols. 2,322,383; June 22.
Recovering selenium as selenium dioxide from copper refinery slimes. C. W. Clark. 2,322,348; June 22.
Reel for wire processing machines, Continuous supply. G. F. Wald. 2,322,607; June 22.
Reflex cameras with grid shutter. O. Steiner. 2,322,734; June 22.
Refrigerating aparatus. A. E. Beals. 2,322,339; June 22.
Refrigerating apparatus. M. Kalischer. 2,322,714; June 22.
Refrigerating apparatus. C. H. Wurtz. 2,322,495; June 22.
Refuse container. W. E. Heithoff. 2,322,439; June 22.
Register, Universal predetermined auto stop. C. S. Hazard. 2,322,712; June 22.
Regulator: *See*—
Generator regulator.
Relay control, Time delay. G. L. Kothny and G. A. Smith. 2,322,238; June 22.
Release for wringers or the like, Emergency drive. R. D. O'Callaghan. 2,322,384; June 22.
Remote control. W. A. Bruno. 2,322,563; June 22.
Removable filter unit for air cleaners. A. M. Goodloe. 2,322,513; June 22.
Resistant coating for metal surfaces, Corrosion. G. W. Jernstedt. 2,322,349; June 22.
Reversible magnetic brake. B. T. Anderson. 2,322,335; June 22.
Rim for tire retreading apparatus. L. T. Sepin. 2,322,546; June 22.
Ring binder construction. F. S. Schade. 2,322,596; June 22.
Rivet sticker. O. Mueller. 2,322,381; June 22.
Rock drill. E. Craig. 2,322,420; June 22.
Rod: *See*—
Weeder rod.
Rosin and polymerized rosin esters, Refining polymerized. A. L. Rummelsburg. 2,322,316; June 22.
Rotor for feed grinding machines. H. J. Mankoff. 2,322,460; June 22.
Safety device. E. A. Fischer and E. C. Moss. 2,322,511; June 22.
Safety system. F. M. Beck. 2,322,560; June 22.
Safety tube for pneumatic tires. F. J. Armstrong. 2,322,500; June 22.
Sand dewatering wheel. J. C. Buckbee. 2,322,415; June 22.
Sausage casing and method for tying, Tied. H. A. Hensel. 2,322,447; June 22.
Scale, Combination selective. W. H. Miller. 2,322,248; June 22.
Scavenging pump. W. H. De Lancey. 2,322,568; June 22.
Scraper. C. Le Bleu. 2,322,458; June 22.
Screw. W. A. DeVellier. 2,322,509; June 22.
Separable fastener. L. H. Morin. 2,322,537; June 22.
Separator bar for warp stop motion. O. V. Payne. 2,322,385; June 22.
Sewage sludge and the like, Incineration of liquid. M. B. Owen. 2,322,659; June 22.
Sewer cleaner. H. Davidson. 2,322,423; June 22.
Sewing machine. C. C. Smith. 2,322,397; June 22.
Sewing machine, Cross-stitch. A. Kierner. 2,322,523; June 22.
Shaver and blower, Ice. C. McLaren. 2,322,306; June 22.
Shaving equipment. J. Holtzman. 2,322,443; June 22.
Shaving machine. G. F. Bahr. 2,322,337; June 22.
Sheaths, Removing mud. R. W. Stuart. 2,322,484; June 22.
Shell, Practice. W. M. Allen. 2,322,212; June 22.
Shoe. A. L. Jalbert. 2,322,297; June 22.
Shoe form. R. E. Woodard and A. C. MacLean. 2,322,267; June 22.
Shoe sole punching die. T. F. Carfagno. 2,322,726; June 22.
Shot, Chain. J. D. Forbes. 2,322,624; June 22.

Shut-off device, Thermostatically controlled. W. E. Jenkins. 2,322,520; June 22.
Shutter mechanism for photographic cameras. O. Steiner. 2,322,733; June 22.
Shutter structure. W. E. Small. 2,322,705; June 22.
Side milling cutter. A. Kutscha. 2,322,578; June 22.
Sinker releasing device. F. J. Miller. 2,322,536; June 22.
Ski attachment. F. Weinaug. 2,322,497; June 22.
Slack or cuttings removing attachment for kerf-cutting machines. T. E. Pray. 2,322,315; June 22.
Sliding door operating and latching, Device. H. C. Lanctot. 2,322,457; June 22.
Snap fastener. W. I. Jones. 2,322,643; June 22.
Socket fastening device, Shiftable. W. A. Bedford, Jr. 2,322,614; June 22.
Soldering machine. J. Cereghino. 2,322,221; June 22.
Sorting apparatus, Billet. M. Morgan. 2,322,655; June 22.
Sound recording and reproducing device. B. A. Proctor. 2,322,467; June 22.
Spark plug. T. L. Carson and J. F. Brown. 2,322,616; June 22.
Spark timing indicator. J. S. Buckwalter. 2,322,278; June 22.
Sprinkler, Irrigation. W. N. Bagley. 2,322,271; June 22.
Stacker and loader, Sweep rake. J. A. Toftey. 2,322,487; June 22.
Steam generator. G. A. Rehm. 2,322,390; June 22.
Stocks, Dewaxing lubricant. R. W. Henry, J. V. Montgomery, and S. D. Lawson. 2,322,438; June 22.
Strain responsive apparatus. A. C. Ruge. 2,322,319; June 22.
Stretcher, Curtain. M. Roosevelt. 2,322,317; June 22.
Structure. D. S. Mussey. 2,322,700; June 22.
Structure, Cable. DeW. D. Merrick. 2,322,378; June 22.
Structure, Engine. S. C. Raybon. 2,322,662; June 22.
Support: *See*—
Cable support. Collar support.
Support for business machines and the like, Disappearing. C. B. Lundstrom. 2,322,648; June 22.
Surface covering compositions containing synthetic resins and process of producing same. D. G. Patterson. 2,322,542; June 22.
Surfacing device. H. C. Pease. 2,322,718; June 22.
Suspension for railway trucks and the like, Spring. C. D. Young. 2,322,680; June 22.
Switch: *See*—
Electric switch.
Switch. E. R. Howard. 2,322,235; June 22.
Switching, Pressure. H. Diamond and W. S. Hinman, Jr. 2,322,229; June 22.
System, Air conditioning. E. H. White. 2,322,405; June 22.
System, Lubricating. A. T. McDonald. 2,322,463; June 22.
Take-up for gloves. H. A. Gillian. 2,322,687; June 22.
Tank: *See*—
Hot water tank.
Tape, Elastic binding. J. V. Moore. 2,322,382; June 22.
Telautographic device. D. Mitchell. 2,322,653; June 22.
Telemetric control apparatus. R. P. Lowe. 2,322,373; June 22.
Telephone system. E. Vroom. 2,322,330; June 22.
Telephone system, Automatic. H. P. Boswau. 2,322,219; June 22.
Temperature compensation for pressure indicators of continuous rolling mills, Automatic. E. A. Crawford. 2,322,418; June 22.
Temperature control instrument, Automatic. B. M. Barnitz. 2,322,501; June 22.
Tenderizing machine, Meat. L. A. Larson and L. W. Hart. 2,322,243; June 22.
Tension device. J. Gouldbourn. 2,322,232; June 22.
Terminal, Coaxial transmission line. H. Granger. 2,322,233; June 22.
Textiles, Discharge printing of. G. W. Seymour and G. C. Ward. 2,322,322–3; June 22.
Therapeutically active substances, Preparing. R. T. Major and H. T. Bonnett. 2,322,375; June 22.
Thermal attaching machine. H. Johnston. 2,322,298; June 22.
Thermostatically controlled gas valve. W. E. Jenkins. 2,322,521; June 22.
Thiamin containing compositions and their production. L. Atkin, A. S. Schultz and C. N. Frey. 2,322,270; June 22.
Tire, Pneumatic. A. W. Bull. 2,322,505; June 22.
Tire tread augmenting means, Pneumatic. W. G. Bennett. 2,322,412; June 22.
Tool: *See*—
Machine tool. Paraffin scraping tool.
Torch, Marine. C. Linhardt, Jr. 2,322,716; June 22.
Torque converter interlocking control, Automatic. H. O. Schjolin. 2,322,479; June 22.
Toy. W. L. Pasek. 2,322,541; June 22.
Tractor implement. W. Zink and G. L. McKibben. 2,322,268; June 22.
Transmission, Variable speed. W. L. Pollard. 2,322,251; June 22.
Transmitter, Television. A. N. Goldsmith. 2,322,355; June 22.
Transmitting system and apparatus. H. O. Peterson. 2,322,588; June 22.
Trays, Birthday cake. M. O. Ingebrigtsen. 2,322,519; June 22.
Trigger safety for automatic firearms. G. Webb. 2,322,490; June 22.
Trimming mechanism for grid plates. C. L. Feldtkeller. 2,322,351; June 22.
Trolley. J. G. Jackson and R. H. Kingdon. 2,322,640; June 22.
Truck and its brake mechanism, Railway car. V. Willoughby. 2,322,266; June 22.
Truck, Railway. R. R. Cease. 2,322,682; June 22.
Truck side frame. F. H. Spenner. 2,322,599; June 22.
Tub construction. C. H. Widman. 2,322,407; June 22.
Tube, Making welded. S. W. Specht. 2,322,671; June 22.
Tubing sets, Preparation of sterile. N. M. Nesset and E. J. Nawoj. 2,322,701; June 22.
Tuning mechanism for radio receivers, Automatic. E. H. Pitney. 2,322,387; June 22.
Tuning system, Permeability. C. Wentworth. 2,322,722; June 22.
Turbine arrangement, Elastic fluid. S. V. R. Simkins and E. F. Harris. 2,322,598; June 22.
Turret attachment for machine tools and the like, Multiple spindle. R. A. Johnstone. 2,322,450; June 22.
Typewriter combination. J. S. Edison. 2,322,289; June 22.
Typewriting machine. J. J. Kittel. 2,322,524; June 22.
Universal joint. A. Y. Dodge. 2,322,570; June 22.
Unloading and loading mechanism, Tie. E. H. Kidder. 2,322,636; June 22.
Vacuum cleaner. G. R. Coss. 2,322,223; June 22.
Valve: *See*—
Automatic valve. Pressure reducing valve.
Check valve. Thermostically controlled gas valve.
Lubricated plug valve.
Valve. J. W. Overbeke. 2,322,658; June 22.
Valve actuating mechanism. W. M. Goodwin. 2,322,514; June 22.
Valve assembly. A. V. Hose. 2,322,517; June 22.
Valve unit, Pressure-reducing. C. D. P. Smallpiece and C. E. Curzons. 2,322,480; June 22.
Valved can closure. H. Ingram. 2,322,236; June 22.
Vegetable washing machine. J. Christian. 2,322,417; June 22.
Vehicle: *See*—
Motor vehicle.
Vehicle construction, Motor. J. W. Greig. 2,322,630; June 22.
Vehicle drive mechanism. G. A. Collender. 2,322,279; June 22.
Ventilating system, Toilet. W. J. Hazard. 2,322,515; June 22.
Ventilator. E. O. Martinson. 2,322,302; June 22.
Ventilator, Window. G. Pickering and F. O. Pickering. 2,322,590; June 22.
Vibration control apparatus. C. Baird. 2,322,217; June 22.
Vibration measuring apparatus. M. J. Burger. 2,322,708; June 22.
Vinyl plastic, Modified. B. J. Dennison. 2,322,571; June 22.
Vise. C. M. Gearing. 2,322,291; June 22.
Vise. W. O. Mosley, Jr. 2,322,380; June 22.
Voltage planer control, Variable. G. E. King and W. H. Formhals. 2,322,637; June 22.
Wagon, Dump. C. A. Gustafson. 2,322,437; June 22.
Washing machine heater. G. M. Lumley. 2,322,580; June 22.
Water heater. H. A. Beckstrom. 2,322,502; June 22.
Weeder, Rod. M. H. Tuft. 2,322,328; June 22.
Welding apparatus. F. C. Owen. 2,322,709; June 22.
Welding electrode holder. F. R. Hensel. 2,322,691; June 22.
Welding tip, Multiflame. W. R. Linden. 2,322,300; June 22.
Well surveying method and apparatus. S. A. Scherbatskoy. 2,322,478; June 22.
Wheel: *See*—
Pressure sealed wheel. Sand dewatering wheel.
Wheel chair and stretcher, Combination. J. Costa and F. Costa. 2,322,683; June 22.
Wheel construction, Resilient. Z. E. Keough. 2,322,454; June 22.
Window assembly. H. W. Mackey. 2,322,649; June 22.
Windshield wiper. C. L. Osborn. 2,322,312; June 22.
Wire, Manufacturing insulated. J. R. Stricklen. 2,322,483; June 22.
Wire tagging machine. A. J. Verdechia. 2,322,605; June 22.
Wood preservation. R. M. Hitchens. 2,322,633; June 22.
Wool to diminish shrinkage, Treatment of. H. Phillips and W. R. Middlebrook. 2,322,313; June 22.
Wrench. R. Steinacher. 2,322,550; June 22.
Yarn cones, Reconditioning. A. G. Dewees. 2,322,350; June 22.
Yeast, Producing. R. E. Eakin and R. J. Williams. 2,322,287; June 22.
Yeast propagation. A. S. Schultz, L. Atkin, and C. N. Frey. 2,322,320; June 22.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

JUNE 22, 1943

The applications listed below have been vested by the Alien Property Custodian, who has authorized their publication. Printed copies of these applications as filed may be obtained from the Commissioner of Patents, Washington, D. C., for ten cents each. In ordering copies of these applications they must be ordered by serial number, the serial number to be preceded by the letters "A.P.C.".

Copies of patents may be obtained from the Commissioner of Patents, Washington, D. C., for ten cents each. Patents should be ordered by the patent number.

CLASS 13

A.P.C. 444,238. Electrode frame structures. Georg Hagerup-Larssen, New York, N. Y. Published June 22, 1943.

CLASS 23

A.P.C. 295,147. Treatment of solutions to obtain solid matter therefrom. Finn Jeremiassen, Oslo, Norway. Published June 22, 1943.

CLASS 29

A.P.C. 409,398. Block for carrying the tool carriages or tool holders shiftable on the side faces of the block on one-spindle or multiple spindle turret lathes. Erwin Kohring, Cologne-Poll, Germany. Published June 22, 1943.

CLASS 49

A.P.C. 245,285. Apparatus for manufacturing strainless glass sheets. Hideo Yamamoto, Yokohama, Japan. Published June 22, 1943.

CLASS 82

A.P.C. 395,452. Automatic lathes. Georges Emile Cuttat, Paris, France. Published June 22, 1943.

CLASS 102

A.P.C. 315,074. Munition shells of organic materials and processes for manufacturing same. Jacques Tricou, Paris, France. Published June 22, 1943.

A.P.C. 336,019. Concentrating device for cartridges and method of construction thereof. Wladimir De Garkovenko, Vallauris, France. Published June 22, 1943.

CLASS 123

A.P.C. 443,988. Ignition systems for multi-cylinder engines. Jean Bernard, La Jasse, Par Saint Hilaire De Brethmas, France. Published June 22, 1943.

CLASS 127

A.P.C. 309,483. Process for preparing starch products. Meindert Danius Rozenbroek, Delden, Netherlands. Published June 22, 1943.

A.P.C. 309,484. Process for preparing starch products. Meindert Danius Rozenbroek, Delden, Netherlands. Published June 22, 1943.

A.P.C. 309,485. Process for preparing starch products. Meindert Danius Rozenbroek, Delden, Netherlands. Published June 22, 1943.

CLASS 128

A.P.C. 333,232. Device for functional test of organs of living bodies. Laszlo Rosa, et al., Budapest, Hungary. Published June 22, 1943.

CLASS 154

A.P.C. 110,194. Structure of interconnected individual layers of felted or interspun and felted fibres, and method of producing same. Walter Jarecki, Cologne/Rhein, Germany. Published June 22, 1943.

A.P.C. 180,036. Article of manufacture consisting wholly or in part of synthetic resin and process of producing the same. Arnost Fischer, Prague, Czechoslovakia. Published June 22, 1943.

A.P.C. 188,585. Manufacture of fabric layers provided with water repellent coatings. Margarete Marcus, Vienna, Austria. Published June 22, 1943.

A.P.C. 320,175. Process for manufacturing pile fabric such as carpet. Genkichi Niki, Shibuyaku, Tokyo, Japan. Published June 22, 1943.

CLASS 171

A.P.C. 288,502. Piezo-electric oscillatory crystal plate. Rudolf Bechmann, Berlin, Germany. Published June 22, 1943.

CLASS 174

A.P.C. 178,414. Incombustible end pieces. Jean Lepetit, Clichy, France. Published June 22, 1943.

A.P.C. 335,154. Tubular body of insulating material. Hans Thommen, Baden, Switzerland. Published June 22, 1943.

CLASS 202

A.P.C. 409,101. Apparatus for continuous fractional distillation. Edwin M. F. Guignard, Berlin-Dahlem, Germany. Published June 22, 1943.

CLASS 204

A.P.C. 110,344. Apparatus for the sterilization of water and other liquids. Georges Lakhovsky, Paris, France. Published June 22, 1943.

A.P.C. 173,206. Treatment of medically applicable salt solutions with electric currents of low voltage for the purpose of sterilization and disinfection. Walter Kruse, et al., Leipzig, Germany. Published June 22, 1943.

A.P.C. 177,304. Process of forming acid-proof coating on aluminum metal or aluminum alloy. Hajime Hongo, Sumiyoshi-ku, Osaka, Japan. Published June 22, 1943.

A.P.C. 257,762. Process for the protection of magnesium-base metals. Jean Frasch, Clichy, France. Published June 22, 1943.

A.P.C. 436,280. Electric apparatus simultaneously producing dissociation of water into hydrogen and oxygen, fixation of oxygen and the utilization of hydrogen as combustible. Jacques Couelle, et al., Marseilles, France. Published June 22, 1943.

CLASS 250

A.P.C. 457,509. Surgical tables. Maurice Georges Heitz-Boyer, Vichy, France. Published June 22, 1943.

CLASS 252

A.P.C. 265,605. Process for the preparation of catalysts for hydrogenation. Joseph Zeltner, Paris, France. Published June 22, 1943.

CLASS 257

A.P.C. 378,096. Automatic control of the circulating pump of condensers normally working with natural water circulation for propelling apparatus. Francesco Modugno, Rome, Italy. Published June 22, 1943.

CLASS 260

A.P.C. 73,578. Featherdown felt and methods of manufacturing the same. Sandor Dunay, Budapest, Hungary. Published June 22, 1943.

A.P.C. 83,244. Production of sulphonation products of mixtures of alcohols or olefines. Bruno V. Reibnitz, Mannheim, Germany. Published June 22, 1943.

A.P.C. 126,525. Biologically active substances. Karoly Gyula David, Amsterdam, Holland. Published June 22, 1943.

A.P.C. 255,603. Process for the dissociation of fats. Arrigo Rastelli, Milano, Italy. Published June 22, 1943.

A.P.C. 281,690. Catalytic process for converting liquid and gaseous hydrocarbons into anti-knock spirit and aromatic hydrocarbons. Marcel Nitescu, Bucharest, Roumania. Published June 22, 1943.

A.P.C. 315,716. Process for the dissociation of fats. Italo Curletti, et al., Milan, Italy. Published June 22, 1943.

A.P.C. 343,175. Water bag. Samuel I. Davitcho, Belgrade, Yugoslavia. Published June 22, 1943.

A.P.C. 353,425. Process of manufacturing cyclopentenone derivatives. Heinz Hunsdiecker, Koln-Braunsfeld, Germany. Published June 22, 1943.

A.P.C. 370,142. Production of linear polyamides. Paul Schlack, Berlin-Treptow, Germany. Published June 22, 1943.

A.P.C. 382,639. Process for the preparation of high grade anti-knock motorfuels. August Hagemann, Duisburg-Meiderich, Germany. Published June 22, 1943.

A.P.C. 416,053. Water-soluble moth-proofing agents. Heribert Schussler, Cologne-Deutz, Germany. Published June 22, 1943.

CLASS 271

A.P.C. 420,886. Motion picture projectors. Erno Bolcskey, Budapest, Hungary. Published June 22, 1943.

CLASSIFICATION OF PATENTS

ISSUED JUNE 22, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Designs	34	No. 135,873 to No. 135,906, inclusive.
Total	765	

Notice of Cancellation

U. S. Patent Office, *Richmond, Va., June 9, 1943.*

Marval-Ac Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Antiseptol Company, Inc., Chicago, Ill., to effect the cancellation of trade-mark registration of Marval-Ac Co., 32 Lightston St., San Jose, Calif., No. 279,587, dated January 20, 1931, and the notice of such proceeding sent by registered mail to the said Marval-Ac Co., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Marval-Ac Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

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A printed copy of the drawing and statement of any registered trade-mark can be obtained for ten cents.

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The execution of orders for printed copies of U. S. patents, trade-marks, etc., will be considerably expedited if coupons are used. Such coupons may be purchased at the Patent Office in lots of 20 at $2.00 and 100 at $10.00.

Coupon orders do not have to be accompanied by letters of transmittal. They require nothing but the filling in of the patent number, the name of the inventor, the date of issue, and the name and address of the party desiring the service.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,268,693, W. R. Boyer, Conveying apparatus, decided June 3, 1943, claim 1.

Pat. 2,277,146, F. H. Roby, System of electric welding, decided May 27, 1943, claims 1, 2, 3, 4, 5, and 12.

Disclaimers

2,132,077.—*Clarence B. Lane* and *Bernard W. Hammer*, Ames, Iowa. Method of Making Blue-Veined Cheese. Patent dated October 4, 1938. Disclaimer filed May 31, 1943, by the assignee, *Iowa State College Research Foundation*.

Hereby disclaims claim 3 of said patent.

2,270,241.—*Elmer Wade Adams*, Hammond, Ind., *Lawrence C. Brunstrum*, Chicago, Ill., and *Alfred W. Weitkamp*, Whiting, Ind. Lubricating Oil. Patent dated January 20, 1942. Disclaimer filed June 3, 1943, by the assignee, *Standard Oil Company, (Indiana)*.

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 7, 8, 10, and 12 of the above numbered patent.

2,293,768.—*Robert M. Schaefer*, Racine, Wis. Blade. Patent dated August 25, 1942. Disclaimer filed June 4, 1943, by the assignee, *Twin Disc Clutch Company*.

Hereby enters this disclaimer to claims 5 and 6 of said patent.

Conditions of Applications Under Examination at Close of Business June 12, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 89,058. Trade-Mark Division, 930. Oldest new case, July 25, 1942. oldest amended, Aug. 11, 1942) (The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	†Feb. 1	†Feb. 12	281
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	†Mar. 16	†Feb. 16	238
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces.	Aug. 25	Aug. 25	904
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 16	Dec. 30	386
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	July 25	Oct. 14	510
6. GENIESSE, E. W., Carbon Chemistry (part)	Oct. 7	Nov. 7	995
7. JARBOE, C. G., Optics, Photography	Dec. 1	Nov. 25	809
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Dec. 7	Dec. 6	567
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 21	Nov. 2	769
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 8	†Jan. 7	374
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	†Jan. 13	†Jan. 9	309
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making.	Dec. 4	Dec. 30	596
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Feb. 5	†Feb. 6	468
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Dec. 17	Dec. 31	711
16. SPENCER, C. J., Telegraphy; Telephony	Aug. 27	Oct. 21	622
17. HABECKER, LEON E., Ornamenting; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 25	Sept. 3	667
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Sept. 22	Oct. 30	544
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Sept. 30	Sept. 30	578
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	†Jan. 18	†Jan. 19	430
21. THOMPSON, T. J., Textiles	Dec. 24	†Jan. 7	308
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Sept. 7	Sept. 7	1730
23. BARROWS, B., Cash Registers; Calculators (part)	†Jan. 6	Dec. 24	143
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	†Feb. 8	†Feb. 15	481
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters.	Nov. 9	Nov. 7	571
26. YOUNG, R. R., Electricity—Generation and Motive Power	Nov. 4	Oct. 29	725
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing, Washing Apparatus.	Oct. 26	Oct. 24	547
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Oct. 23	Sept. 21	630
29. SHKLARIN, J. B., Bags; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	†Jan. 9	†Mar. 1	355
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Hygrostats.	†Jan. 21	†Feb. 1	291
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 26	Dec. 26	1342
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 20	Nov. 11	630
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	†Jan. 11	†Jan. 15	630
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways, Track Sanders; Signals and Indicators.	†Jan. 1	Dec. 16	397
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	†Jan. 25	†Jan. 25	533
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	†Jan. 30	†Jan. 7	327
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Feb. 18	Dec. 12	383
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Dec. 1	Nov. 9	500
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	†Feb. 17	†Feb. 17	392
40. DRUMMOND, E. J., Receptacles	†Feb. 16	†Feb. 26	338
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Nov. 12	Nov. 17	377
42. MARANS, H., Electric Signaling	†Mar. 10	†Feb. 16	313
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Aug. 12	Aug. 11	837
44. HARVEY, L. F., Refrigeration	Dec. 21	Aug. 28	300
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Dec. 26	†Jan. 15	704
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	†Jan. 5	Nov. 30	405
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Nov. 29	Dec. 1	1019
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Aug. 20	Aug. 25	737
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Dec. 5	Dec. 2	553
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Oct. 26	Nov. 21	1161
51. BACKUS, C. D., Radiant Energy	Nov. 6	Nov. 11	1088
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits	Dec. 21	Dec. 1	687
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Oct. 31	Feb. 9	166
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Sept. 2	Oct. 22	473
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	Aug. 21	Aug. 15	827
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Dec. 18	Dec. 19	699
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 6	Sept. 14	454
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	†Jan. 1	†Jan. 2	524
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Aug. 21	Aug. 24	1203
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Sept. 22	Sept. 22	442
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Nov. 23	Dec. 3	515
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	†Feb. 15	†Jan. 19	423
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Oct. 22	Oct. 20	969
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	†Jan. 1	Dec. 30	1080
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Oct. 16	Oct. 20	697
Trade Marks. RICHMOND, F. A.	†May 7	†May 29	930
Designs: KALUPY, H. H.	†May 12	†May 26	289

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

BRUMBAUGH *v.* WILSON

No. 4,642. Decided February 1, 1943

134 [F.(2d) 180

INTERFERENCE—RIGHT TO MAKE, INOPERATIVENESS, OPERATIVENESS, PRIORITY AND FRAUD.

In affirming the decision of the Board of Interference Examiners awarding priority to appellee Wilson, in an interference which at one time involved said appellee, the appellant Brumbaugh, and one Budner *Held*:

"First, that Wilson's application is sufficient disclosure to satisfy the requirements of R. S. 4888; second, that the record shows that the disclosures of the applications of Wilson are not inoperative; third, that Brumbaugh obtained the invention defined by the counts through information furnished by Wilson or his associates or subordinates; fourth, that Brumbaugh has failed to carry his burden of proving, by a preponderance of the evidence, his priority of invention of the subject-matter of the counts * * *; and fifth, that there is no fraud and collusion shown on the part of Wilson and Budner or their attorneys justifying awarding priority of the invention of the counts to the party Brumbaugh."

APPEAL from the Patent Office. Affirmed.

Mr. J. Ralph Barrow (*Mr. Robert W. Wilson* of counsel) for Brumbaugh.

Mr. E. L. Greenewald, Mr. R. S. Nelson, Mr. E. P. Boynton (*Mr. Clair V. Johnson* and *Mr. David A. Woodcock* of counsel) for Wilson.

BLAND, *J.*:

This is an appeal from a decision of the Board of Interference Examiners of the United States Patent Office in a patent interference proceeding in which Brumbaugh, the junior party, has appealed from the decision of the Board awarding priority of invention of the two article counts involved to the senior party, Wilson.

The counts correspond to two claims in Brumbaugh's patent issued October 24, 1939, upon an application filed May 17, 1939. This application purports to be, in part, a continuation of an application filed August 20, 1937, which became abandoned on May 17, 1939, through the failure of Brumbaugh to respond to the rejection dated November 17, 1938. The interference, therefore, is between the claims of the Brumbaugh patent which correspond to the involved counts and the application of Wilson filed December 31, 1938 (into which the Brumbaugh claims were copied) which is a continuation-in-part of an earlier application of Wilson filed October 22, 1936. The applications of Brumbaugh and Wilson were co-pending. Brumbaugh, being the junior party, was under the burden of proving his priority by a preponderance of the evidence.

The counts of the interference read as follows:

1. A wax composition comprising an emulsion of wax in water having therein as an emulsifying agent a morpholine compound with a fatty acid of high molecular weight, holding the wax dispersed in such small particle size that it will dry bright or with substantial lustre when merely applied to a surface and exposed to the atmosphere without rubbing, said emulsifying agent being decomposable by drying of the composition whereby the composition loses its ability to re-emulsify in the presence of water.

2. A wax composition comprising an emulsion of wax in water having therein as an emulsifying agent an unstable volatile amino compound with a fatty acid of high molecular weight, forming a wax-soluble soap, so as to hold the wax dispersed in such small particle size that it will dry bright or with substantial lustre when merely applied to a surface and exposed to the atmosphere without rubbing, said emulsifying agent being stable in the presence of the water and not evaporating selectively in water solution but decomposable by the drying of the composition whereby the composition loses it ability to re-emulsify in the presence of water.

It is to be noticed that the counts are drawn to the composition and that the method involved is not under consideration here.

The Brumbaugh patent is assigned to the Universal Chemical Corporation (hereafter referred to as Universal), manufacturers of floor finishes and other products. In the fall of 1932 Universal employed Mr. Brumbaugh as a chemist. In the fall of 1933 Brumbaugh formed a company known as the Chemical Products Company and ceased working for Universal soon thereafter. In September 1936 Universal bought Brumbaugh's Chemical Products Company, including about four pounds of morpholine, and rehired Mr. Brumbaugh as chemist.

At the time of taking proof and long prior thereto, Wilson was employed by the Organic Synthesis Industrial Fellowship maintained at the Mellon Institute, Pittsburgh, Pennsylvania, by the Carbide & Carbon Chemicals Corporation, which owns the Wilson application, said corporation being a manufacturer of chemicals and, as pertinent here, a manufacturer of triethanolamine, used for making wax-in-water emulsions, and morpholine or equivalent amino compounds, which are furnished to certain manufacturers for the purpose of making wax compounds which are bright-drying, waterproof, and require no buffing after application.

Originally, the interference proceeding included one Anton E. Budner, whose application was owned by S. C. Johnson & Son, Inc., manufacturers of floor waxes, etc. Subsequent to the taking of testimony, Budner conceded priority to Wilson, to which Johnson assented, and Budner was thereafter eliminated as a party herein.

After the elimination of Budner, Brumbaugh moved that the Budner proof be made a part of the record. This motion was granted by a single Examiner of Interferences for the purpose of consideration at final hearing, and the Budner testimony was in the record before the Board of Interference Examiners and is in the record at bar.

The invention defined by the involved counts relates to a wax composition or polish in the form of an emulsion which is water-resistant and produces a lustrous, glossy finish without rubbing. An important feature of both counts is that requiring the holding of the wax

"dispersed in such small particle size that it will dry bright or with substantial lustre when merely applied to a surface and exposed to the atmosphere without rubbing."

Said wax is produced by the use of a morpholine compound (in count 1) and an unstable volatile amino compound (in the broader count 2). It is compounded with fatty acids of high molecular weight, such as oleic acid, and a suitable wax material. The wax and the oleic acid are melted, and the emulsion is formed by the addition of water at stated temperatures.

Prior to this invention, there were wax-in-water emulsions which were represented as bright-drying and self-lustering, but they did not give satisfactory results for the reason that when water came in contact with the wax-polished floor, emulsification again set in, the wax would rub off, and spots of discoloration would be left on the floor. Moreover, particles in the emulsion were too large, and streaking resulted. In making such wax compositions, the emulsifying agents employed included triethanolamine or alkali metal soaps. By the use of morpholine or its derivatives, a lustering wax was produced which was highly resistant to both hot and cold water. The chemical reaction said to take place was one that gave a "fine particle size in such a way that the film would not be re-emulsifiable in the presence of water."

Appellant raises a number of issues. We think it sufficient to state and comment upon but five of them. He contends:

1. That the interference should have been dissolved on the ground that the Wilson application does not contain a sufficient disclosure to satisfy the requirements of R. S. 4888 with respect to the preparation of the wax composition defined in the counts;

2. That the method disclosed in said Wilson application is inoperative;

3. That Wilson derived the invention from Brumbaugh;

4. That Wilson has not proved priority of invention but that Brumbaugh has; and

5. That there was fraud and collusion between Wilson and Budner.

On the last contention appellant urges that since the record clearly shows collusion and fraud upon the part of Wilson and Budner, the whole record of Wilson must be rejected as failing to prove Wilson's priority, on the doctrine of falsus in uno, falsus in omnibus.

The Board held first, that upon the record Wilson had clearly proved his priority of invention defined by the counts and that Brumbaugh had failed to do so; second, that the record satisfactorily established that Wilson's disclosure is sufficient and operative; third, that Brumbaugh derived from Wilson the invention set forth by the counts and that as to the subject-matter defined by the counts Brumbaugh was not an original inventor; fourth, that the Budner record was not pertinent evidence in determining the issue involved and was therefore rejected; and fifth, that the record disclosed no fraud and collusion to defeat the right of the party Wilson to prevail.

We have examined all the evidence (including that in the Budner record), which comprises, among other things, correspondence between Wilson (or those working under his directions) and the appellant Brumbaugh and between Wilson and other parties concerned with other manufacturing companies, such as S. C. Johnson & Son, Inc., and Wilbert Products Company. Said correspondence had reference to the use and manner of use of morpholine and its derivatives in making waxes and polishes, including no-rub floor wax. The record comprises, in testimony, exhibits, and other pertinent matter, nearly 1,500 pages. Numerous documentary and other exhibits were introduced by the parties on both sides, some going to the question of priority and also bearing upon the question of originality. We feel that it is necessary to refer to only a few of these documents and exhibits and will do so later herein.

We first give consideration to the question of originality. The Board has passed directly on that question, and its action is here challenged by Brumbaugh. Appellant's Exhibits N–1 to N–24, we think, conclusively show that Brumbaugh, while working with the problem of producing a shining, self-polishing wax by using triethanolamine in the formula, frequently counseled with Wilkes and other associates of Wilson, who worked under Wilson's direction, throughout the period from December 1935 to May 1937.

Brumbaugh contends that he disclosed the invention to Wilson's associate, Wilkes. We find no satisfactory proof of this contention. On the contrary, we think the information on the critical thing in this invention, i. e., the use of morpholine or its derivatives, came from Wilson. Brumbaugh says that he told Wilkes, while at the Mellon Institute, that he felt that there "was a need for an emulsifying agent that would sort of volatilize and decompose." This seems to be as near a suggestion of the invention at bar as is contained in any of Brumbaugh's testimony. This, we think, was a suggestion of the problem without any suggestion of a remedy. *Davis* v. *Carrier*, 466 O. G. 483, 23 C. C. P. A. (Patents) 844, 81 F.(2d) 250.

Subsequent to that date, Brumbaugh, in a letter to Wilkes dated February 10, 1936, (Brumbaugh alleged conception of the invention "in February of 1936") had the following to say:

> Since my interview with you several months ago we have experienced no further difficulties in the production of our water emulsion floor wax.
>
> Our one outstanding weakness to date in this product is a lack of sufficient water resistance. The sample you gave me is certainly far superior in this respect to our own product and I am very much interested in the use of morpholineoleate as the emulsifying agent.
>
> Please advise as to whether this amine is yet available and if so in what quantity and the cost; also if possible any pertinent points in the process as it differs from the use of triethanolamine.
>
> We feel it necessary to make a change and prefer to obtain the amine from you rather than to attempt to manufacture it ourselves or to use ammonia.
>
> Thanking you for your kind co-operation in the past, we remain * * *.

On March 15, 1937, long after the filing of the original Wilson application, Brumbaugh wrote Wilkes, in substance, that since his interview with Wilkes on the previous Tuesday he had made further runs on bright-drying floor waxes; that the results had been better than previously; that he had used the formula in Wilson's booklet, "Emulsions," and got a "very lovely product." This experiment involved triethanolamine. In said letter he also stated that he had made a run with morpholine (12 gallons). He said that with morpholine he got a wax with very minute particles, which was not entirely satisfactory. He emphasized the fact that he had used a low wax content. The record shows that Wilkes had advised him not to do that. Brumbaugh claims later to have made a success of this experiment, but the record shows that in doing so he used substantially the amount of wax that he had been told by Wilkes to use.

On March 24, 1937, Brumbaugh wrote Wilkes as follows:

> I have your letter of March 23 with the further information on the morpholine wax polish relative to uneven drying.
>
> We have noted that the tendency to creep is less pronounced after the shellac has been added, and believe as you suggest that with this addition and when the wax is aged, and through perhaps a slightly higher wax concentration that we will have a satisfactory product in this regard.
>
> I wish to express again my appreciation for all your valuable suggestions and helps and will drop you a line occasionally to let you know how we are making out with these products. At present we are delayed just a little because of the difficulty of obtaining an additional supply of morpholine, but will continue in the near future when it arrives.

It should be remembered that Wilkes, the associate of Wilson, worked for and represented the Carbide & Carbon Chemicals Corporation through his employment at the said Mellon Institute. The Carbide Company manufactured and sold to wax manufacturers certain chemicals going into the making of said waxes. Other circumstances going to the question of derivation of the invention by Brumbaugh from Wilson might be recounted, but we think it unnecessary to lengthen this opinion unduly by further recital of the facts.

We are not in disagreement with the holding of the Board that Brumbaugh derived the invention from Wilson, and, as we have no doubt on this question, it might be sufficient to base our decision wholly upon the question of originality without further discussion of the numerous other issues or questions involved, but since appellant has so vigorously pressed the alleged error on the part of the Board in its finding of priority upon the record and has urged here and elsewhere that fraud and collusion between Wilson and Budner has been conclusively shown, we think it important to recite and discuss somewhat briefly the various facts and circumstances relating thereto.

We have examined the Brumbaugh proofs, some of which we have hereinbefore alluded to, and find no showing that he was ever in possession of the involved invention prior to the filing date of Wilson's original application. Moreover, Brumbaugh is confined to the period covered by his preliminary statement, and he has alleged no date for conception prior to February 1936. The Board has analyzed this evidence in great detail, and a review of the same would not be helpful here. We agree with the Board's conclusions.

On the question of inoperativeness of the Wilson disclosure, it is argued by appellant that notwithstanding the fact that the Wilson application discloses a composition responding to the counts involved, it does not comply with the statute in that it fails to teach a method which will produce the composition defined by the counts. On this phase of the case Brumbaugh urges that a disclosure of the ingredients used, without disclosing the particular "technique" involved in the compounding of the same, amounts to no disclosure such as required by the statute. He emphasizes that his process (not defined in the counts but set out in his patent) teaches a manner of production of the composition in which there are certain critical steps not disclosed by Wilson. Brumbaugh recites in his patent application, after referring to the heating, mixing, and agitating of the morpholine, the following:

> * * * Six gallons of boiling water are then added at a slow regular rate over a period of about three minutes, agitating continuously as above and for approximately five minutes thereafter. *The remainder of the water at boiling temperature is then added very rapidly (in about 10 seconds)* and stirring is continued until the emulsion is homogeneous and none of the concentrated emulsion mixture remains undispersed. [Italics ours.]

Apparently it is urged by Brumbaugh that the sudden addition of the remaining water, after the first has been added slowly, "shocks" the mixture and that this is the gist of the invention. The Wilson applications say nothing about shocking the mixture. In his original application of October 22, 1936, Wilson teaches the use of morpholine and substitution products in producing the emulsion here involved and gives an example as follows:

Example III

Part 1		Part 2	
Carnauba wax	72	Shellac	10
Oleic acid	12.3	Morpholine	1.1
Morpholine	14.4	Water	100
Water	430		

He then states:

> The carnauba wax was carefully melted, and the oleic acid followed by the morpholine, slowly stirred in, to give a clear solution. Then water at the boiling point was slowly added with continuous stirring, the whole product being maintained hot over a steam bath. To this product on cooling was added a solution made by warming together the shellac, morpholine, and water of the second part of the formula. When laid as a film on glass, after one hour's standing, a bright polish was obtained, which became only slightly cloudy when sprinkled with water. A corresponding film deposited from an emulsion made by means of a triethanolamine soap completely disintegrated when sprinkled with water. After drying twelve hours, the morpholine polish showed no cloudiness when immersed in water. The films were very clear and lustrous, and no buffing was required. If desired, part of the morpholine in the formula may be replaced by borax, but I have found by experiment that such a change produces a polish exhibiting less water-resistance in the dried film.

Other examples are given, but no mention is made of any sudden pouring of water which is designed to shock the mixture. In Wilson's application involved here (into which the Brumbaugh

claims were copied) the table of Example III and the descriptive subject-matter following the same is substantially identical with that in the original application.

It is argued by Brumbaugh that he has proved by tests which he made, by tests which were made independently, and by inter partes tests that the Wilson disclosure affords no basis for the production of the wax called for by the counts in so far as it takes no cognizance of the "shocking" step.

It will be observed again that the invention defined by the counts is not concerned with the method of producing the composition. It is true, of course, that the law requires the inventor of a composition to teach the manner of its production. We think the disclosure of Wilson complies with this requirement, and that appellant has failed to show by the tests to which he refers that one following the Wilson teachings would not produce a composition such as is defined by the involved counts.

Even if it be conceded that appellant's so-called technique may have advantages over that disclosed in the Wilson applications, it cannot be said that Wilson fails to show how a product responding to the counts can be made. Wilson's record discloses that such a product was produced—a composition which responds to the terminology of the counts in so far as it dries bright with substantial lustre when merely applied to a surface and exposed to the atmosphere without rubbing. Unquestionably, his product dries with substantial brightness and lustre. He was the first to teach the use of morpholine or its derivatives, and, the counts not being limited to the so-called technique, we think the Patent Office tribunal properly held that Wilson was the first inventor of the subject-matter of the counts and that his disclosure was not subject to the charge of inoperativeness.

Appellant has urged that the inter partes tests made by Wilson or his subordinates show unsatisfactory results and that the tests he made or caused to be made show conclusively that in following the Wilson formula the wax defined by the counts was not produced. Much has been said about the appearance of the panels upon which the results of these tests appear. Regardless of what may be said about some panels introduced in evidence being more lustrous than others and freer from spots and streaks, we are in agreement with the Board that the Wilson tests as well as the other tests referred to by appellant produced a wax with substantial lustre and met the requirements of the counts.

Appellant criticized the Board for not commenting upon the admission he states Wilson made at final hearing that a certain Exhibit W, a wax produced in inter partes tests in which Brumbaugh purportedly followed Example III of the Wilson application, was not "commercial." This subject-matter was presented in a petition filed by Brumbaugh with the Commissioner of Patents to set aside the Board's decision and grant a new final hearing, which petition was withdrawn with the statement that it was done without prejudice to the presentation of the matter on appeal here. Assuming that the subject-matter is properly in the record—a question which we do not need to decide—it is too obvious to require comment that if it were conceded that this admission was made by Wilson, it would not be conclusive in the premises.

Obviously, after Budner had conceded priority, as aforesaid, it was the view of Brumbaugh that Budner's proof, if admitted to the record, would have a bearing upon the question of originality and the question of collusion and fraud. He states, in substance, that if Wilson has made a case, the record of Budner must be used for the purpose of making the same. The Budner record was included in the instant record upon the motion of Brumbaugh and without objection by Wilson. It shows that Budner conceded that Wilson wrote him while he was working for the Johnson Company telling him how to make the kind of wax called for by the counts and that he followed the instructions and made it. Budner had been receiving instructions from Wilson while the latter was working with Dr. Wilkes and others at the Mellon Institute, and it seems that Wilson had sent the same kind of instructions to a number of experimenting chemists who were engaged in trying to produce a shining, waterproof wax which required no rubbing.

Among the many other circumstances which brought it to the conclusion that Wilson had successfully proved his priority of the invention defined by the counts, the Board referred to Exhibits N–5, 6, 40, and 40*a*. The first of these exhibits contains instructions sent out to Brumbaugh by Wilkes, and the second, No. 6, is identical with those sent to others who manufactured wax according to the directions therein contained. Exhibit 40 is a letter to S. C. Johnson & Son, Inc., containing the same instructions as those in the first two exhibits; and Exhibit 40*a* is a letter written to the Wilbert Products Company, containing the same formula and instructions for making emulsion polishes with the use of morpholine as had been sent to the other parties. Exhibits N–5 and 6 bear the date, January 3, 1936, while the other two exhibits bear dates in the early part of 1935. The Board has called attention to the fact that the disclosure in these four exhibits is substantially identical with Example III of Wilson's application. There is satisfactory proof in the record which shows that when the directions in the formula in said exhibits were followed, satisfactory results were obtained, and that a shining, self-polishing, waterproof wax was produced.

The Board considered the effect of the established rules of equity jurisprudence on the admissibility of the Budner proof urged by Brumbaugh and the bearing of the pertinent rules of the Patent Office thereon and held first, that the testimony was incompetent and irrelevant; and second, that it deemed it not properly a part of the record at final hearing. It also stated:

> In conclusion it may be observed that, assuming the Budner testimony to be admissible, taken alone or in conjunction with the other evidence nothing is found therein of such significance as to defeat the right of the party Wilson to prevail. Hence, regardless of whether or not the Budner depositions be considered, the record is not deemed to establish or even to suggest such impropriety of action by or on behalf of Wilson as to warrant a holding of fraud and collusion on his part as charged by his adversary.

On this phase of the case it is urged by Brumbaugh that in view of the fact that Budner was an employee of the Johnson Company, which purchased some of its chemicals used in manufacturing waxes from Wilson's company (the Carbide Company), and of the fact that Budner conceded priority to Wilson, and of the further fact that Budner and Wilson and their counsel evidently met and talked the matter over before the taking of testimony for Budner at the Johnson plant in Racine, Wisconsin, it should be held that there was fraud and collusion between them.

Without expressing any opinion as to the admissibility of the Budner record, which was thoroughly discussed by the Board, we agree with the Board that nothing is contained therein, or, for that matter, in the record as a whole, which would warrant a holding of fraud and collusion between Wilson and Budner or their attorneys, or justify such a conclusion as is contended for by appellant.

We have examined the Wilson application, parts of which we have quoted hereinbefore. We think it is not subject to the criticism of appellant that it is not a sufficient compliance with the statutory requirements to justify the issuance of a valid patent. It seems to us that the application is quite full and complete as to the manner of compounding the wax emulsion which is the subject-matter defined by the counts.

We have carefully examined all the many reasons of appeal noted by appellant, some of which go to the specific wording of the holding of the Board of Interference Examiners and some of which are long and argumentative. We regard many of them as being without sufficient merit to justify any discussion here.

It is therefore our conclusion first, that Wilson's application is sufficient disclosure to satisfy the requirements of R. S. 4888; second, that the record shows that the disclosures of the applications of Wilson are not inoperative; third, that Brumbaugh obtained the invention defined by the counts through information furnished by Wilson or his associates or subordinates; fourth, that Brumbaugh has failed to carry his burden of proving, by a preponderance of the evidence, his priority of invention of the counts, and that the record sustains the finding of the Board that Wilson is the prior inventor of the subject-matter of the counts (the Board has discussed the record on priority, which embraced the exhibits of the parties, tests made by each of them, including inter partes tests, and other pertinent matters, at unusual length, and we agree with its holding and conclusions as to the same); and fifth, that there is no fraud and collusion shown on the part of Wilson and Budner or their attorneys justifying awarding priority of the invention of the counts to the party Brumbaugh.

Upon the foregoing holdings, we conclude that the Board arrived at the right conclusion, and its decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE STOVER

No. 4,700. *Decided February 1, 1943*

(133 F.(2d) 919)

PATENTABILITY—METHOD OF PREPARING FROZEN CONFECTIONS.

Claims to a method of preparing frozen confections *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Harry C. Alberts for Stover.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, J.:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting for want of patentability over the prior art all of the claims, 4 to 10 inclusive, of an application for a patent for alleged new and useful improvements in a "Method of Preparing Frozen Confections." Claims 4 and 6 are illustrative and read as follows:

> 4. A method of preparing a normally liquid material frozen to a substantially solid state with an air overrun therein which consists in forming the edible substances in uniform elongated polygonal units, placing a preformed unit in a receptacle having a body larger than the preformed edible unit, and then longitudinally compressing the edible unit against the receptacle to partially expel the air therefrom and transversely enlarge its body in cross-section to approximately receptacle size to impart a deformed contour to the frozen material.
>
> 6. A method of preparing a normally liquid material frozen to a substantially solid state with an air overrun therein which consists in forming the edible substances in uniform elongated polygonal units, and then longitudinally compressing the edible unit between a deformer and serving dish comprising complemental confining members to transversely enlarge its body in cross-section to approximately receptacle size to impart a substantially different contour to the frozen material.

The reference relied on is Vogt, 2,018,751, October 29, 1935.

The alleged invention relates to a process for reforming the shape of a preformed block of frozen confection such as ice cream. The preformed block is usually in cylindrical form. The wrapper of such form is removed from the cylinder, which is placed in a receptacle shown in the drawing to be cup-shaped. Then by means of an instrument, the bottom end of which is a hollow hemisphere, the frozen cylinder is compressed to partially expel the air overrun, and after such compression the confection presents a spherical shape.

The reference discloses means whereby a cylindrical ice cream portion may be readily shaped to fit firmly into a cone of the usual size. The patentee states that his process of reforming the shape of the ice cream portion does not materially reduce the overrun. He also states that reduction of the overrun renders the ice cream less palatable.

The Primary Examiner considered that it involved only a matter of choice and not invention to select any particular shape desired in the finished product. In this connection the Examiner stated as follows:

• • • When a particular finished shape is selected, the direction and extent of pressure necessary to deform the unit into this shape as well as the shape of the pressing tool is considered to be obvious. If the finished unit is to be flattened longitudinally and have a flat top, for example, it is obvious that a flat tool must be used and the pressure applied longitudinally. Likewise, if a pointed or cone-shaped product is desired, the tool must obviously be of this shape and pressure sufficient to deform the ice cream unit to the desired shape must be applied. Applicant desires a finished product having a spherical shape. It is considered obvious that to impart this shape the preformed unit must be deformed or pressed between hollow die members to mold the ice cream to this shape.

It is considered that the teaching in the patent of the idea of molding a preformed unit of ice cream to a different shape from the original by pressing, is a disclosure of the method recited in the claims and that this method disclosed in the patent is the same regardless of the particular shape selected or the direction in which the pressure is applied to mold the unit.

The Board of Appeals, affirming the decision of the Examiner, stated as follows:

Appellant urges patentability over the Vogt ice cream shaping device in that he employs a shaper which will compress as well as deform the ice cream to reduce the air overrun. Vogt does not intend to reduce the overrun but desires to reshape a block of ice cream to conform to the contour of an ice cream cone.

We find that only claim 4 is concerned with reducing the air overrun and the remaining claims are, in our opinion, substantially met by Vogt, the shape in which the ice cream is deformed being a matter of choice rather than of invention. However, we do not believe that claim 4 is patentable as Vogt refers to the air overrun and if it were desired to reduce such overrun, it would be obvious to change the shape of the forming device to compress the ice cream for this purpose.

Appellant states in his brief that

"Ice cream as it leaves the freezer, is provided normally with an air overrun of 100%. It is not very dense nor possessed of the desired solidity for consumption with a spoon."

Appellant contends that his method is patentable over the prior art for the reason that the prior art does not disclose a method for expelling the air of the overrun from the confection or to transversely enlarge its body in cross-section.

It is true that the ice cream of the reference is reformed so that the cylindrical block is tapered at one end so as to fit the cone, and also that the reference shows less pressure placed upon the block than in the application. The patentee uses less pressure than appellant because he was of the opinion that it was detrimental to materially reduce the overrun, while appellant thought it desirable to reduce the overrun from 100% to 70%.

The introduction of air into the ice cream increases its bulk and it is obvious that any compression of ice cream containing the overrun will result in a reduction of the air content. Whether or not such reduction is made, in our opinion it is clearly a matter of choice and certainly involves no invention. The final shape of the product obviously depends upon the form of the shaping means.

Appellant contends that the reference does not disclose a process, and that an apparatus does not anticipate a method even though it could be utilized to perform the process under consideration. In this connection he cites the case of *Carnegie Steel Co.* v. *Cambria Iron Co.*, 99 O. G. 1866, 185 U. S. 403. In that case the Supreme Court held valid a patent for a method of mixing molten pig metal, where the alleged anticipations were machines intended for other purposes in the steel-making art. We do not think that case is in point here. The Vogt patent here not only explains in detail how the cylinder of ice cream is reshaped, but includes three method claims for that process. The process claimed in the patent differs principally from appellant's process in setting out the shape of the final product intended to be obtained.

None of the claims herein, with the exception of claim 4, contains the limitation of partially expelling air from the confection. Those claims are clearly unpatentable over the reference, and we agree with the decision of the Board of Appeals that it does not involve invention to compress the frozen confection by partially expelling air therefrom as recited in claim 4.

The decision of the Board of Appeals is affirmed.
Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,405,633, M. O. Smith, Fuel vaporizer for carburetors; 1,477,724, same, Vaporizer, D. C. Mich., S. Div., Doc. 334, *The Gasifier Mfg. Co.* v. *Chrysler Corp.* All claims held invalid (notice May 10, 1943).

1,462,456, F. Smith, Parachute pack and harness; 1,958,000, H. G. Hamer, Parachute apparatus, D. C. N. J., Doc. E 5290, *Irving Air Chute Co., Inc., et al.* v. *Switlik Parachute & Equipment Co. et al.* Stipulation of dismissal Jan. 3, 1941.

1,477,724. (See 1,405,633.)

1,558,980, 1,989,801, G. Halinka, Door latch; 1,754,889, same, Latch mechanism; 2,055,688, same, Automobile door lock, filed May 19, 1943, D. C., E. D. Mich., S. Div., Doc. 3789, *G. Halinka* v. *Ford Motor Co. et al.*

1,604,093, 1,737,294, P. C. Booty, Receptacle for face powder, D. C. Mass., Doc. 6128, *M. T. Daly* v. *Evans Case Co.* Mandate C. C. A. dismissing appeal Mar. 9, 1942.

1,661,405, A. B. Broluska, Spark plug, D. C., E. D. Mich. (Detroit), Doc. 8266, *A. B. Broluska* v. *Sears, Roebuck & Co.* Judgment dismissing bill (notice May 10, 1943).

1,679,266, 2,043,007, B. C. Place, Fastener; 2,174,447, same, Securing trim panels, D. C., N. D. Ohio, E. Div., Doc. 20131, *G. E. Cagnier et al.* v. *Cuyahoga Spring Co.* dismissed May 7, 1943.

1,737,294. (See 1,604,093.) 1,754,889. (See 1,558,980.)

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1,943,864, 2,080,609, L. R. Heim, Bearing construction; 2,102,460, same, Method of making roller bearings, C. C. A., 2d Cir., Doc. —, *L. R. Heim* v. *The Torrington Co.* Decree affirmed (notice May 17, 1943).

1,948,192, A. R. Stargardter, Method of treating steel, D. C. N. J., Doc. E 5467, *Gillette Safety Razor Co.* v. *Consolidated Razor Blade Co., Inc.* Dismissed Apr. 7, 1941.

1,958,000. (See 1,462,456.) 1,989,801. (See 1,558,980.)

2,001,726, L. S. Henwood, Writing pen; 2,121,541, same, Method for manufacturing pen points, C. C. A., 2d Cir., Doc. —, *C. Howard Hunt Pen Co.* v. *Radiant Point Pen Corp. et al.* Decree affirmed (notice May 22, 1943).

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2,062,685. (See 1,928,468.) 2,080,609. (See 1,943,864.)

2,083,215, A. Balaban, Photographic diffusing device for enlarging and projection printing, D. C. Del., Doc. 15, *A. Balaban* v. *Polyphoto Corp.* Patent held valid and infringed (notice May 13, 1943).

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2,116,570, D. Goldman, Yarn fabric-package, D. C., S. D. N. Y., Doc. 20/200, *Belsic Products* v. *E-Z Thread Co.* Stipulation of discontinuance (notice May 19, 1943).

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2,219,240, D. Siegel, Method of knitting, D. C., S. D. N. Y., Doc. 12/265, *Beaunit Mills, Inc.*, v. *Eday Fabric Sales Corp. et al.* Order May 17, 1943.

2,272,149, M. Fixler, Method of making an article of manufacture; Des. 131,275, same, Embroidered needle work fabric, D. C., S. D. N. Y., Doc. 17/411, *Fixler Bros.* v. *B. Kugel Co., Inc.* "Stipulation and order (without prejudice)" (notice May 14, 1943).

2,302,331, J. F. Kuprion, Photo-finish device, filed May 3, 1943, D. C. Ky. (Louisville), Doc. 581, *Photofinish Device, Inc.*, v. *Churchill Downs, Inc.*

Des. 131,001, L. Abramson, Upholstered cedar chest, filed May 20, 1943, D. C., E. D. N. Y., Doc. 3278, *L. Abramson* v. *New Art Shop.*

Des. 131,275. (See 2,272,149.)

Des. 134,803, M. Hagan, Dress, filed May 13, 1943, D. C., S. D. N. Y., Doc. 21/220, *Nelson-Caine* v. *Beacon Frocks, Inc.*

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING MAY, 1943

EX PARTE THE DOBECKMUN COMPANY, Serial No. 441,353.

In a decision rendered May 1, 1943 (166 Ms. Dec. 165, 57 U. S. P. Q. 286), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to The Dobeckmun Company, of Cleveland, Ohio, of the mark "Breakfast Bread," the word "Bread" being disclaimed, for merchandise wrappers, particularly bread wrappers, sold in roll, sheet or bag form.

The position of the Examiner in refusing registration was referred to by the Assistant Commissioner as follows:

"The Examiner considers 'the mark does not function primarily as a trade-mark for wrappers, but rather as a designation of the contents to be wrapped in the wrappers' and therefore is not registrable; the Examiner considering the facts involved to be quite akin to those involved in *Ex parte Adams*, 255 O. G. 609."

In explaining his own position, the Assistant Commissioner said:

"Breakfast bread is bread primarily suitable for breakfast and therefore the words 'Breakfast Bread' applied to bread wrappers, particularly when, as appears on the specimen wrappers filed with the application, they are associated with the words 'Tailored for Toast' or 'Delicious Toasted,' are merely descriptive of the intended purpose and function of the wrappers, to wit, to contain or to enclose bread suitable for breakfast, for instance, toastable bread; and the mark is not registrable for the wrappers for that reason. *Walgreen Co.* v. *Godefroy Manufacturing Co.*, 22 C. C. P. A. 818, 454 O. G. 530, 74 Fed. (2d) 127. *Ex parte Viking Refrigerators, Inc.*, 532 O. G. 776, 163 Ms. D. 835, 51 U. S. P. Q. 142."

EX PARTE J. G. COMFORT COMPANY, INC., Serial No. 457,756.

In a decision rendered May 3, 1943 (166 Ms. Dec. 166, 57 U. S. P. Q. 389), *First Assistant Commissioner Frazer* passed upon a petition by J. G. Comfort Company, Inc., of New York, N. Y., that it "be permitted to file its registration in Class 32, furniture and bedding."

In his decision the First Assistant Commissioner said:

"The application as filed is for registration of applicant's trade-mark in Class 50, and the goods therein set forth are 'quilts, pillows, mattresses, blankets.' In his first action the Examiner said:

"'Quilts and blankets made of textile fabrics belong in Class 42, Knitted, netted and textile fabrics. If the blankets are made of rubber they are properly classified in Class 50, Merchandise not otherwise classified. Pillows and mattresses belong in Class 32, Furniture and upholstery. Since only a single class of merchandise may be included in one application (see sec. 2 of the act of May 4, 1906) applicant should elect the goods to be retained in this application which fall within a single class, cancel the remainder, and change the class number and title accordingly.'

"As pointed out by the Examiner in his answer to the petition, 'for many years the Office consistently has classified pillows and mattresses in Class 32; textile bed coverings of all kinds including sheets, blankets, comfortables, quilts, counterpanes and similar goods in Class 42; and rubber blankets in Class 50, in which class also have been placed rubberized fabrics, waterproofed fabrics and, in general, all specially treated fabrics in the piece.' This long established classification may not properly be disturbed for the accommodation of an individual applicant. *Ex parte Burroughs Adding Machine Co.*, 468 O. G. 755, 90 U. S. P. Q. 90.

"In so far as the relief sought is consistent with the Examiner's requirement, the petition is granted; otherwise it is denied."

THE ENRO SHIRT COMPANY *v.* CELANESE CORPORATION OF AMERICA, Cancellation No. 3977.

In a decision rendered May 4, 1943 (166 Ms. Dec. 169, 57 U. S. P. Q. 282), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the petition by The Enro Shirt Company, of Louisville, Ky., to cancel registrations Nos. 356,217 and 354,828, respectively issued April 19, 1938, and February 22, 1938, to Celanese Corporation of America, of New York, N. Y. Both registrations are of the mark "Celbreeze." The former registration is for men's and women's underwear and sport shirts and the latter is for cellulose piece goods.

The Examiner sustained the petition in view of a prior registration owned by petitioner of the mark "Twillbreeze" for dress and negligee shirts, knitted and textile underwear for men, and pajamas.

It was conceded that the goods involved are goods of the same descriptive properties. The sole issue presented on the appeal, the Assistant Commissioner said, related to the question of confusing similarity between the marks when applied to the goods. In discussing this issue, the Assistant Commissioner said:

"Appellant points out that the prefixes 'Cel' and 'Twill' differ in appearance, in sound and in connotation, 'Cel' suggesting that the material is cellulosic and 'Twill' suggesting that the material resembles twill, and asserts that the syllable breeze, common to both marks, 'if not descriptive, is so highly suggestive as used in both marks as to have little, if any, trade-mark significance', calling attention to many registrations to others of trade-marks containing 'breeze' as a word or syllable.

"In my opinion, the word 'breeze' is not descriptive of the goods and the registrations cited by appellant do not establish the word as applied to the goods involved to be publici juris. I consider the portion 'breeze' of the marks to have a trade-mark significance which it brings into both marks.

"The marks must be compared in their entireties, and even if the syllable 'breeze' should be regarded as descriptive of the goods this syllable should not be disregarded. *Marshall Field & Company* v. *R. H. Macy & Co., Inc.*, 28 C. C. P. A. 807, 115 Fed.(2d) 921, 525 O. G. 8. Considering the marks in their entireties and the goods to which they are applied it is my opinion that they are so similar in appearance, sound and in suggestive meaning that their concurrent use on those goods would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers, and that the Examiner was correct in sustaining the petition for cancellation of both of appellant's registrations."

SHARP & DOHME, INCORPORATED, *v.* SCHERING & GLATZ, INC., Opposition No. 20,792.

In a decision rendered May 4, 1943 (166 Ms. Dec. 167, 57 U. S. P. Q. 281), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of Sharp & Dohme, Incorporated, of Philadelphia, Pa., to the application of Schering & Glatz, Inc., of New York, N. Y., for registration of the mark "Thromobequin" for "a substance to be used in bringing about blood coagulation."

The Assistant Commissioner stated that opposer owns a registration of the mark "Thrombol" for a "blood coagulant" issued prior to applicant's first use of its mark, and has used that mark since prior to applicant's first use of its mark.

Two main issues were presented to the Assistant Commissioner for determination. One issue concerned the identity of the goods involved; the other, the confusing similarity of the marks applied to the goods.

In discussing the former issue, the Assistant Commissioner stated:

"Obviously, the registration and the application name identical goods. However the products to which the parties have actually applied their marks so far are not exactly the same in all respects the 'Thrombol' blood coagulant being a natural product compounded in either of two forms, one for local application and the other for subcutaneous application and the 'Thromboquin' blood coagulant being a synthetic product containing a quinine group and adapted for intravenous injection. These products are intended for application by or under the direction of a physician, and it appears to be conceded that the 'Thrombol' product and the 'Thromboquin' product are not likely to be mistaken one for the other.

"Applicant has stressed the specific differences between the blood coagulants to which the parties are now actually applying the marks. It seems to me the basis of comparison between the goods should not be so restricted but should be extended to a comparison of the goods as they are named in the application and in the registration. *General Foods Corporation* v. *Casein Company of America, Inc.*, 27 C. C. P. A. 797, 108 Fed.(2d) 261, 515 O. G. 562. In these no specific differences between the goods embraced are made apparent. Accordingly for the purpose of this decision, I think the goods involved should be considered to be identical."

Upon the issue of confusing similarity, the Assistant Commissioner had the following to say:

"'Thrombo' is a combining form used to denote a blood clot. Thus both marks 'Thrombol' and 'Thromboquin' have incorporated therein the meaning denoting a blood clot and are suggestive of blood clotting. I agree with the statement in applicant's brief that 'To the use of "l" in "Thrombol" we can ascribe no particular significance.' So the only suggestive meaning of 'Thrombol' is blood clotting. The suffix 'quin' of 'Thromboquin' suggests the presence of the quinine group in the preparation but the entire word 'Thromboquin' also includes the suggestion of blood clotting as well, and this latter suggestive meaning predominates in the mark. Accordingly, the suggestive meaning of the mark 'Thrombol' also predominates in the mark 'Thromboquin.'

"The marks must be compared in their entireties. *Marshall Field & Company* v. *R. H. Macy & Co., Inc.*, 28 C. C. P. A. 807, 115 Fed.(2d) 921, 525 O. G. 8. The marks are single words and even though 'Thrombo' is highly suggestive or were considered to be descriptive it would seem hardly possible that persons viewing the words would not attribute trade-mark significance to the entire words and would attribute such significance only to the final letter 'l' of 'Thrombol' and to the final syllable 'quin' of 'Thromboquin' as if these parts of the words were separate and distinct from the words as a whole.

"It seems to me that when the marks are used concurrently on blood coagulants by two different manufacturers the similarities between the marks in appearance, sound and suggestive meaning would be likely to cause purchasers and the public to be confused as to which manufacturer produced which product and confusion as to the source of origin of the products would result. I think such confusion would exist even when the blood coagulants to which the manufacturers applied the marks differed from each other as do the specific blood coagulants to which the parties now actually apply their marks.

"Accordingly, in my opinion, the concurrent use of the marks not only when used on goods as named in the registration and in the application but also when used on the goods to which the parties actually apply the marks would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers, and the notice of opposition should have been sustained."

EX PARTE MID-WEST ABRASIVE COMPANY, Serial No. 453,248.

In a decision rendered May 5, 1943 (166 Ms. Dec. 172, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Mid-West Abrasive Company, of Detroit, Mich., of the mark "Mid-West" for coated abrasive papers and cloths and abrasive stones.

The Assistant Commissioner stated that the Examiner considered the word "Mid-West" to be geographical in view of his decision in *Ex parte Western Stove Co., Inc.*, 538 O. G. 751, 163 Ms. D. 919, 53 U. S. P. Q. 316.

In agreeing with the Examiner that the word "Mid-West" is geographical, the Assistant Commissioner referred to the following definition of that word in Webster's New International Dictionary, Second Edition:

"That part of the United States occupying the northern half of the Mississippi River basin; roughly, the section extending from the Rocky Mountains to the Alleghenies, north of the Ohio River and the southern boundaries of Missouri and Kansas; the North Central States."

The meaning so given to the word "Mid-West," he said, is the predominant meaning of the word in the United States. The Assistant Commissioner then added:

"This word not only identifies a geographical location with considerable particularity but also every one has the right to use the word for purposes of geographical designation and registration of the mark for any specific goods would tend to interfere with or embarrass the rights of others to the free use of the word in connection with products identified with the Mid-West."

EX PARTE MID-WEST ABRASIVE COMPANY, Serial No. 453,249.

In a decision rendered May 5, 1943 (166 Ms. Dec. 170, 57 U. S. P. Q. 328), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Mid-West Abrasive Company, of Detroit, Mich., of a mark for coated abrasive papers and cloths and abrasive stones, which mark the Assistant Commissioner described as "consisting of the word 'Mid-West' and a relatively insignificant design."

The Assistant Commissioner repeated the rulings made in his concurrently rendered decision in trade-mark application, Serial No. 453,248.

EX PARTE FRAM CORPORATION, Serial No. 441,200.

In a decision rendered May 6, 1943 (166 Ms. Dec. 173, 57 U. S. P. Q. 330), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration under the act of March 19, 1920, to Fram Corporation, of East Providence, R. I., of the notation "Oil & Motor Cleaner," as a trade-mark for oil filters used with internal combustion engines. The Examiner refused registration on the ground

"that the alleged mark is not one which indicates the origin or ownership of the goods, but is rather a mere description of the goods."

In his decision the First Assistant Commissioner said:

"I agree with counsel for applicant that 'descriptiveness is no bar to registration under the 1920 act,' provided only that the descriptive word or expression proposed to be registered is one that is not inherently incapable of trade-mark significance.

"'Cleaner' is, of course, the generic name of applicant's filters, and the other words of the mark serve merely to

indicate the particular type of filter to which reference is made. It may well be that to persons who are familiar with applicant's device, the expression 'Oil & Motor Cleaner' is indicative of origin in applicant, particularly in view of the fact that the expression invariably appears in association with applicant's registered trade-mark 'Fram.' But by the general public, I think it would be regarded merely as the name of the goods."

GENERAL MILLS, INC., *v.* ECONOMY MILLS, Opposition No. 21,198.

In a decision rendered May 6, 1943 (166 Ms. Dec. 174, 57 U. S. P. Q. 329), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of General Mills, Inc., of Minneapolis, Minn., to the application of Economy Mills, of Lubbock, Texas, for registration of the notation "Everlay" for merchandise described as "poultry feeds."

Opposer relied upon its ownership of the registered mark "Surelay," appropriated to "poultry food."

In limiting the issues requiring determination by him, the First Assistant Commissioner said:

"Be they feeds or food, it seems to be agreed that the goods of the parties are substantially identical. Opposer having established priority of use, the issue thus resolves itself into the single question of confusing similarity between the trade-marks involved."

The First Assistant Commissioner, like the Examiner of Interferences, held the marks to be confusingly similar. The First Assistant Commissioner stated:

"Applicant argues in effect that the word 'lay' as used in the marks is merely descriptive of the goods and so must be disregarded, leaving for comparison only the word 'Ever' of applicant's mark with the word 'Sure' of opposer's mark, which words 'do not look alike, do not sound alike, and do not have the same meaning or significance.' The word 'lay,' however, is a component part of opposer's registered mark, and is not disclaimed by either party. Applicant's proposed dissection of the marks is thus untenable.

"'Surelay' and 'Everlay' differ considerably in appearance and in sound; but in view of the nature of the products to which they are applied, both are highly suggestive and both have practically the same significance. As pointed out in applicant's brief, 'sure' means 'certain;' and that applicant intends its word 'ever' to convey the same meaning is evidenced by its argument before the Examiner of Trade-Marks in the ex parte prosecution of its application."

SERVEL, INC., *v.* UNIVERSAL SLIDE FASTENER COMPANY, INC., Cancellation No. 3900.

In a decision rendered May 8, 1943 (166 Ms. Dec. 176, 57 U. S. P. Q. 330), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the petition of Servel, Inc., of New York, N. Y., for cancellation of a registration of the mark "Serval" for slide fasteners issued on March 4, 1941, under the act of March 19, 1920, to Universal Slide Fastener Company, Inc., also of New York, N. Y.

In regard to the petitioner, the Assistant Commissioner stated:

"Servel, Inc., was incorporated in December, 1927. Its principal business is the manufacture and sale of refrigerators and refrigerator parts which it sells under the trade-mark 'Servel'; this business having been begun and the trade-mark 'Servel' adopted by petitioner's predecessors in 1922. Sales have been large and widespread and petitioner has expended large sums of money in advertising the goods and the trade-mark 'Servel'. Petitioner has a registration of the trade-mark 'Servel' for these goods and also for ice, ice tongs, ice picks, kitchen chairs, tables and cabinets, and electric motors, but apparently does not now do as extensive, if any, business in these latter items."

Petitioner contended that the word "Serval" is not registrable under the act of 1920 because outside the scope of that act. He urged that said word is arbitrary and fanciful and is the type of mark to which the act of 1905 relates and is not a mark of the type to which the act of 1920 relates.

The Assistant Commissioner, in answering this argument, said:

"It appears to me that as to marks unregistrable under act of 1905 there is nothing in the act of 1920 which excludes such marks merely because they are of the arbitrary and fanciful type. The act reads in part as follows:

"'That the Commissioner of Patents shall keep a register of * * * (b) All other marks not registrable under the act of February 20, 1905, as amended, except those specified in paragraphs (*a*) and (*b*) of section 5 of that act * * *.'

"In the act of 1905 the same proviso which includes the name clause also includes the descriptive mark clause and the geographical mark clause and act of 1920 makes no distinction between marks to which those different clauses apply. Accordingly the fact that the mark 'Serval' may be of the arbitrary and fanciful type does not of itself preclude registry of the mark under act of 1920; and neither does the fact that the mark is substantially the name of the corporation Servel, Inc., preclude its registration under act of 1920 in the absence of probable confusion as to the origin of the goods of the parties. *Certain-teed Products Corporation* v. *Clark*, 1925 C. D. 57, 337 O. G. 476. *Technicolor, Inc., et al.* v. *Koh-I-Noor Bleistiftfabrik L. & C. Hardmuth*, 507 O. G. 1044, 163 Ms. D. 374, 43 U. S. P. Q. 17."

Petitioner contended that, because bags for storing food in refrigerators are frequently equipped with slide fasteners, the refrigerators and the slide fasteners on the food bags are so closely related to each other in use that they should be considered to be goods of the same descriptive properties in the statutory sense. The Assistant Commissioner disagreed with this contention. He said:

"Such slide fasteners are associated with the bags rather than with the refrigerators and the relationship between the slide fasteners and the refrigerators is so remote that I consider the Examiner was clearly correct in holding slide fasteners as such to be goods not of the same descriptive properties as refrigerators. Further, the registration of the mark 'Serval' is for slide fasteners, as such, and in my opinion purchasers and the public would not be inclined to believe that slide fasteners per se are a likely product of a refrigerator manufacturer. Therefore I consider that the concurrent use of the marks 'Serval' and 'Servel' on slide fasteners and on refrigerators respectively would not be likely to result in confusion as to the source of origin of the goods.

"In my opinion it has not been shown that the registrant has not been entitled to the exclusive use of the mark 'Serval' on slide fasteners at or since the date of its application for registration thereof (act of 1920, sec. 2), and that the petition for cancellation was properly dismissed."

EX PARTE HORACE W. HALL (DOING BUSINESS AS HALL MFG. CO.), Serial No. 448,758.

On May 8, 1943 (166 Ms. Dec. 175, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* modified the decision rendered by him in this case on February 15, 1943 (548 O. G. 771, 56 U. S. P. Q. 419). The Assistant Commissioner stated:

"It is noted that in my decision of February 15, 1943, in this case * * *, the reference to the surname 'Hall' as 'the dominating' feature of the mark may appear to be inconsistent with the statement therein that 'the fanciful and arbitrary design of the complete mark is so prominent and impressive and carries trade-mark significance to such an extent that, if disclaimer were made with respect to the surname "Hall", the mark should not be held to be barred from registration * * *'.

"For the sake of clarity and to avoid possible puzzlement the decision is hereby modified by designating the surname 'Hall' to be a prominent feature of the mark instead of the dominating feature thereof."

EX PARTE THE SCHOLL MFG. CO., INC., Serial No. 446,404.

In a decision rendered May 11, 1943 (166 Ms. Dec. 178, 57 U. S. P. Q. 332), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration under the provisions of the act of February 20, 1905, to The Scholl Mfg. Co., Inc., of New York, N. Y., of a mark for shoes.

The Examiner in his statement on appeal described the mark as

"comprising the notation 'Dr. Scholl's Foot Comfort Shoes,' flanked on either side by diagrams showing foot posture."

The First Assistant Commissioner stated that it should be added that the words "Foot Comfort Shoes" are partially inclosed within a paraph below the name "Dr. Scholl's." Registration was refused by the Examiner on the ground "that the mark exhibits merely a name without distinctive display and descriptive matter."

The First Assistant Commissioner observed that applicant had combined the marks of several registrations, which it had secured, to make up the single composite mark of the application. It was urged, he said, that because they have been separately registered, they are ipso facto registrable in combination. The several registrations were explained by the First Assistant Commissioner as follows:

"The pictorial features of applicant's mark are each separately registered under the act of 1905 for the same goods as those of the instant application. The paraph is similarly registered for stockings. The name 'Dr. Scholl's' is registered for shoes, but that registration was effected under the act of March 19, 1920. The notation 'Foot Comfort News' is registered under the act of 1905, for 'a publication issued quarterly covering knowledge of the feet.'

The applicant's contention was disposed of in the following manner:

"It will be observed * * * that only three of the registered marks are appropriated to shoes, and that one of these is registered under the act of 1920. In view of their separate registration under the act of 1905, I am inclined to agree with counsel for applicant that the Examiner was wrong in holding the 'diagrams showing foot posture' to be descriptive; but the other registrations referred to have no bearing upon any issue here presented."

In support of his ruling that the name feature of applicant's mark is not distinctively displayed, the Examiner cited the decision of the First Assistant Commissioner in *Ex parte Sears, Roebuck and Co.*, 527 O. G. 851, 49 U. S. P. Q. 507, which decision, as the latter noted, was affirmed by the United States Court of Customs and Patent Appeals, 132 Fed.(2d) 341, 56 U. S. P. Q. 166.

In principle the First Assistant Commissioner thought that case was controlling. He said:

"In applicant's mark the name 'Dr. Scholl's' is not even handwritten, but is printed in conventional letters. It is prominently displayed in such fashion that it is more likely to be remembered than other parts of the mark as indicating origin of the goods, and is thus the dominant feature of the mark under the rule stated in *Frankfort Distilleries, Incorporated*, v. *Kasko Distillers Products Corporation*, 27 C. C. P. A. 1189, 111 Fed.(2d) 481."

The First Assistant Commissioner also considered the question whether the expression "Foot Comfort" is descriptive of shoes, saying:

"Applicant asserts in effect that if descriptive at all these words do not describe the goods or the character or quality of such goods, but only the result or effect of their use, and insists that the statute does not forbid the registration of terms of this character. In at least two cases, however, the Court of Customs and Patent Appeals has affirmed the Patent Office in its refusal to register marks under the act of 1905 on the ground that they were merely descriptive of the intended purpose and function of the goods with which they were used. *In re General Permanent Wave Corporation*, 28 C. C. P. A. 1099, 118 Fed.(2d) 1020; *Walgreen Co.* v. *Godefroy Manufacturing Co.*, 22 C. C. P. A. 818, 74 Fed.(2d) 127. And applicant would scarcely want to deny that the words 'Foot Comfort' are, in that sense, descriptive of its shoes. At any rate it is my opinion that they are."

Applicant asserted that it has used the words "Foot Comfort" in connection with shoes and other products relating to the feet for many years, and argued that they have acquired a secondary meaning as indicating origin in applicant of the goods to which they are applied. However, the First Assistant Commissioner stated that it is now well settled that secondary significance does not cure the non-registrability of a descriptive term, citing *In re Canada Dry Ginger Ale, Inc.*, 24 C. C. P. A. 804, 86 Fed.(2d) 830.

Finally, it was argued that applicant's mark as a whole is not merely descriptive, nor merely the name of an individual; in applicant's brief it was stated:

"A trade-mark which contains registrable subject matter clearly does not consist 'merely in words or devices which are descriptive of the goods * * * or of the character or quality of such goods.' Nor can it consist 'merely in the name of an individual,' etc., or be 'merely a geographical name.' Its combination with other features removes it from these classes."

This question, the First Assistant Commissioner said, was carefully considered by the Court of Customs and Patent Appeals in the case of *In re American Cyanamid & Chemical Corporation*, 26 C. C. P. A. 712, 99 Fed.(2d) 964, and the conclusion there reached was directly contrary to applicant's contention.

BEECH-NUT PACKING COMPANY, *v.* LA CHOY FOOD PRODUCTS, INC., Opposition No. 21,534.

In a decision rendered May 13, 1943 (166 Ms. Dec. 180, 57 U. S. P. Q. 334), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Beech-Nut Packing Company, of Canajoharie, N. Y., to the application of La Choy Food Products, Inc., of Detroit, Mich., for registration of the mark "Beanuts" for an edible variety of soy beans cooked in vegetable oil and salted. The labels filed with the application, the Assistant Commissioner said, state that the soy beans are highly nutritive and are ready to eat. The Assistant Commissioner also said that the application avers use since May 15, 1941, and also asserts ownership by applicant of a registration issued April 23, 1935 of the mark "Beanut Butter" (the word "Butter" disclaimed) for peanut and soy bean butter.

The opposition was based on many registrations issued to opposer of marks featuring the word "Beech-Nut" for a great variety of food products, which, the Assistant Commissioner concluded, are clearly goods of the same descriptive properties as the goods named in applicant's application.

The Assistant Commissioner decided that the word "Beech-Nut" is so prominent in opposer's marks and the words "Beech-Nut" and "Beanut" are so similar in appearance, sound and in their suggestive meaning that the concurrent use of the marks on the particular food products to which the marks are applied would be likely to cause confusion. He stated:

"The marks must be compared in their entireties, but the mere fact that the word 'Beech-Nut' is associated with pictorial and design features and the word 'Beanut' appears alone does not necessarily render the marks not confusingly similar. *Borton Manufacturing Co. v. Hercules Powder Co.*, 24 C. C. P. A. 982, 88 Fed.(2d) 708, 483 O. G. 459. The word 'Beech-Nut' ordinarily denotes the nut of the beech tree. The word 'Beanut' is suggestive of a nut-like bean. There is a similarity in the suggestive meanings of the words in that one suggests a nut and the other a nut-like product. As pointed out by the Examiner both words have the same suffix 'nut' and prefixes which are quite similar in appearance and in pronunciation."

With respect to a contention by applicant based upon his prior registration, the Assistant Commissioner said:

"Applicant contends that its business in the soy bean product under the mark 'Beanut' is merely a normal extension of its business in peanut and soy bean butter under its registered trade-mark 'Beanut Butter' and therefore said prior registration gives applicant the right to the registration for which it has now applied, pointing out that opposer has not sought to cancel said prior registration. I do not consider applicant's contention to be sound. In my opinion applicant's prior registration does not preclude opposer from asserting its rights under its registrations in opposition to the granting of the registration for which applicant has now applied. *American Cyanamid Co. v. Synthetic Nitrogen Products Corp.*, 19 C. C. P. A. 1235, 58 Fed.(2d) 834, 423 O. G. 299."

THREE SISTERS, INC. *v.* SOUTHERN LIQUOR DISTRIBUTORS, INC., Opposition No. 21,283.

In a decision rendered May 13, 1943 (166 Ms. Dec. 182, 57 U. S. P. Q. 333), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by Three Sisters, Inc., of New York, N. Y., to the application of Southern Liquor Distributors, Inc., of Jacksonville, Fla., for registration of a composite mark, for wines, consisting of the words "Three Sisters" in association with silhouettes of three women's heads and the initials G B D on a ribbon-like background. The words "Three Sisters," the Assistant Commissioner said, is the dominating feature of the mark.

The Assistant Commissioner stated that opposer is a corporation organized and existing under the laws of the State of Delaware, engaged as a holding company in operating retail stores selling ladies' dresses and ladies' garments. The opposition, he said, was based on the allegation that the mark sought to be registered completely appropriates opposer's name to opposer's injury.

In sustaining the opposition upon the ground alleged, the Assistant Commissioner stated:

"I agree with the Examiner that with regard to what may be considered to be the complete corporate name of opposer the 'Inc.' may be disregarded and the words 'Three Sisters' should be considered as being the complete corporate name. By incorporating these words into its mark it is deemed that applicant has appropriate opposer's complete corporate name, and the appropriation is not rendered any less complete by the inclusion of additional features in the mark.

"The applicable law has been stated by Justice Sutherland in *American Steel Foundries v. Robertson et al.*, 269 U. S. 372, 342 O. G. 711, as follows:

"'Where the appropriation of the corporate name is complete, the rule of the statute by its own terms is absolute and the proposed mark must be denied registration without more.'

* * * * * * *

"Applicant stresses the fact that its goods, to wit, wines, and the dresses and ladies' garments sold in the stores operated by opposer are widely dissimilar merchandise. This is immaterial when the complete corporate name has been appropriated. *David Feldman, doing business as Feldman & Sons v. Amos and Andy, a firm consisting of Charles J. Correll and Freeman F. Gosden*, 21 C. C. P. A. 823, 68 Fed.(2d) 746, 411 O. G. 255."

Applicant sought consideration by the Assistant Commissioner of copies of certain trade-mark registrations. In regard to this matter, the Assistant Commissioner said:

"Applicant requests that copies of certain registrations be received and considered. Similar previous requests have been denied by the Examiner and by the First Assistant Commissioner, whose decision is deemed to be final and not properly reviewable on this appeal. Applicant's further request that judicial notice be taken of those registrations is denied. *The Standard Oil Co. of New Jersey v. Epley*, 17 C. C. P. A. 1224, 40 Fed.(2d) 997, 398 O. G. 547."

THE EUCLID COFFEE COMPANY *v.* KENNETH E. BEMIS, Opposition No. 21,160.

In a decision rendered May 14, 1943 (166 Ms. Dec. 184, 57 U. S. P. Q. 336), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of The Euclid Coffee Company, of Cleveland, Ohio, to the application of Kenneth E. Bemis, of Oakland, Calif., for registration of the word "Chummy" as a trade-mark for "meat and cheese sandwiches."

Opposer relied upon its ownership of the same mark, registered prior to applicant's claimed date of first use, for "chocolate flavored powder for making food drinks."

In sustaining the opposition, the First Assistant Commissioner said:

"Upon the record presented, I am constrained to agree with the Examiner of Interferences that the goods of the parties, broadly speaking, possess the same descriptive properties. That being true, and the trade-marks under which such goods are sold being identical, the registration of applicant's mark is expressly forbidden by the statute. *Philadelphia Inquirer Co. v. Coe*, 133 Fed.(2d) 385, 55 U. S. P. Q. 435."

SHARP & DOHME, INCORPORATED, *v.* ENDO PRODUCTS, INC., Opposition No. 20,566.

In a decision rendered May 15, 1943 (166 Ms. Dec. 185, 57 U. S. P. Q. 389), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by Sharp & Dohme, Incorporated, of Philadelphia, Pa., to the application of Endo Products, Inc., of New York, N. Y., for registration of the mark "Nicobee," displayed in reverse printing, for

"a preparation to supply nicotinic acid (anti-pellagra factor) and vitamin B_1 (anti-neuritic vitamin) simultaneously."

The applicant claimed use since August 1, 1939.

The Assistant Commissioner stated that the opposition was based upon, and that the record showed, prior use and registration by opposer of the mark "Nicovite" for a preparation named in the registration as being "a chemo-therapeutic agent used in the treatment of a metabolic deficiency." He also stated that from the record it appeared that nicotinic acid is the active constituent of the preparation.

The Assistant Commissioner noted that the preparations to which the parties apply their marks are of the type that are usually sold to physicians or on the prescription of a physician and are not apt to be purchased by the members of the lay public on their own initiative and responsibility, and he considered the circumstances in determining whether the marks are confusingly similar. In finding the marks to be confusingly similar, the Assistant Commissioner stated:

"Although the identical first parts 'Nico' of the marks may suggest that the products are nicotinic in character it would nevertheless, in my opinion, be viewed as arbitrary and as constituting strong indication of the particular manufacturer of the goods, and much more so than the last parts 'bee' and 'vite' of the marks. Moreover, even if the part 'Nico' of the marks should be considered more indicative of the nature of the products than of their source of origin, the marks, nevertheless, should be considered and compared in their entireties; as were the marks 'Crepeglo' and 'Crepetex' applied to hosiery in *Marshall Field & Company v. R. H. Macy & Co., Inc.*, 28 C. C. P. A. 807, 115 Fed.(2d) 921, 525 O. G. 8. Therefore even though physicians are a discriminating class of purchasers of medicinal products and the differences in the marks might indicate to physicians that the products were not identical in composition, nevertheless, the identical parts 'Nico' of the marks are so dominant over the other parts of the marks in trade-mark significance that in my opinion even physicians viewing the marks in their entireties would be likely to be led to believe that the marks indicate products of the same manufacturer. Further, the products are sold by druggists and may be purchased upon either written or verbal order, and may be purchased on verbal order by lay persons under direction of a physician as well as by physicians. In my opinion the marks of the parties are so similar to each other as to be likely to result not only in confusion of the products but also in confusion as to the source of origin of the goods when asked for verbally by such lay customers."

Applicant argued that opposer had abandoned its mark. Upon this matter the Assistant Commissioner had the following to say:

"Applicant contends that the record establishes abandonment of the mark 'Nicovite' by opposer, and in this connection relies on an unmounted label bearing the notation 'Nicotinic Acid (Formerly: "Nicovite" Tablets)' which applicant introduced in evidence as its 'Exhibit 2.' There is no showing of record that opposer ever actually discontinued use of its registered trade-mark 'Nicovite' on its products or ever used on the goods any label such as applicant's 'Exhibit 2.' The most the record shows is that opposer had such a label under consideration. In my opinion the record not only fails to establish abandonment of opposer's mark but, on the contrary, substantiates the prima facie evidence contributed by opposer's registration of continued use of the mark."

BARBER ASPHALT CORPORATION *v.* MOBILE PAINT MANUFACTURING COMPANY OF DELAWARE, INC., Cancellation No. 3952.

In a decision rendered May 19, 1943 (166 Ms. Dec. 189, 57 U. S. P. Q. 412), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the petition of Barber Asphalt Corporation, of Barber (Perth Amboy), N. J., for cancellation of trade-mark registration No. 390,054 issued to Mobile Paint Manufacturing Company of Delaware, Inc., of Wilmington, Del., and Mobile, Ala., under the act of March 19, 1920. The mark so registered is "Sta-Rite" for paints and paint enamels. The application for said registration was filed on November 7, 1939.

As stated by the Assistant Commissioner, petitioner is the owner of a renewed registration dated October 14, 1919, of the mark "Sta-Rite" for lumber, shingles, composition roofing, and lime and of another registration dated February 16, 1937, of a mark consisting of the word "Sta-Rite" and a geometrical figure, for asphalt shingles. Both of these registrations were issued under the act of February 20, 1905.

In his decision the Assistant Commissioner said:

"Since petitioner's registrations antedate the application date of respondent's registration, and no abandonment by petitioner of the use of the mark of either of its registrations on the goods named therein has been established, and the marks of the parties are substantially identical, the sole question is whether paints and paint enamels, which are the goods named in respondent's registration, are or are not goods of the same descriptive properties as the goods named in opposer's registrations, particularly shingles.

"Both shingles and paint are used on roofs for protective purposes and frequently paint is applied to shingles. Both shingles and paints are building supplies and are sold in the same stores and are apt to have the same source of manufacture. In fact, one manufacturer of both roofing and roofing paints is identified in the record. For these reasons it is my opinion that shingles and paints as named in respondent's registration are goods of the same descriptive properties in the statutory sense and that the concurrent use of the marks on the goods would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers."

GENERAL SHOE CORPORATION *v.* W. T. GRANT COMPANY, Opposition No. 21,573.

In a decision rendered May 19, 1943 (166 Ms. Dec. 187, 57 U. S. P. Q. 413), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of General Shoe Corporation, of Nashville, Tenn., to the application of W. T. Grant Company, of New York, N. Y., for registration of the word "Sunplay" in letters at various slants and with lines suggesting a rising or setting sun, for play shoes.

The opposition was based on the alleged ownership by opposer and its predecessors in title of a prior registration of the words "Sun Bath" associated with radiating lines suggesting sun rays, for boots, shoes and sandals, and alleged prior use of that mark on those goods.

Before the Assistant Commissioner applicant contended that the marks when applied to shoes are not confusingly similar and also contended that opposer had proved neither ownership of the registration asserted nor use of the mark.

In regard to the latter contentions, the Assistant Commissioner stated:

"The latter contentions were not asserted at final hearing before the Examiner. The decision of the Examiner recognized opposer as owner of the asserted registration and as prior user of the mark but no reconsideration of the decision was requested and there is no assignment of error with regard to either ownership of the registration or use of the mark. Accordingly the contentions that opposer has failed to establish ownership of the registration or use of the mark will not be considered on this appeal. However, even if it were held that opposer had failed to prove ownership of the registration or use of the mark, the registration may nevertheless be considered in connection with the question of applicant's right to registration. *Jacob Englander* v. *Continental Distilling Corporation*, 25 C. C. P. A. 1022, 95 Fed.(2d) 320, 496 O. G. 274. *Sparklets Corporation* v. *Walter Kidde Sales Company*, 26 C. C. P. A. 1342, 104 Fed.(2d) 396, 509 O. G. 533."

Upon the question of confusing similarity of the marks, the Assistant Commissioner said:

"As to the marks it seems to me the mark 'Sunplay' suggests playing in the sun and the mark 'Sun Bath' suggests sun bathing and that these two recreations are quite closely related and consequently the suggestive meanings of the marks are quite similar. Although 'Sun Bath' is two words and 'Sunplay' is one word, both marks comprise seven letters and begin with 'Sun.' Applicant contends that 'Sun' is publici juris and has no trademark significance in the marks. To that I do not agree. In *Florida Citrus Canners Cooperative* v. *California Fruit Growers Exchange*, 25 C. C. P. A. 963, 95 Fed.(2d) 512, 493 O. G. 710, it was stated in connection with the marks 'Sunny Mist' and 'Sunkist' as follows:

" 'The "Sun" portion of the marks is identical and, to our minds, there is in these cases a certain dominance, at least of meaning, or suggestiveness, in this prefix.'

"Furthermore even if 'Sun' were considered publici juris it nevertheless must be considered as a part of each mark and its effect on the appearance, sound and meanings attaching to the marks must be recognized. *Marshall Field & Company* v. *R. H. Macy & Co., Inc.*, 28 C. C. P. A. 807, 115 Fed.(2d) 921, 525 O. G. 8.

"In my opinion the marks considered in their entireties are so similar in appearance, sound and in their suggestive meanings that their concurrent use on shoes would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers, and therefore applicant is not entitled to registration of its mark in view of the registration asserted by opposer."

JOE AND TED FUNK, INC., *v.* MARCY LEE MANUFACTURING COMPANY, Cancellation No. 4097.

In a decision rendered May 22, 1943 (166 Ms. Dec. 195, 57 U. S. P. Q. 417), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the petition by Joe and Ted Funk, Inc., of New York, N. Y., to cancel registration No. 258,029, issued June 25, 1929, to Marcy Lee Manufacturing Company, of Dallas, Texas.

The petition was dismissed by the Examiner of Interferences on respondent's motion prior to answer. The Examiner held that the petition fails to set forth any statutory basis for cancellation of respondent's registration. In agreeing with the Examiner, the Assistant Commissioner said:

"The petition for cancellation predicates damage on the fact that respondent, on the basis of the registration now sought to be canceled, has successfully opposed the granting of a registration to petitioner of a mark which petitioner has been using. (*Marcy Lee Manufacturing Company* v. *Joe & Ted Funk*, 55 U. S. P. Q. 321.) The petition, however, does not allege use of petitioner's mark prior to the date of application for the registration sought to be canceled, nor does the petition allege that respondent was not entitled to the grant of the registration. Petitioner's main contention in the petition appears to be that respondent's assertion of its registration in the opposition proceeding constituted an illegitimate use of the registration and warrants cancellation thereof. This contention of illegitimate use of the mark has no substance here, particularly as petitioner failed to establish such contention in the opposition proceeding."

EX PARTE HUDSON HANDKERCHIEF CO., INC., Serial No. 434,446.

In a decision rendered May 22, 1943 (166 Ms. Dec. 194, 57 U. S. P. Q. 418), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration under the act of February 20, 1905, to Hudson Handkerchief Co., Inc., of Newark, N. J., of the word "Buckingham" enclosed in a decorative border, for handkerchiefs. The Examiner refused registration on the ground that the word "Buckingham" dominates the mark and its predominant meaning is geographical.

This position of the Examiner was upheld by the Assistant Commissioner, who stated:

"The Examiner pointed out that 'Buckingham' is the name of six towns in the United States and of a considerable town in England.

"Applicant asserts that more predominantly the word 'Buckingham' means Buckingham Palace in England and the Dukedom of Buckingham. However, it seems to me that although the word 'Buckingham' may suggest the palace and the dukedom mentioned it primarily means the towns having that name. The Examiner noted that 'Windsor' was held merely geographical in *Ex parte Anton Gottlieb*, 159 Ms. D. 91, 18 U. S. P. Q. 155. Later cases have held 'Oxford' and 'Manchester' to be merely geographical. *Ex parte Kindel Furniture Company*, 495 O. G. 718, 163 Ms. D. 129, 39 U. S. P. Q. 74. *Ex parte Davis Paint Company*, 462 O. G. 680, 159 Ms. D. 510, 27 U. S. P. Q. 455."

DAWE'S PRODUCTS CO. *v.* THE BORDEN COMPANY, Cancellation No. 3915.

In a decision rendered May 22, 1943 (166 Ms. Dec. 192, 57 U. S. P. Q. 416), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the petition of Dawe's Products Co., of Chicago, Ill., to cancel registration No. 355,715, issued March 29, 1938, to The Borden Company, of New York, N. Y.

The mark so registered consists of the word "Flaydry" appearing above the words "Lactoflavin Supplement," the latter words being disclaimed, for "lactoflavin supplement, a flavin produced from milk used as an ingredient in animal feeds." The product, the Assistant Commissioner said, also appears to be a supplement in poultry feeds. First use of the mark, the Assistant Commissioner also said, was asserted to be December 17, 1936.

The Assistant Commissioner stated that the petition was based on, and the record established, use by petitioner, since prior to the earliest date of use claimed by respondent of its mark, of the mark "Flako" on dried buttermilk sold and used for animal and poultry food. This product the Assistant Commissioner held to be goods of the same descriptive properties as the goods named in respondent's registration.

The Assistant Commissioner also held the marks of the parties to be confusingly similar. In support of this latter holding, the Assistant Commissioner stated:

"In the marks 'Flako' and 'Flaydry' the first three letters of each are identical in appearance and the first syllables 'Fla' and 'Flay' are the same in sound. On the other hand the latter parts 'ko' and ydry' are very dissimilar in appearance and the last syllables 'ko' and 'dry' of the marks are very dissimilar in sound. Neither portion of either mark impresses me as dominating the other portion of the mark either in appearance or in sound, but even so the first part of each mark is a very prominent part of the mark, and fully as prominent therein as the other part.

"The marks appear to be entirely arbitrary and fanciful and to have no suggestive meaning. To me 'Fla' does not suggest flavin, nor does 'Flako' suggest flakes, and the syllable 'dry' lacks suggestive meaning in 'Flaydry' as it lacks it in the words 'laundry' and 'tawdry.' The marks have no similar suggestive meaning because neither has any.

"Considering the marks in their entireties and recognizing that they are applied to similar goods, it is my opinion that due to the prominence in the marks of the first parts thereof and the similarity between these parts of the marks in appearance and in sound the marks in their entireties are so similar in appearance and in sound that confusion or mistake in the mind of the public and deception of purchasers will be likely to be caused by the concurrent use of the marks on the goods to which they are applied."

A subsidiary issue raised by respondent was treated by the Assistant Commissioner as follows:

"A registration of the mark 'Flako' for stock and poultry feed issued to a stranger to this proceeding prior to petitioner's first use of its mark 'Flako' has been produced by respondent, and respondent contends that because of this registration petitioner is not entitled to rely on its mark 'Flako', to cancel respondent's registration or to claim injury thereby. The Examiner ruled that notwithstanding this prior registration to a stranger petitioner had the right to assert its own use of the mark 'Flako' against respondent's registration. I am in agreement with that holding. *Falls* v. *Scholl Mfg. Co., Inc.*, 24 C. C. P. A. 1308, 90 Fed.(2d) 499, 485 O. G. 524."

WINTHROP CHEMICAL COMPANY, INC., *v.* INTERNATIONAL VITAMIN CORPORATION (AMERICAN HOME PRODUCTS CORPORATION, ASSIGNEE, SUBSTITUTED), Opposition No. 20,675.

In a decision rendered May 22, 1943 (166 Ms. Dec. 197, 57 U. S. P. Q. 417), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Winthrop Chemical Company, Inc., of New York, N. Y., to the application of International Vitamin Corporation, also of New York, N. Y., (American Home Products Corporation, of Jersey City, N. J., assignee, substituted) for registration of a mark consisting of the word "Blexin" associated with the initials "I.V.C" and the slogan "The House of Vitamins" and a border line, for a vitamin B complex preparation.

The opposition was based on a prior registration issued to opposer of the mark "Betaplexin" for a vitamin B complex preparation.

In sustaining the opposition, the Assistant Commissioner stated:

"The goods of the parties are identical and the priority of opposer's registration is conceded. The sole question relates to the confusing similarity of the marks as applied to the goods.

" 'Blexin' is the dominating feature of applicant's mark and is the word by which the product would be asked for. The portion 'plexin' of opposer's mark 'Betaplexin' contributes prominently to the appearance and to the sound of this mark, and in fact appears to be the dominating part thereof. This portion 'plexin' of opposer's mark is nearly identical with applicant's mark 'Blexin' in both appearance and sound and it is my opinion that due to these similarities and the prominence of the portion 'plexin' in opposer's mark, the marks in their entireties are so similar in appearance and in sound that their concurrent use on the identical preparations would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers; and in this connection due regard has been given to the fact that purchasers of vitamin preparations are apt to use care and discrimination in purchasing the goods."

ELECTRIC STORAGE BATTERY COMPANY *v.* LAHER BATTERY PRODUCTION CORPORATION, Cancellation No. 3917.

In a decision rendered May 22, 1943 (166 Ms. Dec. 196, 57 U. S. P. Q. 415), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby dismissed the petition of Electric Storage Battery Company, of Philadelphia, Pa., to cancel registration No. 388,492, issued June 24, 1941, to Laher Battery Production Corporation, of Oakland, Calif., under the act of March 19, 1920. The mark so registered consists of the word "Exeter" and an angular line, and is applied to automobile storage batteries. The Assistant Commissioner stated that the mark qualified for registration under the act of 1920 because it is merely geographical.

Petitioner relied on a registration of the word "Exide" for storage batteries and parts thereof and accessories therefor. This registration, the Assistant Commissioner said, was issued prior to the filing date of the application for respondent's registration sought to be canceled.

The Assistant Commissioner noted that the goods of the parties are identical and stated that the only question was whether or not the mark "Exeter" so nearly resembles the mark "Exide" as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers. He decided that these marks are not confusingly similar, saying:

" 'Exide' and 'Exeter' are similar in that both are single words beginning in 'Ex,' but there the similarity ends. The latter portions of the word have no noticeable similarity either in appearance or in sound. Furthermore, 'Exide' is fanciful and arbitrary, whereas 'Exeter' is so well known for its geographical meaning that to my mind it hardly could be mistaken for a word, such as 'Exide,' which does not have such, or any, geographical meaning. Were both words merely arbitrary and fanciful or were words which had the same or a similar connotation or descriptive or geographical meaning I could forsee the possibility of confusion between them when applied to storage batteries, but to my mind likelihood of confusion is rendered unlikely by the radical and dominating difference between the almost exclusively geographical character of the word 'Exeter' and the exclusively arbitrary and fanciful character of the word 'Exide.' I consider these marks to be comparable to the merely descriptive mark 'Hygrade' and the merely arbitrary and fanciful mark "Hy-Ray' which, as applied to lubricating oils, were held to be not confusingly similar in *Hygrade Sylvania Corporation* v. *Sontag Chain Stores Co., Ltd.*, 29 C. C. P. A. 799, 125 Fed.(2d) 389, 52 U. S. P. Q. 349."

HEIRLOOM NEEDLEWORK GUILD, INC., *v.* HAMILTON C. BATES (C. J. BATES & SON, ASSIGNEE, SUBSTITUTED), Opposition No. 21,476.

In a decision rendered May 26, 1943 (166 Ms. Dec. 198, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Heirloom Needlework Guild, Inc., of New York, N. Y., to the application of Hamilton C. Bates, of Chester, Conn. (C. J. Bates & Son, also of Chester, Conn., assignee, substituted), for registration of the notation "Airlume" as a trade-mark for "knitting needles for hand use."

Opposer relied upon its ownership of the trade-mark "Heirloom," separately registered for "wool yarn" and for "partly finished needle-point tapestries," and also used upon a doorstop outfit com-

prising materials for making tapestry-covered doorstops. This outfit, the First Assistant Commissioner said, includes yarn and needles.

In his decision the First Assistant Commissioner quoted as follows from the decision of the Examiner of Interferences:

"Applicant vigorously contends that although needles are included in opposer's partially completed outfits, the goods are not of the same descriptive properties for the reason that tapestry needles are specifically different from knitting needles. Admittedly this difference exists. However, the Examiner is of the opinion that purchasers of these goods being aware of the fact that opposer includes needles in the outfits which it sells would be reasonably likely to assume that other types of needles when sold under the same or similar mark had a common source of origin. Particularly is this deemed to be so since it appears that opposer sells at least one of the component elements of its outfits, namely, yarn, separately under the same mark. Accordingly, the goods are deemed to be of the same descriptive properties."

The First Assistant Commissioner stated that he was in complete agreement with the conclusion reached by the Examiner. He then added:

"As an authority to the contrary applicant cites *Holeproof Hosiery Co.* v. *Bates*, 542 O. G. 805, 54 U. S. P. Q. 338, where it was held by Assistant Commissioner Van Arsdale that knitting needles for hand use do not have the same descriptive properties as hosiery and knitted underwear. Unquestionably that case was correctly decided, but it does not necessarily follow that yarn and knitting needles are likewise of different descriptive properties. They are so closely related in use that their sale under the same or confusingly similar trade-marks would inevitably lead to the assumption that they emanated from the same source or were sponsored by the same concern.

"The marks of the parties differ somewhat in appearance and in significance, but phonetically they are identical. When pronounced they are thus bound to be confused."

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 29, 1943

[VOL. 551. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905. as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 460,314. ALBERT TROSTEL & SONS COMPANY, Milwaukee, Wis. Filed Apr. 30, 1943.

COMMANDO

FOR CATTLE SIDE AND CALF UPPER.
Claims use since Dec. 1, 1942.

Ser. No. 460,323. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed May 1, 1943. Under section 5b of the act of 1905, as amended in 1920.

Applicant is the owner of Reg. No. 67,012, registered January 14, 1908, and renewed January 14, 1928, and No. 67,137, registered January 21, 1908, and renewed January 21, 1928, effected on the ground of actual and exclusive use by the applicant of the mark shown therein on the goods recited in such registrations as a trade-mark for ten years next preceding February 20, 1905, and also of trade-mark registration No. 298,573, registered November 1, 1932, and registration No. 290,078, registered December 22, 1931, and registration No. 344,624, registered March 30, 1937, and registration No. 397,047, registered August 18, 1942, and the mark "Eastman" has been used by persons authorized by applicant on the articles named in the present application continuously in interstate commerce for at least one year. The words "Acetate Rayon" are disclaimed apart from the mark.

EASTMAN ACETATE RAYON

FOR SYNTHETIC STAPLE FIBER.
Claims use since July 31, 1937.

CLASS 2

RECEPTACLES

Ser. No. 460,587. UNION BAG & PAPER CORPORATION, New York, N. Y. Filed May 12, 1943.



DOLPHIN

FOR PAPER BAGS.
Claims use since Apr. 17, 1943.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 460,353. SOL SHERMAN, doing business as Sherman Bows, New York, N. Y. Filed May 1, 1943.

BABY

FOR COMBINATION UTILITY BAGS EQUIPPED WITH POCKETS FOR THE HOLDING OF TOILET ACCESSORIES AND WEARING APPAREL TO BE WORN AROUND THE WAIST BY MEANS OF A BELT THERETHROUGH.
Claims use since Apr. 14, 1943.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 458,981. ARGO & COMPANY, Memphis, Tenn. Filed Mar. 9, 1943.

ARGO SHEEN

FOR CLEANER FOR WOODWORK, FURNITURE, UPHOLSTERY, RUGS, VENETIAN BLINDS, WINDOWS, MIRRORS, AND AUTOMOBILES.
Claims use since Jan. 25, 1943.

CLASS 5

ADHESIVES

Ser. No. 458,619. AUGUST F. SCHRAMM, JR., New York, N. Y. Filed Feb. 18, 1943.
The word "Process" is disclaimed apart from the mark.

Selflex PROCESS

FOR ADHESIVE SIZING AND RESIN IN GRANULAR FORM FOR STIFFENING FABRICS AND LEATHER.
Claims use since Dec. 23, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 439,503. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Jan. 8, 1941.

BEVINA

FOR WINE BASE ELIXIR, A PALATABLE PREPARATION TO HELP STIMULATE THE APPETITE.
Claims use since June 15, 1940.

Ser. No. 445,337. SIMONS AND HEIDEN, Chicago, Ill. Filed July 14, 1941.

DUX

FOR PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT.
Claims use since July 3, 1941.

Ser. No. 456,310. EUGENE JACKSON, Thonotosassa, Fla. Filed Oct. 21, 1942.
Trade-mark is a facsimile of the signature of applicant.

Eugene Jackson

FOR CERTAIN NAMED ANTISEPTICS.
Claims use since July 1, 1915.

Ser. No. 457,211. CECILIA SALAZAR, New York, N. Y. Filed Dec. 4, 1942.

VITALITAS

FOR MEDICINAL COMPOUNDS OF MULTIPLE VITAMIN FACTORS.
Claims use since Oct. 16, 1942.

Ser. No. 457,219. A. E. HANDSCHY COMPANY, Chicago, Ill. Filed Dec. 5, 1942.

BLANKLO

FOR FILLER SOLUTION FOR REPAIRING PRINTING BLANKETS OR PLATENS.
Claims use since Aug. 10, 1942.

Ser. No. 457,221. A. E. HANDSCHY COMPANY, Chicago, Ill. Filed Dec. 5, 1942.

PLASAVER

FOR SOLUTIONS FOR RESTORING THE IMAGE ON A LITHOGRAPHIC PLATE.
Claims use since Jan. 9, 1942.

Ser. No. 458,270. L. R. KALLMAN, doing business as L. R. Kallman & Company, Chicago, Ill. Filed Feb. 1, 1943.

Crowning GLORY

FOR PERMANENT WAVE KIT CONTAINING PERMANENT WAVE SET AND NEUTRALIZING SOLUTION.
Claims use since Dec. 29, 1943.

Ser. No. 459,503. VI-JON LABORATORIES, INC., St. Louis, Mo. Filed Mar. 29, 1943.
No claim is made to the word "HONGKONG" apart from the mark.

NIGHT IN HONGKONG

FOR PERFUMES.
Claims use since Mar. 8, 1943.

Ser. No. 459,556. STONER-MUDGE, INC., Pittsburgh, Pa. Filed Mar. 31, 1943.

NODAN

FOR COATING MATERIAL FOR METAL TO PROTECT THE COATED METAL FROM OXIDATION DURING ANNEALING.
Claims use since Mar. 19, 1943.

Ser. No. 459,854. AFFILIATED PRODUCTS, INC., Jersey City, N. J. Filed Apr. 14, 1943.

GALLIVANTING

FOR COLOGNES.
Claims use since Apr. 5, 1943.

Ser. No. 459,934. THE KNOX COMPANY, Los Angeles, Calif. Filed Apr. 16, 1943.
No claim is made to the outline of a label or panel per se.

Disano

FOR MEDICINAL PREPARATIONS INDICATED IN AND FOR THE TREATMENT OF DYSENTERY AND DIARRHEA AND THE MITIGATION OF THE SYMPTOMATIC MANIFESTATIONS OF THESE DISORDERS.
Claims use since Nov. 30, 1942.

Ser. No. 460,021. EMDEE LABORATORIES, INC., New York, N. Y. Filed Apr. 20, 1943.

Neomins

FOR MEDICINAL VITAMIN PREPARATIONS.
Claims use since Apr. 8, 1943.

Ser. No. 460,035. THE PSYLLIUM COMPANY, Towson, Md. Filed Apr. 20, 1943.
No claim is made to the word "Purity" apart from the mark.

THE PURITY CROSS MARK

FOR VITAMIN PREPARATIONS.
Claims use since Oct. 13, 1942.

Ser. No. 460,068. REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 21, 1943.

SNOW PINK

The word "Pink" is disclaimed apart from the mark.
FOR FACE POWDER, ROUGE, AND MAKE-UP BASE.
Claims use since Feb. 15, 1943.

Ser. No. 460,069. REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 21, 1943.

SUN MOCHA

The word "Mocha" is disclaimed apart from the mark.
FOR FACE POWDER, ROUGE, AND MAKE-UP BASE.
Claims use since Feb. 15, 1943.

Ser. No. 460,234. CHEMICAL PROCESS COMPANY, San Francisco, Calif. Filed Apr. 28, 1943.

DUOLITE

FOR ZEOLITIC MATERIALS—NAMELY, SYNTHETIC RESINOUS ZEOLITES FOR FILTRATION AND PURIFICATION OF LIQUIDS AND GASES.
Claims use since Apr. 20, 1943.

Ser. No. 460,240. MAGITEX COMPANY, INC., Saco, Maine. Filed Apr. 28, 1943.

FOREST BREATH

FOR SPRAY COMPOSITION USED FOR DISINFECTING TO OVERCOME OBJECTIONABLE ODORS AND UNHEALTHFUL CONDITIONS AND AIR CONDITIONING.
Claims use since Oct. 30, 1939.

Ser. No. 460,247. ALPINOL CORPORATION, New York, N. Y. Filed Apr. 29, 1943.

LABOREMUS FIDENTER

FOR CHEMICAL, MEDICINAL, AND PHARMACEUTICAL SUBSTANCES, COMPOUNDS, AND PREPARATIONS FOR SUBCUTANEOUS, INTRAMUSCULAR, AND INTRAVENOUS INJECTION; AND NATURAL AND SYNTHETIC SUBSTANCES, AND COMPOUNDS AND PREPARATIONS THEREOF HAVING ALKALIZING, ANALGESIC, ANODYNOUS, ANTACID, ANTIPYRETIC, ANTISEPTIC, ASTRINGENT, DIGESTIVE, DIURETIC, EXPECTORATIVE, GERMICIDAL, HEALING, LAXATIVE, NUTRITIVE, SEDATIVE, SLENDERIZING, SOOTHING, STIMULATING, TONIC AND VASODILATING PROPERTIES, AND INDICATED IN AND FOR THE PREVENTION, MITIGATION OR TREATMENT OF ORGANIC, DEFICIENCY, FUNCTIONAL, INFECTIOUS AND TRAUMATIC AILMENTS, DISORDERS, DISEASES, INJURIES AND ATYPICAL PATHOLOGICAL CONDITIONS IN HUMAN MEDICINE.
Claims use since August 1935.

Ser. No. 460,275. STOP-LITE PRODUCTS, INC., Salt Lake City, Utah. Filed Apr. 29, 1943.

LARKS

FOR PREPARATION USED IN THE TREATMENT OF OVER ACIDITY.
Claims use since April 1942.

Ser. No. 460,294. HART PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 30, 1943.

KOPAN

FOR CHEMICAL PREPARATION USED IN THE FINISHING OF TEXTILE FABRICS.
Claims use since Jan. 1, 1943.

Ser. No. 460,316. ELDIE A. VAN WINKLE, Washington, Iowa. Filed Apr. 30, 1943.

BLUE NOSE

FOR ANTI-FREEZE COMPOSITION.
Claims use since Mar. 1, 1943.

Ser. No. 460,318. WEST DISINFECTING COMPANY, Long Island City, N. Y. Filed Apr. 30, 1943.

HYDROFECT

FOR DISINFECTANT AND FUNGICIDE.
Claims use since Nov. 11, 1942.

Ser. No. 460,319. WISCONSIN PHARMACAL COMPANY, Milwaukee, Wis. Filed Apr. 30, 1943.

HI-TENSE

FOR BLUEPRINTING SOLUTION.
Claims use since Mar. 5, 1941.

Ser. No. 460,372. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed May 3, 1943.

THIZODRIN

FOR MEDICINAL PREPARATION CONTAINING SODIUM SULFATHIAZOLE AND DESOXYEPHEDRINE USED AS A BACTERIOSTATIC AND BACTERICIDAL DECONGESTANT WHEN TOPICALLY APPLIED TO MUCOUS MEMBRANES.
Claims use since Mar. 29, 1943.

Ser. No. 460,472. FILTROL CORPORATION, Los Angeles, Calif. Filed May 7, 1943.

Percol

FOR CHEMICALLY TREATED COLLOIDAL CLAY ADAPTED FOR USE AS A DECOLORIZING, BLEACHING, FILTERING, PURIFYING, AND ABSORBING MEDIUM.
Claims use since Apr. 13, 1943.

Ser. No. 460,492. GEO. CALLAHAN & CO., INC., Closter, N. J. Filed May 8, 1943.

CAL-A-SAL

FOR SOLID SALAMMONIAC USED IN SOLDERING AND TINNING.
Claims use since Feb. 19, 1943.

Ser. No. 460,543. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed May 10, 1943.

Gelatabs

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF VITAMIN DEFICIENCIES.
Claims use since Dec. 1, 1942.

Ser. No. 460,554. BENJAMIN S. PASCHALL, doing business as Paschall Laboratories, Seattle, Wash. Filed May 11, 1943.

Episcorb

FOR MEDICINAL PREPARATIONS FOR USE IN THE TREATMENT OF ASTHMA, HAY FEVER, AND OTHER RESPIRATORY AILMENTS.
Claims use since Apr. 17, 1943.

Ser. No. 460,586. STANLEY LABORATORIES, Chicago, Ill. Filed May 12, 1943.

Stan-Det

FOR GREASELESS, ABSORBENT PREPARATION IN PASTE FORM FOR PROTECTING THE HANDS FROM DIRT, GREASE, PAINT, AND GRIME.
Claims use since May 5, 1943.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 459,211. TAYLOR-COLQUITT CO., Spartanburg, S. C. Filed Mar. 18, 1943.

Vapreg

FOR TREATED PLYWOOD, RAILROAD TIES, POLES, AND LUMBER.
Claims use since Dec. 16, 1942.

Ser. No. 459,212. TAYLOR-COLQUITT CO., Spartanburg, S. C. Filed Mar. 18, 1943.

Vapregnated

FOR TREATED PLYWOOD, RAILROAD TIES, POLES AND LUMBER.
Claims use since Dec. 16, 1942.

Ser. No. 459,675. SACKRETE, INCORPORATED, Cincinnati, Ohio. Filed Apr. 6, 1943.

CABLEKRETE

FOR CEMENTITIOUS MATERIAL FOR COVERING CABLES, CONDUITS, PIPES, AND THE LIKE.
Claims use since June 20, 1939.

Ser. No. 459,963. NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Filed Apr. 17, 1943.

340

FOR HEAT INSULATING CEMENT.
Claims use since 1939.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 456,279. WELL EQUIPMENT MANUFACTURING CORPORATION, Houston, Tex. Filed Oct. 19, 1942.

DIZZY

FOR PIPE UNIONS.
Claims use since May 31, 1938.

Ser. No. 459,793. HENRY D. NOEL, New York, N. Y. Filed Apr. 10, 1943.

DISH-A-DANDY

The word "dish" is disclaimed apart from the mark.
FOR DISH AND PLATE SUPPORT CLEATS FOR SHELVES.
Claims use since Mar. 16, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 460,435. SHELL OIL COMPANY, INCORPORATED, San Francisco, Calif. Filed May 5, 1943.

TENERA OIL

The word "Oil" is disclaimed apart from the mark.
FOR PETROLEUM LUBRICATING OIL.
Claims use since Mar. 16, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 458,023. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 19, 1943.

DURAGLAZE

FOR MASTIC COMPOUND FOR USE AS A PUTTY SUBSTITUTE IN THE GLAZING OF WINDOWS.
Claims use since Oct. 16, 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 460,047. H. AINSLEY HIGHMAN, Holliston, Mass. Filed Apr. 21, 1943.

AIRMOBILE

FOR AIRPLANES AND HELICOPTERS.
Claims use since Mar. 31, 1943.

Ser. No. 460,291. FAULTLESS CASTER CORPORATION, Evansville, Ind. Filed Apr. 30, 1943.

PLASKITE

FOR TRUCK CASTER WHEELS.
Claims use since Oct. 7, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 449,098. HYGRADE SYLVANIA CORPORATION, Salem, Mass., now by change of name, Sylvania Electric Products Inc. Filed Dec. 2, 1941.

SYLVANIA

FOR ELECTRIC LAMPS, ELECTRON TUBES, RADIO RECEIVERS, RADIO TRANSMITTERS, ELECTRIC WELDING CONTROLS, ELECTROMECHANICAL TUBE PROCESSING DEVICES, ELECTRON TUBE STORAGE CABINETS, AND COMPONENT PARTS OF EACH OF THE FOREGOING.
Claims use on electric lamps, since June 19, 1928; on electron tubes, since Dec. 29, 1924; on radio receivers, since August 1933; on radio transmitters, since July 1933; on electric welding controls, since December 1933; on electromechanical tube processing devices, since December 1939; and on electron tube storage cabinets, since April 1936.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 453,601. LOUIS MARX & COMPANY, INC., New York, N. Y. Filed June 11, 1942.

JACK FROST

FOR TOY REFRIGERATORS NOT INTENDED FOR ACTUAL REFRIGERATION.
Claims use since May, 1941.

Ser. No. 460,276. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Apr. 29, 1943.

"HUG-ME"

FOR KITS CONTAINING STAMPED OR CUT PIECES OF FABRICS, YARNS, STUFFING MATERIAL AND TRIMMINGS FOR KNITTING, CROCHETING, OR OTHERWISE MAKING STUFFED DOLLS, TOY STUFFED ANIMALS, TOY STUFFED FIGURES, AND STUFFED BALLS.
Claims use since Apr. 15, 1943.

Ser. No. 460,313. HERMAN L. STRONGSON, doing business as Wordweaver Co., New York, N. Y. Filed Apr. 30, 1943.

'WORDWEAVER'

FOR PUZZLE GAME.
Claims use since January, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 452,917. AKTIEBOLAGET FACIT, Atvidaberg, Sweden. Filed May 11, 1942.

Facit

FOR TYPEWRITERS, CASH REGISTERS, CHECK PROTECTORS, TABULATING MACHINES, BOOKKEEPING MACHINES, DUPLICATORS, CODE WRITERS, BILLING MACHINES, ADDRESSING MACHINES, PARTS THEREOF, AND ACCESSORIES.
Claims use since Jan. 15, 1919.

Ser. No. 459,394. BIXBY-ZIMMER ENGINEERING CO., Galesburg, Ill. Filed Mar. 27, 1943.

-BEE- ZEE-

FOR SCREENS—NAMELY, SCREENS FOR USE IN DE-WATERING, DRYING, AND SIZING COAL AND GRAVEL AND FOR SIMILAR PURPOSES.
Claims use since Oct. 5, 1942, as part of a composite mark, and since Feb. 2, 1943, for Bee-Zee alone.

Ser. No. 460,403. LANCASTER IRON WORKS, INC., Lancaster, Pa. Filed May 4, 1943.

IROQUOIS

FOR RAKES, TAMPERS, SMOOTHERS, STONE AND BINDER FORKS, SHOVELS, PATCHING HOES, POURING POTS, SPRINKLING POTS, BRICK FILLING POTS, ASPHALT AND TAR DIPPERS, ASPHALT CUTTERS, PAVER'S SHOES, AND HAND ROLLERS, ALL FOR THE APPLICATION OR LAYING OF BITUMINOUS PAVING MATERIALS; PORTABLE AND STATIONARY DRIERS FOR SAND, STONE, ETC.; ASPHALT PUMPS, ASPHALT MIXERS, AND ASPHALT-MIXING PLANTS.
Claims use since July 1, 1904.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 438,739. NASHUA GUMMED AND COATED PAPER COMPANY, Nashua, N. H. Filed Dec. 11, 1940.

JON BEE

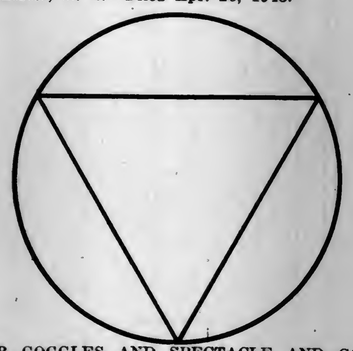
Applicant claims by and under this registration no monopoly in the manufacture, use or sale of sheets dotted with geometrical figures and, insofar as a part of the mark shown may be considered a representation of such a sheet or of a sheet or web of marking paper, pattern paper or marking cloth as above described, for purposes of the present registration disclaims the same apart from its inclusion with other features of the mark as a whole as shown.
FOR MARKING PAPER, PATTERN PAPER, AND MARKING CLOTH, BEING SHEETS OR WEBS HAVING ORIENTING CHARACTERS THEREON AND CONSTITUTING APPARATUS FOR USE IN CREATING, DUPLICATING, AND MAKING GARMENTS, GARMENT DESIGNS, AND PATTERN PIECES FOR GARMENTS.
Claims use since May 10, 1940.

Ser. No. 458,356. INDUSTRIAL ENGINEERING CO. INC., Minneapolis, Minn. Filed Feb. 5, 1943.

Ind-L Way

FOR PROTRACTORS.
Claims use since Sept. 10, 1942.

Ser. No. 460,170. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Apr. 26, 1943.



FOR GOGGLES AND SPECTACLE AND GOGGLE LENSES.
Claims use since September 1916 on lenses; since October 1938 on goggles.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 460,215. ORIS WATCH CO. LTD., Holstein, Switzerland. Filed Apr. 27, 1943.

FOR WATCHES AND CLOCKS AND PARTS OF WATCHES AND CLOCKS.
Claims use since 1928.

Ser. No. 460,217. ORIS WATCH CO. LTD., Holstein, Switzerland. Filed Apr. 27, 1943.

NOVORIS

FOR WATCHES AND CLOCKS AND PARTS OF WATCHES AND CLOCKS.
Claims use since 1931.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 451,034. GLOBE NOVELTY HOUSE, New York, N. Y. Filed Feb. 17, 1942. Under section 5b, act 1905, as amended 1920.

London

Applicant is owner of Reg. No. 130,314 (renewed) effected under the 10-year proviso for the word "London."
FOR MEN'S ORNAMENTAL JEWELRY—NAMELY, COLLAR BUTTONS AND COLLAR HOLDERS, CUFF BUTTONS, SCARF PINS, COLLAR PINS, CUFF LINKS, BELT BUCKLES, TIE HOLDERS, TIE CHAINS, WATCH BRACELETS, WATCH CHAINS, MONEY CLIPS, POCKET KNIVES, CIGARETTE CASES, AND KEY CHAINS, ALL OF THE FOREGOING BEING MADE OF OR PLATED IN WHOLE OR PART WITH PRECIOUS METAL.
Claims use since May 1, 1935.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 460,564. WM. T. BURNETT & CO., Baltimore, Md. Filed May 12, 1943.

PRESTO

FOR PREFORMED CORES OF FIBROUS MATERIAL FOR INCORPORATION IN UPHOLSTERED CUSHION CONSTRUCTIONS.
Claims use since Dec. 23, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 458,819. PHILCO CORPORATION, Philadelphia, Pa. Filed Feb. 27, 1943.

PHILCO

FOR FORCED DRAFT WINDOW VENTILATORS.
Claims use since 1941.

Ser. No. 459,637. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 5, 1943.

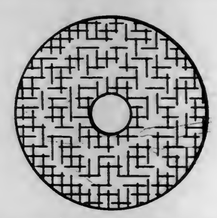
FEED-O-MATIC

FOR SELF-STOKING SPACE HEATERS.
Claims use since July 1941.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 453,894. KEYSTONE BRASS & RUBBER CO., Philadelphia, Pa. Filed June 26, 1942.
The mark consists of a yellow annulus. No claim is made to the representation of the goods apart from the mark.



FOR NONMETALLIC WASHERS, NONMETALLIC FAUCET CUSHIONS, AND NONMETALLIC BIBB WASHERS.
Claims use since June 16, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 459,010. THE J. L. MAY COMPANY, New York, N. Y. Filed Mar. 10, 1943.

"INDESTRUCTO"

FOR PAPER TAGS USED FOR STATIONERY IDENTIFICATION.
Claims use since Jan. 2, 1940.

Ser. No. 459,607. STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Apr. 3, 1943.
Applicant disclaims "Paper" apart from the mark.

Paper Does Express

FOR WRITING AND PRINTING PAPER.
Claims use since April 1915.

Ser. No. 459,608. STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Apr. 3, 1943.

Paper is Part of the Picture

Applicant disclaims "Paper" apart from the mark.
FOR WRITING AND PRINTING PAPER.
Claims use since September 1921.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 447,061. FARRELL PUBLISHING CORPORATION, New York, N. Y. Filed Sept. 16, 1941.



Applicant is the owner of Reg. No. 334,554, registered May 5, 1936. The words "Digest" and "The Digest Magazine for the Modern Woman" are disclaimed apart from the mark.
FOR PERIODICAL.
Claims use since November 1939.

Ser. No. 447,062. FARRELL PUBLISHING CORPORATION, New York, N. Y. Filed Sept. 16, 1941.



Applicant is the owner of Reg. No. 334,554, registered May 5, 1936. The word "Digest" is disclaimed apart from the mark.
FOR PERIODICAL.
Claims use since May 1941.

Ser. No. 456,648. AERO-CRAFTS CORPORATION, Los Angeles, Calif. Filed Nov. 5, 1942.



The word "Aero" is disclaimed apart from the mark.
FOR PRINTED LESSONS OF TECHNICAL INSTRUCTION AND INFORMATION.
Claims use since June 25, 1942.

Ser. No. 457,245. INSURANCE BROKERS EXCHANGE OF SAN FRANCISCO, San Francisco, Calif. Filed Dec. 7, 1942.

The BROKER

FOR PERIODICAL PUBLISHED MONTHLY.
Claims use since Jan. 1, 1921.

Ser. No. 457,430. AMERICAN AUTOMOBILE ASSOCIATION, INC., Washington, D. C. Filed Dec. 16, 1942. Under the act of Feb. 20, 1905, as amended June 10, 1938.

THE OLD AAA TRAVELER

FOR PAMPHLETS, BOOKS, BOOKLETS, AND MAGAZINES.
Claims use since June 2, 1938.

Ser. No. 457,857. M. L. J. MAGAZINES, INC., New York, N. Y., and St. Louis, Mo. Filed Jan. 11, 1943.

Archie comics

The word "Comics" is disclaimed apart from the mark.
FOR MAGAZINE PUBLISHED QUARTERLY.
Claims use since Nov. 12, 1942.

Ser. No. 459,625. HAIRE PUBLISHING COMPANY, New York, N. Y. Filed Apr. 5, 1943.

ROAD DUST

BY QUIONUNC

FOR MAGAZINE SECTION OR DEPARTMENT.
Claims use since July 1942.

CLASS 39

CLOTHING

Ser. No. 450,349. FRED ZELLER, INC., New York, N. Y. Filed Jan. 20, 1942.

ZIP-A-WRAP

The word "Wrap" is disclaimed apart from the mark.
FOR WOMEN'S HOUSECOATS.
Claims use since Nov. 1, 1941.

Ser. No. 455,142. LUXURAY, DIVISION OF BEAUNIT MILLS, INC., New York, N. Y. Filed Aug. 27, 1942.

The words "Campus Panty" are disclaimed apart from the mark.

The NEW 5 POINT **Campus** PANTY

FOR LADIES' PANTIES.
Claims use since Jan. 3, 1939.

Ser. No. 457,170. JANTZEN KNITTING MILLS, Portland, Oreg. Filed Dec. 2, 1942.

PETTIPANTS

FOR CORSETS.
Claims use since Nov. 13, 1942.

Ser. No. 458,182. L. L. ROSENTHAL AND COMPANY, INC., Chicago, Ill. Filed Jan. 26, 1943.

HAIR-PACA

The word "Hair" is disclaimed apart from the mark.
FOR MEN'S OVERCOATS.
Claims use since July 1, 1939.

Ser. No. 458,424. EASTERN COAT MANUFACTURING COMPANY, Watertown, Mass. Filed Feb. 9, 1943.

No claim is made to the words "Styled by Eastern Coat" apart from the mark.

Sportabout Eastern STYLED BY ☆ COAT

FOR MEN'S, BOYS', WOMEN'S, AND MISSES' COATS.
Claims use since Jan. 26, 1943.

Ser. No. 459,168. CURRICK & LEIKEN CO. INC., New York, N. Y. Filed Mar. 17, 1943.

The words "Virgin Wool" are disclaimed apart from the mark.



FOR SUITS, TOPCOATS, SPORT COATS, AND SPORT JACKETS, MADE OF WOOL FOR MEN AND WOMEN.
Claims use since Jan. 25, 1943.

Ser. No. 459,507. HYMAN CHADAKOFF, New York, N. Y. Filed Mar. 30, 1943.

Perfur-Pro

FOR GARMENTS LINED WITH PERFORATED SHEEPSKIN—NAMELY, COATS, SUITS, GLOVES, LEGGINGS, SHOES, JACKETS, SCARFS, VESTS, AND HATS FOR MEN, WOMEN, BOYS AND GIRLS.
Claims use since December 1942.

Ser. No. 459,517. HIGHLAND KNITTING MILLS, doing business as Forrest Knitting Mills, Philadelphia, Pa. Filed Mar. 30, 1943.

Applicant is the owner of registration Number 190,199, issued Oct. 7, 1924.

HIGHLAND



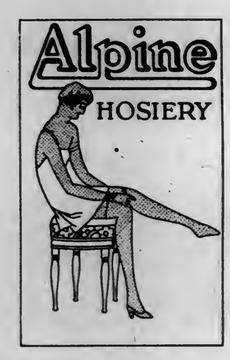
FOR SWEATERS, BATHING SUITS, AND BATHING TRUNKS.
Claims use on sweaters since July 27, 1922; on bathing suits and bathing trunks since Feb. 1, 1931.

Ser. No. 459,547. SAMUEL MCCRUDDEN & CO., INC., New York, N. Y. Filed Mar. 31, 1943.

Pompadour

FOR HANDKERCHIEFS, BOTH LADIES' AND GENTLEMEN'S.
Claims use since Feb. 8, 1943.

Ser. No. 459,669. MCCRORY STORES CORPORATION, New York, N. Y. Filed Apr. 6, 1943.



Applicant disclaims the word "Hosiery" apart from the mark. The picture is fanciful.
FOR HOSIERY.
Claims use since Jan. 17, 1933.

Ser. No. 459,690. WM. T. KNOTT COMPANY, INC., New York, N. Y. Filed Apr. 7, 1943.

Health-Flex

The word "Health" is disclaimed apart from the mark.
FOR SHOES OF LEATHER FOR CHILDREN.
Claims use since Feb. 22, 1942.

Ser. No. 459,832. GOLDTEX HOSIERY CO., Philadelphia, Pa. Filed Apr. 13, 1943.

Goldtex

FOR HOSIERY.
Claims use since Feb. 14, 1941.

Ser. No. 459,996. HARWILL BLOUSE CO., INC., Boston, Mass. Filed Apr. 19, 1943.

HARWILL

FOR MISSES', WOMEN'S, AND JUNIOR MISSES' DRESSES, BLOUSES, DICKEYS, JERKINS, SLACKS, AND JACKETS.
Claims use since December 1937.

Ser. No. 460,076. DAVID THOMAS, INC., Boston, Mass. Filed Apr. 21, 1943.

YANKYHANKY

FOR HANDKERCHIEFS AND SCARVES.
Claims use since Apr. 6, 1943.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 458,771. WALDES KOH-I-NOOR, INC., Long Island City, N. Y. Filed Feb. 25, 1943.

ZIP-A-LACE

Applicant disclaims the word "Lace" except as shown.
FOR DRAWSTRING CLOSURES IN THE NATURE OF SEPARABLE FASTENERS FOR WEARING APPAREL, DRAPERIES, SLIP COVERS, AND THE LIKE.
Claims use since Jan. 1, 1943.

Ser. No. 459,234. ARKWRIGHT, INCORPORATED, New York, N. Y. Filed Mar. 20, 1943.

FIRST LADY

FOR BIAS FOLD TAPE, SHOE LACES, GARMENT LACINGS, ELASTIC BELTING FOR CLOTHING, RIBBONS SOLD IN SHORT LENGTHS—NAMELY, WRIST WATCH RIBBONS AND SHOULDER STRAP RIBBONS, AND NARROW FABRICS—NAMELY, COTTON AND LINEN TAPE.
Claims use since Jan. 1, 1930.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 456,088. VERNEY MILLS, INC., Manchester, N. H. Filed Oct. 8, 1942.

by VERNEY

FOR PIECE GOODS MADE OF NATURAL OR SYNTHETIC FIBERS OR COMBINATIONS OF THE SAME COMPRISING FABRICS MADE OF RAYON, COTTON, COTTON AND RAYON, WOOL AND RAYON, AND SILK AND RAYON.
Claims use since Aug. 1, 1942.

Ser. No. 456,259. GRAF COMPANY, Union City, N. J. Filed Oct. 17, 1942.

LOVELY LADY

FOR CURTAINS, BED SPREADS, DRESSING TABLE SKIRTS, DRESSER SCARFS, QUILTS, AND PILLOW CASES.
Claims use since Sept. 29, 1942.

Ser. No. 457,423. THE PACIFIC LUMBER COMPANY, San Francisco, Calif. Filed Dec. 15, 1942.

Palconia

FOR BLANKETS, WOOLEN MIXTURE SUITINGS, BED COMFORTERS, AND WOOLEN MIXTURE PIECE GOODS.
Claims use since Dec. 4, 1942.

Ser. No. 459,967. SENECA TEXTILE CORPORATION, New York, N. Y. Filed Apr. 17, 1943.

RAY PUFF

Applicant disclaims the word "Puff."
FOR COTTON, RAYON, AND/OR SILK PIECE GOODS OR COMBINATIONS THEREOF.
Claims use since Mar. 24, 1943.

Ser. No. 460,500. DEERING MILLIKEN & CO., INC., New York, N. Y. Filed May 8, 1943.

BABY DUMPLING

FOR SHEETS AND PILLOW CASES.
Claims use since Apr. 16, 1943.

CLASS 43

THREAD AND YARN

Ser. No. 460,412. AMERICAN VISCOSE CORPORATION, Wilmington, Del. Filed May 5, 1943.

AVCOFLEX

FOR YARNS, THREADS, YARN AND THREAD FILAMENTS, ELASTIC YARNS AND THREADS, AND ELASTIC YARN AND THREAD FILAMENTS OF OR CONTAINING REGENERATED CELLULOSE, CELLULOSE ESTERS AND ETHERS, SUCH AS CELLULOSE ACETATE, SYNTHETIC RESINS, SUCH AS VINYL POLYMERS AND COPOLYMERS.
Claims use since Apr. 13, 1943.

Ser. No. 460,562. AMERICAN VISCOSE CORPORATION, Wilmington, Del. Filed May 12, 1943.

AVCOLAN

FOR YARNS, THREADS, AND YARN AND THREAD FILAMENTS.
Claims use since Apr. 22, 1943.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 458,228. SCHERING & GLATZ, INC., New York, N. Y. Filed Jan. 29, 1943.

AMPULITER

FOR EMPTY GLASS BOTTLES PARTICULARLY DESIGNED AND INTENDED FOR SUSPENSION IN AN INVERTED POSITION AND THE DRAINING THEREFROM OF INTRAVENOUS SOLUTIONS OR OTHER PHARMACEUTICAL PREPARATIONS.
Claims use since Oct. 13, 1942.

Ser. No. 460,419. COLLEGE OF ELECTRONIC MEDICINE, San Francisco, Calif. Filed May 5, 1943.

SHORT WAVE OSCILLOCLAST

No claim is made for the words "Short Wave" apart from the mark.
FOR SHORT WAVE OSCILLATORS FOR MEDICAL USE.
Claims use since May 1, 1919.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 460,266. MISSION DRY CORPORATION, Los Angeles, Calif. Filed Apr. 29, 1943.

MISSION

FOR NON-ALCOHOLIC BEVERAGES USED AS SOFT DRINKS AND BASES, CONCENTRATES AND EXTRACTS FOR THE PREPARATION OF SAME—NAMELY, ORANGE PUNCH, SODAS, BIRCH BEER, GINGER ALE, ROOT BEER, LIME RICKEY AND GRAPEFRUIT DRINK; FRUIT JUICES—NAMELY, LEMON JUICE, GRAPEFRUIT JUICE, AND ORANGE JUICE; SHERBET BASES; CARBONATED WATER, CARBONATED, VITAMINIZED WATER; FOUNTAIN BASES; VITAMIN CONCENTRATE FOR PREPARATION OF NON-ALCOHOLIC BEVERAGES.
Claims use since Dec. 1, 1919.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 454,225. BLANEY BAKERIES, INC., New York, N. Y. Filed July 15, 1942.

CRISPA

FOR POTATO CHIPS, PRETZELS, CANDIED POPCORN AND SALTED POPCORN.
Claims use since June 2, 1942.

Ser. No. 456,828. MARTINEZ FOOD CANNERS, LTD., Martinez, Calif. Filed Nov. 14, 1942.

RANGER

PACKED BY
MARTINEZ
FOOD
CANNERS
LTD.
MARTINEZ
CALIF.

No claim is made to the wording other than ranger.
FOR CANNED FRUITS, VEGETABLES, AND FISH.
Claims use since Oct. 27, 1942.

Ser. No. 457,869. G. C. BAILEY, doing business as E. W. Bailey & Company, Montpelier, Vt. Filed Jan. 12, 1943.
The name "Bailey's" in the possessive case is disclaimed apart from the mark.

BAILEY'S
PENNANT

FOR FEED FOR ANIMALS—NAMELY, LIVESTOCK AND POULTRY.
Claims use since January 1938, and since January 1927 for Pennant Brand on pennant.

Ser. No. 457,968. CALIFORNIA LETTUCE GROWERS, INC., Guadalupe, Calif. Filed Jan. 18, 1943.



No claim is made to the wording other than "Bear" or to the representation of the map of California apart from the mark.

FOR FRESH VEGETABLES.
Claims use since July 1, 1942.

Ser. No. 459,822. MAX AMS, INC., doing business as The Lippincott Company, New York, N. Y. Filed Apr. 13, 1943.



FOR FRUIT JAMS.
Claims use since 1928.

Ser. No. 460,143. FAIR PLAY CARAMELS, INC., Johnson City, N. Y. Filed Apr. 24, 1943.

JUNGLE BATS

FOR CANDY.
Claims use since Apr. 11, 1927.

Ser. No. 460,237. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y. Filed Apr. 28, 1943.
Applicant disclaims the word "Salt" apart from the mark.



FOR HOUSEHOLD SALT.
Claims use since 1934.

Ser. No. 460,324. HAWAIIAN PINEAPPLE COMPANY, LTD., Honolulu, Hawaii, and San Francisco, Calif. Filed May 1, 1943.

MIDWAY

FOR CANDY.
Claims use since Apr. 15, 1943.

Ser. No. 460,330. MOOSALINA PRODUCTS CORP., doing business under the name and style of Cobo Products Co., Brooklyn, N. Y. Filed May 1, 1943.

COBO

FOR CANNED TOMATO PASTE, CANNED VEGETABLES, CANNED FRUITS, AND CANNED FISH.
Claims use since 1918.

Ser. No. 460,501. M. D. GARDNER, Phoenix, Ariz. Filed May 8, 1943.
No claim is made to the word "Arizona" apart from the mark.

ARIZONA DAWN

FOR FRESH CITRUS FRUITS, AND DATES.
Claims use since Apr. 26, 1943.

CLASS 47
WINES

Ser. No. 459,813. GARDEN VINEYARDS WINERY & DISTILLERY CO., Fowler, Calif. Filed Apr. 12, 1943.

ROYAL GARDEN

FOR WINES.
Claims use since Dec. 8, 1936.

CLASS 49
DISTILLED ALCOHOLIC LIQUORS

Ser. No. 459,930. INTERNATIONAL DISTRIBUTORS, INC., New York, N. Y. Filed Apr. 16, 1943.

RON
CASA CHICA

Applicant disclaims the word "Ron" apart from the mark.
FOR RUM.
Claims use since Mar. 22, 1943.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 29, 1943

402,050. SALVE FOR OLD AND NEW SORES, BURNS, PILES, COUGHS, AND COLDS. WESTBROOK AND MCLAREN, Dierks, Ark.
Filed January 29, 1940. Serial No. 428,008. PUBLISHED APRIL 13. 1943. Class 6.

402,051. HAIR NETS. N. B. COHEN COMPANY, Scranton, Pa.
Filed December 24, 1940. Serial No. 439,170. PUBLISHED APRIL 13, 1943. Class 39.

402,052. METALLIC FITTINGS FOR FLUID CONDUITS. THE AEROQUIP CORPORATION, Jackson, Mich.
Filed January 17, 1941. Serial No. 439,742. PUBLISHED APRIL 20, 1943. Class 13.

402,053. TENNIS, SQUASH, AND BADMINTON PLAYING RACKETS. HORACE W. HALL, doing business as Hall Mfg. Co., Newton Highlands, Mass.
Filed November 19, 1941. Serial No. 448,758. PUBLISHED APRIL 6, 1943. Class 22.

402,054. ORNAMENTAL SHOE AND DRESS BOWS MADE OF FABRICS AND COMPOSITIONS; RIBBONS SOLD IN SHORT CUT LENGTHS, ETC. FRIEDMAN BROS. & SONS NECKWEAR CO., INC., New York, N. Y.
Filed January 20, 1942. Serial No. 450,332. PUBLISHED APRIL 13, 1943. Class 40.

402,055. LOCAL ANESTHETICS IN SOLUTION AND OINTMENT. NOVOCOL CHEMICAL MFG. CO. INC., Brooklyn, N. Y.
Filed February 28, 1942. Serial No. 451,316. PUBLISHED APRIL 14, 1942. Class 6.

402,056. SMOKED HAMS AND BACON. PERRY FOOD PRODUCTS CO., Chicago, Ill.
Filed June 4, 1942. Serial No. 453,467. PUBLISHED FEBRUARY 16, 1943. Class 46.

402,057. CHEMICAL PREPARATION FOR USE ON SILVER, GOLD, AND GLASSWARE FOR CLEANING THE SAME. STANLEY HOME PRODUCTS, INC., Westfield, Mass.
Filed June 4, 1942. Serial No. 453,475. PUBLISHED APRIL 20, 1943. Class 4.

402,058. CLEANER, WAX, AND POLISH. KEN-NITE COMPANY, Detroit, Mich.
Filed June 8, 1942. Serial No. 453,551. PUBLISHED APRIL 20, 1943. Class 16.

402,059. SHOES MADE OF LEATHER, FABRIC, PLASTICS, RUBBER, AND/OR COMBINATIONS OF SAID MATERIALS, AND/OR SUBSTITUTES FOR SAID MATERIALS. ARTHUR W. MCKAY, Sacramento, Calif.
Filed June 15, 1942. Serial No. 453,676. PUBLISHED APRIL 13, 1943. Class 39.

402,060. FEEDS FOR CARNIVOROUS, HERBIVOROUS, AND OMNIVOROUS ANIMALS—NAMELY, FEEDS FOR POULTRY, CATTLE, SWINE, RABBITS, SHEEP, DOGS, AND FOXES. GENERAL MILLS, INC., Minneapolis, Minn.
Filed August 15, 1942. Serial No. 454,927. PUBLISHED APRIL 20, 1943. Class 46.

402,061 REGISTERING MACHINES — NAMELY, POSTAGE REGISTERING MACHINES; POSTAGE MACHINES; POSTAGE RECEIPTING MACHINES; ETC. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio
Filed August 21, 1942. Serial No. 455,022. PUBLISHED APRIL 20, 1943. Class 26.

402,062. REGISTERING MACHINES — NAMELY, POSTAGE REGISTERING MACHINES; POSTAGE MACHINES; POSTAGE RECEIPTING MACHINES; ETC. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio
Filed August 21, 1942. Serial No. 455,023. PUBLISHED APRIL 20, 1943. Class 26.

402,063. LEATHER WRIST WATCH STRAPS. MAURICE NEISHTAT, New York, N. Y.
Filed October 5, 1942. Serial No. 455,986. PUBLISHED APRIL 13, 1943. Class 40.

402,064. AQUEOUS AND NONAQUEOUS WAX EMULSIONS WHICH MAKE ABSORBATIVE FIBROUS AND NONFIBROUS MATERIALS WATERPROOF AND WATER REPELLENT—NAMELY, FABRICS AND PAPER. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed October 31, 1942. Serial No. 456,559. PUBLISHED APRIL 13, 1943. Class 6.

402,065. LIQUID AND PASTE COLD WATER PAINT. WESTERN PAINT & VARNISH COMPANY, New Duluth, Minn.
Filed November 12, 1942. Serial No. 456,783. PUBLISHED APRIL 20, 1943. Class 16.

402,066. FOOT SOCKS. WILLIAM LIVINGSTON, doing business as Hosecraft Hosiery Mills, New York, N. Y.
Filed November 14, 1942. Serial No. 456,827. PUBLISHED APRIL 13, 1943. Class 39.

402,067. MEN'S AND BOYS' WEARING APPAREL—NAMELY, UNDERSHORTS, UNDERSHIRTS, UNION SUITS, DRESS, NEGLIGEE, AND SPORT SHIRTS, ETC. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo.
Filed November 16, 1942. Serial No. 456,860. PUBLISHED APRIL 6, 1943. Class 39.

402,068. COMPOSITION OF MATTER IN TABLET OR POWDERED FORM FOR ADMIXING WITH MILK AND BUTTER OR OLEOMARGARINE TO PRODUCE A SPREAD. DOUBLE-MIX, INC., Kansas City, Mo.
Filed November 19, 1942. Serial No. 456,919. PUBLISHED APRIL 13, 1943. Class 6.

402,069. CHILDREN'S LEATHER SHOES. STEPHEN PUTNEY SHOE COMPANY, Richmond, Va.
Filed December 7, 1942. Serial No. 457,254. PUBLISHED APRIL 6, 1943. Class 39.

402,070. MEDICAL PREPARATION ADAPTED FOR DIRECT APPLICATION TO THE HUMAN SKIN FOR TREATMENT OF ATHLETE'S FOOT AND SIMILAR FUNGUS AILMENTS OF THE SKIN. CUPRINOL, INC., doing business as Kopertox Laboratories, Boston, Mass.
Filed December 29, 1942. Serial No. 457,637. PUBLISHED APRIL 13, 1943. Class 6.

402,071. WATER-SOLUBLE FLUID COMPOSITION OF SOAPLESS LATHERING MATERIAL FOR SUPERFICIAL CLEANING OF METAL, GLASS, PLASTICS, LACQUERED OR PAINTED OR OTHER WATER-RESISTING SURFACES. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed December 29, 1942. Serial No. 457,645. PUBLISHED APRIL 20, 1943. Class 4.

402,072. GLASS SODA CUP HOLDERS. UNIVERSAL PAPER PRODUCTS COMPANY, Chicago, Ill.
Filed December 30, 1942. Serial No. 457,665. PUBLISHED APRIL 20, 1943. Class 33.

402,073. MANICURE SETS, NAIL FILES, NAIL BUFFERS, ORANGE-WOOD STICKS, TWEEZERS, MANICURE SCISSORS, NIPPERS, CORN KNIVES, CUTICLE KNIVES, MANICURE HANDLE PIECES, AND NAIL CLIPS. C. J. BATES & SON, Chester, Conn.
Filed December 31, 1942. Serial No. 457,670. PUBLISHED APRIL 20, 1943. Class 44.

402,074. CARBON BLACK USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed January 4, 1943. Serial No. 457,746. PUBLISHED APRIL 20, 1943. Class 1.

402,075. CARBON BLACK USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed January 4, 1943. Serial No. 457,747. PUBLISHED APRIL 20, 1943. Class 1.

402,076. CARBON BLACK USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed January 4, 1943. Serial No. 457,748. PUBLISHED APRIL 20, 1943. Class 1.

402,077. SOLID FUEL COOKING AND HEATING STOVES AND RANGES. CONSERVATOR PRODUCTS CO., Philadelphia, Pa.
Filed January 13, 1943. Serial No. 457,894. PUBLISHED APRIL 20, 1943. Class 34.

402,078. DENTAL APPARATUS FOR THE BAKING AND HEATING OF INVESTMENTS DURING THE REPAIRING AND RESETTING OF ARTIFICIAL DENTURES. FRANK ALLEN, New York, N. Y.
Filed January 20, 1943. Serial No. 458,029. PUBLISHED APRIL 20, 1943. Class 44.

402,079. MEDICINE FOR THE TREATMENT OF HEMORRHAGE, STOMACH CRAMPS AND ULCERS, A BOWEL AND URINE CLEANSER. JOHN HORVATH, Passaic, N. J.
Filed January 20, 1943. Serial No. 458,037. PUBLISHED APRIL 13, 1943. Class 6.

402,080. RESIN FOR USE IN THE RUBBER INDUSTRY. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed January 20, 1943. Serial No. 458,055. PUBLISHED APRIL 20, 1943. Class 1.

402,081. MEDICINAL PREPARATION FOR TREATMENT OF HEADACHE. PLOUGH, INC., Memphis, Tenn.
Filed January 22, 1943. Serial No. 458,106. PUBLISHED APRIL 20, 1943. Class 6.

402,082. BITUMINOUS COAL. EASTERN COAL SALES COMPANY, Bluefield, W. Va.
Filed January 23, 1943. Serial No. 458,112. PUBLISHED APRIL 20, 1943. Class 1.

402,083. BITUMINOUS COAL. EASTERN COAL SALES COMPANY, Bluefield, W. Va.
Filed January 23, 1943. Serial No. 458,113. PUBLISHED APRIL 20, 1943. Class 1.

402,084. BITUMINOUS COAL. EASTERN COAL SALES COMPANY, Bluefield, W. Va.
Filed January 23, 1943. Serial No. 458,114. PUBLISHED APRIL 20, 1943. Class 1.

402,085. AIRCRAFT HEATERS OF THE COMBUSTION TYPE. ANCHOR POST FENCE COMPANY, Baltimore, Md.
Filed January 25, 1943. Serial No. 458,142. PUBLISHED APRIL 20, 1943. Class 34.

402,086. HOUSEHOLD CLEANING AND POLISHING PASTE. HARRIET A. MINOR, New Orleans, La.
Filed January 25, 1943. Serial No. 458,157. PUBLISHED APRIL 13, 1943. Class 4.

402,087. OLEANDER GLUCOSIDE PRODUCT FOR USE AS A CARDIOTONIC. SPECIFIC PHARMACEUTICALS, INC., New York, N. Y.
Filed January 25, 1943. Serial No. 458,161. PUBLISHED APRIL 13, 1943. Class 6.

402,088. PARACHUTES. GENERAL TEXTILE MILLS, INC., New York, N. Y.
Filed January 27, 1943. Serial No. 458,189. PUBLISHED APRIL 20, 1943. Class 19.

402,089. LADIES' AND MISSES' HATS. LEIGHTON HATS, INC., New York, N. Y.
Filed January 28, 1943. Serial No. 458,209. PUBLISHED APRIL 6, 1943. Class 39.

402,090. ULTRA-VIOLET SPACE STERILIZING APPARATUS. AMERICAN STERILIZER COMPANY, Erie, Pa.
Filed January 29, 1943. Serial No. 458,216. PUBLISHED APRIL 20, 1943. Class 44.

402,091. MILITARY TOILET KIT CASES, DUFFLE BAGS, FURLOUGH BAGS FOR CARRYING CLOTHING, AND MONEY BELTS. HEIRLOOM NEEDLEWORK GUILD, INC., New York, N. Y.
Filed January 30, 1943. Serial No. 458,239. PUBLISHED APRIL 13, 1943. Class 3.

402,092. PREPARED DOG FOOD. HILL AND MOORE, Downers Grove, Ill.
Filed January 30, 1943. Serial No. 458,240. PUBLISHED APRIL 20, 1943. Class 46.

402,093. VITAMIN PREPARATION CONTAINING VITAMINS A, B_1, B_2, G, C, AND D. NOSTANE PRODUCTS CORPORATION, doing business as Dr. Browns Laboratories, Brooklyn, N. Y.
Filed February 1, 1943. Serial No. 458,279. PUBLISHED APRIL 20, 1943. Class 6.

402,094. STAPLE FIBERS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORORATION OF AMERICA, New York, N. Y.
Filed February 4, 1943. Serial No. 458,325. PUBLISHED APRIL 20, 1943. Class 1.

402,095. DOLLS. ROSLYN STOCK, doing business as Tweets Novelty Company, New York, N. Y.
Filed February 4, 1943. Serial No. 458,346. PUBLISHED APRIL 20, 1943. Class 22.

402,096. MARKING CRAYONS. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed February 5, 1943. Serial No. 458,351. PUBLISHED APRIL 20, 1943. Class 37.

402,097. POWDER PUFFS FILLED WITH POWDERED BODY DEODORANT. MADELAINE, INC., New York, N. Y.
Filed February 6, 1943. Serial No. 458,368. PUBLISHED APRIL 20, 1943. Class 6.

402,098. CALCITE GRIT FOR POULTRY FEED. HARRY T. CAMPBELL SONS' CORP., Towson, Md.
Filed February 8, 1943. Serial No. 458,387. PUBLISHED APRIL 20, 1943. Class 1.

402,099. POWDERED BEVERAGE BASE FOR MAKING NONALCOHOLIC BEVERAGES. MUTUAL CITRUS PRODUCTS CO., INC., Anaheim, Calif.
Filed February 8, 1943. Serial No. 458,401. PUBLISHED APRIL 13, 1943. Class 45.

402,100. POWDERED COMPOSITION INTENDED TO BE USED IN THE MANUFACTURE OF AN OIL BASE DRILLING FLUID. OIL BASE DRILLING FLUIDS CO., Los Angeles, Calif.
Filed February 8, 1943. Serial No. 458,402. PUBLISHED APRIL 20, 1943. Class 1.

402,101. CHEMICAL PREPARATION USED AS A CURING TREATMENT FOR NEW CONCRETE. ASHTON B. ROOD, Los Angeles, Calif.
Filed February 8, 1943. Serial No. 458,409. PUBLISHED APRIL 20, 1943. Class 6.

402,102. CHEMICAL FLUX FOR DEGASIFYING AND PURIFYING ALUMINUM AND ITS LIGHT ALLOYS; FOR ELIMINATING GASES AND OXYGEN ABSORBED DURING THE MELTING PROCESS AND FOR DISSOLVING OXIDES AND SECURING HOMOGENEOUSLY DENSE GRAINED CASTINGS. ATLANTIC CHEMICALS & METALS CO., Chicago, Ill.
Filed February 9, 1943. Serial No. 458,423. PUBLISHED APRIL 13, 1943. Class 6.

402,103. LEATHER. JOHN R. EVANS & COMPANY, Camden, N. J.
Filed February 9, 1943. Serial No. 458,425. PUBLISHED APRIL 20, 1943. Class 1.

402,104. CIGARETTE CASES NOT OF PRECIOUS METAL. MIDWEST MANUFACTURING & ENGINEERING CORP., Boston, Mass.
Filed February 9, 1943. Serial No. 458,430. PUBLISHED APRIL 20, 1943. Class 8.

402,105. ENZYME PREPARATION PARTICULARLY USEFUL FOR HYDROLYZING SUBSTRATES SUCH AS CASEIN, GELATIN, OR GLUE. RÖHM & HAAS COMPANY, Philadelphia, Pa.
Filed February 9, 1943. Serial No. 458,431. PUBLISHED APRIL 13, 1943. Class 6.

402,106. IRONING BOARD PADS. THE SUNLITE MFG. COMPANY, Milwaukee, Wis.
Filed February 11, 1943. Serial No. 458,487. PUBLISHED APRIL 20, 1943. Class 24.

402,107. MICACEOUS MINERAL MATERIAL HAVING INSULATING AND REFRACTORY PROPERTIES AND USED ALONE OR IN CONNECTION WITH OTHER MATERIALS IN SLAB OR OTHER FORMS. VICTOR INSULATORS, INC., Victor, N. Y.
Filed February 12, 1943. Serial No. 458,502. PUBLISHED APRIL 20, 1943. Class 1.

402,108. LADIES' AND MISSES' HATS. BRADFORD-NORTON, Birmingham, Ala.
Filed February 13, 1943. Serial No. 458,503. PUBLISHED APRIL 13, 1943. Class 39.

402,109. LADIES' AND MISSES' HATS. BRADFORD-NORTON, Birmingham, Ala.
Filed February 13, 1943. Serial No. 458,504. PUBLISHED APRIL 13, 1943. Class 39.

402,110. NONALCOHOLIC, MALTLESS BEVERAGES AND PRODUCTS FOR USE IN MAKING THE SAME. SAMUEL E. WEBB, doing business as Beverages of America Bottling Company, Philadelphia, Pa.
Filed Feb. 13, 1943. Serial No. 458,518. PUBLISHED APRIL 13, 1943. Class 45.

402,111. DIURETIC PREPARATION. FRANCISCO I. CARRERAS, doing business as Ebrey Chemical Works, Miami, Fla.
Filed Feb. 15, 1943. Serial No. 458,525. PUBLISHED APRIL 20, 1943. Class 6.

402,112. APPARATUS IN TELEPHONE SYSTEMS—NAMELY, TELEPHONE TERMINALS. COOK ELECTRIC COMPANY, Chicago, Ill.
Filed Feb. 15, 1943. Serial No. 458,528. PUBLISHED APRIL 20, 1943. Class 21.

402,113. LEATHER GASKETS, PACKINGS, AND WASHERS. EXCELSIOR LEATHER WASHER MANUFACTURING CO., Rockford, Ill.
Filed Feb. 15, 1943. Serial No. 458,532. PUBLISHED APRIL 20, 1943. Class 35.

402,114. ANALGESIC TABLETS. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y.
Filed Feb. 15, 1943. Serial No. 458,538. PUBLISHED APRIL 13, 1943. Class 6.

402,115. ANALGESIC TABLETS. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y.
Filed Feb. 15, 1943. Serial No. 458,539. PUBLISHED APRIL 13, 1943. Class 6.

402,116. ANALGESIC TABLETS. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y.
Filed Feb. 15, 1943. Serial No. 458,540. PUBLISHED APRIL 13, 1943. Class 6.

402,117. MEDICINAL PREPARATION FOR RELIEF OF MUSCULAR ACHES, HEADACHES, POST NATAL PAINS, GRIPPE, NEURALGIA. LYLE W. MILLS, doing business as Hill's Laboratories, Silver Spring, Md.
Filed Feb. 15, 1943. Serial No. 458,543. PUBLISHED APRIL 13, 1943. Class 6.

402,118. MEDICINAL MINERAL PREPARATIONS. THE BOVININE COMPANY, Jersey City, N. J.
Filed Feb. 16, 1943. Serial No. 458,566. PUBLISHED APRIL 13, 1943. Class 6.

402,119. OPHTHALMIC MOUNTINGS AND GOGGLES. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed Feb. 17, 1943. Serial No. 458,581. PUBLISHED APRIL 20, 1943. Class 26.

402,120. STEAM TRAPS. THE V. D. ANDERSON COMPANY, Cleveland, Ohio.
Filed Feb. 19, 1943. Serial No. 458,621. PUBLISHED APRIL 20, 1943. Class 13.

402,121. STAPLE FIBERS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed Feb. 19, 1943. Serial No. 458,626. PUBLISHED APRIL 20, 1943. Class 1.

402,122. LADIES' AND MISSES' HANDBAGS OF LEATHER AND COMBINATIONS THEREOF. BENJAMIN KRAMER, New York, N. Y.
Filed Feb. 19, 1943. Serial No. 458,632. PUBLISHED APRIL 20, 1943. Class 3.

402,123. VITAMIN PREPARATIONS FOR INTERNAL USE FOR THE TREATMENT OF VITAMIN DEFICIENCY. VALENTINE LABORATORIES, INC., Chicago, Ill.
Filed Feb. 19, 1943. Serial No. 458,640. PUBLISHED APRIL 13, 1943. Class 6.

402,124. PIPE COUPLINGS AND FEED VALVES. CARL S. PLAUT, doing business as Inerto Company, San Francisco, Calif.
Filed Feb. 20, 1943. Serial No. 458,660. PUBLISHED APRIL 20, 1943. Class 13.

402,125. MEDICINAL PREPARATIONS IN LIQUID FORM—NAMELY, LINIMENTS, EMBROCATIONS, LOTIONS; OR IN SOLID FORM—NAMELY, OINTMENTS, ETC. DR. EARL S. SLOAN INC., New York, N. Y.
Filed February 20, 1943. Serial No. 458,663. PUBLISHED APRIL 20, 1943. Class 6.

402,126. FRESH VEGETABLES AND MELONS. L. D. ANDERSON, doing business as Arizona Vegetable Distributors, Phoenix, Ariz.
Filed February 22, 1943. Serial No. 458,670. PUBLISHED APRIL 20, 1943. Class 46.

402,127. TANNING AGENTS. ARKANSAS COMPANY, INC., Newark, N. J.
Filed February 22, 1943. Serial No. 458,672. PUBLISHED APRIL 13, 1943. Class 6.

402,128. VITAMIN PREPARATION FOR USE IN PREVENTION AND TREATMENT OF VITAMIN DEFICIENCIES. NYAL COMPANY, Detroit, Mich.
Filed February 22, 1943. Serial No. 458,690. PUBLISHED APRIL 20, 1943. Class 6.

402,129. ANTACID FOR RELIEF OF EXCESSIVE GASTRIC ACIDITY. NYAL COMPANY, Detroit, Mich.
Filed February 22, 1943. Serial No. 458,691. PUBLISHED APRIL 20, 1943. Class 6.

402,130. PERFUME. SAMUEL RUBIN, New York, N. Y.
Filed February 22, 1943. Serial No. 458,693. PUBLISHED APRIL 20, 1943. Class 6.

402,131. VITAMIN PREPARATION FOR USE IN THE PREVENTION AND TREATMENT OF VITAMIN DEFICIENCIES. FREDERICK STEARNS & COMPANY, Detroit, Mich.
Filed February 22, 1943. Serial No. 458,694. PUBLISHED APRIL 13, 1943. Class 6.

402,132. GAUGE POINTS AND SHOES FOR MEASURING DEVICES. CRYSTALOY LABORATORIES, Chicago, Ill.
Filed February 24, 1943. Serial No. 458,726. PUBLISHED APRIL 20, 1943. Class 26.

402,133. SOLVENTS, PARTICULARLY FOR USE IN THE PREPARATION OF COSMETIC AND LIKE COMPOSITIONS. GIVAUDAN-DELAWANNA, INC., Delawanna, N. J., and New York, N. Y.
Filed February 24, 1943. Serial No. 458,730. PUBLISHED APRIL 13, 1943. Class 6.

402,134. PREPARATION FOR USE IN CORRECTION OF NUTRITIONAL DEFICIENCIES. THE VALE CHEMICAL CO., INC., Allentown, Pa.
Filed February 25, 1943. Serial No. 458,770. PUBLISHED APRIL 13, 1943. Class 6.

402,135. REFRIGERATORS, REFRIGERATOR CABINETS, REFRIGERATOR DOORS, AND REFRIGERATOR SEALED COMPRESSOR UNITS. PHILCO CORPORATION, Philadelphia, Pa.
Filed February 27, 1943. Serial No. 458,818. PUBLISHED APRIL 20, 1943. Class 31.

402,136. VITAMIN CAPSULES. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo.
Filed March 1, 1943. Serial No. 458,840. PUBLISHED APRIL 20, 1943. Class 6.

402,137. PERFUME, TOILET WATER, AND COLOGNE. EVELYN WESTALL, doing business as Evelyn Westall Co., New York, N. Y.
Filed March 2, 1943. Serial No. 458,870. PUBLISHED APRIL 20, 1943. Class 6.

402,138. PERFUME, TOILET WATER, AND COLOGNE. EVELYN WESTALL, doing business as Evelyn Westall Co., New York, N. Y.
Filed March 2, 1943. Serial No. 458,871. PUBLISHED APRIL 20, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,139. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. H. BUETER, doing business as T. H. Bueter Baking Co., Quincy, Ill. Filed Mar. 24, 1941. Serial No. 441,854.

BUETER'S

FOR BAKERY PRODUCTS—NAMELY, BREAD, ROLLS, AND CAKES.
Claims use since July 1911.

402,140. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BUDD ELECTRIC CO., Chicago, Ill. Filed Apr. 21, 1941. Serial No. 442,780.

Fluorescent
LITE-CONVERTER

FOR FLOOR LAMPS.
Claims use since Feb. 17, 1941.

402,141. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFING PRODUCTS COMPANY, Chicago, Ill. Filed Sept. 8, 1941. Serial No. 446,870.

FIT-SNUG

FOR COMPOSITION SHINGLES.
Claims use since July 15, 1941.

402,142. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STATE OF MAINE, Augusta, Maine. Filed Feb. 19, 1942. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 451,096.

SUPER SPUDS
STATE OF MAINE

FOR POTATOES IN THEIR NATURAL STATE.
Claims use since January 1942.

402,143. (CLASS 10. FERTILIZERS.) AGRICULTURAL LABORATORIES, INC., Columbus, Ohio. Filed Apr. 24, 1942. Serial No. 452,551.

SEED-AID

FOR PREPARATION FOR GERMINATING AND PROMOTING GROWTH IN SEEDS, PLANTS, FLOWERS, AND FRUITS.
Claims use since Mar. 10, 1942.

402,144. (CLASS 44. DENTAL, MEDICAL AND SURGICAL APPLIANCES.) WILLARD W. WENTZ, doing business as Victory Supply Company, Passaic, N. J. Filed May 13, 1942. Serial No. 453,001.

FLAT-RAP

FOR GAUZE BANDAGES.
Claims use since Apr. 8, 1942.

402,145. (CLASS 5. ADHESIVES.) MAURICE MALASKY, doing business as Safe-T-Seal Mfg. Co., Washington, D. C. Filed May 14, 1942. Serial No. 453,012.

SAFE-T-SEAL
"Saves Your Tires"

FOR SEALING COMPOUND FOR TIRE INNER TUBES.
Claims use since Apr. 27, 1942.

402,146. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) L. & H. STERN, INC., Brooklyn, N. Y. Filed May 26, 1942. Serial No. 453,280.

SUEZ

FOR SMOKERS' PIPES, CIGAR HOLDERS AND CIGARETTE HOLDERS.
Claims use since May 1, 1942.

402,147. (CLASS 12. CONSTRUCTION MATERIALS.) HENRY J. LUNDE, doing business as Casement Winter-Glaze Company, Port Washington, N. Y. Filed June 6, 1942. Serial No. 453,514.

Winter-Glaze

FOR STORM SASHES.
Claims use since Apr. 10, 1942.

402,148. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WEDGEPLUG VALVE COMPANY, New Orleans, La. Filed July 23, 1942. Serial No. 454,469.

WEDGEPLUG

FOR PLUG VALVES, GATE VALVES, GLOBE VALVES, ANGLE VALVES, NEEDLE VALVES, AND BALANCED CONTROL OR THROTTLING VALVES AS USED IN INSTRUMENT CONTROL OR METERING SYSTEMS.
Claims use since July 3, 1941.

402,149. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PARK J. RIES, doing business as Ries Camera Co., Hollywood, Calif. Filed Nov. 18, 1942. Serial No. 456,903.

TRI-LOK

FOR TRIPODS AND LOCKING ATTACHMENTS THEREFOR FOR USE WITH CAMERAS, TELESCOPES, SURVEYING AND OTHER FORMS OF SCIENTIFIC INSTRUMENTS.
Claims use since Sept. 9, 1939.

402,150. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CHARLES L. JARVIS COMPANY, Middletown, Conn. Filed Dec. 30, 1942. Serial No. 457,652.

Jarvis
POWER TOOLS

FOR FLEXIBLE SHAFT MACHINES EQUIPPED FOR ROTARY FILING, GRINDING, SNAGGING, POLISHING, BUFFING, SANDING ON VARIOUS MATERIALS, TAPPING ATTACHMENTS, TAPPING MACHINE EQUIPMENT, AND QUICK CHANGE CHUCKS AND COLLETS.
Claims use since December 1939.

402,151. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WINDSOR-LLOYD PRODUCTS, INC., Philadelphia, Pa. Filed Mar. 17, 1943. Serial No. 459,185.

DEVON

FOR WINDSHIELD WIPERS FOR AUTOMOBILES, TRUCKS, ETC.
Claims use since June 2, 1941.

402,152. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. JAY, doing business as B. F. Jay & Company, New York, N. Y. Filed Mar. 18, 1943. Serial No. 459,203.

TONY SARG'S

FOR TOY MUSICAL BLOCKS AND TOY BOOKS.
Claims use since September 1941.

402,153. (CLASS 44. DENTAL, MEDICAL AND SURGICAL APPLIANCES.) MAUDE E. DONALDSON, doing business as Donaldson Nipple Company, West Hartford, Conn. Filed Apr. 3, 1943. Serial No. 459,592.



FOR NIPPLES FOR NURSING BOTTLES.
Claims use since June 22, 1937.

402,154. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY WERTHEIMER, doing business as Dairy Supply Company, New York, N. Y. Filed Apr. 6, 1943. Serial No. 459,681.



FOR MILKING MACHINE.
Claims use since Mar. 18, 1942.

TRADE-MARK REGISTRATIONS RENEWED

23,649. **"EXCELSIOR" AND DRAWING.** NEEDLES. Registered September 26, 1893. EXCELSIOR NEEDLE COMPANY. Re-renewed September 26, 1943, to The Torrington Company, Torrington, Conn., a corporation of Maine, assignee by mesne assignments.

157,509. **GORDON.** LEATHER, FUR, AND FABRIC GLOVES; HATS AND CAPS OF FUR AND FABRIC FOR MEN, WOMEN, AND CHILDREN; CAPES OF FUR AND FABRIC, LEATHER VESTS, LEATHER OVERCOATS, FUR OVERCOATS, FUR-LINED OVERCOATS, SHEEPSKIN-LINED OVERCOATS, AND MACKINTOSHES. Registered August 8, 1922. GORDON & FERGUSON. Renewed August 8, 1942, to Gordon & Ferguson Company, St. Paul, Minn., a corporation of Delaware, successor.

162,503. **"SWESON" AND DRAWING.** UMBRELLA AND PARASOL RIBS. Registered December 19, 1922. S. W. EVANS & SON. Renewed December 19, 1942, to S. W. Evans & Son, Philadelphia, Pa., a corporation of Pennsylvania, assignee.

167,061. **CORKHILL.** HAMS AND BACON. Registered April 24, 1923. CORKRAN, HILL & CO. INC., Baltimore, Md. Renewed April 24, 1943, to Corkran Hill & Company, Incorporated, Baltimore, Md., and Chicago, Ill., a corporation of Maryland, assignee.

167,501. **LAW-LER'S BIG-10.** FLESH BUILDER AND IRON TONIC. Registered May 1, 1923. WILLIAM A. LAWLER, Lexington, Tenn. Renewed May 1, 1943.

167,803. **"BULLDOG" AND DRAWING.** SEAMLESS BRASS TUBES, SEAMLESS COPPER TUBES, AND CONDENSER TUBES. Registered May 8, 1923. BRITISH AMERICAN METALS COMPANY, INC., New York, N. Y. Renewed May 8, 1943, to Phelps Dodge Copper Products Corporation, New York, N. Y., and Dover, Del., a corporation of Delaware, assignee by mesne assignments.

167,926. **"EAGLE" AND DRAWING.** PURE WHITE LEAD. Registered May 8, 1923. THE EAGLE-PICHER LEAD COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed May 8, 1943.

168,071. **EASY TREAD.** RUBBER HEELS. Registered May 15, 1923. LYNCH HEEL COMPANY, Chelsea, Mass., a corporation of Massachusetts. Renewed May 15, 1943.

168,103. **UNOLOX.** PETROLEUM TAILINGS, ROAD OILS, RESIDUAL OILS, BLACK OILS, AND FUEL OILS. Registered May 15, 1923. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif., a corporation of California. Renewed May 15, 1943.

168,120. **AUTOFOIL.** SIZED GOLD LEAF, IMITATION GOLD LEAF, AND SILVER LEAF. Registered May 15, 1923. FRANK R. COUGHLIN, assignor to Coughlin Manufacturing Co., New York, N. Y., a partnership composed of Frank R. Coughlin and Paul V. Coughlin. Renewed May 15, 1943, to Coughlin Manufacturing Company, New York, N. Y., a firm, assignee.

168,157. **HICKORY PANTAWAIST.** UNDERGARMENTS OF TEXTILE FABRIC FOR CHILDREN. Registered May 15, 1923. A. STEIN & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 15, 1943.

168,192. **"SURE SHOT" AND DRAWING.** HOSE MADE OF RUBBER REENFORCED WITH FABRIC. Registered May 15, 1923. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed May 15, 1943.

168,250. **BETSY ROSS.** BROOMS. Registered May 15, 1923. GREENUP BROOM CO. INC., Greenup, Ill., a corporation of Illinois. Renewed May 15, 1943.

168,640. **CRATER BLUE.** CANNED AND DEHYDRATED FRUITS AND VEGETABLES. Registered May 29, 1923. KING'S FOOD PRODUCTS COMPANY, Portland, Oreg. Renewed May 29, 1943, to Paulus Bros. Packing Company, Salem, Oreg., a corporation of Oregon, assignee

169,149. **CRYSTAL.** ROOFING AND SHEATHING FELT. Registered June 12, 1923. THE BARRETT COMPANY. Renewed June 12, 1943, to Allied Chemical and Dye Corporation, New York, N. Y., a corporation of New York, assignee.

169,253. **BETHELITE.** DECORATIVE LANTERNS. Registered June 12, 1923. WALTER S. LAFANS, Minneapolis, Minn. Renewed June 12, 1943.

169,299. **VISKALT.** BITUMINOUS COMPOSITIONS USED SEPARATELY AND AS A BINDER, FILLER, COATING, AND INGREDIENT WITH OTHER MATERIALS. Registered June 12, 1923. THE RICHARDSON COMPANY, Lockland, Ohio. Renewed June 12, 1943, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts, assignee.

169,328. **CHARTER.** WRITING PAPER. Registered June 12, 1923. THE CINCINNATI CORDAGE & PAPER COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed June 12, 1943.

169,335. **VIS-KOTE.** SANITARY SOUND-DEADENING AND INSULATING FABRIC. Registered June 12, 1923. THE RICHARDSON COMPANY, Lockland, Ohio. Renewed June 12, 1943, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts, assignee.

169,353. **MARQUETTE.** RIM TOOLS AND TIRE TOOLS. Registered June 12, 1923. MARQUETTE MANUFACTURING COMPANY, St. Paul, Minn. Renewed June 12, 1943, to Marquette Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota.

169,829. **EVERJET.** READY-MIXED PAINT AND PAINT THINNER. Registered July 3, 1923. THE BARRETT COMPANY. Renewed July 3, 1943, to Allied Chemical and Dye Corporation, New York, N. Y., a corporation of New York, assignee.

170,109. **"THE SHIELD" AND DRAWING.** MAGAZINE PUBLISHED QUARTERLY, DEVOTED TO RELIGIOUS SUBJECTS. Registered July 10, 1923. CATHOLIC STUDENTS' MISSION CRUSADE, Cincinnati, Ohio, a non-profit charitable organization. Renewed July 10, 1943.

170,200. **BLACK SHIELD.** INSULATING PAPER. Registered July 10, 1923. THE BARRETT COMPANY. Renewed July 10, 1943, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York, assignee.

170,248. **MICRO-FINE.** CRAYONS, CHALKS, AND PENCILS. Registered July 10, 1923. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio, a corporation of Ohio. Renewed July 10, 1943.

170,413. **CHROMOGENE.** DYES AND DYESTUFFS. Registered July 17, 1923. H. A. METZ & CO., INC. Renewed July 17, 1943, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee.

170,656. **"LARVEX" AND DRAWING.** INSECTICIDE AND MOTHPROOFING COMPOSITION. Registered July 17, 1923. PROCESS CHEMICALS INCORPORATED. Renewed July 17, 1943, to Zonite Products Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

171,075. **IRONRITE.** MANGLES. Registered July 31, 1923. SPERLICH AND UHLIG COMPANY. Renewed July 31, 1943, to The Ironrite Ironer Company, Detroit, Mich., a corporation of Michigan, by change of name.

171,241. **GOLD-MAID.** HOSIERY. Registered July 31, 1923. SAMUEL A. GOLDBERG, Chicago, Ill. Renewed July 31, 1943.

171,270. **ELF.** ORANGES, GRAPEFRUIT, AND CITROUS FRUITS IN THEIR NATURAL STATE. Registered July 31, 1923. JOE MITCHELL KNIGHT, Elfers, Fla. Renewed July 31, 1943.

171,478. **"SUNRAY" AND DRAWING.** GAS RANGES AND HEATERS. Registered August 7, 1923. THE SUNRAY STOVE COMPANY, Delaware, Ohio, a corporation of Ohio. Renewed August 7, 1943.

171,567. **"C" AND DRAWING.** MACHINES FOR CUTTING SHEET METAL, SOMETIMES KNOWN AS NIBBLING MACHINES. Registered August 7, 1923. ANDREW C. CAMPBELL, INCORPORATED, Waterbury, Conn. Renewed August 7, 1943, to Andrew C. Campbell, Incorporated, Bridgeport, Conn., a corporation of Connecticut.

171,608. **JACQUEMME.** COTTON BLANKETS AND COTTON BLANKET PIECE GOODS. Registered August 7, 1923. THE ESMOND MILLS, Esmond, Smithfield, R. I. Renewed August 7, 1943, to The Esmond Mills, Inc., Esmond, R. I., a corporation of Rhode Island, assignee.

172,004. **"BRV" AND DRAWING.** LIQUID BITUMINOUS MATERIAL FOR COMPOUNDING RUBBER. Registered August 21, 1923. THE BARRETT COMPANY. Renewed August 21, 1943, to Allied Chemical and Dye Corporation, New York, N. Y., a corporation of New York, assignee.

172,006. **R R.** COTTON PIECE GOODS. Registered August 21, 1923. THE JOHN P. KING MANUFACTURING CO., Augusta, Ga., a corporation of Georgia. Renewed August 21, 1943.

172,213. **"B R C" AND DRAWING.** SOLID BITUMINOUS MATERIAL FOR COMPOUNDING RUBBER. Registered August 28, 1923. THE BARRETT COMPANY. Renewed August 28, 1943, to Allied Chemical and Dye Corporation, New York, N. Y., a corporation of New York, assignee.

172,214. **"B R H" AND DRAWING.** LIQUID BITUMINOUS MATERIAL FOR COMPOUNDING RUBBER. Registered August 28, 1923. THE BARRETT COMPANY. Renewed August 28, 1943, to Allied Chemical and Dye Corporation, New York, N. Y., a corporation of New York, assignee.

172,281. **"CHAMPION SPORTKNIT" AND DRAWING.** KNIT SWEATERS. Registered August 28, 1923. DANIEL STARR, Brooklyn, N. Y. Renewed August 28, 1943.

172,259. **ELECTRIP.** DEVICES FOR CONTROLLING THE STARTING AND STOPPING OF PHONOGRAPHIC APPARATUS. Registered August 28, 1923. THOMAS A. EDISON, INCORPORATED, West Orange, N. J., a corporation of New Jersey. Renewed August 28, 1943.

172,859. **"MISS NEW YORK JUNIOR" AND DRAWING.** GIRLS' COATS—NAMELY, OVERCOATS AND CAPES. Registered September 11, 1923. NEW YORK GIRL COAT CO., New York, N. Y. Renewed September 11, 1943, to New York Girl Coat Co., Summit, N. J., and New York, N. Y., a partnership, assignee.

173,131. **"PHILIP MORRIS" AND DRAWING.** CIGARETTES. Registered September 18, 1923. PHILIP MORRIS & CO. LTD., New York, N. Y., a corporation of Virginia. Renewed September 18, 1943.

173,259. **SORORITY GIRL.** WOMEN'S AND GIRLS' STOCKINGS AND HOSIERY GENERALLY. Registered September 18, 1923. CAMPE-DAVIS-BLAIR CO. INC. Renewed September 18, 1943, to Irwill Knitwear Corp., New York, N. Y., a corporation of New York, assignee.

173,372. **MISSION-KNIT.** HOSIERY, SWEATERS AND KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. Registered September 25, 1923. ARMIN H. WITTENBERG, doing business as Mission Hosiery Mills, Los Angeles, Calif. Renewed September 25, 1943.

173,389. **KEYSTONE.** BACON, HAM, BREAKFAST-BACON SQUARES. Registered September 25, 1923. SCHAFFNER BROTHERS COMPANY, Erie, Pa., a corporation of Pennsylvania. Renewed September 25, 1943.

173,614. **SOVEREIGN.** SAUSAGE, BOILED HAM, MEAT LOAF, PRESSED CORN BEEF, JELLIED TONGUE, AND COTTAGE BUTTS. Registered October 2, 1923. SCHAFFNER BROTHERS COMPANY, Erie, Pa., a corporation of Pennsylvania. Renewed October 2, 1943.

173,810. **"AZUL" AND DRAWING.** SOAPS. Registered October 2, 1923. COLGATE & COMPANY. Renewed October 2, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

174,120. **ACTION STORIES.** MONTHLY MAGAZINE, AND COMPLETELY-PRINTED BOOKS OF VARIOUS TITLES. Registered October 2, 1923. FICTION HOUSE, INC., New York, and Long Island City, N. Y. Renewed October 2, 1943, to Fiction House, Inc., New York, N. Y., a corporation of New York

174,165. **FRAM.** WORSTED YARN FABRIC KNOWN IN THE TEXTILE INDUSTRY AS A "REPS." Registered October 9, 1923. BOTANY WORSTED MILLS, Passaic, N. J., a corporation of New Jersey. Renewed October 9, 1943.

174,166. **EPINGLE.** WORSTED YARN FABRIC KNOWN IN THE TEXTILE INDUSTRY AS A "REPS." Registered October 9, 1923. BOTANY WORSTED MILLS, Passaic, N. J., a corporation of New Jersey. Renewed October 9, 1943.

174,260. **BONNIE BRIAR.** MIDDY BLOUSES, LADIES', CHILDREN'S AND MISSES' DRESSES, KNICKERS, BOYS' SUITS, BLOOMERS, OVERSKIRTS, WAISTS, AND SPORT COATS. Registered October 9, 1923. HARRY W. GOLDMAN, doing business as The Harry W. Goldman Co., Baltimore, Md. Renewed October 9, 1943, to Rosenau Brothers, Philadelphia, Pa., a partnership, assignee by mesne assignments.

174,506. **BOLERAS.** BROCADED WOOL PILE FABRIC. Registered October 16, 1923. BOTANY WORSTED MILLS, Passaic, N. J., a corporation of New Jersey. Renewed October 16, 1943.

174,507. **MODELLA.** WOOL PILE FABRIC. Registered October 16, 1923. BOTANY WORSTED MILLS, Passaic, N. J., a corporation of New Jersey. Renewed October 16, 1943.

174,518. **REPRESENTATION OF FISH CAKES IN A FRYING PAN.** POTATOES AND SALT FISH COMBINED FOR FISH CAKES. Registered October 16, 1923. GORTON-PEW FISHERIES COMPANY. Renewed October 16, 1943, to Gorton-Pew Fisheries Company, Ltd., Gloucester, Mass., a corporation of Massachusetts, assignee.

174,588. **REPINGLE.** WORSTED YARN FABRIC KNOWN IN THE TEXTILE INDUSTRY AS A "REPS." Registered October 23, 1923. BOTANY WORSTED MILLS, Passaic, N. J., a corporation of New Jersey. Renewed October 23, 1943.

174,599. **"C R L" AND DRAWING.** CERTAIN NAMED RADIO SIGNALING APPARATUS AND PARTS THEREOF. Registered October 23, 1923. CENTRAL RADIO LABORATORIES. Renewed October 23, 1943, to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware, assignee.

174,601. **MOTHER ANN.** SALT CODFISH. Registered October 23, 1923. GORTON-PEW FISHERIES COMPANY. Renewed October 23, 1943, to Gorton-Pew Fisheries Company, Ltd., Gloucester, Mass., a corporation of Massachusetts, assignee.

174,606. **"GETTING ON" AND DRAWING.** MONTHLY MAGAZINE. Registered October 23, 1923. DAVID SMART, Chicago, Ill. Renewed October 23, 1943.

174,660. **"SUNRAY" AND DRAWING.** CANDIES. Registered October 23, 1923. PEERLESS CONFECTION COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 23, 1943.

174,747. **REPRESENTATION OF TWO MONKEYS.** READY FELT ROOFING. Registered October 23, 1923. THE BARRETT COMPANY. Renewed October 23, 1943, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York, assignee.

174,758. **"EAGLE" AND DRAWING.** SPRINGS FOR GENERAL USE SUCH AS COMPRESSION, EXTENSION, AND TORSION SPRINGS. Registered October 23, 1923. MILLER & VAN WINKLE, INC., Brooklyn, N. Y. Renewed October 23, 1943, to Miller & Van Winkle, Inc., Paterson, N. J., a corporation of New Jersey, assignee.

174,760. **"PINNACLE" AND DRAWING.** SHOVELS, SPADES, SCOOPS, POSTHOLE DIGGERS, AND WOODEN HANDLES. Registered October 23, 1923. BALDWIN TOOL WORKS. Renewed October 23, 1943, to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a corporation of Delaware, assignee by mesne assignments.

174,857. **RECIFILE.** COMPILATION OF RECIPES, CARD INDEX OF RECIPES, AND PRINTED RECIPES. Registered October 23, 1923. GEO. D. ROPER CORPORATION, Rockford, Ill., a corporation of Illinois. Renewed October 23, 1943.

175,004. **FLUXOL.** HARDWOOD PITCH. Registered October 30, 1923. THE RUBBER SERVICE LABORATORIES COMPANY, Akron, Ohio. Renewed October 30, 1943, to Forest Products Chemical Company, Memphis, Tenn., a corporation of Tennessee, assignee.

175,067. **"COLLEGE INN" AND DRAWING.** CERTAIN NAMED COOKED AND CANNED FOOD PRODUCTS. Registered October 30, 1923. College Inn Food Products Co., Chicago, Ill., a corporation of Illinois. Renewed October 30, 1943.

175,079. **"PEERLESS MAID" AND DRAWING.** CANDIES. Registered October 30, 1923. PEERLESS CONFECTION COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 30, 1943.

175,164. **"O D J" AND DRAWING.** WEIGHING SCALES AS WELL AS COIN-CONTROLLED SCALES. Registered October 30, 1923. O. D. JENNINGS & COMPANY. Renewed October 30, 1943, to O. D. Jennings & Company, Chicago, Ill., a corporation of Illinois, assignee.

175,176. **BUNNY.** WOVEN TEXTILE FABRICS USED AS BLANKET FABRICS, UPHOLSTERY FABRICS, AND DRESS FABRICS FOR MAKING CLOTHING, BOTH UNDERWEAR AND OUTERWEAR. Registered October 30, 1923. THE ESMOND MILLS, Esmond, Smithfield, R. I. Renewed October 30, 1943, to The Esmond Mills, Inc., Esmond, R. I., a corporation of Rhode Island, assignee.

175,177. **POPPLETTE.** FABRIC KNOWN AS A WORSTED REP. Registered October 30, 1923. BOTANY WORSTED MILLS, Passaic, N. J., a corporation of New Jersey. Renewed October 30, 1943.

175,293. **GORHAM.** DESK SETS, PENS, FOUNTAIN PENS, LEAD PENCILS, STEEL BLADE ERASERS, LETTER OPENERS, WRITING PAPER AND ENVELOPES, AND DIARIES. Registered November 6, 1923. GORHAM MANUFACTURING COMPANY, Providence, R. I., a corporation of Rhode Island. Renewed November 6, 1943.

175,295. **PER-MA-LITE.** OIL PAINT, READY-MIXED AND PASTE; LINSEED OILS, FLOOR WAX, FLOOR AND FURNITURE POLISH, PUTTY, WHITE LEAD, AND RED LEAD. Registered November 6, 1923. GEORGE M. BUDEKE, trading as George M. Budeke Co. and Budeke's, Baltimore, Md. Renewed November 6, 1943.

175,299. **CREDIT.** WRITING PAPER. Registered November 6, 1923. FOX RIVER PAPER COMPANY. Renewed November 6, 1943, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

175,326. **WATER FLOWER CREPE.** TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. Registered November 6, 1923. FORT HOWARD PAPER COMPANY, Green Bay, Wis., a corporation of Wisconsin. Renewed November 6, 1943.

175,353. **BARBARA WAYNE.** VESTS, BLOOMERS, KNICKERBOCKERS, DRAWERS, UNION SUITS, COMBINATIONS, ENVELOPE CHEMISES, CORSET COVERS, NIGHTGOWNS, BATHING SUITS, PYJAMAS MADE OF KNITTED AND TEXTILE MATERIALS. Registered November 6, 1923. VANITY FAIR SILK MILLS. Renewed November 6, 1943, to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania, by change of name.

175,435. **EXCHANGE.** CANNED VEGETABLES. Registered November 6, 1923. THE WINORR CANNING COMPANY, Circleville, Ohio, a corporation of Ohio. Renewed November 6, 1943.

175,517. **"VANITY FAIR" AND DRAWING.** VEILS AND SILK CLOTH IN THE PIECE. Registered November 6, 1923. VANITY FAIR SILK MILLS. Renewed November 6, 1943, to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania, by change of name.

175,550. **"VERUS AD FINEM" AND DRAWING.** HANDSEWING AND MACHINE-SEWING LINEN THREADS. Registered November 6, 1923, BARBOUR FLAX SPINNING Co., Paterson, N. J. Renewed November 6, 1943, to The Linen Thread Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

175,598. **SNUG-NEE.** WOMAN'S UNDERWEAR OF KNITTED AND TEXTILE FABRICS. Registered November 6, 1923. VAN RAALTE COMPANY, INC., New York, N. Y., a corporation of New York. Renewed November 6, 1943.

175,727. **SLEEP O' NIGHTS.** BEDS, BED SPRINGS, AND MATTRESSES. Registered November 13, 1923. U. S. BEDDING COMPANY, Memphis, Tenn., a corporation of Tennessee. Renewed November 13, 1943.

175,733. **GOLDEN ART.** HOSIERY. Registered November 13, 1923. EDWIN CRUTCHER, doing business as Golden Arrow Hosiery Mills. Renewed November 13, 1943, to Golden Art Hosiery Company, Nashville, Tenn., a partnership, assignee.

175,792. **NORRISTOWN TIMES HERALD.** PERIODICAL PUBLICATION PUBLISHED DAILY. Registered November 13, 1923. NORRISTOWN HERALD PRINTING AND PUBLISHING CO. Renewed November 13, 1943, to Norristown Herald, Inc., Norristown, Pa., a corporation of Pennsylvania, assignee.

175,801. **PATRICIA.** CANNED VEGETABLES. Registered November 13, 1923. SAN JOSE CANNING COMPANY, INC., San Jose, Calif., a corporation of California. Renewed November 13, 1943.

175,803. **REPRESENTATION OF "CUPID".** CHARCOAL. Registered November 13, 1923. NEW JERSEY CHARCOAL CO., INC., Irvington, N. J., a corporation of New Jersey. Renewed November 13, 1943.

22,339

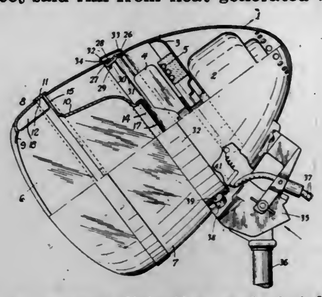
HAIR DRYING MACHINE

Sydney Charles Pritchard, London, England

Original No. 2,281,993, dated May 5, 1942, Serial No. 353,972, August 23, 1940. Application for reissue April 24, 1943, Serial No. 484,436. In Great Britain September 9, 1938

10 Claims. (Cl. 34—48)

1. In a hair drying machine, a hood comprising a non-transparent casing having an open end, an electric fan and an electric heater housed within said casing, a transparent structure having a rim fitting the open end of said casing and having an open bottom adapted to receive the head of a person therethrough, means securing said rim of said structure to the open end of said casing in overlapping relation, said casing being made of a material resistant to the heat generated therewithin by said heater, said structure being made of a transparent thermoplastic that is susceptible to distortion and shrinkage under the influence of such heat, and said securing means including means adapted to protect said rim from heat generated by said



heater to prevent distortion and shrinkage of said rim under the influence of such heat.

PATENTS

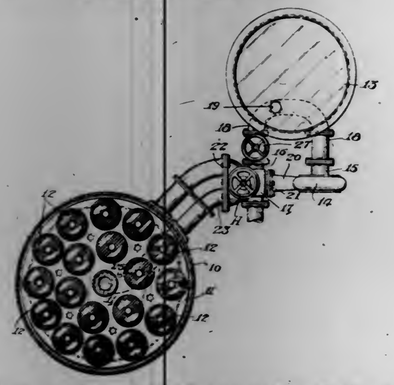
GRANTED JUNE 29, 1943

2,322,743

PACKAGE DYEING MACHINE

William E. H. Bell, Glenside, Pa., assignor to H. W. Butterworth & Sons Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 5, 1940, Serial No. 328,107
5 Claims. (Cl. 68—189)



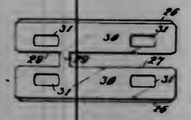
1. In package dyeing apparatus of the type described, a keir including a manifold mounting packages to be dyed and from which dyeing fluid may be delivered to the interior of the packages, an open container for dyeing fluid, a pump having its intake in communication with said container, means to connect the outlet of said pump with said manifold or with the interior of the keir exteriorly of said manifold and the packages supported thereby, means including a conduit to return the dyeing fluid from said keir or manifold to said container, and a venturi in the conduit creating a predetermined back pressure in the keir.

2,322,744

SAFETY RAZOR BLADE

Sidney H. Benjamin, Milwaukee, Wis.

Application July 12, 1941, Serial No. 402,071
2 Claims. (Cl. 30—351)



1. A safety-razor blade having at least one cutting edge, said blade having an inwardly extended recess from each end thereof, the distance between the inner ends of said recesses being less than the length of either said recess and at least one blade positioning opening in said blade between each said recess and a said cutting edge.

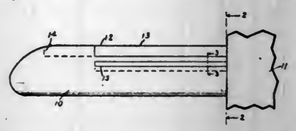
2,322,745

LATERAL CONTROL FOR AIRCRAFT

Francis Melvin Rogallo, Hampton, Va.

Application December 13, 1940, Serial No. 369,999
4 Claims. (Cl. 244—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In an airplane wing, lateral control means comprising walls forming a slot extending through the wing from the lower to the upper surface thereof, a single plug pivotally held in said slot, said plug being of a length substantially equal to the thickness of said wing, the thickness of said plug being substantially less than the width of said slot, said plug being movable along the forward wall of said slot, a lip at the upper edge of said plug extending rearwardly a distance substantially equal to the width of said slot, a lip at the bottom edge of said rear slot



wall extending forwardly therefrom to the rear wall of said plug, said plug being movable through said slot from a neutral position in said slot to a position extending either below said wing or above said wing, said plug lip cooperating with said slot wall lip to maintain said slot closed while said plug is entirely within or extending partly below said wing and leaving said slot open when said plug is extending partly above said wing.

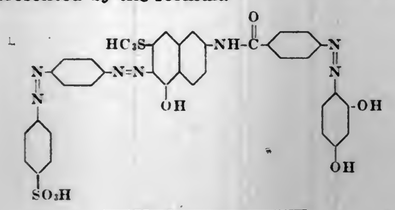
2,322,746

SOLUBLE TRISAZO DYES FOR CELLULOSIC FIBERS

Swanie S. Rossander, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 11, 1940, Serial No. 360,746
4 Claims. (Cl. 260—173)

2. The alkali-metal salts and the acid form of the compound which in the form of its acid is represented by the formula



2,322,747

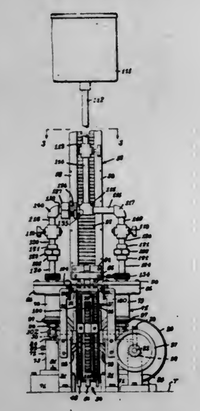
MACHINE FOR TREATING CIGARETTES

William Shand, Arlington, Mass., assignor to Tobacco Retention Corporation, Brookline, Mass., a corporation of Massachusetts

Application December 27, 1937, Serial No. 181,736
20 Claims. (Cl. 131—88)

1. In a cigarette machine, the combination with means for transferring a cigarette along a path, and means for positively constraining the transferring means to the horizontal for an extended portion of said path, of means operatively connected to said transferring means for applying treating material to the tobacco fibres of at least one end portion of the cigarette wholly internally of the wrapper thereof by engagement

with only the end face of said end portion at an area on said face spaced from the wrapper while



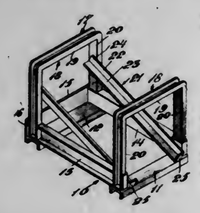
the cigarette is being transferred along said extended horizontal path portion.

2,322,748

RACK OR SUPPORTING STRUCTURE

Thomas E. Shaw and Richard A. Shaw, Cranston, R. I., assignors to Stackbin Corporation, a corporation of Rhode Island

Application October 21, 1941, Serial No. 415,914
4 Claims. (Cl. 211—71)



1. A storage rack comprising individual unit sections of skeleton formation assembled one on top of another, each section comprising a base portion consisting of front and rear channel form plates, front and rear frame sections generally U-shaped and with the end extremity of the sides thereof resting on said plates, side plates on each side of said frame sections and extending from the front to the rear section and secured to the lower end portion of the sides thereof, and angular form supports resting on the front channel plate and extending therefrom upwardly toward the rear section and secured to the sides thereof and to the side plates at the front lower end portion of said angular supports.

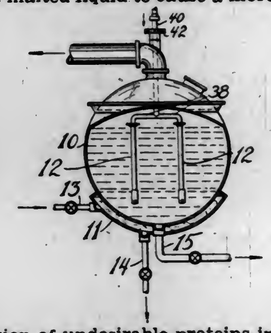
2,322,749

HEATING AND TREATING WORT

John F. Silhavy, Chicago, Ill.

Application September 6, 1940, Serial No. 355,542
14 Claims. (Cl. 99—52)

3. In a method of cooking a malted liquid to produce wort which when fermented will be substantially free from precipitable proteins, the steps which comprises boiling the wort with heat supplied by submerged combustion taking place within the malted liquid to cause a more complete



precipitation of undesirable proteins in the wort.

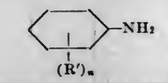
2,322,750

TRISAZO DYE

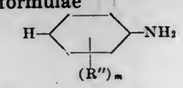
Chiles E. Sparks and Joseph H. Trepagnier, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 22, 1941, Serial No. 407,902
6 Claims. (Cl. 260—169)

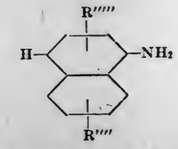
1. A trisazo dye which in the form of its acid is represented by the formula X→Y→Z→C in which X is one of a group represented by the formula



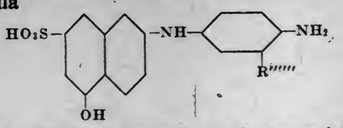
wherein R' is from a group consisting of hydrogen, alkyl, alkoxy, sulfonic acid, carboxy, bromine, chlorine and fluorine; and n is an integer not greater than 3; Y is one of a group represented by the formulae



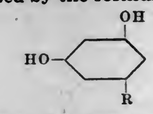
and



wherein H—represents the coupling position; R'' is from a group consisting of hydrogen, alkyl and alkoxy; m is an integer not greater than 2; R'''' is one of a group consisting of hydrogen and sulfonic acid; and R''''' is one of a group consisting of hydrogen, alkyl and alkoxy; and Z is one of a group represented by the formula



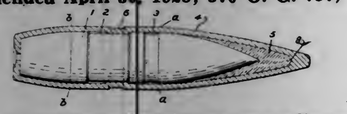
wherein R'''''' is one of a group consisting of carboxylic and sulfonic acid; and C is one of a group represented by the formula



wherein R is one of a group consisting of hy-

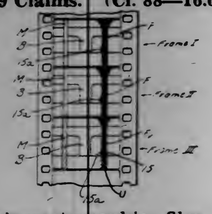
drogen, amino, bromine, chlorine, fluorine, —CN, carboxylic and sulfonic acid; said compound containing at least two acid groups, at least one of which is sulfonic acid.

2,322,751
PROJECTILE
René R. Studler, United States Army, Washington, D. C., assignor to United States of America as represented by the Secretary of War
Application July 8, 1936, Serial No. 89,548
3 Claims. (Cl. 102—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A projectile embodying a generally cylindrical core having converging end portions and formed to provide a wide circumferential groove within the cylindrical portion and extending over a substantial part thereof, a jacket enclosing the core and being deformed into said groove to form a narrow circumferential groove in the jacket with its under portion of less width than the core groove and adapted to receive the neck of a cartridge case.

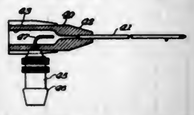
2,322,752
MOTION PICTURE FILM
Ivan Melville Terwilliger, Altadena, Calif.
Continuation of application Serial No. 183,696, January 6, 1938. This application August 12, 1939, Serial No. 289,877
9 Claims. (Cl. 88—16.6)



1. In a cinematographic film strip having spaced along its length a plurality of frames each of which bears a photographic image of predetermined average density of a field having a plurality of planes of depth, a systematic image arrangement for producing an illusion of depth upon projection of said film and comprising two series of said frames, the frames of one of said series being interspersed among the frames of the other of said series in a recurrent order, the images borne by the frames of one of said series having a certain depth of field and the images borne by the frames of the other of said series having a different depth of field, the frames of one of said series predominating in number over the frames of the other of said series.

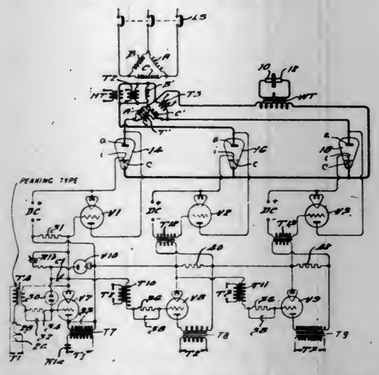
2,322,753
SURGICAL APPARATUS
George J. Thomas, Pittsburgh, Pa.
Application February 10, 1939, Serial No. 255,625
1 Claim. (Cl. 128—221)

A manifold for mounting a hypodermic needle for use in the intravenous injection of liquids, comprising in combination a passageway in the manifold provided at one end with means for mounting a hypodermic needle, an inlet at the opposite end of the passageway for admitting a liquid to the manifold, a second inlet at the side of the passageway for admitting another



liquid, a tube connected to the second inlet and extending to a point adjacent to the outlet end of the passageway, and means for supplying liquids to said inlets.

2,322,754
TIMING CONTROL SYSTEM
Gustav E. Undy, Detroit, Mich., assignor to Weltronic Corporation, Detroit, Mich., a corporation of Michigan
Application January 17, 1941, Serial No. 374,951
10 Claims. (Cl. 250—27)

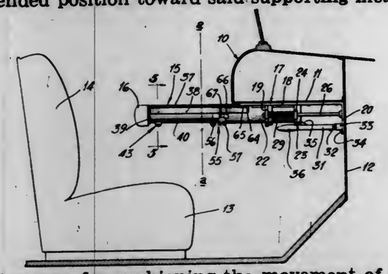


1. In a timing control system for a plurality of translating means, valve means individual to each of said translating means, control means for actuating one of said valve means so as to effect an operation of the corresponding translating means, means operated as a consequence of the actuation of said one valve means for actuating another of said valve means, said last mentioned means being operably independent of the operation of the translating means corresponding to said one valve means, means rendered effective by the actuation of said valve means for preventing, until reset, a subsequent actuation thereof, and means controlled by said control means for controlling said resetting.

2,322,755
SAFETY DEVICE FOR OCCUPANTS OF VEHICLES
Roy K. Voorhies, Los Angeles, Calif., assignor to Safride, Ltd., Carson City, Nev., a corporation of Nevada
Application April 1, 1941, Serial No. 386,228
11 Claims. (Cl. 280—150)

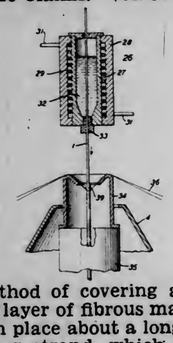
1. In a vehicle having a recess therein: link means operatively placed relative to said recess; a rider safety device swingable on said link means from a position retracted within said recess to an extended position, said safety device comprising a supporting means having pivotal connection with said link means, a body engaging member

adjustable into extended position relative to said supporting means, so as to be movable from said extended position toward said supporting means;



and means for cushioning the movement of said body engaging member toward said supporting means.

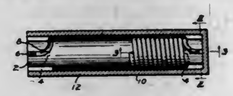
2,322,756
METHOD OF IMPREGNATION
Victor T. Wallder, Nutley, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 11, 1941, Serial No. 402,003
16 Claims. (Cl. 87—1)



1. The method of covering a strand with an impregnated layer of fibrous material comprising interlacing in place about a longitudinally downwardly moving strand, which is coated with a previously formed thick coating of an impregnating material in the form of a solidifiable, highly viscous liquid, stranded fibrous material to form an interlaced layer about said strand under such tension that said stranded fibrous material is forced into said liquid impregnating material of said coating, which is of sufficient thickness to permit said liquid impregnating material to be forced through said interlaced layer, exude from the exterior surface thereof, and impregnate thoroughly said interlaced layer, and which is of sufficient thickness to cause the formaion and maintenance of a globule of said liquid impregnating material on said moving strand at the point at which the interlacing of said stranded fibrous material begins, and thereafter solidifying said impregnating material.

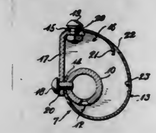
2,322,757
MOLD FOR HELICAL SPRINGS
Ralph E. Ward, Erie, Pa.
Original application July 23, 1941, Serial No. 403,724. Divided and this application June 16, 1942, Serial No. 447,280
3 Claims. (Cl. 18—34)

3. A mold for a helical extension spring comprising a hollow cylindrical mold-part, a second cylindrical mold-part adapted to be disposed concentrically within the outer mold-part and being of such cross-sectional size that an annular space is provided between the two mold-parts when in such assembled condition, at least one end portion of the second mold-part having a recess in the wall thereof spaced from the end of the mold-part and communicating with a groove in the wall of the mold-part which extends from the recess substantially longitudinally



toward the end of the mold-part and is curved across the end of the mold-part and is continued longitudinally and circumferentially of the mold-part in a groove which decreases in depth until the bottom thereof merges with the outer wall of the mold-part, said recess and groove being adapted to receive a rod and to shape it to form the loop on the end of an extension spring.

2,322,758
FIRE EXTINGUISHING METHOD AND APPARATUS
Hilding V. Williamson and Walter F. Mitcheltree, Chicago, Ill., assignors, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application March 24, 1942, Serial No. 436,052
20 Claims. (Cl. 169—11)



19. Fire extinguishing apparatus for discharging liquid carbon dioxide; comprising an elongated chamber having a main discharge opening extending the length thereof and a longitudinal series of secondary openings facing at an angle to the main discharge opening, and a discharge pipe extending lengthwise of said chamber and having a longitudinal series of orifices through which liquid carbon dioxide is released into the chamber to form snow and vapors which will be discharged through said main and secondary openings.

2,322,759
COMPOSITION AND METHOD
John F. Lontz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 20, 1942, Serial No. 431,694
18 Claims. (Cl. 47—58)

1. A plant regulant composition containing as an essential active ingredient a compound selected from the class consisting of mononaphthyl and monochloronaphthyl ethers of aliphatic hydrocarbon diols having not more than four carbon atoms between the hydroxyl groups.

16. In the propagation of plants the method of retarding normal separation of parts due to deterioration of the abscisz layer which comprises treating at the iminence of abscission at least a portion of the plant having abscisz layers with a compound selected from the class consisting of mononaphthyl and monochloronaphthyl ethers of ethylene glycol.

2,322,760

COMPOSITION AND METHOD

John F. Lontz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 20, 1942, Serial No. 431,695
22 Claims. (Cl. 47—58)

1. A plant regulant composition containing as an essential active ingredient a nuclear halogenated arylketo monocarboxylic acid.

14. In the propagation of plants the method of retarding the normal separation of parts due to deterioration of the absciss layer which comprises treating at the iminence of abscission at least a portion of the plant having absciss layers with a compound of the formula

$$X_n—R_1—CO—R_2—CO_2H$$

in which X is chlorine, n is one, R_1 is a benzene ring, and R_2 is a bivalent hydrocarbon radical containing at least one and not more than eight carbon atoms.

2,322,761

COMPOSITION AND METHOD

John F. Lontz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 20, 1942, Serial No. 431,696
21 Claims. (Cl. 47—58)

1. A plant regulant composition containing as an essential active ingredient a monocarboxylic acid linked to a nuclear halogenated aromatic ring through a polyvalent, strongly negative, nonmetallic atom.

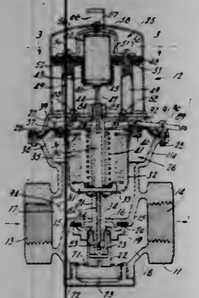
19. In the propagation of plants the method of retarding normal separation of parts due to deterioration of the abscis layer which comprises treating at the iminence of abscission at least the portion of the plant having abscis layers with a compound consisting in a nuclear halogenated benzene ring having not more than two halogen substituents linked through a group consisting of sulfur, oxygen and imino radicals to carbon in a fatty acid having ta least two and not more than nine carbon atoms.

2,322,762

HEAT MOTOR ACTUATED DEVICE

Homer E. Malone, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application June 21, 1940, Serial No. 341,721
19 Claims. (Cl. 137—139)



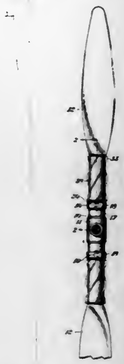
4. A heat-motor operated valve of the character described comprising, in combination, a valve casing having inlet and oulet openings and an interior division wall located between said openings and having a valve port therein, a valve member for closing said port, a heat motor unit mounted on said casing for operating said valve member, said unit including a fluid pressure generator, electric heating means therefor, and a pressure responsive expansible and contractible device operatively associated with said generator to expand and contract in response to pressure variations produced in said generator, said device comprising an inner generally cylindrical wall formed at least in part by an expansible and contractible bellows and an outer cylindrical wall surrounding said inner wall and secured in sealed fluid-tight relation at one of its ends to the corresponding end of said bellows, a cross wall closing the other end of said outer wall, means operatively connecting said cross wall to said valve member, and means supporting said expansible and contractible device comprising a hollow stationary member communicating at one end with said generator and connected at its other end to the other end of said bellows to discharge pressure fluid into the space between said outer wall and said bellows.

2,322,763

AIRPLANE PROPELLER

William Martino, Detroit, Mich.

Application January 8, 1940, Serial No. 313,000
7 Claims. (Cl. 170—159)



1. In combination with a propeller, sleeves loosely mounted for independent axial rotation about the propeller blade shanks in close proximity to the hub portion thereof, and means to be acted upon by the medium through which the propeller is moving carried by the sleeves for effecting the rotation of the said sleeves, whereby to disturb the medium around the said shanks and to thereby destroy the vacuum normally existent at the trailing edge thereof.

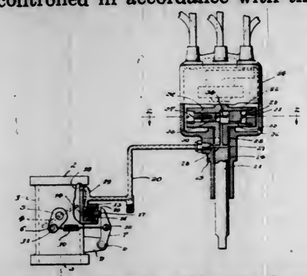
2,322,764

GOVERNOR FOR INTERNAL COMBUSTION ENGINES

Marion Mallory, Detroit, Mich.

Application September 18, 1942, Serial No. 458,834
6 Claims. (Cl. 123—103)

1. In an internal combustion engine having an intake passageway, an unbalanced governor valve mounted in said passageway so that the fluid flow through the intake passageway tends to close the said valve, resilient means connected to said valve tending to hold the same open, a suction device, a conduit connecting the suction device into the intake passageway on the engine side of the governor valve, another conduit connecting the suction device to atmosphere, a connection between said suction device and said resilient means whereby as the pressure rises in said suction device the force of said resilient means tending to hold the governor valve open increases, a valve controlled in accordance with the speed



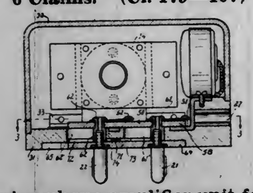
of the engine for closing said second conduit to atmosphere at a predetermined speed whereby the pressure in said suction device falls thereby decreasing the force of said resilient means and the governor valve moves towards closed position.

2,322,765

MICROPHONE AMPLIFIER

Alfred J. Mastropole, New York, N. Y., assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York

Application August 3, 1940, Serial No. 350,245
6 Claims. (Cl. 179—107)



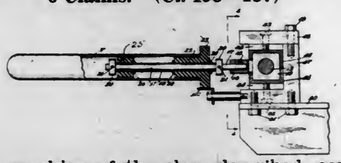
1. In a microphone amplifier unit for a hearing aid device comprising a transmitter microphone unit, a receiver unit, a battery unit and cord leads interconnecting the microphone unit, the receiver unit and the amplifier unit: a mounting member having battery terminals for interconnecting said amplifier unit to said battery unit; a supporting member for said amplifier unit movably mounted on said mounting member for movement between two positions; switch means having contact elements secured to said mounting member and contact elements secured to said supporting member and arranged to establish two different sets of circuit connections in said two positions of said supporting member; an amplifier microphone; amplifier windings for actuating said amplifier microphone; cord lead terminals carried by said supporting member and interconnected to the contact elements of said supporting member; the contact elements of said switching means being so arranged and correlated, and the contact elements of said mounting member being so interconnected with said battery terminals that—in one position of said supporting member said switch means establish in conjunction with said cord leads an input circuit interconnecting said battery unit in series with said amplifier windings and said microphone unit, and an output circuit interconnecting said battery unit in series with said amplifier microphone and said receiver unit for supplying to said receiver unit amplified output currents corresponding to input currents in said input circuit,—and that in the other position of said supporting member said switch means establish in conjunction with said cord leads a circuit connecting said microphone unit and said receiver unit directly in series with said battery unit; said mounting member and said supporting member having substantially parallel facing surfaces for guiding said supporting member from one position to the other position.

2,322,766

MACHINE FOR MAKING CERTAIN RUBBER GOODS

Frederick J. Maywald, Jr., Rutherford, N. J., assignor to Allied Latex Corporation, East Newark, N. J., a corporation of New Jersey

Application September 25, 1940, Serial No. 358,231
6 Claims. (Cl. 198—137)



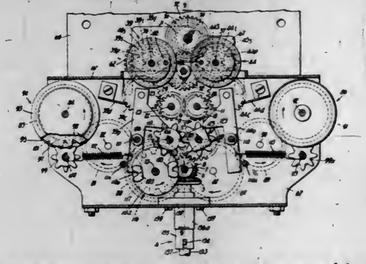
1. A machine of the class described, comprising an endless conveyor having longitudinal straight runs and arcuate end runs, drive means engaging an end run of said conveyor and adapted to actuate the conveyor, a hollow guide having a straight longitudinal axis and through which a straight run of said endless conveyor is actuated by said drive means, said guide having a longitudinal slot, the inner surface of said guide having a polygonal cross-section which has planar faces, said endless conveyor having form-supports which are connected to said endless conveyor, said form-supports fitting substantially snugly and slidably against the inner surface of said guide, said form-supports having forms turnably connected thereto by means which extend through said slot, said guide being twisted relative to its straight longitudinal axis so as to vary the angles between the longitudinal axes of said forms and the horizontal plane during the movement of said endless conveyor within said guide.

2,322,767

COMPUTING AND REGISTERING MECHANISM

Peter J. McLaren, New York, N. Y.

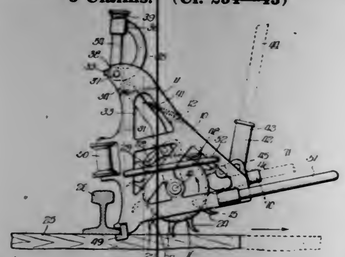
Application January 11, 1939, Serial No. 250,312
7 Claims. (Cl. 235—61)



1. In a multiplying machine, the combination with a multiplier input member and a product output member of a selective transmission train between said members to transmit the input to the output member in any one of a multiplicity of selected ratios, said transmission train comprising a multiplicity of differentials each having an individual input value, said values forming terms of a continuous geometric series whose

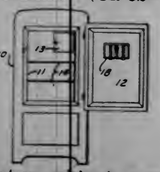
common ratio is 2, said differentials adapted to be coupled for input purposes either individually or in combination, and multiplicand setting means including a single rotary setting member and control means operated thereby for controlling the individual differentials to determine the available multiplicands and compel them to be set up in predetermined sequence, said control means including detent means for dividing a rotation of the rotary setting member into twelve equal steps, a first selector train for the differentials other than the one of lowest input value to cause the transmission ratios effected by them at successive operations of the first train to form successive terms of an arithmetical series, a second selector train for the differential of lowest input value to cause the differential to be rendered active and inactive at alternate operations of the second train, and means rotatable by and in unison with the rotary setting member for advancing the first train at every step other than the third and ninth, and for advancing the second train at the third, fourth, ninth and tenth steps.

2,322,768
TIE PULLER
Ernest C. Neal, Chicago, Ill., assignor to James D. Roberts, Portland, Oreg., trustee
Application June 28, 1939, Serial No. 281,514
5 Claims. (Cl. 254—43)



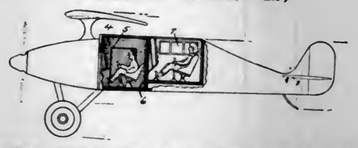
1. A tie puller comprising a rotatably mounted member, means for rotating said member, and a plurality of independent selectively operating members each separately and operatively connected to said means to rotate said first named member at different speeds selectively during operation of either of the operating members.

2,322,769
REFRIGERATOR CABINET
Oscar E. Norberg, Cincinnati, Ohio, assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich., a corporation of Michigan
Application May 26, 1941, Serial No. 395,129
11 Claims. (Cl. 62—89)



1. A refrigerator cabinet comprising a main refrigerated food storage compartment, an auxiliary compartment in said cabinet arranged to receive heat from without the cabinet whereby to maintain the auxiliary compartment at a temperature above that of the main compartment, said auxiliary compartment comprising a shell having an access opening communicating with the main compartment, a closure hingedly mounted in said cabinet and adapted when in one position to close said opening, and latch mechanism associated with said closure for releasably latching the closure in a predetermined position relative to the shell, said latch mechanism being adjustable whereby the position of the closure determined by said latch mechanism may be varied between a fully closed position and a partially opened position to vary the temperature within the auxiliary compartment.

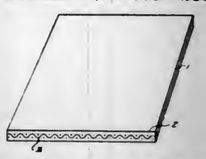
2,322,770
PROCESS USEFUL IN BLIND FLIGHT TRAINING
William C. Ocker, San Antonio, Tex., assignor to the Government of the United States as represented by the Secretary of War
Original application July 18, 1931, Serial No. 551,606. Divided and this application October 7, 1933, Serial No. 692,595
2 Claims. (Cl. 35—12)



(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

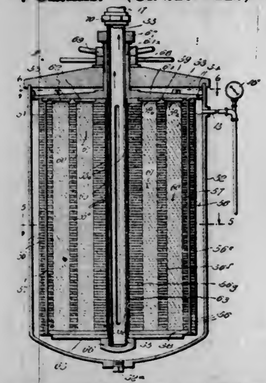
1. Process useful in blind flight training comprising subjecting a person to the effect of all the factors, including that of non-visibility, normally associated with flying in an airplane in a fog without flying instruments and maintaining said factors under control, to thereby produce in the person a predetermined mental state of false conviction as to the position and direction of movement of the plane relatively to the ground which governs his reflex actions with respect to the airplane controls, and then at a predetermined time subjecting the person to the effect of the factor of visibility of the ground to thereby change said mental state of the person to a state of true appreciation of the position and direction of movement of the plane relatively to the ground and also change his reflex actions as to the airplane controls.

2,322,771
BEARING
John V. O. Palm, Cleveland Heights, John K. Anthony, Cleveland, and John E. Wilkey, South Euclid, Ohio, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio
Continuation of application Serial No. 187,204, January 27, 1938. This application February 7, 1940, Serial No. 317,738
8 Claims. (Cl. 308—238)



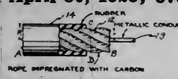
1. A bearing for rotary shafts comprising an element consisting of a resinoid having reinforcing embedded therein in position to reinforce the same against mechanical strains, said reinforcing being substantially continuous throughout the area of the bearing and composed of glass fibres.

2,322,772
OIL FILTER
Robert H. Pennebaker, Little Rock, Ark.
Application June 10, 1941, Serial No. 397,492
7 Claims. (Cl. 210—112)



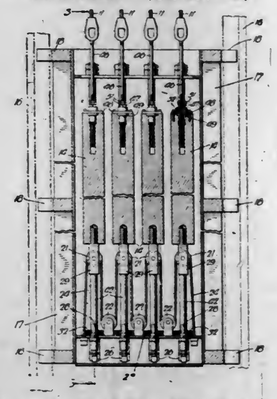
1. In an oil purification and filtering system, a filter comprising a cup-shaped casing having an inlet for used oil, a cover for said casing having an outlet conduit extending therethrough, a filter unit, means for mounting said unit concentrically with said outlet conduit in connection with said cover, said outlet conduit comprising a tubular member having longitudinal slots for admitting filtered oil; and said filter unit comprising an assembly cylindrical in form and having an axial opening for said tubular conduit member, oil being filterable radially through said assembly into said slots and the outlet conduit; and said means for mounting said unit consisting of retaining and closure means at the inner end of said tubular member, a plate bearing on said filter element and having a sleeve portion extending through said cover concentric with said tubular member, and screw means on said tubular member coacting with said sleeve portion for maintaining said filter unit in relation to said retaining means.

2,322,773
ELECTRICAL CONDUCTOR
Melville F. Peters, Beltsville, Md.
Application July 28, 1941, Serial No. 404,281
11 Claims. (Cl. 174—119)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



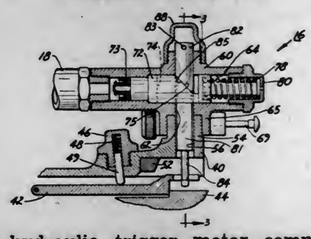
1. A high tension electrical conducting cable for use in a shielded ignition circuit for damping out electric oscillations having ultra short wave lengths, the combination including a composite conductor comprising a reinforcing member and a fine metallic wire, the reinforcing member having a greater mechanical strength than said metallic wire, said reinforcing member comprising a twisted fibrous cord member impregnated with a conducting material so as to have substantially no voltage gradient throughout its cross-sectional area but at the same time having a resistance greater than the resistance of any metallic member of equivalent cross-section, or equivalent mechanical strength, the diameter of the metallic wire being selected so that the total resistance of the composite conductor may be sufficient to damp out the high frequency oscillations, and an insulating covering for said cable, the ratio of the outer diameter of said conductor to the outer diameter of said insulating covering being equal to $1/e^2$ wherein e is the natural logarithmic base.

2,322,774
COUNTERWEIGHT APPARATUS FOR ELEVATORS
Sidney L. Polack, Chicago, Ill.
Application May 6, 1941, Serial No. 392,119
11 Claims. (Cl. 187—1)



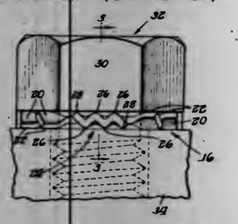
1. Elevator apparatus including a motor, a plurality of car-supporting cables operated by the motor, a counterweight frame adapted to be run on guide means, a plurality of counterweights vertically movable with respect to said frame, each guided with respect to said frame and each independently secured to a separate cable, a signal, switch means responsive to a substantial movement of any counterweight with respect to the frame to actuate the signal, and additional switch means responsive to a greater movement of any counterweight with respect to said frame for stopping the motor.

2,322,775
TRIGGER MOTOR
George W. Pontius, III, and George A. Goepfrich, South Bend, Ind.
Application February 10, 1941, Serial No. 378,148
7 Claims. (Cl. 89—27)



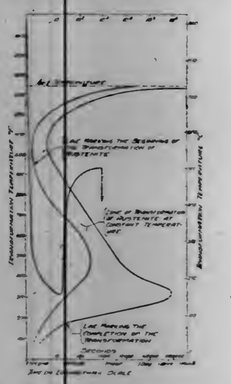
1. A hydraulic trigger motor comprising a housing with intersecting passages, a piston in one passage having a transverse rectangular hole therethrough and a relieved portion cut on a diagonal in the region of the hole, a spring on the end of the piston opposite the diagonal cut of the relieved portion, a T-shaped stem fitting in said housing transversely to the piston, and passing through the hole in the piston and having a part engaging the diagonal cut of the piston, a collar on the housing adjacent to the T-shaped stem, and a locking detent in said collar.

2,322,776
FASTENER DEVICE
Ouglesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application August 3, 1940, Serial No. 350,892
9 Claims. (Cl. 151—35)



1. A fastener device including a lock washer having an annularly disposed body portion of spring stock, a plurality of resilient locking elements extending from a margin of said body portion and providing teeth normally projecting in opposite directions beyond the bounding planes of said body to lockingly engage opposed clamping surfaces when the washer is clampingly engaged therebetween and alternately deflected sections of washer stock presenting work spacing portions of limited circumferential extent interposed between certain of said teeth, said spacing portions providing abutments projecting outwardly beyond the bounding planes of the body adapted to be engaged by opposed clamping surfaces so as to prevent flattening of the locking elements.

2,322,777
HEAT TREATMENT OF HARDENABLE STEEL
Charles G. Purnell, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application July 18, 1940, Serial No. 346,224
3 Claims. (Cl. 148—21)



1. A method of transforming hardenable steel structures to structures other than coarse pearlite or martensite, comprising heating the structures to convert them to austenite, quenching the austenite at a rate at least equaling its critical cooling rate to temperatures of from about 250° to 450° F., and prior to transformation of any austenite at these temperatures reheating it to higher temperatures transforming it to structures other than coarse pearlite or martensite and allowing time for the austenite to transform at the last named temperatures.

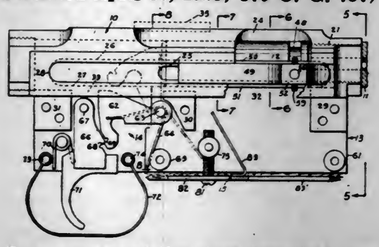
2,322,778
METHOD OF REMOVING COPPER AND AMMONIA FROM CUPRAMMONIUM YARN
William H. Furness, Haddonfield, N. J., assignor to American Rayon Company, Inc., Riverton, N. J., a corporation of New Jersey
No Drawing. Application May 1, 1940, Serial No. 332,698
2 Claims. (Cl. 18—54)

2. In the cuprammonium process of spinning rayon, films or the like, in which a caustic soda spinning bath of predetermined concentration is employed, the process of recovering the caustic soda from the freshly spun material as a caustic soda solution fit for re-use, which comprises subjecting the freshly spun material after leaving the setting bath and while in a plastic state to a water wash to remove caustic soda, ammonia and copper, collecting the wash liquor, heating the liquor so collected and containing caustic soda, ammonia and copper hydroxide to evaporate water and any ammonia present until the concentration of caustic soda therein approximately reaches said predetermined concentration, separating the black copper oxide produced from the copper hydroxide by the heating, and returning the concentrated caustic soda solution to the spinning bath.

2,322,779
RUBBER PRODUCT
William S. Gocher, Fairfield, and Alfred J. Jennings, Bridgeport, Conn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 14, 1941, Serial No. 383,416
11 Claims. (Cl. 117—76)

2. An article of manufacture comprising a rubber coated fabric, the rubber surface of which carries an adherent flexible baked film comprising a mixture of synthetic linear polyamide and a phenol-aldehyde resin, said polyamide being capable of being cold drawn into fibers which show by characteristic X-ray patterns orientation along the fiber axis.

2,322,780
GUN
Walter T. Gorton, United States Army, Springfield, Mass.
Application June 4, 1940, Serial No. 338,717
7 Claims. (Cl. 42—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

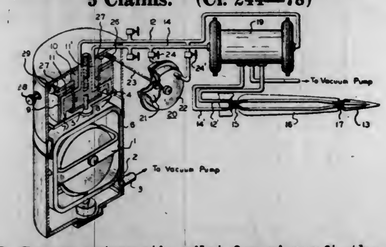


1. In a weapon of the class described, in combination a receiver comprising a web portion bored to provide a bolt recess, a plurality of spaced lugs depending from the receiver axially thereof, said receiver being formed to provide openings communicating with the bolt recess intermediate the depending lugs, lock plates having their upper edges abutting the bottom of the receiver and secured to the lugs on either side thereof, a hammer pivoted to the lock plates for swinging movement through the rearmost of said openings, a leaf hammer spring having one limb engaging the hammer, a stud between the lock plates to engage the other limb and retain said hammer spring under initial stress, a trunnion spaced from said stud and adapted to engage and retain said other limb of the hammer spring when said spring is unstressed, a sear pivoted between the locking plates operable to engage and retain the hammer in cocked position within the housing, a trigger secured to the sear and depending without the housing and a sear and trigger spring engaging and operable to normally urge the sear into engagement with the hammer.

2,322,781
FIRE-EXTINGUISHING COMPOSITION OF MATTER
Elden W. Hanks, Augusta, Maine, assignor to Halco Chemical Corp., New York, N. Y., a corporation of New York
No Drawing. Application March 7, 1942, Serial No. 433,792
9 Claims. (Cl. 252—7)

1. Powdered fire-extinguishing compositions of matter containing lycopodium and a substance evolving a fire-extinguishing gas upon subjection to fire.

2,322,782
SERVO SYSTEM FOR AIRCRAFT
Albert B. Hemstreet, Flushing, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application January 13, 1942, Serial No. 426,651
5 Claims. (Cl. 244—78)

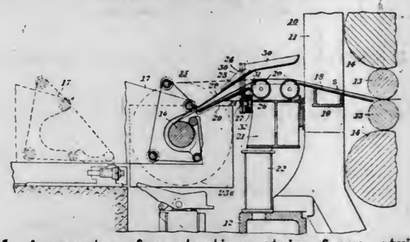


3. In an automatic pilot for aircraft, the combination with a position maintaining device, a differential pressure pick-off thereat giving differential pressure signals proportional to displacement, a main control surface to be controlled from said device, a tab hinged to said surface, a displaceable diaphragm built within said tab, means operated by displacement thereof for turning said tab, and means connecting said pick-off and the interior of said tab for displacing said diaphragm.

2,322,783
PREPARATION OF AMIDES
Morris Katzman and Albert K. Epstein, Chicago, Ill., assignors to The Emulsol Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application August 23, 1941, Serial No. 408,070
11 Claims. (Cl. 260—404)

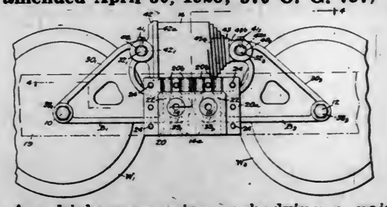
11. A method of preparing amides which comprises providing a mixture including a water-soluble, aliphatic nitrogenous compound containing hydrogen directly attached to nitrogen and replaceable by an acyl radical, a cyclic anhydride of a polycarboxylic acid, and water, maintaining the mixture at a temperature of the order of 5 degrees C. to 20 degrees C., and adding an alkali to the mixture.

2,322,784
GUIDE FOR STRIP COILERS
Clarence J. Klein, Hollidays Cove, W. Va.
Application October 24, 1940, Serial No. 362,595
5 Claims. (Cl. 242—78)



1. Apparatus for starting strip from strip-treating apparatus on a coiling mandrel comprising a belt wrapper adapted to cooperate with said mandrel, a guide member, means mounting said member for movement from operative to inoperative position, means for actuating said member from one of said positions to the other, means for moving said belt wrapper to and from cooperative relation to said mandrel, and common means controlling said two last-mentioned means.

2,322,785
SUSPENSION
Harry A. Knox, Washington, D. C.
Application March 27, 1942, Serial No. 436,389
8 Claims. (Cl. 267—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



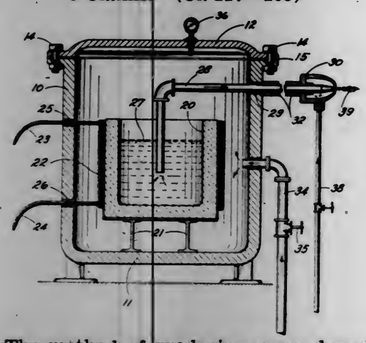
1. A vehicle suspension embodying a pair of arms pivoted about parallel axes and adapted to hold a wheel axle on their free ends, each of said arms having an extension which comprises a second arm, a spring having two relatively movable ends, a movable seat for each of said spring ends and having an external plane bearing surface, a plane bearing surface on the free end of said second arm, a cylindrical member mounted on the free end of each of said second mentioned arms and coacting with the first and second mentioned plane bearing surfaces.

2,322,786
PROCESS OF ELECTROLYTIC PARTING
Jesse O. Betterton, Metuchen, Albert J. Phillips, Plainfield, and Henry B. Linford, Woodbridge, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 11, 1939, Serial No. 255,868
6 Claims. (Cl. 204—109)

1. Process for electrolytic parting of silver

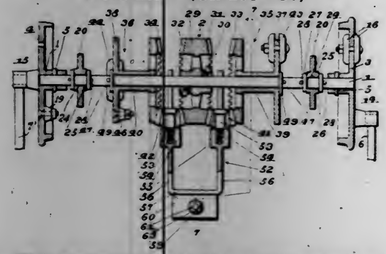
from doré anodes which comprises preparing electrolyte from silver-bearing products of electrolysis of the anodes by dissolving silver from the said products in controlled amounts of nitric acid to avoid the presence of substantial amounts of free nitric acid in the electrolyte, and electrodepositing the silver from the said electrolyte while maintaining the pH value of the electrolyte at approximately 3.0, thereby avoiding important inclusions of palladium in the deposited silver.

2,322,787
METHOD AND APPARATUS FOR MELTING METALS
Joseph B. Brennan, Euclid, Ohio
Application September 5, 1939, Serial No. 293,341
9 Claims. (Cl. 117—105)



6. The method of producing spray-deposits of high purity aluminum which includes the steps of melting aluminum of high purity in a crucible consisting of substantially pure aluminum oxide, and conducting the melted aluminum to a spray nozzle through a conduit consisting of substantially pure aluminum oxide.

2,322,788
COUNTERBALANCE
Carl W. Clements, Aurora, Ill.
Application June 20, 1940, Serial No. 341,567
4 Claims. (Cl. 105—37)



1. The combination of the reciprocatory piston rods and pitmans of an engine, an axle adapted to be rotated thereby, wheels on the extremities of the axle, each having a crank pin to which the respective pitman is connected to cause said rotation of the axle in either direction, a double faced gear situated midway of the ends of the axle and affixed to the axle to rotate in the same direction therewith, a gear and disk couple on each of the two sides of the double-faced gear, each couple including a connecting sleeve loosely mounted on the axle, pinions interconnecting the gear faces and gear couples rotating said couples counter to the axle, counterweights attached to the wheels of both the axle and couples, being angularly distributed in a uniform manner in respect to each other and to the axis of the shaft for counterbalancing the mass of the members associated with said shaft, and a yoke having means for suspending it loosely in respect to the axle, said yoke carrying the pinions and responding to inequalities in the gears because of its loose suspension.

2,322,789
CONCENTRATION OF SYLVINITE ORES
Allen T. Cole and James B. Duke, Mulberry, and Karl F. Schilling, Lakeland, Fla., assignors, by mesne assignments, to Minerals Separation North American Corporation, New York, N. Y., a corporation of Maryland
No Drawing. Application June 2, 1942, Serial No. 445,450
14 Claims. (Cl. 209—166)

1. The improvement in the method of separating sylvite from a pulp containing it which comprises subjecting said pulp to a concentrating process employing a collector selected from the group consisting of aliphatic amines containing a straight chain hydrocarbon group of at least 7 carbon atoms and their soluble salts formed by their combination with acids which are relatively devoid of surface active properties, which resides in distributing in said pulp a useful amount of an auxiliary agent consisting of dextrin, and thereafter subjecting the pulp to a separation treatment to remove the desired sylvite.

2,322,790
LOW DRAFT TRANSPORT VESSEL
Charles C. Cristadoro, Venice, Calif.
Application March 20, 1942, Serial No. 435,459
10 Claims. (Cl. 114—67)

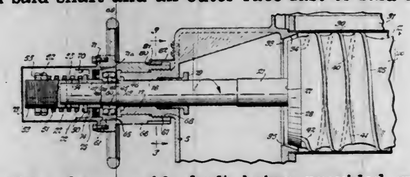


4. A low draft transport vessel comprising: a substantially horizontal hull deck portion of substantially rectangular plan, downwardly directed, longitudinally extending side rail portions carried by the hull deck and extending below the plane of said deck; a hollow, substantially watertight bow portion connecting said side rails and hull deck, the lower surface of said bow portion being downwardly and rearwardly curved and resiliently yieldable; a stern connecting the side rails and hull deck and extending to substantially the lower edge portions of the side rails to form a space beneath the hull deck, side rails and bow; and means carried by the transport and in communication with such space for supplying compressed air thereto.

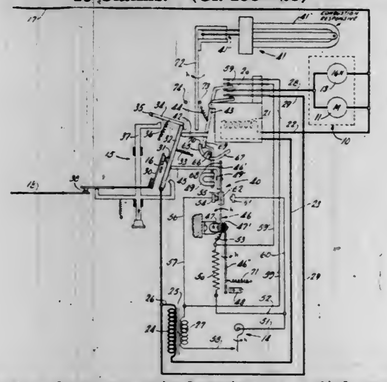
2,322,791
JUICE EXTRACTOR
William de Back, Niagara Falls, N. Y., assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y., a corporation of New York
Application June 27, 1941, Serial No. 400,028
5 Claims. (Cl. 100—48)

1. In a juice extractor having a fixed end head, a rotatable screw having a coaxial end shaft journaled in said end head and having one end tapered and means cooperating with said tapered end to provide a restricted annular pomace discharge opening, the passage of pomace through

which produces an axial pressure against said screw; adjusting means for varying the effective size of said pomace discharge opening, comprising an adjusting sleeve surrounding said shaft, means for mounting said adjusting sleeve on said end head and permitting said adjusting sleeve to be moved axially to different positions, a thrust bearing including an inner race slidingly mounted on said shaft and an outer race fast to said adjusting sleeve, said shaft being provided with spaced abutment means on opposite sides of said inner race and a helical compression spring surrounding said shaft and interposed between said inner race and the outermost of said abutment means and yieldingly permitting axial movement of said shaft and screw upon the building up of excessive pressure in said annular pomace discharge opening by the pomace being forced therethrough by said screw.

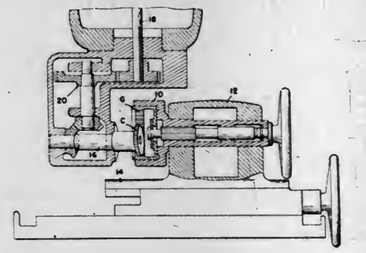


2,322,792
FUEL BURNER SYSTEM
Justin A. Deubel, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application June 22, 1940, Serial No. 341,803
19 Claims. (Cl. 158—28)



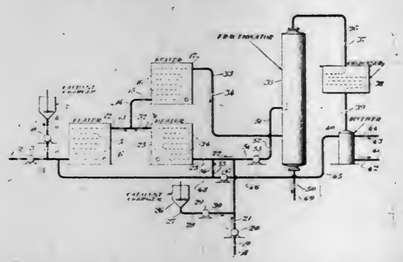
1. In a burner control system, a switch mechanism having an operating position permitting operation of the burner and a lock-out position in which the burner is prevented from operating, first actuating means for said switch mechanism comprising a timer including an element shifting from an initial position to another position a timed period after starting of the burner, said first actuating means being adapted to cause said switch mechanism to assume its operating position when said element is in its initial position while tending to cause said switch mechanism to assume its lock-out position when said element is in said other position, second actuating means including a combustion responsive device for normally preventing movement of said switch mechanism to its lock-out position when combustion is present while causing movement of said switch mechanism to its lock-out position upon failure of combustion, means conditioning said timer for return of said element to its initial position while the burner is in operation, and means for preventing said timer element from assuming its initial position until the burner is placed out of operation.

2,322,793
GEAR FINISHING TOOL
Robert S. Drummond, Detroit, Mich.
Application August 21, 1939, Serial No. 291,266
9 Claims. (Cl. 29—103)



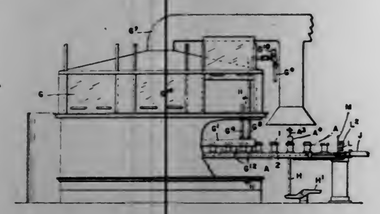
1. A gear finishing tool for internal gears comprising a gear-like body having helical teeth generally conjugate to the teeth of the gear to be finished and of the same hand as said gear teeth, and adapted to mesh therewith at limited crossed axes, the teeth of said tool having a lesser helix angle than the teeth of said gear, the teeth of said tool having a portion of the tooth surface adjacent an obtuse end corner of the tool tooth relieved, the surfaces adjacent the other two corners of the teeth of said tooth being unrelieved.

2,322,794
HYDROCARBON CONVERSION
Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 31, 1940, Serial No. 338,167
4 Claims. (Cl. 196—52)



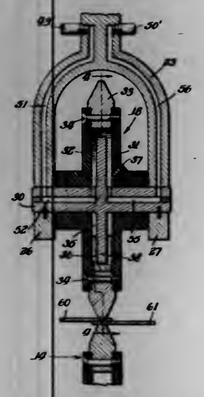
1. A process for the production of high antiknock gasoline, which comprises catalytically reforming a relatively light oil in the presence of a powdered dehydrogenating catalyst, simultaneously therewith catalytically cracking a heavier hydrocarbon oil in the presence of a powdered cracking catalyst which is different from the dehydrogenating catalyst, combining products of reaction from both conversion steps, subjecting the mixture to continued conversion in the presence of the mixed dehydrogenating and cracking catalysts, and thereafter separating gasoline from lower and higher boiling conversion products.

2,322,795
APPARATUS FOR FORMING BEARINGS
Winfield S. Enderich and Charles E. Eggenschwiler, Detroit, Mich., assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application March 2, 1942, Serial No. 433,094
9 Claims. (Cl. 22—76)



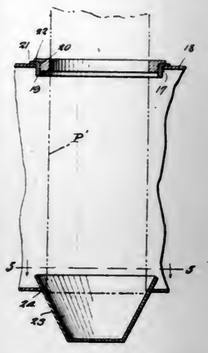
1. The combination of a plurality of work holders, a traveling carrier, coupling means for said holders on said carrier, a stand on which one or more work holders rest during the loading of work thereon, means for successively advancing said holders from said stand into operative relation to a coupling means on said carrier, means for automatically operating said coupling means to couple said holders to said carrier when in said relation, and means for rapidly cooling the work on said holders during travel thereof with said carrier.

2,322,796
WELDING APPARATUS
David Wendell Fentress, Evanston, Ill., assignor to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois
Application April 28, 1941, Serial No. 390,668
17 Claims. (Cl. 219—4)



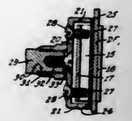
1. Electric welding apparatus comprising a rotatable electrode having an electrode element and an electrically non-conductive rotatable bearing surface, and a support structure for said electrode including an electrically conductive non-rotatable bearing surface adapted for bearing engagement with the rotatable bearing surface of the electrode, and means electrically connecting said electrode element and said electrically conductive non-rotatable bearing surface.

2,322,797
STORAGE RACK
William J. Fishel, Winston-Salem, N. C.
Application August 22, 1941, Serial No. 407,995
1 Claim. (Cl. 211—69)



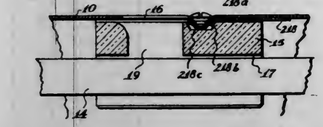
A storage rack including a box-like structure having openings in the top thereof for the reception of upstanding parts to be stored, nested rings removably mounted in one of the openings for centering a part in the opening, and means below the openings for engaging, supporting and centering the lower end of the centered part in said opening.

2,322,798
AUTOMOBILE ACCESSORY
Joseph Fischer, New York, N. Y.
Application September 29, 1941, Serial No. 412,716
3 Claims. (Cl. 248—226)



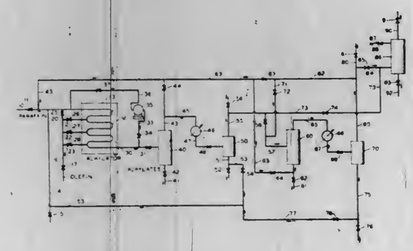
1. In an accessory clamp and bracket device having a housing the bottom of which is adapted to seat against the outer surface of an automobile door and make a closed-space fit thereagainst, means for securing the device on the door, comprising a channel-shaped clamping member relatively movable in the housing with all three channel sides of equal length and adapted to engage about the edge flange of the door, a screw mounted for free rotation through each end of the housing and threadedly engaged with each end of the channel member by which to apply a gripping force at said ends to draw the housing and channel member toward each other, an arm for supporting an accessory such as a mirror or the like extending outwardly from the housing midway between the two screws, means mounting the arm for angular adjustment adapting the device for use on either the right or left door, and a lock nut screw-threaded onto the arm and engageable with the housing to fix said arm in its adjusted position, whereby the housing may be first clamped on either door by the two screws and thereafter the arm adjusted and locked in position.

2,322,799
BUS DUCT SYSTEM
William H. Frank, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application December 23, 1940, Serial No. 371,319
6 Claims. (Cl. 173—334.1)



1. A bus duct and plug type electrical distribution system comprising a duct containing a longitudinally extending bus bar and having a hole providing access to the bus bar through which may be inserted a bus bar engaging plug prong, and means for supporting the bus bar, comprising an insulating block within the duct, cooperating formations of the duct and block preventing relative longitudinal shifting of the duct and block, the formation of the duct comprising an inwardly projecting embossment, the formation of the block comprising an inset recess containing the embossment, the duct having a shutter for said hole, a bolt in said embossment for supporting the shutter, which is disposed between the block and the adjacent duct wall to rotate in the space between them in its own plane on the bolt as an axis.

2,322,800
CONVERSION OF HYDROCARBONS
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 22, 1940, Serial No. 315,063
8 Claims. (Cl. 196—10)



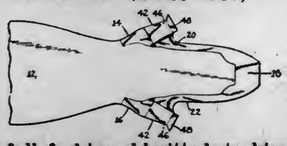
4. A process for separating a hydrocarbon fraction substantially free of hydrogen fluoride from a mixture containing low-boiling hydrocarbons and hydrogen fluoride, which comprises subjecting said mixture to fractional distillation, separating from said fractional distillation a low-boiling fraction comprising essentially all said hydrogen fluoride together with only sufficient low-boiling hydrocarbon material to form a minimum boiling azeotropic mixture with said hydrogen fluoride, and separating also from said fractional distillation a higher-boiling hydrocarbon fraction which is essentially free of hydrogen fluoride and containing all of said initial low-boiling hydrocarbons in excess of those contained in said azeotropic mixture.

2,322,801
MANUFACTURE OF CUPRAMMONIUM RAYON
William H. Furness, Haddonfield, N. J., assignor to American Rayon Company, Inc., Riverton, N. J., a corporation of New Jersey
Application May 1, 1940, Serial No. 332,696
2 Claims. (Cl. 18—54)



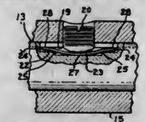
1. In a continuous system of spinning and treating cellulosic products such as rayon, staple, films and the like, from cuprammonium cellulosic solutions, in which the filaments, films or the like, are spun into a caustic soda setting bath and afterwards subjected to a sulphuric acid wash, the process which comprises subjecting the freshly spun material intermediate the setting bath and the acid wash and while in a plastic state to a hot water wash to remove substantially all of the caustic soda and the ammonia, and a substantial portion of the copper as cupric hydroxide, separating the cupric hydroxide and washing it, and using the washed cupric hydroxide to remove acid in the used wash liquors.

2,322,802
STOCKING BLANK AND METHOD OF KNITTING THE SAME
Fritz Lambach, Belleville, N. J., assignor to Robert Reiner, Incorporated, a corporation of New Jersey
Application November 13, 1936, Serial No. 110,707
17 Claims. (Cl. 66—187)



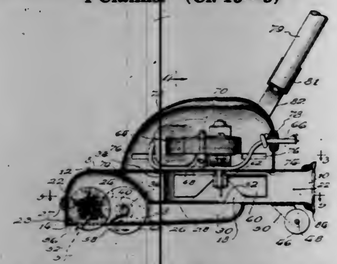
17. In a full-fashioned knitted stocking having a sole fabric, series of successive courses forming a heel fabric, certain of said courses extending into the sole fabric and forming additional courses therein, and certain loops of said certain courses being disposed in overlapping relationship and interknitted with loops of the remaining courses of said series.

2,322,803
FASTENING DEVICE
Gustav H. Koch, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 8, 1942, Serial No. 425,957
9 Claims. (Cl. 287—118)



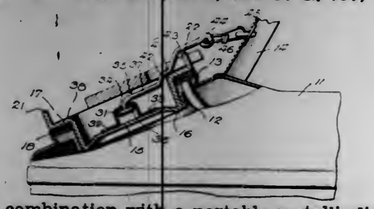
6. A rotary shaft having a shallow notch therein, a sleeve mounted on said shaft, an initially flat spring key positioned in said notch, and means for causing said spring key to engage said shaft at at least two points and to engage said sleeve at at least two points.

2,322,804
ELECTRICALLY DRIVEN TOY VACUUM CLEANER
Frank E. Kinsella, Chicago, Ill., assignor, by mesne assignments, to David B. Rapaport, Chicago, Ill.
Application October 16, 1940, Serial No. 361,435
4 Claims. (Cl. 15—8)



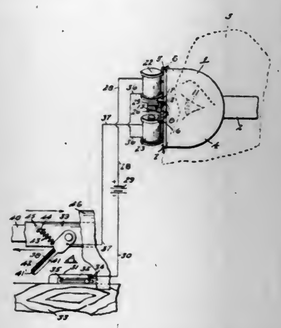
1. In a toy vacuum cleaner having a housing comprising an upper section defining and forming a closed top and side walls and a lower section forming the bottom of a brush chamber, the bottom of a suction chamber, and the bottom of an outlet for said suction chamber, and a passageway in said lower section connecting said chambers, the combination including a cylindrical brush rotatably mounted in the forward end of said brush chamber said brush being adapted to contact the surface to be cleaned, a shaft in said brush chamber to the rear of said brush, said shaft being supported for horizontal movement therein, supporting wheels secured on said shaft, rollers on said brush frictionally engaging said wheels for rotating said brush when said wheels are rotated, resilient means secured on the bottom of said brush chamber for urging said shaft in a forward direction to maintain said wheels and said rollers in non-slipping engagement, an electric motor secured to the top of the upper section of said housing and having its shaft projecting into said suction chamber, a suction fan secured on the shaft of said motor, said fan drawing air from said brush chamber to said suction chamber through the passageway in the lower section of said housing and forcing it from said outlet, and a hood for said motor secured on the upper section of said housing.

2,322,805
CAP RETAINER
William B. Johnson, United States Army
Application October 29, 1941, Serial No. 416,940
1 Claim. (Cl. 220—39)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



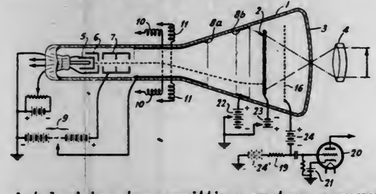
In combination with a portable metallic liquid container including a filling aperture and handle structure, a closure cap associated with said filling aperture, said closure cap including a plug portion having a central cavity, external threads on said plug portion adapted to engage cooperating threads associated with the filling aperture of the container, a flat annular sealing flange extending around the upper threaded portion of the closure cap, a sealing gasket associated with said sealing flange and adapted to be forced into sealing relationship with the sealing surface surrounding the filling aperture of the container, a plurality of lugs projecting upwardly from said closure to the cap above the normal plane of the top of said cap and adapted to be engaged by a flat bar extending diametrically across the cap, a retaining link for said cap, said retaining link including an inner end portion arranged in pivotal connection with a pivot socket affixed within the central cavity of the cap, a radial portion extending outwardly from said pivot and substantially below the plane of the cap surface, a contact portion adapted to contact the cap surface, an offset portion extending from said contact portion upwardly and away from the plane of the cap surface a distance greater than the height of the aforementioned tightening lugs affixed to the cap surface, and a flexible connection between the outer extremity of the retaining link and the container body, the arrangement being such that the offset portion of the retaining link will be maintained at all times out of the path of movement of the tightening lugs during the tightening or loosening operations of the container closure.

2,322,806
FLASH HIDER FOR AUTOMATIC WEAPONS
Albert M. Jackson, Reno, Nev.
Application April 27, 1940, Serial No. 332,062
5 Claims. (Cl. 42—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



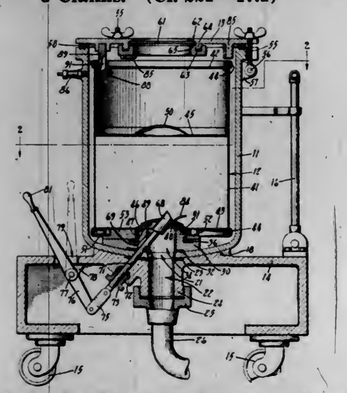
1. In a device of the character described, comprising in combination, an eyepiece adapted to engage the face of a gunner, said eyepiece containing apertures, a shutter operatively mounted on said eyepiece and adapted to be actuated to cover and uncover said apertures, a gun, electrical shutter operating means connecting said gun with the shutter, said operating means including contact members carried by and adapted to be actuated into and out of contact with each other by said gun for operating said shutter operating means, said shutter operating means upon the operation of said gun adapted to automatically and intermittently operate said shutter at a speed that a user of said eyepiece will appear to have a continual vision through said apertures due to persistence of visual stimuli whereby the eyes of the gunner are protected from the flash incident to the firing of the gun.

2,322,807
ELECTRON DISCHARGE DEVICE AND SYSTEM
Harley A. Iams, Summit, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 28, 1940, Serial No. 372,077
6 Claims. (Cl. 178—7.2)



1. A television transmitting system comprising a tube structure including a signal plate, a light sensitive target adjacent the extended surface of said signal plate, a cathode and an anode to form and direct an electron beam toward said target in a direction normal to the surface thereof, means along the path of said beam to direct said beam along paths oblique with respect to the extended surface of said target, means to project an optical image on said target to develop thereon charges having a spacial distribution corresponding to the degree of light and shade of said image, means including an electrical connection between said cathode and said signal plate causing said electron beam to approach said target with substantially zero velocity and in the absence of compensating means said electrons to be collected over various areas of said target in accordance with the obliquity of said paths and not in accordance with said charges, and compensating means consisting of an electrode removed from and surrounding said oblique paths and a potential source connected between said electrode and said cathode to direct electrons from said oblique paths to paths normal to the extended surface of said target.

2,322,808
LUBRICATING DISPENSER
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 21, 1940, Serial No. 336,456
3 Claims. (Cl. 221—47.1)

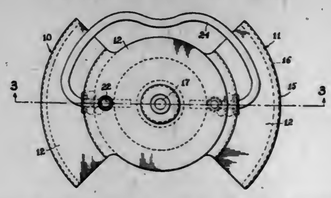


1. A device for dispensing the contents of closed sealed containers having an end wall of predetermined configuration, comprising a closed casing into which a sealed container is adapted to be inserted and fully enclosed, said casing having a dispensing outlet in register with a dispensing opening made in the container, normally retracted manually operative movable cutting means carried by said device for producing said container dispensing opening, a cover for hermetically confining the container in the casing and having means thereon for cutting a venting aperture in said container when the cover is forced home into sealing position, a compressed air inlet in said casing for admitting air into the casing and into the container through said aperture to force the container contents out through its dispensing opening and through the dispensing outlet in the casing, and a key plate permanently secured in the bottom of said casing and having a configuration conforming to and fitting the said predetermined end wall configuration of the container, so that only containers having such predetermined end wall configuration will fit into dispensing position in the casing of said dispensing device.

2,322,809
CYCLOPENTANO - POLYHYDROPHENAN - THRENE COMPOUNDS AND A METHOD OF MAKING THE SAME
Willy Logemann, Berlin-Charlottenburg, Hans Herloff Inhoffen, Berlin-Wilmersdorf, and Hans Eysenbach, Berlin-Conradshohe, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application December 22, 1938, Serial No. 247,298. In Germany December 22, 1937
16 Claims. (Cl. 260—397.3)

1. Process for the manufacture of cyclopentano-polyhydrophenanthrene compounds, wherein polyhydroxy compounds of the cyclopentano-polyhydrophenanthrene series which contain at the 17-position a side chain carrying two members of the group consisting of OH and=O, at least one member being OH and which are substituted in the ring system by at least one member of the group consisting of the hydroxyl group and oxygen, are subjected to the action of such dehydrogenating agents as are capable of converting primary and secondary alcohol groups into carbonyl groups.

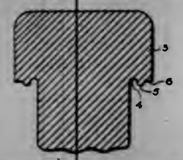
2,322,810
EXTRACTING AND PROTECTING DEVICE FOR CARTRIDGES OR SHELLS
Edwin L. Allen and Harold B. Muster, Cleveland Heights, Ohio, assignors to Rudolph I. Schonitzer, Shaker Heights, Ohio
Application February 23, 1942, Serial No. 432,008
16 Claims. (Cl. 294—31)



9. An extracting and protecting device for a cartridge or shell having a primer, said device comprising a pair of sheet metal members provided at their outer ends with cartridge or shell supporting means, means for pivotally connecting said members intermediate their outer ends, the cartridge or shell supporting means of said members being movable into and out of cartridge or shell supporting position by relative angular

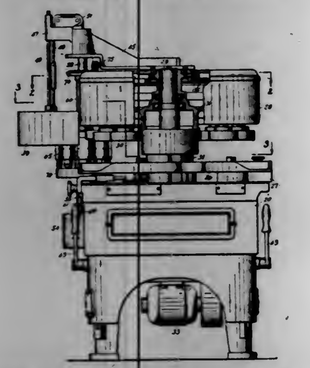
movement of such members, means for releasably retaining said members in that relative angular relationship thereof in which their cartridge or shell supporting means are in cartridge or shell supporting position, and sheet metal means for covering and protecting the primer of said cartridge or shell, said primer covering and protecting means being secured in assembly with said pivotally connected members by the means by which they are so connected.

2,322,811
BOLT
Roland W. Ball, Garden City, Mich.
Application March 12, 1942, Serial No. 434,367
2 Claims. (Cl. 85—9)



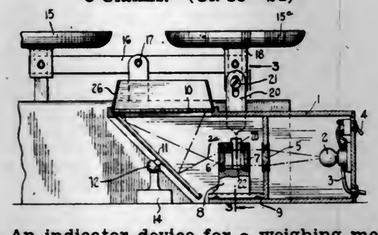
1. A bolt comprising a shank and a head, the bottom of said head comprising a groove encircling said shank immediately adjacent thereto, said groove being arcuate in cross-section, a flattened portion adjacent the periphery of said bottom, and a land curved in cross-section connecting the side walls of said groove and said flattened portion, said flattened portion and the centers of said groove and land all lying in the same plane radially of said shank.

2,322,812
BOTTLE CAP APPLYING MACHINE
Alfred A. Barnes, Syracuse, and John F. Price, Fulton, N. Y., assignors to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York
Application July 26, 1939, Serial No. 286,638
19 Claims. (Cl. 226—83)



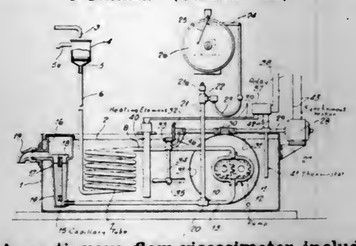
1. A machine for applying hood caps to bottles, the skirts of which caps are coated with an adhesive activated by heat to render the cap self-securing; comprising a base, a bottle carrying turret rotatably mounted upon the base, means operable upon rotation of said turret to feed uncapped bottles onto the turret, and means operable to discharge capped bottles from said turret, a magazine arranged to receive a plurality of caps in stack formation, a heating oven mounted in juxtaposition to said turret intermediate said bottle feed means and bottle discharge means, a cap conveyor operable in synchronism with said turret to convey caps through the oven and to successively position the heated caps on the tops of the uncapped bottles on said turret, a bottle actuatable controller arranged adjacent the bottle feed means and actuatable by each bottle fed onto said turret, cap transfer mechanism operable in response to actuation of said controller to transfer a cap from said stack to said cap conveyor, an annular series of cap closing heads arranged above said turret and rotatable therewith and operable to contract the heated caps about the tops of the bottles, and motive means for effecting rotation of said turret.

2,322,813
SCALE
William J. Beck, Yonkers, N. Y.
Substitute for abandoned application Serial No. 558,433, August 21, 1931. This application August 3, 1940, Serial No. 350,753
8 Claims. (Cl. 88—24)



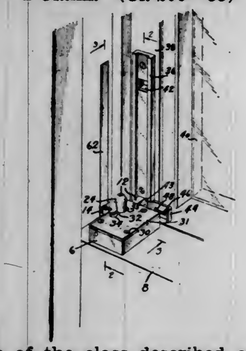
1. An indicator device for a weighing mechanism having a movable part moving to different positions before the correct weight is achieved, when the correct weight is achieved, and if the correct weight is exceeded, said device including a casing including a horizontal stationary screen in the top at one side thereof having indicia thereon, a source of light at one side thereof away from the screen, a lens system, the axis of which extends horizontally and longitudinally through the casing between the light source and the screen, including sucessive lenses to produce a parallel beam of light from the light source and to condense the beam, an obliquely positioned mirror below the screen to receive the condensed beam and project it upon the screen and means to intercept a portion of the light beam before it is condensed and when the beams are parallel.

2,322,814
VISCOSIMETER
George S. Binckley, Los Angeles, Calif., assignor, by decree of court and mesne assignments, to Sydney William Binckley, as trustee
Application December 7, 1940, Serial No. 369,009
5 Claims. (Cl. 265—11)



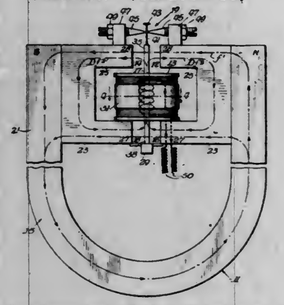
4. A continuous flow viscosimeter including a closed circuit for a sample liquid comprising a coil, pump and capillary tube, a tank in which said elements are arranged and adapted to contain a body of water, a gear for the pump and an agitator for the body of water, a motor mounted on said tank for driving the pump gear and agitator, means for recording pressure variations of the sample liquid passing continuously through the closed circuit, and means for maintaining the body of water at a selected temperature to maintain the sample liquid at a constant temperature.

2,322,815
COMBINED LOCK AND ALARM FOR WINDOWS AND THE LIKE
Fred H. Bock, Astoria, Long Island, N. Y.
Application June 21, 1941, Serial No. 399,159
1 Claim. (Cl. 200—55)



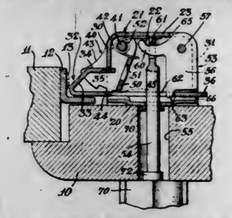
A device of the class described comprising a housing adapted to be mounted on the lower sash of a window, a locking bolt and an alarm actuating member in said housing, a keeper for said bolt adapted to be carried by the upper window sash, an alarm switch adapted to be carried by the window casement and actuated by said alarm actuating member, said bolt and member being provided with abutting cam faces whereby movement of the bolt will simultaneously move the alarm actuating member, the bolt moving toward the window sash in the direction of said keeper and the alarm actuating member moving toward the window casement in the direction of said switch and automatic means for actuating said bolt and alarm actuating member.

2,322,816
GALVANOMETER
Harold T. Boeker, Chicago, Ill., assignor to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application May 25, 1940, Serial No. 337,177
7 Claims. (Cl. 171—95)



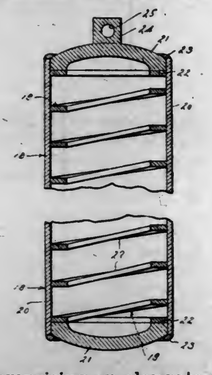
1. In an instrument of the character described, including an armature movable in response to electrical impulses, the combination with said armature of means forming a flexible extension on said armature, a mirror on said extension, and means confining said extension for rocking movement about an axis extending substantially midway between the armature and the mirror.

2,322,817
CATCH
Earl Borchers, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application January 31, 1941, Serial No. 376,796
5 Claims. (Cl. 292—166)



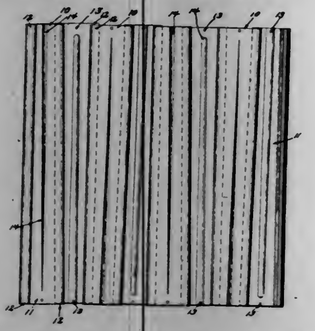
1. A catch of the character described comprising, in combination, a slidably mounted bolt, a spring-operated pivotally-mounted actuator for the bolt adapted to engage a strike to retract the bolt when the door is closed, a second actuator having a portion engaging the bolt and a second portion projecting between the two actuators, and a manually operated pin extending between the two actuators and engaging said second portion to manually retract the bolt.

2,322,818
FLOAT
Glenn F. Brockett, Marshalltown, Iowa, assignor to Fisher Governor Company, Marshalltown, Iowa, a corporation of Iowa
Application March 30, 1942, Serial No. 436,845
4 Claims. (Cl. 137—104)



4. A float comprising an elongate tubular rigid body section, heads closing the ends of the section, and means in the section reenforcing its wall against external pressures, said means including a spiral spring in said section having its ends bearing against the heads so that it is held under compression between the heads and its convolutions are urged outwardly against the internal surface of said section throughout substantially its entire length.

2,322,819
SHEET PILING
James B. Brockhurst, Red Bank, N. J.
Application October 19, 1939, Serial No. 300,113
5 Claims. (Cl. 61—62)



1. A unitary tapered metal sheet pile having at its longitudinal side edges devices adapted to slidably interlock with the corresponding parts of adjacent piles of similar construction irrespective of the direction in which the tapers of adjacent piles extend, and a connection between said side edges formed of a single central web having therein a longitudinal trough starting near the wider end of the pile and increasing in cross-sectional area toward the other end of the pile to provide the taper of the pile.

2,322,820
MONOESTERS OF INNER ETHERS OF HEXAHYDRIC ALCOHOLS
Kenneth R. Brown, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 24, 1939, Serial No. 252,548
15 Claims. (Cl. 260—345)

1. A fatty acid monoester of an inner ether of a hexitol, said fatty acid having at least 6 carbon atoms.

3. A surface active ester product consisting essentially of a mixture of a hexitan fatty acid monoester, and a hexide fatty acid monoester, said fatty acid having at least 6 carbon atoms.

2,322,821
PARTIAL ESTERS OF ETHERS OF POLYHYDROXYLIC COMPOUNDS
Kenneth R. Brown, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 22, 1940, Serial No. 341,903
18 Claims. (Cl. 260—345)

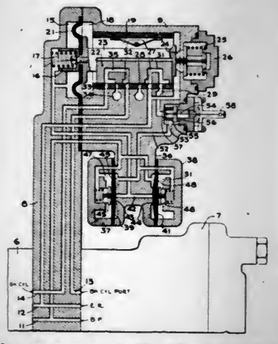
1. A hexide monoester of a fatty acid having at least 6 carbon atoms.

12. An emulsifier consisting essentially of a hexide monoester of a fatty acid having at least 6 carbon atoms.

2,322,822
OIL AND WATER EMULSION CONTAINING ELECTROLYTES
Kenneth R. Brown, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 23, 1940, Serial No. 353,921
12 Claims. (Cl. 252—312)

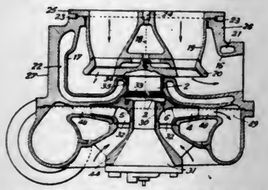
1. An emulsion comprising an oil phase, a water phase, an electrolyte, and an emulsifier consisting essentially of a mixture of hexide monoester of a fatty acid having at least 6 carbon atoms and the other esters produced in the reaction of a polyhydroxylic material selected from the group consisting of hexitols, hexitans, hexides, and mixtures of hexitols and hexane pentols, and the said fatty acid with at least 6 carbon atoms, said mixture having a ratio of fatty acid equivalents to carbon atoms of polyhydroxylic residue of from about 0.15 to 0.25, and the ratio of hydroxyl value to ester value of said mixture being from about 0.5 to 2.0.

2,322,823
AIR BRAKE
Robert S. Brown, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application June 4, 1942, Serial No. 445,773
8 Claims. (Cl. 303—68)



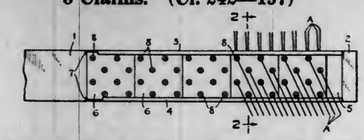
1. A release valve mechanism for interposition between the brake cylinder connection of a brake controlling valve device of the automatic type and its brake cylinder, said brake controlling device having a brake pipe connection; said release valve mechanism comprising in combination a releasing valve controlling the flow path to and from the brake cylinder and having a normal position in which said flow path is open and an abnormal position in which the flow path is closed and the brake cylinder is vented; loading means conditioned by the brake pipe when charged to bias said releasing valve to said normal position; manually operable means for reversing said bias and retaining said valve in said abnormal position; and inhibiting means serving normally to protect said biasing means during brake pipe pressure reductions, but serving in response thereto to condition said manually operable means to perform said retaining function.

2,322,824
TURBINE DRIVEN BLOWER
Alfred Buchi, Winterthur, Switzerland
Application October 31, 1940, Serial No. 363,766
In Switzerland October 31, 1939
13 Claims. (Cl. 230—116)



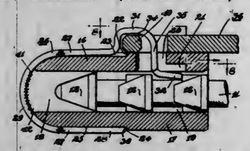
2. In a turbo-blower unit adapted to be driven by hot gases from a prime mover, a turbine and a blower each having a rotor, a sleeve disengageably connecting said turbine rotor and said blower rotor into a coaxial separable rotor system for conjoint rotation, a rotatable stub shaft for rotatably mounting said rotor system disengageably connected with said turbine rotor within a central area having a relatively small diameter, and jointing means for said disengageable connections on said rotor system inclusive of said stub shaft providing mutual minimum size heat-transmitting contacting surfaces on said connections and accordingly small heat transfer from said turbine rotor particularly to said shaft.

2,322,825
YARN GUIDE
Theodore E. Carlson, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application December 10, 1941, Serial No. 422,373
8 Claims. (Cl. 242—157)



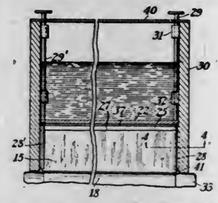
1. Method of extending the life of guide eyes employed in a bank of the same to space and change the direction of travelling yarns, which comprises mounting a set of guide eyes in a support in fixed relation to each other, aligning a plurality of said sets to form a bank and turning each set of the bank the same predetermined distance so as to cause each guide eye in said bank to present a different portion thereof for contact with said yarn.

2,322,826
AUTOMATIC LOCK SLIDER FOR SLIDE FASTENERS
Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application April 2, 1942, Serial No. 437,386
17 Claims. (Cl. 24—205)



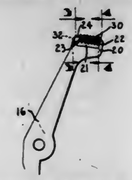
16. In a slider for slide fasteners, a slider body comprising a pair of wings connected at one end by a spacing neck forming with said wings a fastener member guide channel therebetween, one of said wings having therein an aperture communicating with said channel, a yielding locking member encircling said neck and extending a substantial distance over each wing, a lug extending from one end of said locking member through said aperture and terminating in a locking projection normally engaging fastener members in said channel, a pull member having a trunnion at its inner end retained between said lug and the adjacent slider body, and means securing said locking member to said slider body comprising a locking projection receiving recess extending from said aperture at the inside of the wing and receiving said locking projection when withdrawn from said channel, a key at the other end of said locking member, and a slot in said slider body snugly receiving said key.

2,322,827
COATING HOPPER
Emmett K. Carver, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 29, 1939, Serial No. 311,588
4 Claims. (Cl. 18—15)



3. In a film or sheet forming device, a hopper having a slot therein for feeding a film forming solution to a moving film forming surface positioned thereunder, solution guide members positioned near the ends of the slot and out of contact therewith extending from within the slot downward toward but out of contact with the film forming surface for guiding the solution to the film forming surface in a stream width substantially equal to the length of the slot, and means forming an enclosing chamber around the slot and guides extending from the vicinity of the hopper slot toward the film forming surface.

2,322,828
DETECTOR FINGER AND TIP
Albert Cederlund, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application January 11, 1943, Serial No. 471,994
7 Claims. (Cl. 139—287)

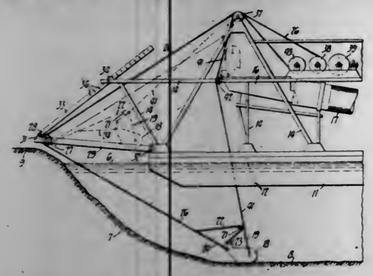


1. A weft detector finger having therein a laterally extending recess located between spaced side walls on said finger, one of said walls having an opening therein, bridge means defining the outer end of said recess and extending from each side wall toward the other wall, and a detector tip comprising a resilient coil spring located between said walls and guided on said bridge means, one end of said spring having a prong thereon projecting into said opening to prevent turning of the spring on said bridge means.

2,322,829
DREDGE
Arthur D. Clements, Los Angeles, Calif.
Application July 18, 1941, Serial No. 402,948
6 Claims. (Cl. 37—71)

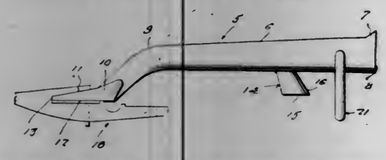
1. A dredge comprising a hull having a longitudinal well therein open at its forward end, a hopper supported on said hull at the rear of said well, a cable guide, means for supporting said cable guide on said hull in advance of said hopper and adjacent the forward end of said well, a second cable guide, means for supporting said second cable guide above said hopper, a drag bucket, lines trained around said cable guide

and said second cable guide, passing into said well from the same side thereof and fastened to



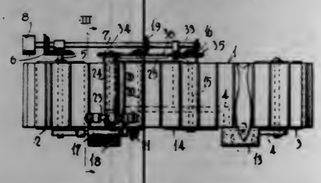
said bucket, and means on said hull for operating said lines.

2,322,830
ANVIL FOR RIVETING GUARD LEDGER PLATES
Harvey G. Conner, Paisley, Oreg.
Application June 4, 1941, Serial No. 396,624
2 Claims. (Cl. 78—53.5)



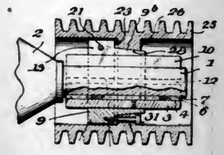
1. An anvil of the character described, said anvil comprising an elongated handle body formed at one end with a heel, a flattened laterally offset toe on the opposite end of said handle body, a laterally projecting boss on one side of said handle body, said boss having a reaching portion projecting toward said heel, and a holding ring swingably mounted on said handle body between said boss and said heel for holding a portion of an element extending along said handle body to which said boss is applied.

2,322,831
METHOD OF AND MACHINE FOR EVISCERATING FISH
Paul Danielsson, Stockholm, Sweden, assignor to Aktiebolaget Gerh. Arehns Mekaniska, Verkstad, Stockholm, Sweden, a Swedish joint-stock company
Application February 27, 1942, Serial No. 432,715
In Sweden March 1, 1941
13 Claims. (Cl. 17—3)



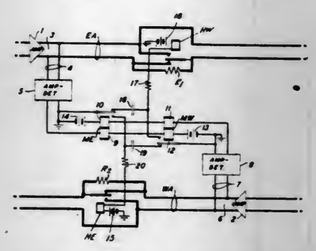
1. The method of eviscerating fish comprising moving a press member and the fish in the same direction and also moving the press member against the fish into concentrated pressing engagement with the soft belly of the fish at its opened head end to squeeze part of the entrails out of said head end, and pulling the entrails by said part out of the body of the fish.

2,322,832
POWER TRANSMISSION DRIVE ELEMENT
Willard R. Davis, Houston, Tex., assignor to T. B. Wood's Sons Company, Chambersburg, Pa., a corporation of Pennsylvania
Application May 21, 1942, Serial No. 443,962
9 Claims. (Cl. 287—52.09)



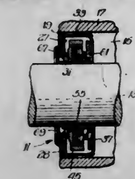
1. In rotary power transmission mechanism of the class described, a rotary shaft, a split sleeve on said shaft adapted to frictionally drivingly engage the shaft when contracted thereon, a split collar on said shaft, means for contracting said collar on said sleeve whereby said sleeve is contracted and clamped on said shaft, and a driving rim secured on said collar, said collar being of less axial length than the sleeve whereby the axial position of the rim can be adjusted by moving the collar and rim axially along the sleeve to the desired position.

2,322,833
TWO-WAY SIGNALING SYSTEM
Alton C. Dickieson, Mountain Lakes, and Paul G. Edwards, Verona, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 14, 1942, Serial No. 442,890
3 Claims. (Cl. 178—44)



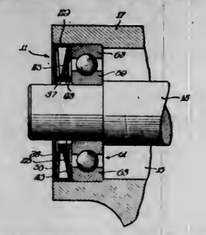
1. In combination in a two-way signal transmission system including oppositely directed one-way paths for the signals transmitted in opposite directions, a switching device connected to each path, responsive to signal transmission in that path, in the absence of prior signal transmission in the other path, to disable said other path beyond the point of connection of the other switching device thereto, to reduce the sensitivity of said other switching device by a given amount, and to set up a hang-over circuit for the first switching device operating to prolong the disabling of said other path for a desired time interval after the supply of controlling signals to said first switching circuits ceases, and means responsive to subsequent signal transmission in said other path while said first switching device is operated, of sufficient level to overcome the desensitization of said other switching device, to immediately disable the hang-over circuit for said first switching device thereby allowing said subsequent signal transmission by means of said other switching device to immediately reverse the directional control of the system.

2,322,834
SEAL
Louis J. Dornhofer, Chicago, Ill., assignor to Rotary Seal Company, Chicago, Ill., a corporation of Illinois
Application June 23, 1941, Serial No. 399,261
1 Claim. (Cl. 286—11)



A replaceable seal unit for sealing a wall opening around an arbor extending therein, comprising a cylindrical shell forming a housing and sized for snug fit in said wall opening, a sleeve disposed within said shell and sized for snug fit on said arbor, said sleeve, at one end, having an outwardly extending flange and said shell, at one end, having a co-operating inwardly extending lip overlying said flange to limit axial movement of the shell in one direction within the housing, a diaphragm at the other end of the housing comprising a plate of resilient material sealingly secured on the housing at the margin of the plate, said plate having a central opening for accommodating the arbor, a seal ring sealingly secured on said plate at and around said central opening, a co-operating seal element forming a seat for said ring, said seal element having a central opening for accommodating said sleeve and being mounted within the housing in position encircling the sleeve between the outstanding flange thereof and the said seal ring, resilient gasket means sealing said seal element upon said sleeve, and spring means extending between the seal element and the outstanding flange of the sleeve and operative to normally urge the seal element on the sleeve in a direction to press upon and form a running seal with said ring.

2,322,835
SEAL
Louis J. Dornhofer, Chicago, Ill., assignor to Rotary Seal Company, Chicago, Ill., a corporation of Illinois
Application June 23, 1941, Serial No. 399,262
2 Claims. (Cl. 286—11)



1. A replaceable seal unit for sealing a wall opening around an arbor extending therein and provided with an annular shoulder, comprising sheet metal means forming a housing having a cylindrical wall sized for snug fit in said wall opening and an end wall at one end of the housing, said end wall, toward its center, being inclined inwardly of the end of the housing and being formed with a central opening, a resilient diaphragm of rubber-like material in said housing, said diaphragm having a central opening and being sealed at its margin in said housing at the junction of said cylindrical and of said end walls, with the body of the diaphragm in position to rest upon and be supported by the inner surface of said end wall, with the central portions of the diaphragm disposed at said central opening in the end wall, means extending in the central opening of the diaphragm and forming a seal ring mounting on the diaphragm in position extending through the opening in said end wall and a seal ring supported on said mounting and extending outwardly of the housing through the central opening in said end wall in position to engage said shoulder on the shaft, and spring means in said housing and operable to normally urge said diaphragm toward said end wall.

2,322,836
TRIM MATERIAL
Walter R. Eady, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application July 8, 1940, Serial No. 344,366
4 Claims. (Cl. 155—180)



3. A removable seat for a vehicle or the like, comprising a frame having a channel to receive portions of the spring assembly for the seat around the outer edge thereof, an intermediate portion having fastener receiving openings, and a bead projecting downwardly from the frame around the other edge thereof, a spring assembly secured to said frame with portions in said channel thereof, a cover having continuous wires attached to its edges, said wire having integral fastening means engaged with walls of said openings to secure the cover to said frame, said edges lapping said frame around the outside of said channel and being disposed with said means against said frame outwardly of said bead, said bead having a height extending the thickness of said edges and wire that overlie said frame, whereby said seat may be supported on said bead independently of said cover and means.

2,322,837
PRINTING COMPOSITION
Linus Marvin Ellis, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 14, 1940, Serial No. 352,521
4 Claims. (Cl. 260—23)

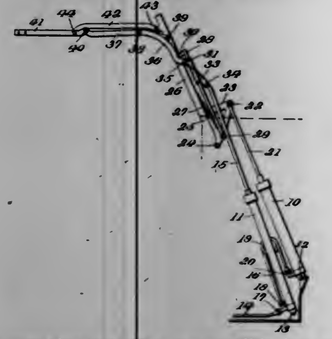
1. A printing composition for printing textiles being an emulsion consisting essentially of an interpolymer of one of the group of compounds consisting of styrene, vinyl acetate, and esters of methacrylic acid with a drying oil in which the drying oil is present in an amount not greater than the other component, a solvent therefor being insoluble in water, an insoluble pigment and water.

2,322,838
DISPLAY SIGN
George H. Evans, Washington, D. C., assignor of one-half to Richard K. Stevens, Washington, D. C.
Application March 6, 1939, Serial No. 260,192
3 Claims. (Cl. 40—133)



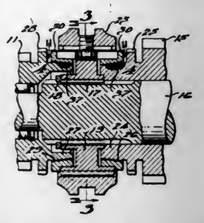
1. Apparatus for display and advertising purposes, comprising in combination a screen and a reflector adapted to move with respect thereto, said screen comprising a sheet that is transparent to light rays and having optically effective formations thereon adapted to refract light rays, said reflector comprising a relatively flat member formed of metal foil the reflecting surface of which is formed into a plurality of angularly disposed reflecting facets and a source of light for illuminating said reflector, said light source being arranged to substantially surround said reflector and located between said screen and said reflector, the optically effective formations of said screen and said angularly disposed reflecting facets cooperating to receive and direct light rays at substantially all angles and to produce variable patterned illuminating effects.

2,322,839
AUTOMOBILE TOP CONSTRUCTION
Jeronimo Falcon, Detroit, Mich.
Application July 1, 1939, Serial No. 282,508
2 Claims. (Cl. 296—117)



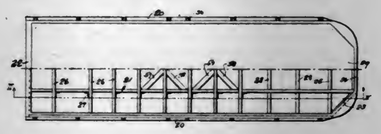
1. In combination in a convertible top mechanism, a main bow pivotally attached to a vehicle body, a bracket secured to said bow, a pushrod having a fixed pivotal attachment to the outer end of said bracket to provide a lever arm with respect to said bow, a cylinder pivotally mounted at its lower end, said pushrod terminating in a piston traversable in said cylinder, a second bracket secured to said bow, a collar slidably mounted on said bracket with respect to said bow, a second pivotally mounted cylinder having a second piston rod traversable therein and pivotally secured at its outer end to said collar, said collar being pivotally secured in turn to folding outrigger members adapted to support the top covering, and a fluid pressure line connecting said cylinders in series, the first named piston rod being responsive to fluid pressures to elevate said bow, the second piston rod being locked against movement of said collar during bow elevating movements and automatically free to respond to continued pressure in said fluid pressure line upon completion of extending movement by said first piston whereby the leading edge of said top is prohibited from exceeding substantially the height of said bow during elevating movements, said second cylinder being rockable with the first cylinder during elevating and lowering movements of the top.

2,322,840
CLUTCHING MECHANISM
Otto E. Fishburn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 28, 1941, Serial No. 390,646
16 Claims. (Cl. 192—53)



16. In a clutching device, driving and driven structures adapted for relative shifting into positive clutching engagement, relatively movable friction surfaces engageable to vary the relative speeds of operation of said structures, and means operable in response to said relative shifting of said structures to engage said friction surfaces as aforesaid prior to said clutching engagement, said means including cooperating parts having relative rolling contact engagement therebetween during operation thereof to engage said friction surfaces.

2,322,841
VEHICLE FRAME
James Madison Foster, Memphis, Tenn.
Application July 8, 1940, Serial No. 344,335
9 Claims. (Cl. 280—106)



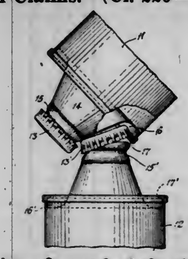
1. A vehicle frame including a pair of longitudinally disposed trusses and a pair of side rails, spaced apart at intervals; said trusses having upper and lower members, spaced apart along the mid portions of their length in an amount sufficient to permit flatwise housing of a spare wheel or tire for said vehicle therebetween, strut members structurally connecting said mid portions of said upper and lower members, said strut members being spaced apart longitudinally of said frame an amount greater than the diameter of said wheels, means interconnecting and transversely bracing said trusses at said strut members, and means, lying between said interconnecting bracing means, forming a floor between, the bottom members of said trusses in alinement with the opening between said strut members.

2,322,842
EMERGENCY PLUG FOR WATER PIPES
Gordon C. French, Yonkers, N. Y.
Application July 25, 1942, Serial No. 452,284
1 Claim. (Cl. 138—89)



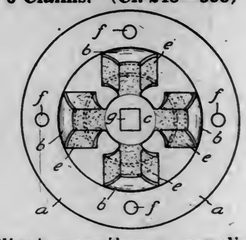
An emergency plug for controlling and stopping the flow of water in a water pipe of small diameter comprising an elongated metal tubular member, an elongated metal sleeve member slidable on said tube, a fixed washer member at one end of the tube, an elongated rubber sleeve on the tube having one end in engagement with the fixed washer and its other end adapted to be engaged by said slidable sleeve for expanding said rubber sleeve, an elongated travelling nut on the tube adapted to move said slidable sleeve, a metal tubular sleeve member on the opposite end of the tube and forming an extension thereof and having opposite screw threaded openings in its wall adjacent its free end, all of said parts being concentrically arranged to form a surface free from radial projections to permit a tool to pass thereover, and a valve device mounted in the opposite openings in said extension, said valve including a cylindrical solid body portion having external screw threads in engagement with the threads in said opposite openings and having a transverse opening therethrough, said body portion being normally positioned in said extension with its ends flush with the surface of the extension and with its transverse opening concentric with the passage in the extension, said body portion being adapted to be given a one-half turn to move the transverse slot out of register with the passage and to block said passage to prevent flow of water therethrough.

2,322,843
COMBINATION CONTAINER AND CAP REMOVER
Gerard C. Deane, New York, N. Y.
Application January 31, 1940, Serial No. 316,459
4 Claims. (Cl. 220—66)



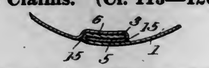
1. A container formed of sheet material having a cylindrical body portion, a top portion shaped in part like the frustum of a cone, provided with a removable crown cap and joined to the body portion by a substantially flat part, a flange projecting inwardly over said flat part and spaced from the conical part by a distance greater than the depth of the crown cap, the conical part of the top portion extending upward from the flange by a distance at least one-half the diameter of the crown cap, so that the crown cap of another container may be inserted in the space between the flange and the conical part of the top portion and grasped by the flange and the upper part of the top portion with sufficient firmness for removal from its container.

2,322,844
RUBBER AND METAL UNIT FOR RESILIENT MOUNTINGS, COUPLINGS, AND THE LIKE
Max Goldschmidt, Leicester, England, assignor to Metalastik Limited, Leicester, England, a British company
Application July 2, 1942, Serial No. 449,380
In Great Britain February 26, 1941
6 Claims. (Cl. 248—358)



3. A resilient mounting or coupling comprising a substantially circular metal disc having a substantially cross-shape cut out opening therein with the center of the opening substantially at the center of the disc, said disc having inwardly projecting arms between the outwardly extending legs of the opening, the cut out portion of the disc forming a second metal part shaped substantially in accordance with the opening in the first part and having outwardly projecting arms axially aligned with the arms of the disc, and rubber between each pair of axially aligned arms and connected thereto.

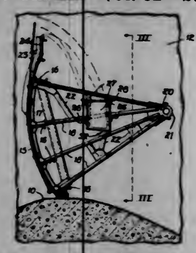
2,322,845
METHOD OF MAKING BLACK IRON SHEET METAL CONTAINERS
Norman H. Goldsworthy, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 3, 1940, Serial No. 343,861
2 Claims. (Cl. 113—120)



1. The method of making a sheet metal can body from black iron including cutting a blank from a sheet of metal of proper size to form a can body having a side seam comprising interlocked hooks and lap sections at the ends of the hooks, attaching a thin strip of brazing material having a melting temperature near that of black iron to the edge portions of the blank so that said strip will be disposed within the hooks and extend between the lap sections in the formed can body, cutting and notching said blank, bending the edge portions to form the hooks, shaping the blank into a can body and joining the hooks

and bumping the same so as to enclose the brazing strip in the bumped seam and heating the formed body in a non-oxidizing atmosphere to a temperature sufficient to melt the brazing material and cause the same to flow by capillary attraction throughout the entire limits of the seam and form an alloy with the black iron firmly uniting the edge portions of the body blank.

2,322,846
HYDRAULIC GATE STRUCTURE AND THE LIKE
James Paul Growdon and Donald J. Bleifuss, Mount Lebanon, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 18, 1940, Serial No. 341,290
6 Claims. (Cl. 61—26)



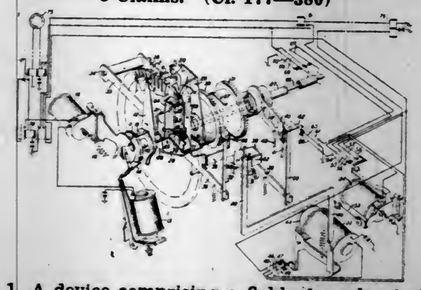
1. A spillway gate structure comprising a water-impounding face, oppositely disposed radial frame members connected to the downstream face of the gate and to the spillway for supporting and normally restraining said gate in the spillway passage, cross ties joining said oppositely disposed radial frame members, and water-collecting means associated with and supported by said cross ties in position to receive water overflowing the gate, the capacity and location of said water-collecting means being such that substantial gate-overflow loading thereof stresses to rupture said cross ties, whereby said oppositely disposed radial frame members are distorted and the gate-supporting effect thereof is reduced below the force exerted by the impounded water against the gate.

2,322,847
LOCK SLIDER
Emmett C. Hartley, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application February 25, 1942, Serial No. 432,296
7 Claims. (Cl. 24—205.5)



7. In a slider, a body having a fastener member guide channel therein with a locking projection guiding aperture extending from one side of said body into said channel, a loop like lug on said slider body with a portion overlying said aperture and spaced outwardly therefrom, and a locking member comprising a pair of loop members connected at one end and extending at an acute angle to one another, at least one of said loop members being resilient, the loop portions at the free ends of said loop members being disposed between said lug and said slider body, one of said loop portions engaging said lug and the other of said loop portions having a locking projection thereon guided in said aperture and tiltable into and out of engagement with fastener members in said channel to lock and unlock said slider, the angle between said loop members being such as normally to spread said loop portions a distance greater than the space between said lug and said slider body, and the greatest stressing of said locking member by reason of confinement of the loop portions in said space occurring at an intermediate position of said locking member between locking and unlocked positions, defining a dead center past which the locking member must be forced between locking and unlocked positions of said locking member.

2,322,848
PULSE REGENERATOR
Frank H. Hibbard, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1942, Serial No. 446,481
5 Claims. (Cl. 177—380)

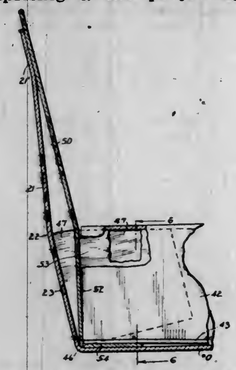


1. A device comprising a field of mechanically displaceable elements, a step-by-step means responsive to an incoming train of impulses for passing a pointer over said field a number of elements corresponding to the number of impulses in said train and for displacing the last one of said elements reached by said pointer, an outgoing stepping magnet having precisely timed operating characteristics for passing a pointer over said field traversed by said first pointer, means controlled by said stepping magnet for transmitting an impulse on each stepping operation thereof, means for terminating said transmission of impulses responsive to the encounter of said second pointer with a displaced element, and means controlled by further operation of said stepping magnet for measuring time for an interdigit pause.

2,322,849
DISPLAY CONTAINER
John V. Horr, Hastings on Hudson, N. Y., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application December 19, 1940, Serial No. 370,741
5 Claims. (Cl. 206—44)

3. In a cardboard display container, side walls, a rear wall mounted for swinging movement about a hinge axis coincident with the lower rear edge of the container, a strip extending across the container and connecting the upper edges of said side walls, a lid hinged to said strip for swinging movement about a hinge axis parallel to and above said lower rear edge, means interconnecting said lid and rear wall for swinging the rear wall rearwardly when the lid is lifted,

and means controlled by said rear wall for retaining said lid in lifted position, said last-named means comprising a tab projecting forwardly

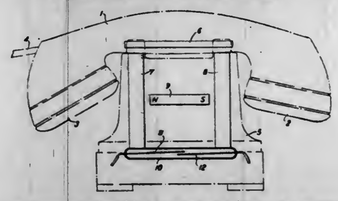


from one end of the rear wall and having a convexed upper edge adapted to engage frictionally with the underside of said strip.

2,322,850
TREATMENT OF HYDROCARBONS
James W. Jean, Altadena, Calif.
No Drawing. Application May 26, 1941, Serial No. 395,283
5 Claims. (Cl. 196—52)

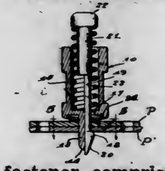
1. The process for the production of gasoline boiling range hydrocarbons from hydrocarbons of greater molecular weight by contacting vapors of hydrocarbons at temperatures ranging approximately from 650 to 950° F. with a granular catalytic mass composed of tetraphosphates of the metals of the eighth group of the periodic table containing traces of ortho and pyro phosphates of the same metal.

2,322,851
MAGNETIC SWITCH HOOK
Robert M. Kalb, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 24, 1941, Serial No. 375,717
9 Claims. (Cl. 179—159)



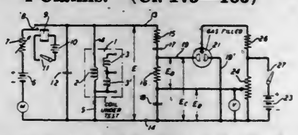
9. In communication apparatus, a supporting structure, a hand telephone comprising a receiver and a transmitter moulded into either end of a handle of insulating material removably supported on said supporting structure, a complex magnetic circuit comprising a plurality of elements in a plurality of branches including a permanent magnet and magnetically operated circuit contacts, one element of said magnetic circuit being moulded into said handle and the remaining elements of said magnetic circuit being mounted in said supporting structure, the position of said one element in said handle being such that an air gap is included in said magnetic circuit when said handle is in its normal position on said support, and a compensating air gap in said magnetic circuit in said supporting structure whereby the field of said permanent magnet is sufficiently diverted from said contacts in said normal position of said apparatus to release said contacts.

2,322,852
PANEL FASTENER
Harold W. Kost, Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application June 29, 1942, Serial No. 448,985
6 Claims. (Cl. 85—5)



1. A panel fastener comprising a transverse wall, a locating finger projecting axially from said wall, said wall having an aperture at one side of said finger and juxtaposed thereto, a rod having a lateral clamping jaw at one end, said aperture being of sufficient size to admit said jaw, an integral enlarged head on the opposite end of said rod, a separate abutment plate member on one side of said wall and in contact therewith at least at the peripheral portion thereof and having an opening admitting the passage of the enlarged head therethrough and fitting relatively snugly said finger and rod whereby to prevent retrograde movement of said jaw through said aperture, means to hold said member against lateral movement, and a spring interposed between said head and transverse wall.

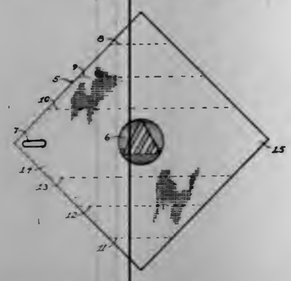
2,322,853
METHOD OF AND APPARATUS FOR TESTING COILS
Luther E. Krebs, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 28, 1941, Serial No. 400,292
4 Claims. (Cl. 175—183)



2. The method of testing for shorted turns in an electric coil having at least one winding comprising the step of establishing a magnetic field mutual to all windings, collapsing the field to induce oscillatory voltages in all of the windings, and observing the magnitude of the voltage induced in one of the windings during its second half cycle.

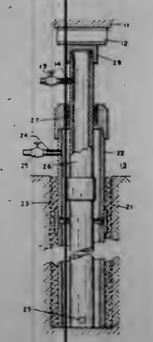
3. An apparatus for testing for shorted turns in an electric coil having at least one winding comprising a direct current source of electric energy including circuits for passing a continuous electric current therefrom through at least one of the coil windings to establish a steady magnetic field mutual to all the coil windings, an interrupter for suddenly interrupting the current to induce oscillatory voltages in all of the coil windings, and an indicator connected to at least one of the coil windings responsive to the voltage of a selected half cycle greater than a predetermined minimum magnitude.

2,322,854
COMBINATION INSIGNIA HANDKERCHIEF AND ARM BAND
John G. Langer, Philadelphia, Pa.
Application November 25, 1942, Serial No. 466,931
1 Claim. (Cl. 40—2)



In a device of the kind described, a handkerchief, insignia on said handkerchief in the center thereof and perpendicular to one of the diagonals of said handkerchief, portions of said handkerchief at both sides of the horizontal diagonal being foldable under the center area to produce an arm band on which the insignia are displayed, and an eyelet in one corner in the horizontal diagonal to receive the opposite corner prior to being tucked under the band.

2,322,855
METHOD AND APPARATUS FOR RAISING AND PERMANENTLY SUPPORTING HEAVY STRUCTURES
Thomas P. Lenahan, Duncan, Okla., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application February 9, 1942, Serial No. 430,096
2 Claims. (Cl. 61—51)



1. The method of raising and permanently supporting a structure which consists in drilling a plurality of holes in the earth, placing a casing in each hole, cementing the casings in place, placing jack pipes in the casings through stuffing boxes, filling the jack pipes and the casings with liquid, exerting hydraulic pressure on the liquid to raise the jack pipes replacing the liquid in the jack pipes and casing with cement slurry while maintaining the hydraulic pressure therein, and holding the pressure until the cement hardens, the hydraulic pressure being exerted on the liquid alternately, to rock the structure slightly in raising the same.

2,322,856
WRENCH REDUCING INSERT
Lloyd Le Roue, Toppenish, Wash.
Application September 12, 1941, Serial No. 410,647
1 Claim. (Cl. 81—185)



A wrench socket comprising a tubular body longitudinally fluted externally for fitting in a correspondingly shaped aperture in the wrench, an end flange on said body for preventing the socket from slipping through said aperture, and a longitudinally extending leaf spring opposed to the outer side of the body and including a right angled end socketed in said body beneath said flange, the remainder of the spring being detached from the body and of serpentine form longitudinally.

2,322,857
DEHYDROGENATION PROCESS
George E. Liedholm, Scarsdale, N. Y., and Robert M. Cole and Irving I. Shultz, Long Beach, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 22, 1941, Serial No. 420,078
12 Claims. (Cl. 260—683.3)

4. In a dehydrogenation process wherein a hydrocarbon having from two to five carbon atoms is contacted in the presence of a ferrous metal at an elevated temperature of at least 750° F. with a sulf-active dehydrogenation catalyst susceptible to contamination by iron and the catalyst is periodically regenerated by oxidation of carbonaceous deposits therefrom, the step of predrying the hydrocarbon to be dehydrogenated to a water content not greater than 0.005% by weight and maintaining in the predried feed from 0.0002% to 0.05% of reducible sulfur.

2,322,858
SELF-RETAINING CATHETER
Rollin J. Limbert and Charles J. Glaser, Jr., Conshohocken, Pa., assignors to Lee Rubber & Tire Corporation, Conshohocken, Pa., a corporation of New York
Application December 31, 1940, Serial No. 372,558
8 Claims. (Cl. 18—58)

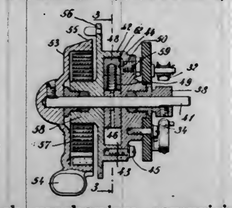


2. A method of forming Pezzer type catheters of rubber or the like which consists in initially immersing a cylindrical stem in a bath of liquid rubber or the like as many individual times as necessary to provide the same with a coating of predetermined thickness, in drying said coating between each immersion of said stem in the bath, in trimming said coating to requisite length, in fitting the trimmed end of said stem with a forming element for the catheter head, in immersing the headed end of the dipping form into said bath as many individual times as necessary to provide the same with a coating of requisite thickness contiguous with that of said stem, in drying the coating on said head between each immersion thereof in the bath, and in subsequently drying and curing said coating upon the form preliminarily to removal of the coating therefrom as the completed catheter.

2,322,859
LUBRICANT
Clarence M. Loane, Hammond, Ind., and James W. Gaynor, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application September 30, 1940, Serial No. 359,088
7 Claims. (Cl. 252—47)

1. A lubricant comprising a lubricating oil, from about 0.05% to about 5% of a glyceride phosphoric acid ester and from about 0.05% to about 10% of a sulfurized fatty oil.

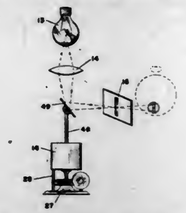
2,322,860
HEAT CONTROL TIME SWITCH
Bruno Loeffler, West New York, and John S. Pelan, North Plainfield, N. J., assignors to Mack Manufacturing Corporation, Long Island City, N. Y., a corporation of Delaware
Application December 1, 1939, Serial No. 307,120
3 Claims. (Cl. 200—34)



1. A switch mechanism comprising a casing having a substantially cylindrical chamber, an oscillatory member in, coaxial with and of less diameter than said chamber forming an arcuate space therebetween for receiving a liquid, a vane projecting from said member across said space into sealing engagement with said casing, a check valve in said space permitting flow of liquid therethrough in one direction, resilient means for rotating said member in the opposite direction, means forming a passage for slow escape of liquid from between said check valve and said vane, means in the path of said vane forming a second passage for rapid escape of liquid around said vane as said vane approaches a normal position, a pair of switches movable into open and closed positions, and a cam movable with said oscillatory member for closing one of said switches and opening the other switch when said vane is out of said normal position and for opening said one switch and closing said other switch when said vane is in normal position.

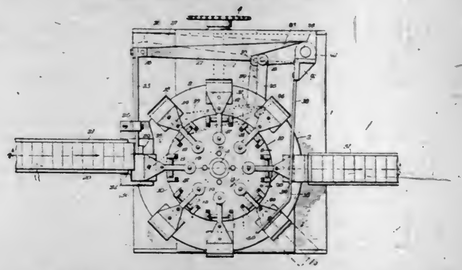
2,322,861
CONSTANT SPEED BODY
George P. Luckey, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application November 24, 1937, Serial No. 176,297
27 Claims. (Cl. 73—52)

2. An apparatus comprising an element rotatable at approximately constant speed, a second element in light frictional engagement with the first element and driven thereby, electromagnetic means for controlling the second element



to exactly constant speed by timed impulses at short intervals by periodically accelerating or decelerating the speed of the second element.

2,322,862
WEIGHING MECHANISM
Clarence J. Malhiot, Oak Park, Ill., assignor to F. B. Redington Co., Chicago, Ill., a corporation of Illinois
Application February 3, 1940, Serial No. 317,124
21 Claims. (Cl. 209—121)

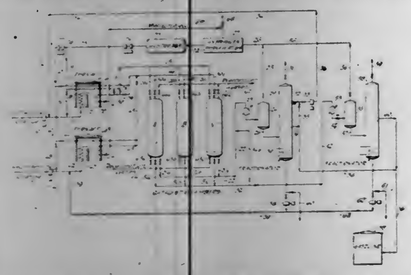


1. Weighing mechanism comprising a rotary disc, weighing elements spaced peripherally about the disc, a package feed trough, means for removing packages successively from the trough and depositing said packages in the elements successively, a cam rotatable with the disc, an arm movable by said cam for discharging packages of proper weight from said elements to delivery position, and means also movable by said cam for ejecting underweight and overweight packages from said elements prior to delivery position.

2,322,863
DEHYDROAROMATIZATION AND HYDROFORMING
Robert F. Marschner, Chicago, Ill., Llewellyn Heard, Hammond, Ind., and Alex G. Oblad, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application September 13, 1939, Serial No. 294,779
7 Claims. (Cl. 196—52)

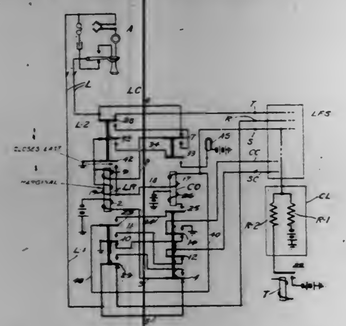
3. The method of converting low knock rating charging stock into high knock rating motor fuel which comprises dehydro-aromatizing a low knock rating naphtha by contacting it with a catalyst selected from the class consisting of molybdenum, chromium, tungsten, uranium and vanadium oxides and mixtures thereof supported on alumina at a pressure within the approximate range of 30 to 450 pounds per square inch at a temperature of about 875 to 1025° F. and at a space velocity which is sufficiently low to convert aliphatic hydrocarbons into cyclic aromatic hy-

drocarbons, whereby hydrogen is produced, admixing said hydrogen with additional charging stock in proportions of about 5 to 50 mols of hydrogen per mol of said charging stock and contacting said mixture with said catalyst under
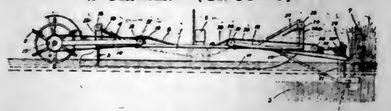


pressures of about 450 to 3000 pounds per square inch under such conditions that hydrogen is consumed, and further quantities of high quality motor fuel are produced.

2,322,864
TROUBLE CUTOFF SYSTEM
Fred M. McCarthy, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application March 29, 1941, Serial No. 385,843
8 Claims. (Cl. 179—18)



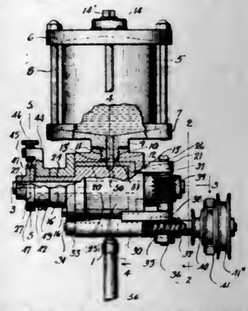
1. In a telephone system wherein automatic switching equipment is provided in common for interconnecting telephone lines, a line circuit for the individual use of one of said telephone lines, said line circuit including a line relay operable over the associated line to indicate the origination of a call thereon, a cutoff relay associated with said line relay and operable to disconnect the line relay from the line to clear the line for talking purposes, means effective during the normal operation of the line and associated line circuit for insuring that said relays are not both in a fully operated position at the same time, means operable from the common switching equipment responsive to the line associated with said line circuit being out of order for operating said line relay over a local circuit during a time when the cutoff relay is fully operated, and contacts associated with said relays effective when both relays are operated fully at the same time to maintain both relays operated depending upon the flow of current over the associated line to lock the line out of normal service to thereby free the said common switching equipment for use in connection with the other lines.

2,322,865
MEANS FOR ERADICATING TULES
Perry O. McDermott, Los Banos, Calif.
Application December 2, 1940, Serial No. 368,109
2 Claims. (Cl. 56—8)



1. In a tule cutting apparatus which includes a water borne hull and a transverse reciprocating type mower disposed when in operation below the bottom of the hull, means to drive the mower including a transversely extending pitman above the mower and a transverse bar mounted in fixed connection with and above the mower in front of the pitman.

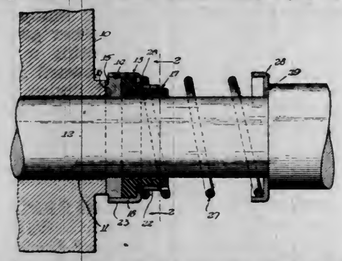
2,322,866
MERCURY FEEDER
Max Merz, Seattle, Wash., assignor to Mill & Mine Supply, Incorporated, Seattle, Wash., a corporation of Washington
Application May 5, 1941, Serial No. 391,953
4 Claims. (Cl. 221—107)



1. A feeder of the character described comprising a valve housing formed at one side with an opening for the inflow of a material to be fed and formed at another side with an opening for outflow of the material received through the first mentioned opening, a rotary valve in the housing comprising an outer sleeve formed with a single port, and a core member adjustably contained in the sleeve and formed with a plurality of pockets of different volume adapted to be selectively registered with the port of said sleeve, means for retaining the sleeve and core at any selected position of relative adjustment and means for rotating the valve whereby the sleeve port will be caused to pass in registration alternately with said openings of the valve housing, first for charging the selected pocket with material and then for the outflow of the measured charge.

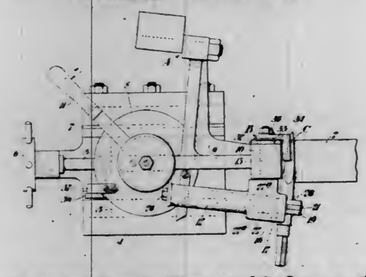
2,322,867
SEAL
Walter W. Meyer, Arlington Heights, Ill., assignor to Rotary Seal Company, Chicago, Ill., a corporation of Illinois
Application January 10, 1941, Serial No. 373,889
2 Claims. (Cl. 286—7)

1. A seal for rotating arbors comprising a seal ring adapted to have a free sliding rotary fit against means forming a circular seal seat through which the arbor extends, a flexible seal member of rubber-like material having a sleeve-like portion providing a surface for sealing engagement about the arbor to prevent the escape of gas or fluid along the surface of the arbor, the seal member also having sealing engagement with the seal ring, the sleeve-like portion of the seal member being formed with a plurality of crossing ribs in the arbor engaging surface



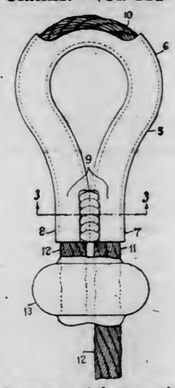
thereof, including ribs extending in one helical direction on said arbor engaging surface, and intersecting ribs extending in another helical direction, said crossing ribs providing air spaces between the ribs to permit the seal member to adhere to the arbor tightly enough to form a seal therewith and drive the seal member with the arbor while allowing axial movement of the sleeve-like portion along the arbor to compensate for wear, inaccuracy and the like in the seal ring.

2,322,868
TOOLHOLDER
Bronislaw Misiura, Duquesne, Pa.
Application September 18, 1941, Serial No. 411,412
5 Claims. (Cl. 51—96)



1. A device for holding a chisel or a similar tool while sharpening the same by means of a grinding wheel, comprising a supporting member, a stud shaft mounted on said supporting member for rotatable movement relative thereto, a tool supporting and clamping means arranged on said shaft for supporting the inner end of the tool to be sharpened, said clamping means consisting of a longitudinally extending hollow body member extending substantially perpendicular to said shaft and having a clamping member arranged therein which is adapted to clamp securely the tool, resilient means arranged within said body member for moving automatically said clamping member to its clamped position, means for moving said clamping member against the action of said last mentioned means to its unclamped position, and means arranged on said shaft for supporting the outer end of the tool, said body member adapted to act as a handle portion whereby the shaft together with the inner tool supporting and clamping means and the outer tool supporting means carried thereby and the tool to be sharpened may be oscillated relative to said supporting member and the grinding wheel while the tool is being sharpened.

2,322,869
THIMBLE
William H. Mohr, Newport, R. I.
Application February 16, 1943, Serial No. 476,115
3 Claims. (Cl. 114—115)

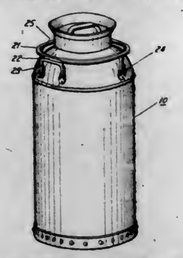


1. A thimble comprising a single piece of tubing bent to form an eye, the ends of the tube being secured together forming a stem.

2,322,870
RESIN FROM HALOGENATED HYDROCARBONS AND SIMILAR MATERIALS
Vittorio Molinari, North Plainfield, N. J., assignor to Bakelite Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 16, 1940, Serial No. 324,323
4 Claims. (Cl. 260—67)

1. Process of forming a resin which comprises condensing in a substantially anhydrous condition, a member of the group consisting of halogen-substituted aromatic hydrocarbons and halogen-substituted phenyl ethers, with an aldehyde reactive therewith, in the presence of only small catalytic amounts of a member of the group consisting of sulphuric acid and aromatic sulphonic acids reactive with a member of said first mentioned group, the aldehyde being free of other functional groups which would prevent the resin-forming reaction.

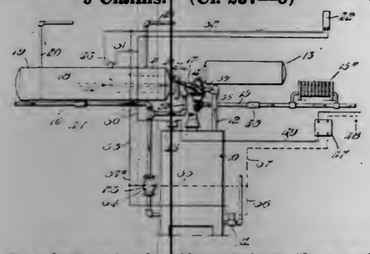
2,322,871
HANDLE FOR MILK CANS
Paul W. Mollenhauer, Alburnett, Iowa
Application March 12, 1941, Serial No. 382,959
1 Claim. (Cl. 220—94)



In a milk can, a lower portion having substantially vertical side walls, a neck portion in the top of the can of smaller diameter than the lower portion, an inwardly and upwardly extending portion connecting said lower and neck portions,

a pair of U-shaped handles attached to the inwardly and upwardly extending portion at points diametrically opposite each other, a tubular annulus having a diameter of at least one inch less than the lower portion of the can attached to the upper portion of said U-shaped handles, and a plurality of tubular legs extending from the annulus to the inwardly and upwardly extending portions of the can, said tubular members being flattened at their lower portions to fit the inwardly and upwardly extending portion of the can to which they are attached.

2,322,872
HEATING SYSTEM
Robert E. Moore, Park Ridge, Ill.
Application October 8, 1941, Serial No. 414,127
9 Claims. (Cl. 237—8)



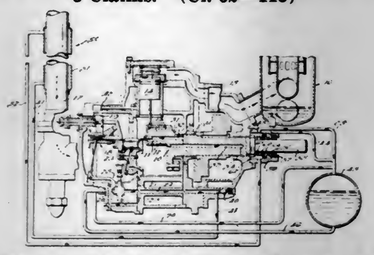
2. In a hot water heating system, the combination of a boiler, a radiator circuit, a service water heating circuit, the circuits communicating with the boiler, a service water container in heat exchanging relation to the service circuit, valve means for controlling flow through both circuits, and thermostatic means responsive to the temperature of the service water and operable to actuate the valve means to direct the boiler water through the service circuit below a predetermined temperature of the service water and through the radiator circuit above said temperature.

2,322,873
GRATE BAR FOR SINTERING MACHINES
Wilson H. Moriarty, Shaker Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application March 4, 1941, Serial No. 381,643
1 Claim. (Cl. 263—28)



In a sintering machine a pallet comprising a pair of side walls extending lengthwise of the pallet and a plurality of grate supporting walls extending transversely of the pallet and joining said side walls, stop members extending along certain of said grate supporting walls and terminating short of said side walls so as to form vertical passages between the ends of said members and said side walls, a plurality of grate bars on said grate supporting walls each having depending lugs underlying said stop members, said lugs being of lesser thickness than said passages so as to pass through the latter during assembly of said bars with the pallet, said lugs having horizontal and vertical stop surfaces, the horizontal surfaces of the lugs on adjacent bars being spaced unequal distances from the under sides of said stop members and said vertical surfaces of the lugs on adjacent bars being spaced unequal distances from the sides of said stop members so as to provide for unequal movement of said bars away from and longitudinally of said pallet as the latter is inverted, other grate bars engaging said side walls for limiting movement of said plurality of grate bars toward said side walls, and means on said pallet limiting movement of said other grate bars away from said pallet when the latter is inverted.

2,322,874
COMPRESSOR OIL COOLING SYSTEM
Charles R. Neeson and Reginald G. Wyld, Dayton, Ohio, assignors to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application November 21, 1941, Serial No. 419,888
3 Claims. (Cl. 62—115)

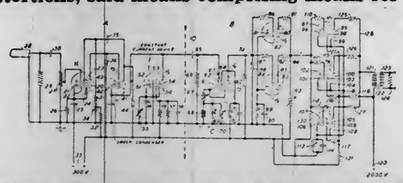


1. The combination with a refrigerant compressor comprising a housing, a suction inlet pipe attached thereto for conducting refrigerant into said housing, compressing mechanism enclosed in said housing, a force-feed lubrication system of the type including a pump for forcing lubricant to lubricated surfaces of the compressing mechanism, the lubricant escaping between certain of said surfaces into the interior of the compressor housing to be collected, admitted to said pump and recirculated through said lubrication system, a compressing mechanism driving shaft extending through an opening in said housing, and a shaft seal for preventing the escape of refrigerant from the interior of said housing through said opening; of means for by-passing a portion of the output of said pump around said lubricated surfaces and through a heat exchanger including a portion of said suction inlet pipe, means for passing the lubricant emerging from said heat exchanger in thermal exchange with said shaft seal, the capacity of said heat exchanger being such as to extract more heat from the lubricant passing therethrough than is imparted to all of the lubricant by the lubricated surfaces of the compressor and by said shaft seal, and means for returning the by-passed lubricant to the force-feed lubrication system after passing in thermal exchange with said shaft seal.

2,322,875
ELECTRIC CIRCUIT
Bernard M. Oliver, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 11, 1941, Serial No. 410,353
21 Claims. (Cl. 179—171)

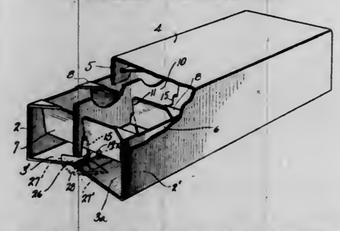
1. A multistage amplifier comprising means in an early stage for producing a distortion of a wave which is substantially complemental to that produced in a later stage in said amplifier, and

means for correcting for the residual distortion resulting from the imperfect matching of said two distortions, said means comprising means for ef-



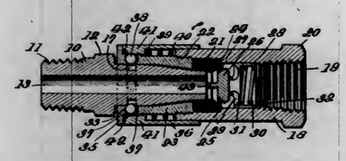
fectively introducing a wave of fundamental frequency in the input circuit of one of the stages of said amplifier.

2,322,876
EGG CARTON
Joe O'Reilly, Tacoma, Wash.
Application March 17, 1941, Serial No. 383,690
2 Claims. (Cl. 229—29)



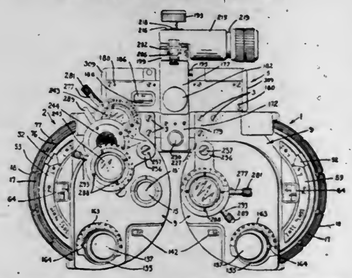
1. A carton of the character described comprising opposite side walls, a bottom wall joining the side walls, and formed with a central longitudinal ridge, and formed along the ridge with a plurality of longitudinally directed spaced slots, and a longitudinal division strip for the carton, formed along its bottom edge with a plurality of hook-like extensions adapted to be extended down through the said slots and by an endwise shifting of the strip, to be hooked beneath the bottom wall for its support; the slot that is next adjacent the end edge of the bottom away from which the strip is shifted for locking, being of a length whereby to closely confine the strip extension therein and hold the strip against releasing movement, and there being a slit in the bottom wall, transversely of the ridge and passing through the restricted slot at the end that is next to the edge of the bottom wall, and here being scored lines extending from opposite ends of the slit to the edge of the bottom, setting off a latch portion between them which is adapted to be depressed below the level of the ridge for passing of the hook-like portion of the division strip into and from the shortened slot.

2,322,877
COUPLING
Arthur L. Parker, Cleveland, Ohio
Application January 11, 1941, Serial No. 374,118
4 Claims. (Cl. 284—19)



1. A coupling for joining fluid conduits and comprising a female coupling member, an annular elongated sealing washer substantially fixed against longitudinal deformation in the female coupling member and providing a tapered valve seat at one end thereof, a valve member mounted in the female coupling member and having a tapered seating surface adapted to engage the valve seat for sealing the female coupling member with limited radial deformation thereof, spring means for normally forcing said valve member toward a seated position, a male coupling member having a nipple portion adapted to be inserted in said female coupling member, said valve member having a relatively narrow transverse rib extending within the sealing washer and terminating short of the opposite end thereof whereby to permit the nipple portion on the male coupling member to initially engage the inner surface of the washer to seal the connection and said nipple being adapted upon further inward movement to engage the transverse rib and shift the valve member and seating surface away from the valve seat to permit fluid communication between the coupling members.

2,322,878
EYE TESTING INSTRUMENT
William F. Peck, Snyder, and Albin A. Gradisar, Buffalo, N. Y., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Original application April 6, 1939, Serial No. 266,360. Divided and this application September 18, 1941, Serial No. 411,422
12 Claims. (Cl. 88—22)

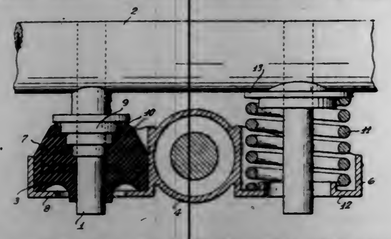


1. In an eye testing instrument the combination of a plurality of lens cells having a series of lenses therein for selective movement into and out of alignment with the eyes of an individual under test, said lens cells being rotatable about a common axis, one of said cells having indicia on one side thereof for indicating, in part, the optical value of the lenses in alignment with the eyes, the other of said cells being located on the side of said first cell opposite the surface having the indicia thereon, and a disc of less diameter than the cells carried by the other of said cells in overlying relation with the side surface of the first cell on the side thereof having the indicia thereon with said first cell being located between the disc and the other cell and having relation with cut away portions through which said indicia may be viewed and indicia on said disc adjacent said cut away portions adapted to function cooperatively with the indicia on said first cell for indicating the total power value of the lenses in alignment with the eyes.

2,322,879
COMBINED STEEL AND RUBBER SPRING
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, a corporation of New York
Application April 2, 1940, Serial No. 327,477
15 Claims. (Cl. 267—33)

1. A composite spring assembly adapted to sup-

port a supported member on a supporting member, comprising a metal spring having a constant load deflection ratio, a rubber spring, means for varying the load deflection rate of said rubber spring to provide a load deflection rate which increases with the load according to a selected



curve, and means for mounting the spring assembly between the supported and supporting members for joint action and in such manner that when a load is initially applied the metal spring is deflected a predetermined amount prior to any deflection of the rubber spring.

2,322,880

PROCESS OF PICKLING, CURING, AND PRESERVING FRUITS AND VEGETABLES

Alfred Pollak, New York, N. Y.

No Drawing. Application June 5, 1941, Serial No. 396,708

7 Claims. (Cl. 99—156)

1. Improved method of preserving vegetables which consists in pickling the vegetables with a pickling solution containing, diluted therein, a substance selected from the group of organic acid and phytin containing waste products consisting of steepwater from corn starch factories, presswater from potato starch factories and spent washes from distilleries.

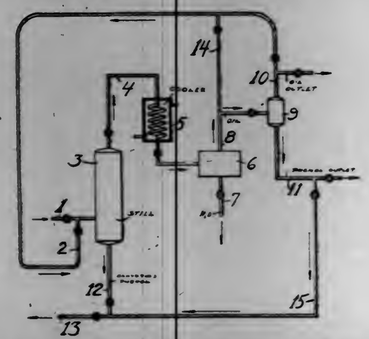
2,323,881

SOLVENT TREATING

John E. Pollock, Bromley, England, assignor to Standard Oil Development Company, a corporation of Delaware

Application January 8, 1941, Serial No. 373,528

10 Claims. (Cl. 202—41)



7. Process for recovering phenol from constant boiling mixtures of phenol and water which comprises distilling the constant boiling mixture in the presence of a hydrocarbon oil vaporizable at the temperature of the distillation, removing and condensing the vapors from the distillation to form a liquid body having an oil phase and a water phase, continuously separating the oil phase from the water phase, and recovering phenol from the oil phase.

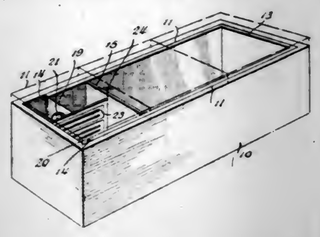
2,322,882

REFRIGERATION APPARATUS

Walter Raskin, New York, N. Y.

Application April 18, 1942, Serial No. 439,470

7 Claims. (Cl. 62—102)



1. In a refrigerated cabinet including a housing, a fast-freeze section and a storage section, the exterior walls of said sections being spaced from the walls of said housing to define a passage, said fast-freeze section being apertured with respect to said passage for circulation of air therethrough, at least some of said section walls including refrigerated surfaces, and means for circulating air in said passage, over said refrigerated surfaces and through said fast-freeze section, whereby the entire refrigerated surface in said passage will become effective for refrigeration within said fast-freeze section.

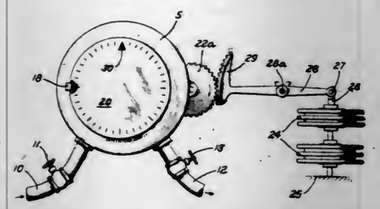
2,322,883

OXYGEN REGULATOR

Wladimir A. Reichel, Bellerose, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application October 7, 1939, Serial No. 298,516

3 Claims. (Cl. 137—153)



1. A gas regulator comprising, in combination, a valve having a casing, a hollow shaft rotatably mounted in said casing, a vane member carried by said shaft to vary the output of said casing, an indicator rotatable with said hollow shaft, pressure responsive means, a dial having an index and actuated by said pressure responsive means to indicate said pressure, and manually operated means for supplying said gas to said chamber to actuate said vane member until said indicator is in a position coincident with said index.

2,322,884

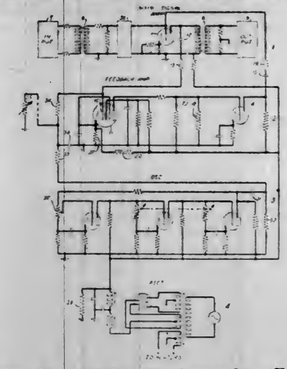
AMPLIFYING SYSTEM

Alfred A. Roetken, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 26, 1941, Serial No. 390,450

5 Claims. (Cl. 179—1)

1. In a sound reproducing system, a source of currents representing sounds to be reproduced, a receiver, an amplifier connecting the source to the receiver, a negative feedback path in the amplifier and means for cyclically varying the transconductance of the feedback path at a subaudio



frequency for producing tremolo effects in the output of the receiver.

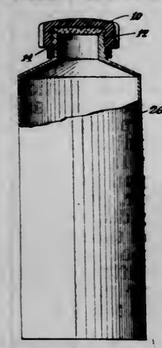
2,322,885

METHOD OF MAKING CLOSURES FOR COLLAPSIBLE TUBES AND THE LIKE

Louis F. Rogers, Wilmington, Del., assignor to Bend Manufacturing Corporation, Inc., a corporation of Delaware

Application May 3, 1939, Serial No. 271,498

4 Claims. (Cl. 113—80)



1. In the manufacture of closures for collapsible tubes and the like, the steps which include providing a sealing disk having a surface thereof coated with a thermoplastic adhesive, inserting said disk into a closure shell with the coated surface of the disk in direct contact with a wall thereof, tightly fastening the closure assembly upon a collapsible tube and thereby pressing said sealing disk and the interposed adhesive against said closure shell, heating the closure assembly sufficiently to soften the adhesive, and finally causing the assembly to cool while maintaining the sealing disk under pressure by the secured closure.

2,322,886

ADHESIVE AND METHOD OF MAKING THE SAME

Seymour G. Saunders, Bloomfield Hills, and Harry Morrison, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

No Drawing. Application February 14, 1940, Serial No. 318,842

11 Claims. (Cl. 260—5)

1. An adhesive comprising in its unset state a liquid vehicle and a solids content incorporated therein comprising a fused together mass of asphalt, resinous material having a main portion comprising hydrocarbon polymers resulting from polymerization of the di-olefine constituents of a hydrocarbon distillate and rubber.

2,322,887

CHEMICAL TREATMENT OF PAPER

George L. Schwartz, Wilmington, Del., and Joseph F. Walker, Lewiston, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 15, 1940, Serial No. 361,268

6 Claims. (Cl. 117—155)

2. The process which comprises treating a paper web with an aqueous starch dispersion and containing a water-soluble methylol-melamine in an amount of from 1 to 25 parts per 100 parts of starch, a polyvinyl alcohol in an amount of from 1 to 25 parts of polyvinyl alcohol to 75 parts of starch and an ammonium salt of a mineral acid, and then heating said treated paper web to such a degree as to cause an insolubilizing reaction between the starch and the methylol-melamine.

2,322,888

PROCESS FOR PRODUCING HIGH WET STRENGTH PAPER

George L. Schwartz, Wilmington, Del., and Joseph F. Walker, Lewiston, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 16, 1940, Serial No. 365,984

8 Claims. (Cl. 117—155)

3. The process which comprises treating a web of paper-making fibers with an aqueous solution of polyvinyl alcohol and an ammonium salt of a mineral acid and a water-soluble N-methylol aliphatic compound said solution having a pH within the range of 6.1 to 12.5 under conditions that will leave at least 30% moisture in said web, then drying said paper web by heating same for from 30 to 60 seconds at a temperature in excess of 65° C. so as to cause an insolubilizing reaction between the polyvinyl alcohol and the N-methylol compound said temperature being insufficient to cause the drying of the paper web to a degree that said paper web will contain less than 4% moisture.

2,322,889

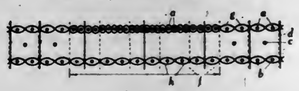
COLLAR FABRIC

Thomas Lewis Shepherd and William Richardson, London, England

Application April 8, 1940, Serial No. 328,461

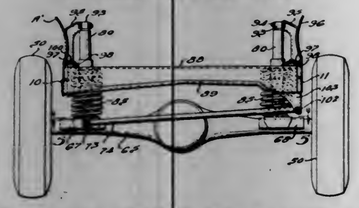
In Great Britain February 3, 1939

2 Claims. (Cl. 139—385.5)



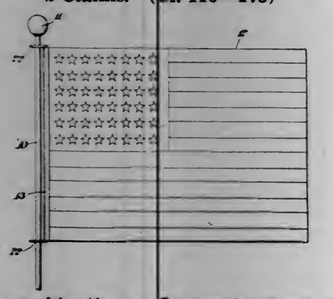
1. A woven multi-ply collar fabric comprising warp threads, weft threads and binder warp threads principally, the fabric being woven with a longitudinally extending fold zone including warp thread reinforcement which increases per unit of width from the respective outer margins of the fold zone to a maximum per unit of width at a location intermediate said margins and designated a fold line, the number of warp threads in that area of the fabric exclusive of the fold zone being substantially uniform.

2,322,890
VEHICLE WHEEL SUSPENSION
Frederic W. Slack, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application July 14 1941, Serial No. 402,297. Divided and this application November 14, 1941, Serial No. 419,077
6 Claims. (Cl. 280—124)



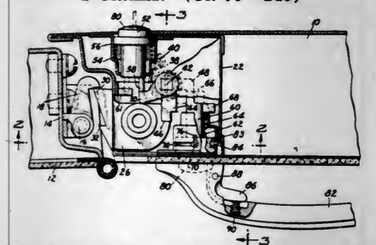
1. In a motor vehicle having a ground wheel, a transversely extending wheel carrying structure adapted for rising and falling movements with the wheel, means for guiding said wheel support structure for swinging movement, a frame structure adapted for springing support by said wheel carrying structure, said frame structure comprising a spring support having an opening therethrough, a second spring support carried by said wheel carrying structure, a coil spring between said spring supports for springing said frame structure on said wheel carrying structure, a tubular shock absorber having its lower end portion disposed within said coil spring and projecting upwardly through said opening, means fixed with respect to said frame structure for providing an articulated support for the upper end of said shock absorber above said coil spring, means fixed with respect to said wheel carrying structure for providing an articulated support for the lower end of said shock absorber, the center of articulation of one of said shock absorber support means being disposed, when said coil spring is in its static condition, in offset relationship longitudinally of the vehicle with respect to a plane extending transversely of the vehicle and containing the axis of said coil spring and lying perpendicular to the longitudinal vertical mid-plane of the vehicle, the center of articulation of the other of said shock absorber support means being disposed, when said coil spring is in its static condition, in offset relationship transversely of the vehicle with respect to a plane parallel to said mid-plane and containing the axis of said coil spring.

2,322,891
FLAG MOUNTING
David Snyder, Philadelphia, Pa.
Application May 20, 1941, Serial No. 394,265
2 Claims. (Cl. 116—173)



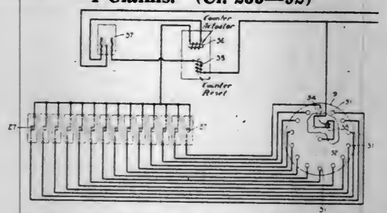
1. In combination, a flag made of soft pliable textile material, and a mounting therefor, said mounting including a longitudinally disposed sheet metal strip folded at two longitudinal folds to provide three strip portions, a stiffener comprising a spring wire member longitudinally disposed within one of said folds, the flag having its edge portion within at least one of said folds, the strip portions being in gripping engagement with said edge portion of the flag.

2,322,892
DOOR LOCK MECHANISM
Ray W. Springer, Detroit, Mich.
Application August 29, 1940, Serial No. 354,680
4 Claims. (Cl. 70—149)



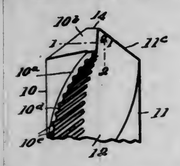
1. In door lock mechanism having a strike bolt, a rockably supported latch plate spring urged toward interlocking engagement with the bolt, a rockably supported locking element spring urged toward interlocking engagement with the latch plate to prevent withdrawal movement of the plate from interlocking engagement with the bolt, a rotatable axially shiftable plunger, said plunger adapted in one position of rotation to engage the locking element against release of the latch plate, said plunger being axially shiftable in a second position of rotation to release the locking element from engagement with the latch plate, a door pull handle disposed in proximity to said plunger, bell crank shaped trigger mechanism pivotally disposed in proximity to the door pull handle and spring urged to engage the plunger in the second position of rotation to prevent axially shiftable movement of the plunger, said trigger mechanism manually operable to release said plunger.

2,322,893
REGISTERING DEVICE
William T. Stearn, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application October 4, 1940, Serial No. 359,743
4 Claims. (Cl. 235—92)



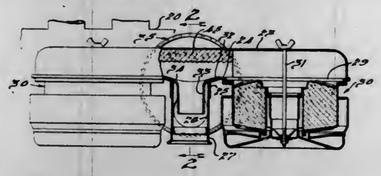
2. In a registering device for automatically checking the operation of a winding machine wherein a plurality of spindles are driven by a common drive, an electric circuit including a switch electrically connected to each spindle for detecting the operative status of each spindle, means for registering the number of times said registering means are connected with said detecting means in association with an operating spindle, and means for connecting said registering means with each of said detecting means in turn at regular intervals, said connecting means being driven by the common drive of the spindles whereby each spindle is checked at uniform intervals in the course of its revolutions.

2,322,894
TWIST DRILL
George Stevens, Baltimore, Md., assignor to Rustless Iron and Steel Corporation, a corporation of Delaware
Application June 29, 1939, Serial No. 281,944
1 Claim. (Cl. 77—70)



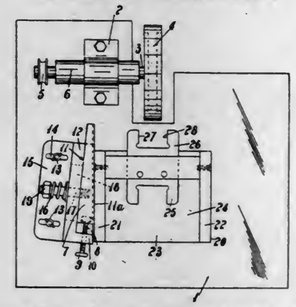
A twist drill for drilling tough metals and materials, said drill including a multiplicity of like grooves evenly spaced along the leading walls of the drill lands in a substantially parallel relationship, with the grooves along each of said walls substantially parallel to the plane of the cutting face associated with the respective land, the groove of each of said walls nearest the drill tip defining a cutting edge with the drill face.

2,322,895
TWIN CARBURETOR INTAKE SILENCER
Bernard Steensen, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application July 10, 1941, Serial No. 401,760
3 Claims. (Cl. 261—23)



1. Silencing apparatus for a twin carburetor engine fuel system having a pair of carburetors each provided with an air inlet passage and with a fuel mixture outlet for discharging into the same manifold comprising a sound attenuating chamber having an inlet throat connected directly to the air inlet passageway of only one of said carburetors and extending laterally of the path of flow of air therethrough, and a sleeve in the air inlet passageway with which said chamber is directly connected having a wall portion in front of but spaced from the entrance to said throat and having a flange obstructing the flow to atmosphere from the latter air inlet passage of sound waves emanating in said engine, said sleeve being adapted to encourage the flow of such sound waves into said chamber, and a similar sleeve in the air inlet passageway of the other carburetor having a flange obstructing the flow therethrough to atmosphere of said sound waves, said latter air inlet passageway being in sound wave communication with said chamber through said manifold.

2,322,896
GRINDING AND/OR LAPPING MACHINE
Phillip Gilbert Thomas, Park Rise, Leatherhead, England
Application May 13, 1942, Serial No. 442,747
In Great Britain September 27, 1941
20 Claims. (Cl. 51—98)



16. A machine for grinding gauges, comprising a grinding wheel, means for turnably supporting the grinding wheel, a gauge-carrier removably mounted on said machine and slidable thereon towards and from the grinding wheel, guiding means for guiding the gauge-carrier in its slidable movement and for fixing the path of said slidable movement, said guiding means including a guide adapted for simultaneous movements towards or from the axis of the grinding wheel and in a direction transversely to the plane of the wheel, means for effecting the simultaneous movements of said guide, and means for detachably securing a gauge to the carrier, said carrier being freely removable from said machine in order to measure the gauge or for other purposes and replaceable thereon against said guide without disturbing the position of the gauge on the carrier and the path of movement of the latter towards and from the grinding wheel.

2,322,897
LEASH STICK
Arthur Van den Bogaerde, Jr., Los Angeles, Calif.
Application May 31, 1941, Serial No. 395,910
2 Claims. (Cl. 119—109)



1. In a device of the character described, an elongate rigid body, the upper portion of the body having a slot, a handle loop having its end portions in the slot, dowels passing transversely through the body and said portions of the loop to secure the latter in the slot, a cap member covering the upper end of the body, tabs on the member engaging against the side of the body, and a wrapping helically wound on the body to cover the sides of the slot and the tabs to assist in retaining said loop portions in the slot and to hold the tabs against the body.

2,322,898
VISOR STRUCTURE
William C. Van Dresser, Detroit, Mich.
Application January 22, 1942, Serial No. 427,705
6 Claims. (Cl. 296—97)

1. Visor mechanism comprising, in combination, a supporting rod, a visor panel having a frame secured to one side of the panel and extending along one margin, said frame having a

part embracing the rod supporting the panel thereupon for adjustment rotatably thereabout and longitudinally thereabout, said panel having a marginal opening adjacent to the rod opposite the frame, a part shaped to grip the rod disposed



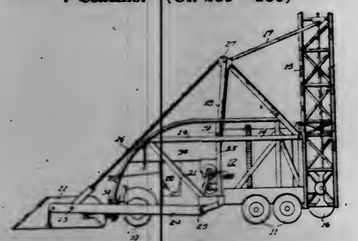
within said opening, an adjustment screw coupling said part with the frame and manually operable to actuate the part relative to the frame to grip the rod to releasably secure the visor panel thereto at adjusted positions.

2,322,899
AUTOMATIC TIMING DEVICE
Harold A. Wagner, Portland, Oreg.
Application July 28, 1941, Serial No. 404,305
7 Claims. (Cl. 192—139)



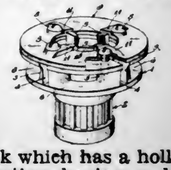
1. A timer comprising a longitudinally movable control bar, means biasing said bar to a releasing position, said control bar being movable to a set position against the force of said biasing means, a pivoted latch for cooperatively engaging said control bar and retaining said bar in the set position, a longitudinally movable rack bar, said latch being mounted in said casing beyond one end of said bar, means biasing said rack bar away from said latch, notching means for engaging said rack bar and moving said one end of said rack bar into engagement with said latch for effecting the disengagement of said latch from said control bar, operating means for said notching means, means responsive to the release of said control bar for shifting said notching means to an inoperative position to permit resetting of the rack bar by the biasing means associated therewith.

2,322,900
CONCRETE MIXER
Harold A. Wagner and Gustave H. Wagner, Portland, Oreg.
Application August 8, 1942, Serial No. 454,106
7 Claims. (Cl. 259—166)



1. In a vehicle mounted concrete mixing plant having a cab in the forward end thereof and a loading skip pivotally mounted on said plant for hoisting ingredients from ground level to dumping position above said cab, the combination comprising a pair of arcuate opposite side frame members arranged concentrically with the pivotal axis of said skip for guiding the upward pivotal movement of said loading skip, means including a water tank extending the width of said vehicle for bracing said side frame members apart, the bottom wall of said tank defining the roof of said cab.

2,322,901
DIESTOCK
John E. Waldo, Bridgeport, Conn., assignor to Armstrong Manufacturing Co., Bridgeport, Conn., a corporation of Connecticut
Application November 7, 1941, Serial No. 418,186
5 Claims. (Cl. 10—123)



5. A diestock which has a hollow body portion, said body portion having a longitudinal axis around which said body is turned when the diestock is operated, said body having spaced projections which extend axially of said body portion, chaser-receiving grooves associated with said projections which are radially disposed relative to said axis, a chaser located in each said chaser-receiving groove, each chaser extending radially inwardly of its respective chaser-receiving groove, each chaser having teeth at its inner end, each chaser having radially disposed side walls which abut the radially disposed side walls of the respective chaser-receiving groove, each chaser also having a bottom edge which abuts the bottom wall of the respective chaser-receiving groove, each chaser extending above its respective chaser-receiving groove, a fastening plate which has a central opening, said fastening plate having upstanding lugs which are located wholly above the tops of said grooves, each said lug having a recess which is aligned with and which is located directly and wholly above one of said grooves, each said recess being open at its radial inner end and having an end-wall at its radial outer end, the bottom of each said end-wall being substantially flush with the bottom wall of said fastening plate, the bottom wall of each said recess abutting the respective part of the top edge of the respective chaser, the upper edge-part of the butt-end of each chaser abutting said end-wall of the respective recess, pressure means holding said fastening plate fixed to said body portion and exerting clamping pressure between said bottom walls and said top edges of said chasers so that said fastening plate clamps each chaser relative to said body portion and relative to said plate.

2,322,902
APPARATUS FOR MAKING TUBULAR BODIES
Frederick Charles Wappler, New York, N. Y.
Application June 1, 1940, Serial No. 338,296
12 Claims. (Cl. 29—34)



1. In an apparatus for treating a tube of the character described, operable means for pinching the tube into closed condition at a region spaced from the end of the tube, and movable means for cutting through said pinched region

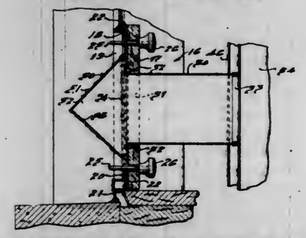
to provide a sealed end on each of the adjacent severed tube portions, said pinching means comprising a multi-jawed chuck through which the tube may pass, a handle connected with said jaws for opening and closing of said jaws, and means connected with the cutting means in position to be actuated by the handle to move said cutting means to a cutting position.

2,322,903
IGNITION HARNESS
Howard M. Wilkoff, Worcester, Mass.
Application December 27, 1940, Serial No. 371,927
15 Claims. (Cl. 174—71)



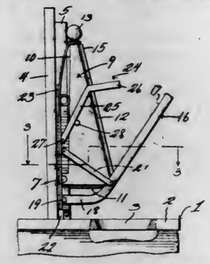
1. Ignition harness including a flexible manifold comprising a flexible, seamless insulating jacket of oil and water-resistant material having high dielectric strength and which is tough and highly elastic, the manifold having a plurality of spaced fittings, fixedly anchored to the jacket, for the attachment of ignition wires, an ignition conduit, including an ignition wire, removably attached to each fitting, a hollow, flexible metallic sheath constituting a lining for the insulating jacket, and a plurality of individually insulated conductors housed within said metallic sheath, said conductors being of different lengths and each terminating at one of the respective fittings.

2,322,904
CASEMENT WINDOW ADAPTER
Burdell S. Williams, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application July 8, 1940, Serial No. 344,319
3 Claims. (Cl. 98—94)



1. A window adapter for permitting association of a floor mounted air cooled air conditioning unit with a window comprising a panel of sufficient size to embrace the edges of a horizontal row of window light frames from which the panes of glass have been removed and provided with an opening therethrough of sufficient size to accommodate the volume of air required to cool the condenser of the air cooled unit to be associated therewith, an inwardly extending duct fastened to said panel at the edges of said opening for the purpose of connecting said opening with the condenser compartment of the air cooled unit, a plurality of fastening means engageable with said panel and portions of the window light frames from which the panes of glass have been removed for removably positioning said panel with respect to said window, and a plurality of downwardly opening hoods mounted on the outer surface of said panel and overhanging said opening, each of said hoods being so located as to extend through an individual window light frame, said hoods being fastened to said panel at their upper edges only and provided with side walls having laterally extending flanges at their inner edges adapted to be received between said panel and said window frame, said securing means operating to draw said panel and frame together with said flanges therebetween.

2,322,905
VEGETABLE TOPPER
William Eddie Tenbrook, Glenwood Springs, Colo.
Application April 6, 1942, Serial No. 437,877
3 Claims. (Cl. 146—146)



1. A cutting device of the character stated, comprising a vertically disposed body, a material supporting member secured to the lower part of said body and extending forwardly and upwardly therefrom, an elongated knife pivotally secured to the supporting body adjacent the point of attachment of said member thereto, said knife being vertically disposed when in inoperative position and when in such position having a forwardly and downwardly inclined cutting edge forming with said member a substantially V-shaped material receiver, said knife when oscillated forwardly and downwardly having its cutting edge moved in coacting relation with said member for the cutting of material in the stated receiver, an elongated arm pivotally attached at one end to the supporting body and extending forwardly therefrom transversely of the cutting edge of the knife, and an operative coupling between the knife and said arm whereby the free end of the arm is maintained in raised position with respect to the bottom of said receiver, the arm swinging freely downwardly to extend across said receiver upon the downward swinging of the knife.

2,322,906
ISOLATION OF STEROLS FROM FATS AND OILS
Lester Yoder, Ames, Iowa, assignor to Iowa State College Research Foundation, Ames, Iowa, a corporation of Iowa
No Drawing. Application June 15, 1940, Serial No. 340,841
7 Claims. (Cl. 260—397.2)

1. In a process for the separation, from oily or fatty substrates, of sterols having one reactive double bond in the hydrophenanthrene nucleus, the steps of subjecting wool grease to saponification, separating the saponifiable and unsaponifiable portions thereof, dissolving the unsaponifiable portion in a fat-dissolving non-alcoholic solvent, treating the solution with a strong, monobasic, anhydrous acid which contains no oxygen to form a precipitate of acid addition products of the sterols, separating the precipitate from the solution, and treating the precipitate with an alkaline ion.

2,322,907

1-ACYLAMINOARYL-5-PYRAZOLONES

Paul Zervas, Cologne Mulheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 9, 1941, Serial No. 406,242. In Germany January 29, 1940
8 Claims. (Cl. 260—310)

1. Process of preparing 1-acylamino-phenyl-5-pyrazolones which comprises splitting off the 4-sulfonic acid group of 1-acylamino-phenyl-5-pyrazolone-4-sulfonic acids by treating these acids with strong sulfuric acid at a sufficiently elevated temperature at which the 4-sulfonic acid group splits off.

2,322,908

SLIDE FASTENER

Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania

Application December 19, 1940, Serial No. 370,851
2 Claims. (Cl. 24—205)



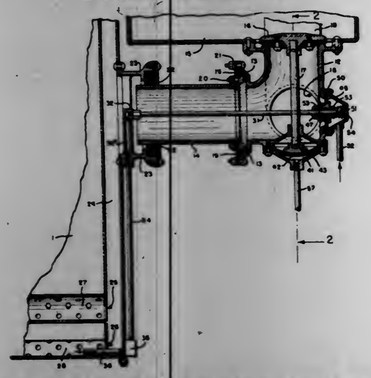
2. A slide fastener stringer comprising a tape and a series of fastener members in spaced relation on the edge of said tape, each fastener member having a bifurcated portion astride the edge of said tape and a head portion projecting from the edge of the tape, said head portion having a recess on one side facing the next fastener element and an oppositely located projection facing in the opposite direction, a notched portion separating the projection from the bifurcated portion, the sides of said recess being closed by walls which extend at an acute angle to a longitudinal central plane of the fastener stringer, and the outer surfaces of said bifurcated portion, said notched portion and said projection having no portion inclining at a greater angle to said longitudinal center line than the sides of said recess.

2,322,909

FLEXIBLE CONDUIT COUPLING FOR SHELLLESS WASHERS AND THE LIKE

Louis Zimarik, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York

Application December 11, 1940, Serial No. 369,655
1 Claim. (Cl. 285—10)



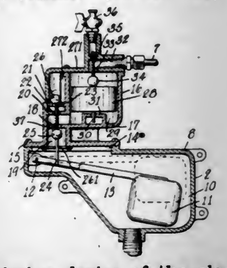
In a machine which includes a container movable about an axis and having associated and rotatable therewith a pressure operated instrumentality, the container having an axial hub, the combination of a fluid inlet construction for the container comprising a fixed conduit having a portion arranged coaxially with the container and spaced axially from said hub, and alined therewith, a conduit between said portion and the hub and connected to both to have a flexible joint action and to one to have a sliding action, an inlet pipe for a pressure fluid for operating said instrumentality, said inlet pipe being arranged coaxially with the container and extending axially through said conduit and conduit portion and connected at one end to have a swivelling action and at its other end to have a universal joint action, and also an axial movement, the fixed conduit being provided with a chamber for connection to a source of pressure fluid, said chamber communicating with the outer end of said pipe.

2,322,910

PRIMING DEVICE FOR PUMPS

Adrian P. Adney and Benjamin D. Barton, Battle Creek, Mich., assignors to American-Marsh Pumps, Inc., Battle Creek, Mich.

Application April 7, 1941, Serial No. 387,204
6 Claims. (Cl. 137—68)



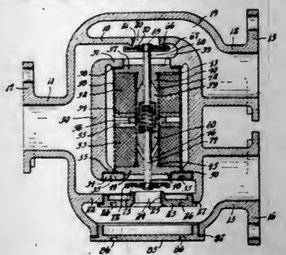
6. In a priming device of the class described, the combination of a main float chamber adapted to be connected to a pump to be primed, an auxiliary float chamber connected to said main float chamber and having a suction line connection, a main valve for controlling said connection for said float chamber, a float in said main float chamber operatively associated with said main valve for closing the same when the main float is actuated, an auxiliary safety valve for controlling said suction line connection of said auxiliary chamber and a float in said auxiliary chamber operatively associated with said auxiliary safety valve to close the same when the float in said auxiliary chamber is actuated.

2,322,911

VALVE MECHANISM

Vilynn O. Beam, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application September 23, 1942, Serial No. 459,379
12 Claims. (Cl. 137—144)



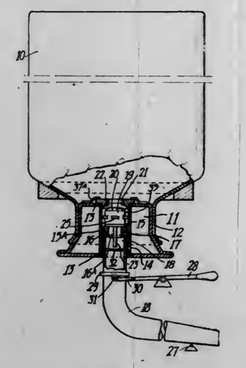
1. An electromagnet valve assembly comprising a valve casing having a plurality of openings for the passage of fluid therethrough, a plurality of valve seats all of which communicate with a first of said openings and each of which communicates with a different one of the other of said openings, a plurality of valve members, each cooperating with one of said valve seats, said housing having a chamber disposed between said valve members, electromagnetic operating mechanism for said valve members disposed in said chamber, said electromagnetic mechanism comprising electrical windings, and means for sealing said windings against the fluid passing through said valve casing.

2,322,912

SANITARY MEASURING DEVICE

David Berman, Brooklyn, N. Y.

Application February 25, 1942, Serial No. 432,183
3 Claims. (Cl. 221—67)



1. In a sanitary measuring device, in combination, a receptacle, a cover constituting a stopper removable from the receptacle and presenting a passage therein, valve seat members in said passage spaced to form a fluid measuring chamber, a valve slidably mounted in the chamber between the valve seat members and having a depending stem, one of the valve seat members constituting a guide, a pipe having an end slidably fitted in said guide, a perforated disk fixed in the pipe for engagement with the valve stem and means for moving the pipe to drop and raise the valve alternately, to respectively fill the chamber with fluid from the receptacle and discharge fluid from the chamber.

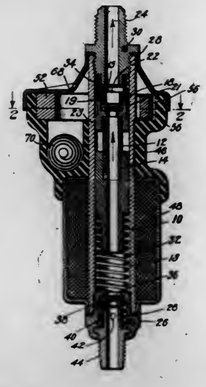
2,322,913

PUMP

Frank C. Best and Jack A. Lawler, Detroit, Mich.

Application April 22, 1939, Serial No. 269,348
8 Claims. (Cl. 103—53)

1. An electromagnetic fuel pump comprising a relatively long, non-ferrous and completely sealed and thin walled cylindrical tube, a pumping piston having iron portions and reciprocating in said tube, means to reciprocate said piston including a solenoid about said tube acting on certain of said iron portions, and means to control the periodic energization of said solenoid in accordance with piston position and including a compact generally U-shaped permanent magnet having its two inner pole forming ends on either side of and in contact with said tube walls, said magnet being within and adjacent one end of the piston's stroke so that flux between the magnet's poles is periodically shunted across said tube by certain of said piston's iron portions, a fixed contact and a movable contact connected in circuit with said solenoid, a generally semi-circular shaped iron armature of relatively large cross-sectional area to provide a low reluctance flux



path movably mounted to have its ends attracted toward said magnet's pole ends and carrying said movable contact, said generally U-shaped magnet and said generally semi-circular shaped armature together substantially and closely surrounding said tube, and spring means to move said armature away from said magnet.

2,322,914

MANUFACTURE OF MONONITRILES OF DICARBOXYLIC ACIDS

Burnard S. Biggs, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application November 22, 1940, Serial No. 366,721
13 Claims. (Cl. 260—464)

2. The process of producing a mononitrile of a dicarboxylic acid comprising heating alone a diamide of a dicarboxylic acid having its carboxyl groups separated by at least five atoms at a temperature between about 150° C. and about 350° C. until said diamide decomposes into a mixture of reaction products including a substantial proportion of the mononitrile of said dicarboxylic acid, and separating said mononitrile from said mixture of reaction products without heating said mononitrile as such sufficiently to decompose it.

2,322,915

MANUFACTURE OF OXALIC ACID

Maxwell J. Brooks, Beverly Hills, Calif., assignor to General Chemical Company, New York, N. Y., a corporation of New York

No Drawing. Application September 27, 1941, Serial No. 412,600
9 Claims. (Cl. 260—528)

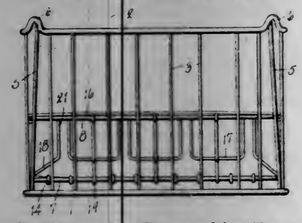
1. In the method for preparing oxalic acid by oxidation of carbohydrates with nitric acid in the presence of a vanadium catalyst, the improvement which comprises conducting the oxidation in the presence of at least about 0.1% ferric iron.

2,322,916
REFRIGERATOR LATCH OPERATING MECHANISM
William O. Burke, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a corporation of Delaware
Application May 9, 1942, Serial No. 442,294
4 Claims. (Cl. 292—122)



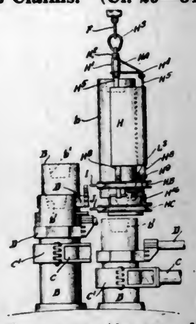
1. A refrigerator latch operating mechanism, comprising a supporting member adapted to be mounted on a door, a yoke swiveled on said member, a handle pivoted on said yoke, said handle being movable outwardly about said pivot and laterally about said swivel, an operating arm rigidly connected with said handle and provided at its inner end with a cross-head, a latch operating slide arranged in cooperative relation to said cross-head, and fixed pivot studs in proximity to the ends of said cross-heads about either of which said cross-head may pivot to actuate the slide upon lateral movement of said handle.

2,322,917
BOTTLE CRATE
Dewey H. Bitney, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich., a corporation of Michigan
Application June 3, 1940, Serial No. 338,569
9 Claims. (Cl. 220—19)



1. In a bottle crate, the combination of a wall unit comprising main top and bottom frame members and upright slats welded to the inner sides of said frame members, a combined bottom and partition unit comprising top and bottom border members, bottom slats disposed in spaced pairs and having looped ends engaged with and welded to opposite sides of said bottom border member, bottom slat supporting rods disposed transversely below said bottom slats and welded thereto at their crossing points and having looped ends engaged with and welded to opposed sides of said bottom border frame, top partition members disposed in crossed relation and welded at their crossing points and having looped ends engaged with and welded to said top border frame, and bottom partition members disposed below and in spaced relation to said top partition members and in crossed relation to each other and welded at their crossing points, said bottom partition members terminating in downwardly inclined end portions having looped ends engaged with and welded to said bottom border member, said bottom partition members also having upwardly offset loops, the bight portions of which are welded to the undersides of said top partition members, said loops constituting central vertical compartment side elements, said pairs of bottom slats being disposed below the compartments thus provided, said border members being diposed within and welded to vertical slats of said main wall unit with the bottom border frame spaced above the main bottom frame.

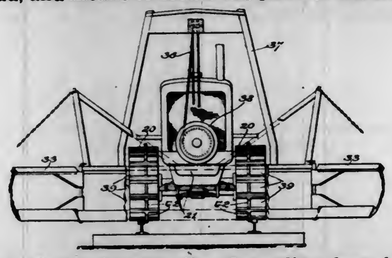
2,322,918
APPARATUS FOR TIGHTENING ELECTRODE JOINTS
Frank W. Brooke, Pittsburgh, Pa., assignor to Swindell-Dressler Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 27, 1940, Serial No. 342,657
3 Claims. (Cl. 29—84)



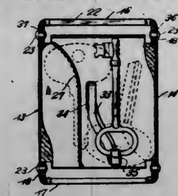
1. A device for connecting an electrode section to the upper and outer end of a furnace electrode having a tapered, internally threaded, axial socket at said end, said electrode section having at its lower end a tapered, externally threaded, axially disposed pin portion adapted to be threaded into said socket, said device comprising clamping means for engaging and gripping said electrode section and comprising suspension means including a nut portion coaxial with, and above an electrode section engaged and gripped by said clamping means and comprising a bolt threaded into said nut, said bolt and nut portion having a thread pitch finer than the thread pitch of said socket and pin, by such a predeterminable amount, that when said section and clamping element are suspended with said pin entered in said socket and the nut and bolt elements are rotated relative to one another to lower said pin into said socket, the pin thread surface may engage and slide along the thread surface of the socket, without transferring any substantial portion of the weight of said device and electrode section to the electrode.

2,322,919
CRAWLER TRACTOR
Murray E. Burns and George M. Bonnell, Boise, Idaho
Application February 24, 1941, Serial No. 380,256
24 Claims. (Cl. 105—215)

1. A caterpillar tractor, auxiliary shoes removably secured to the treadway of the tractor, each shoe consisting of a flat plate having an intermediate portion to engage the top of a rail, and a depending lug extending from one end of the intermediate portion to engage the side of a rail head, and means to secure the plate to the treadway of the tractor, the depending lugs being spaced apart, as viewed in the rail top engaging reach of the track, to define derailing gaps therebetween.



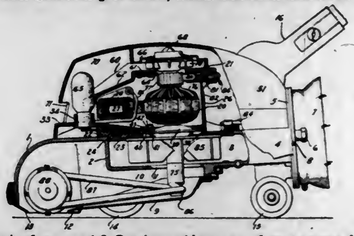
2,322,920
KEY HOLDER
Henry H. Campbell, Cleveland, Ohio
Application November 24, 1939, Serial No. 305,992
5 Claims. (Cl. 150—40)



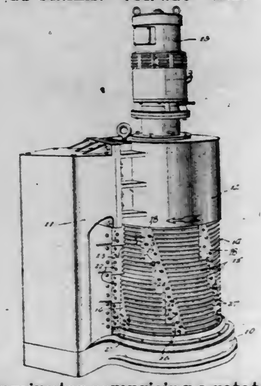
1. A key holder comprising a substantially flat container provided with a plurality of key receiving compartments having separate openings providing access to each of said compartments, the compartments being so arranged that the peripheral edges of the material forming said compartments and defining said openings terminate substantially in a common plane, resilient clamping means encompassing said container adjacent said openings and adapted to exert a force transversely with respect to said container whereby to embrace the walls of all of said compartments adjacent the openings thereof and to act upon all of said walls simultaneously normally to compress those portions thereof adjacent said openings into close abutting relationship closing said openings, said means being adapted upon application to force thereto and edgewise with respect to said container to permit movement of the peripheral edges of a selected one of said compartments out of abutting relationship for withdrawal of a key from such selected compartment while maintaining the walls of the other compartments in close relationship, the peripheral edges of the material forming said compartments being elastic and of sufficient rigidity to resist such edgewise pressure whereby the peripheral edges of the compartments not selected will cooperate with said means to maintain the openings to such other compartments closed.

2,322,921
SUCTION CLEANER
Vernon E. Carlson, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 26, 1939, Serial No. 252,886
2 Claims. (Cl. 15—16)

1. An electric motor adapted for use in a suction cleaner, and comprising a motor housing including a first and second section, said first section having motor supports therein, a field core seated on said motor supports, projections on said field core extending from the surface opposite said seated portion, said second section being mounted on said first section, and recesses in said second section receiving said core projections to align said motor housing sections and to distribute strains in said second motor housing section resulting from forces tending to displace said sections transversely.



2,322,922
COMMINUTOR
Corson W. Chase, Chicago, Ill., assignor to Chicago Pump Company, Chicago, Ill., a corporation of Illinois
Application February 26, 1940, Serial No. 320,865
14 Claims. (Cl. 210—152)

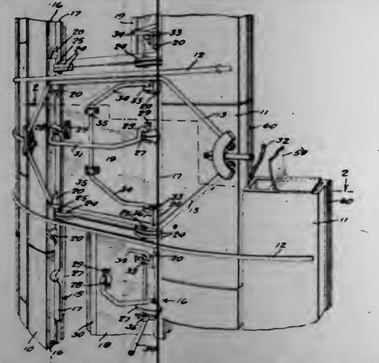


1. A comminutor comprising a rotatable screen, cutting teeth on said screen, and stationary cutting comb means adapted to cooperate with said teeth, said teeth being arranged in a plurality of separate series located in a generally oblique direction relative to the axis of rotation at a plurality of positions on said screen.

2,322,923
SILO DOOR AND SILO
Zur W. Craine, Norwich, N. Y.
Application August 3, 1940, Serial No. 350,877
4 Claims. (Cl. 20—1.4)

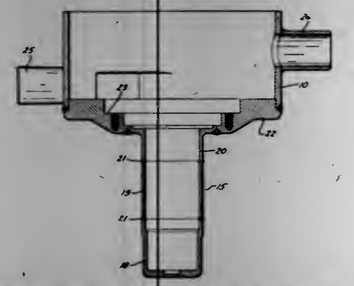
1. A silo door construction comprising a four-sided frame adapted to be inserted in a silo wall, lugs adjacent each corner to support a tie bar loop, a pair of the lugs providing hinge bearings, a door fitted to the frame, hinge means secured to the door and in the hinge bearings to swing the door, a locking lug carried upon two opposite sides of the frame, and a horizontal lock bar pivotally secured to the door and engaging the locking lugs to lock and clamp the door

against the frame, the lock bar being spaced from the door and serving as a ladder rung



when the door is closed and permitting a person to stand thereon to tightly lock the door.

2,322,924
METHOD OF MAKING MOTORS
George P. Daiger, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio
Application February 5, 1940, Serial No. 317,381
10 Claims. (Cl. 29—155.5)



4. The method of forming a shell for separating the rotor and stator of a hermetically sealed motor comprising, forming a cup-shaped member having a flared end of a given diameter and thickness, welding the flared end to an annular section of the same diameter and thickness, welding the free end of the annular section to a second annular section of the same diameter and thickness to form a unitary shell, machining the interior of the cup-shaped member to a predetermined diameter, machining the remainder of the interior of the shell to a diameter greater than that of the cup-shaped member and machining the exterior of the first annular section, whereby the first annular section is of reduced thickness relative to the other sections.

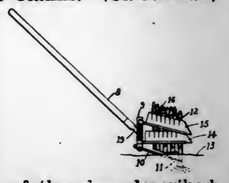
2,322,925
AZO COMPOUNDS AND MATERIAL COLORED THEREWITH
Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 11, 1941, Serial No. 422,541
15 Claims. (Cl. 260—154)

1. The azo compounds having the formula:

$$R{-}N{=}N{-}R_1$$

wherein R represents the residue of a member selected from the group consisting of an aryl nucleus of the benzene series, an aryl nucleus of the naphthalene series, a benzothiazole nucleus and a benzoxazole nucleus and R_1 represents the residue of a 1,2,3,4-tetrahydrocinnoline coupling component joined through the carbon atom in its 6-position to the azo bond.

2,322,926
ASPARAGUS CUTTER
Gordon L. Dorland, Ashton, Ill.
Application August 22, 1941, Serial No. 407,885
20 Claims. (Cl. 30—124)



1. A device of the class described, comprising an elongated handle, yieldable jaws mounted on one end thereof opening forwardly relative to the handle, and a knife mounted on the same end of the handle with the jaws below the latter so that it is adapted for cutting through an object after the same has been engaged between the jaws.

2,322,927
COLOR PRINTING
Pierre Drewsen and John R. Little, Sandusky, Ohio, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
No Drawing. Application September 2, 1938, Serial No. 228,212
2 Claims. (Cl. 106—152)

1. A coloring liquid comprising aqueous zein a rosinate, aniline dye, and sulphonated castor oil.

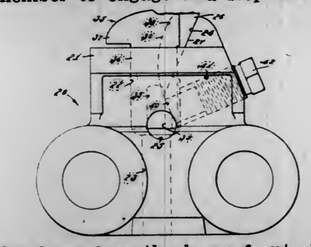
2,322,928
COLOR PRINTING METHOD
Pierre Drewsen and John R. Little, Sandusky, Ohio, assignors to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
No Drawing. Original application September 2, 1938, Serial No. 228,212. Divided and this application May 27, 1941, Serial No. 395,432
6 Claims. (Cl. 117—83)

1. In a method of coating a surface of cellulosic material, the steps comprising applying over the surface of the cellulosic material an aqueous dispersion of zein, containing a rosin soap and a coloring material, allowing the coating to dry, and then applying a superposed coating of zein and an acid in a mixture of alcohol and water to react with the previous coat and render it water-resistant.

2,322,929
MINING CHAIN BIT HOLDER AND BIT
Frank L. Fulke, Terre Haute, Ind., assignor to Frank Prox Company, Inc., Terre Haute, Ind., a corporation of Indiana
Continuation of application Serial No. 219,709, July 18, 1938. This application November 9, 1940, Serial No. 365,005
17 Claims. (Cl. 262—33)

13. In a coal cutting mechanism, an organization comprising a socketed member, a small plural pointed cutting tooth, a tooth supporting post with its inner end extending into the socket

of said member and its outer end projecting therefrom, said post having an open-sided bit-engaging seat recessed on its front face corresponding in contour with a rear surface only of said tooth and generally inclined inwardly and rearwardly and extending into said socket, a screw taking downwardly in said socketed member with its end face extending into the socket of said member to engage and step down upon a

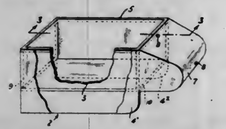


shoulder formed on the lower front side of the inner end of said post to thrust said post inwardly of said socket upon the line of its longitudinal axis, together with an immovable forwardly and outwardly inclined wedging surface formed on said socketed member at the front of the mouth of said socket, overlying said screw and engaging in a wedge lock manner the front face of said bit coincidental with said inward thrust of said post.

2,322,930
FILLER COMPOSITION
Harry F. Gardner, Snyder, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a corporation of Maryland
No Drawing. Application March 23, 1940, Serial No. 325,552
4 Claims. (Cl. 106—114)

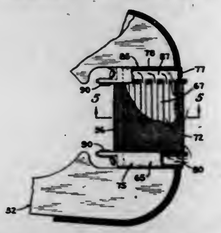
1. Cement for forming joints between the edges of adjacent wallboards comprising calcined gypsum in an amount not substantially less than 77.5%, a saccharide, a clay having a plasticity of not substantially less than two minutes, and a mineral fibre, the amount of the saccharide being substantially between 1% and 10%, the amount of the plastic clay being substantially between 2% and 15%, the amount of the mineral fibre being substantially between 2% and 15%, said percents being based on the dry weight of said four ingredients.

2,322,931
FOLDABLE BABY CARRIAGE
Louis Gottfried, Bronx, N. Y., assignor of one-half to Jakob Berger, New York, N. Y.
Application May 29, 1941, Serial No. 395,833
5 Claims. (Cl. 296—27)



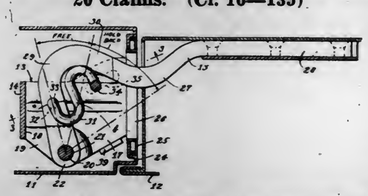
1. In a baby carriage, a carriage body, rigidly secured to and completely collapsible down to the chassis, having a ground plate, means for rigid fastening of said ground plate to said chassis, an upper frame and a foldable sheet connecting said ground plate with said upper frame, hinged walls, said walls serving as support for said upper frame in the upright position and as protection against the outside and being turned down in the collapsed position of the carriage body.

2,322,932
ELECTRIC MOTOR COOLING
Paul T. Hahn, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 14, 1939, Serial No. 309,197
8 Claims. (Cl. 172—36)



1. In a dynamo-electric machine having a field core and a winding thereon, means interposed between said core and adjacent winding defining air passageways therebetween to expose said winding and adjacent core, and manifold means defining an entrance and outlet to said passageways whereby air is distributed through the latter to cool the exposed winding and adjacent core.

2,322,933
AUTOMOBILE DOOR HINGE
Joseph F. Harmon and George H. Johnson, Rockford, Ill., assignors to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood
Application March 10, 1941, Serial No. 382,480
20 Claims. (Cl. 16—135)



2. In combination, a hinge comprising a pair of hinge members pivoted relative to one another for relative pivotal movement through approximately 90°, and a bow spring having one end pivoted to one of said hinge members radially from the hinge axis, the other end of said spring having a sliding and pivotal connection with the other hinge member at different radial distances from the hinge axis, said sliding and pivotal connection including means for limiting sliding movement of the slidable end of the bow spring radially with respect to the hinge axis so that unconstrained pivotal movement of said hinge members is permitted only through a portion of the 90° pivotal movement, said bow spring being subjected upon stoppage of the slidable end thereof by the aforesaid means to compression in the movement of one hinge member relative to the other through a portion of the remainder of the 90° pivotal movement, said spring expanding again in at least a portion of the balance of the 90° pivotal movement.

2,322,934
TACKLESS ROLLER SHADE ASSEMBLY
William Morse Hicks, Cincinnati, Ohio
Application June 20, 1941, Serial No. 398,993
14 Claims. (Cl. 160—387)

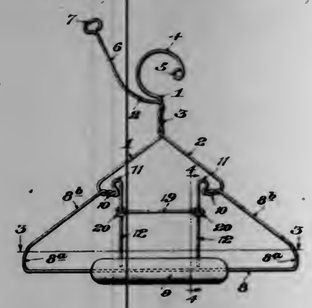
2. In a structure of the class described, the

combination which comprises a shade roller and a shade web hem adapted to receive the roller, and expansible means operative upon axial move-



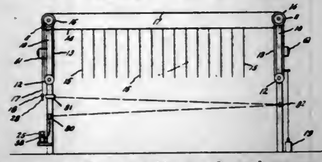
ment of the roller through the hem, to frictionally maintain a substantially non-slipping relationship of the roller to the hem.

2,322,935
COAT AND TROUSERS HANGER
George A. Higgins, Jr., Huntington, Ind.
Application February 4, 1942, Serial No. 429,537
8 Claims. (Cl. 223—91)



1. A hanger, comprising an open frame formed of relatively stiff wire or the like, and having a hook; the opposite sides of the frame being formed of upper and lower substantially aligned wire sections respectively overlapping at their adjacent ends, said overlapping portions of the upper and lower wires at each side of the frame being secured together and bent to form opposed inwardly extending portions; said inwardly extending portions being bent to form opposed upwardly extending loops beyond the inwardly extending portions in which loops the pair of wires are parallel and are disposed closely adjacent; the respective loops having narrow entrances at their lower portions; the wires beyond the loops extending downwardly to form pairs of vertical wire sections; a pair of clamping bars supported respectively adjacent their ends by the pairs of vertical wire sections; and a clamping member having eyes at its ends embracing the respective pairs of vertical wire sections; said eyes being adapted to enter the narrow entrances of the loops and to be yieldably confined within the opposed loops when the clamping member is raised.

2,322,936
STARTING BARRIER
Robert M. Hite, Indianapolis, Ind.
Application January 27, 1941, Serial No. 376,157
11 Claims. (Cl. 119—15.5)



1. A device for starting a horse race, comprising a barrier, sound-reproducing mechanism adapted to reproduce successively a predetermined number of audible warning signals, and means for opening said barrier, said means operating automatically in timed relation with said sound reproducing mechanism to open said barrier after a predetermined number of warning signals have been reproduced.

2,322,937
CONDUIT CONSTRUCTION
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application November 27, 1941, Serial No. 420,715
3 Claims. (Cl. 138—53)

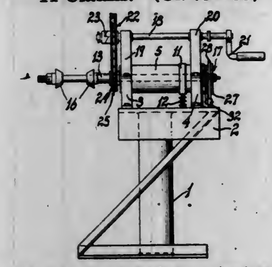


3. Conduit means for carrying temperature conditioned air including a pair of collapsible tubes one of which is positioned within the other, said one tube having the opposite ends thereof open for the flow of air therethrough and said other tube having one end thereof in sealed engagement about the periphery of said one tube at an end thereof, apertured means connecting the opposite corresponding ends of said two tubes, and means for connecting said conduit means at said opposite corresponding ends of said two tubes to a source of conditioned air so that the air from said source enters apertures of said apertured means and said one tube for inflating said tubes and being the sole means for supporting the same in concentric relation, with the air entering said other tube through said apertured means being retained between said two tubes and providing a thermally insulating air-filled pocket about said one tube, said two tubes being deflatable so as to lie in a substantially flat form adapted for overlapping folding into a compact bundle.

2,322,938
STABILIZATION OF SUPERPOLYMERS
John B. Howard, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 8, 1939, Serial No. 293,949
7 Claims. (Cl. 260—75)

1. A linear polyester the condensation linkages of which consist essentially of ester linkages, said polyester having hydroxyl groups on a substantial proportion of the ends of its molecules, and having a molecular weight sufficiently high that it tends to undergo molecular degradation when maintained in contact with the atmosphere at elevated temperatures, said polyester containing a small proportion of a non-alkaline anti-oxidant substance.

2,322,939
VEHICLE WHEEL BALANCE TESTER
Ulysses A. Inman, Long Beach, Calif.
Application March 21, 1939, Serial No. 263,134
11 Claims. (Cl. 73—53)

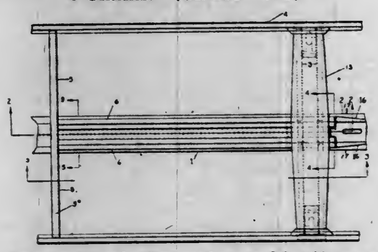


1. A vehicle wheel balance tester comprising a sleeve, a pair of brackets in which said sleeve is mounted, yieldable means arranged between the sleeve and said brackets whereby the sleeve is free to vibrate, a mandrel journaled within the sleeve, wheel mounting means on one end of the mandrel, a disk mounted on the other end of the mandrel, said disk being of light material so that no appreciable counterbalancing effect is produced, said disk being shiftable transversely of the center line of the mandrel, and means engageable with said disk to shift said disk transversely of the center line of the mandrel while said mandrel is rotating, said disk being shiftable to a position concentric with the center of rotation of the mandrel.

2,322,940
SOURING MATERIAL
George William Kirby, Yonkers, Marvin Helmar Rasmusson, Brooklyn, and Stanley Adolphus McHugh, Bronx, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application March 12, 1940, Serial No. 323,532
10 Claims. (Cl. 99—91)

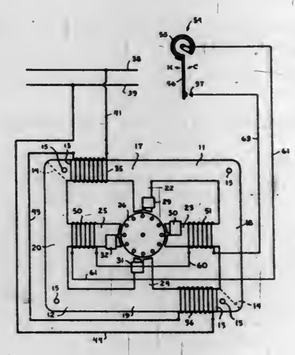
10. As a composition of matter a dry souring material comprising acid-forming bacteria substantially free from metabolic products and a flour belonging to the group consisting of cereal and legume flours, said souring material having a moisture content not greater than 6%.

2,322,941
CAR CONSTRUCTION
Felix Koch, Bellevue, and Stephen H. Badgett, Ben Avon, Pa., assignors to Pressed Steel Car Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application June 21, 1941, Serial No. 399,098
6 Claims. (Cl. 105—416)



1. In a car underframe in combination, a center sill terminating inwardly of each end of the underframe, an end and draft casting secured to each end of and forming continuations of the center sill and having portions projecting above the center sill; a bolster member extending across the underframe inwardly of each end of the center sill; center sill reinforcing members secured to the top face of the center sill at each end thereof, said reinforcement members forming abutments for the end casting projecting portions and terminating between the bolsters.

2,322,942
TRANSFORMER MOTOR
Frederick E. Lange, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 19, 1940, Serial No. 330,543
8 Claims. (Cl. 172—278)

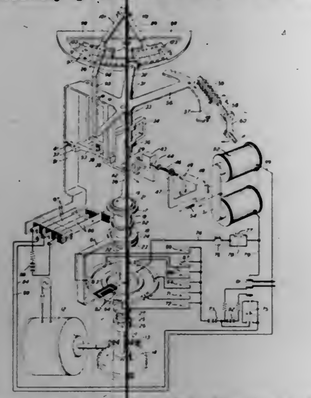


3. A motor for operation by periodically varying current comprising a rotatable armature, a core construction comprising two sets of polar extremities adjacent said armature providing two flux paths through said armature, the polar extensions of one of said sets being of smaller cross section than those of the other set so that the two flux paths have different values of reluctance, a pole shading winding on each of the polar extensions to shade the flux flowing through a portion thereof, the shading windings on one set of polar extensions being oppositely disposed to those on the other set, a constantly energized field winding on said core construction, and electrical means for causing a portion of the flux normally flowing in the low reluctance flux path to flow through the high reluctance flux path.

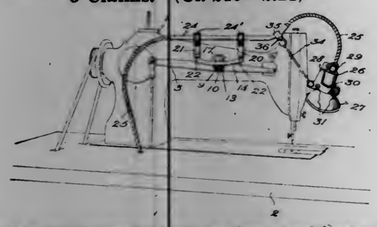
2,322,943
TELEGRAPH SIGNAL MEASURING APPARATUS
Wilmarth Y. Lang, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 22, 1941, Serial No. 407,845
12 Claims. (Cl. 178—69)

1. In a telegraph signal measuring set, a signal responsive line relay, a start-stop receiving distributor associated with said relay including a brush arm having variable stop positions, means for varying said stop positions to cause said brush arm to occupy predetermined instantaneous positions at signal responsive transits of said relay,

means for indicating visually said stop positions, and a variably positionable scale for identifying various positions of said indicating means as zero reference points.



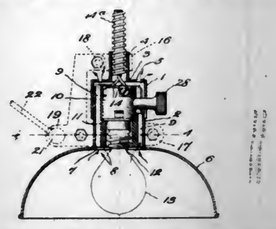
2,322,944
LIGHTING FIXTURE FOR SEWING MACHINES
Albert Liabastre, Manhasset, N. Y.
Application March 6, 1942, Serial No. 433,558
3 Claims. (Cl. 240—2.14)



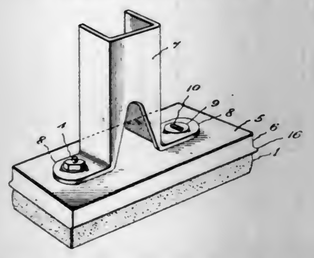
1. A lighting fixture for sewing machines; comprising a stud bolt threaded to screw into a tapped hole in a sewing machine head, a bracket mounted on said bolt for pivotal adjustment coaxially thereof, a yoke supported on the bracket for pivotal adjustment on an axis normal to the axis of the bolt, resilient posts secured to the yoke and extending in substantially parallel spaced apart relation, said posts being provided near their free ends with alined openings, a tubular arm passing through said openings, straps embracing the free ends of the posts and secured to said posts to reinforce the walls of the openings therein and bind the posts firmly to the tubular arm, a lamp housing and reflector, a stay link having a universal joint connection with the lamp housing and reflector and with the tubular arm, and a lighting cable passing through the tubular arm to the lamp housing.

2,322,945
VENTILATED LAMP HOUSING
Albert Liabastre, Great Neck, N. Y.
Application March 28, 1942, Serial No. 436,226
4 Claims. (Cl. 240—47)

1. A lamp housing comprising a shell open at its bottom and having in its top wall a series of ventilating openings, an insulated spacer fitted into the shell and extending for substantially the full length thereof, said insulating spacer being provided with longitudinal passages extending for the full length of the spacer to provide in conjunction with the alined openings in the top of the shell a plurality of unobstructed straight-through flues extending longitudinally through the shell, a lamp socket core fitted into the interior of the spacer and provided therein at its lower end with a socket to receive a threaded base of an incandescent lamp, and a lamp shade carried by the lower end of the shell, whereby heat may escape from the interior of the shade in an entirely upward direction by way of said straight-through flues and out of the top of the shell.



2,322,946
SEWING MACHINE SUPPORT
Albert Liabastre, Great Neck, N. Y.
Application May 2, 1942, Serial No. 441,560
2 Claims. (Cl. 248—24)



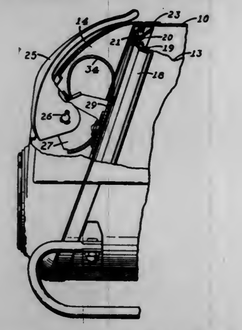
1. A support for a sewing machine table comprising a rigid metal plate secured to and underlying the lower end of the leg of the table with the leg of the table arranged centrally of the plate, said plate having at its outer margin a depending skirt the upper portion of which is substantially normal to the plate and the lower free edge portion of which skirt is outwardly flared in a curve merging into the superimposed portion of said skirt, and a relatively soft slab of rubber positioned wholly beneath the plate with the upper portion of the slab embraced by said skirt and the lower portion of the slab being unconfined to permit lateral expansion thereof.

2,322,947
PIN AND SOCKET CONNECTION
Max Litwin and Bertram Milner, Cincinnati, and Joseph Ellert, St. Bernard, Ohio, assignors to Litwin & Sons, Cincinnati, Ohio, a partnership composed of Akim Litwin, Jacob Litwin, Boris Litwin, and Max Litwin
Application May 7, 1942, Serial No. 442,064
2 Claims. (Cl. 287—126)

1. In combination a pin and a socket, the socket including a pair of inwardly bent resilient tangs formed from the outer surface thereof; said tangs being adjacent one another on the surface of the socket but being bent inwardly at opposed ends whereby the inwardly extending points of the tangs will be spaced apart the length of the tangs; said inwardly extending points being substantially equidistant from the inner surface of the socket.

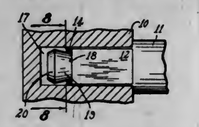


2,322,948
VACUUM CLEANER
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application January 23, 1941, Serial No. 375,609
5 Claims. (Cl. 183—73)



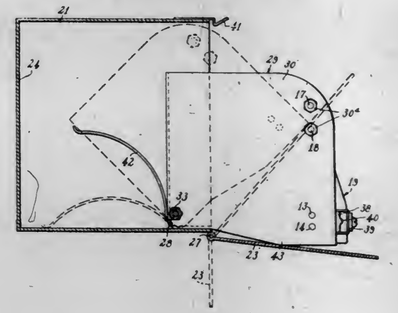
5. A vacuum cleaner including a casing having an opening, a ring secured to said casing at one end forming a seat adjacent said opening, a dust bag adapted to be inserted through the opening of said casing, a dust bag ring secured to said dust bag and having a flange overlying the seat of said ring secured to said casing, a gasket secured to said flange and resting on the seat of said ring, a removable cover for the opening of said casing engaging said gasket, a locking mechanism for said cover engaging said casing and compressing said gasket to seal the opening of the casing and the friction produced by the compression of said gasket serving to hold said locking mechanism in a locking position, and spring means biasing said locking mechanism to a retracted position.

2,322,949
SPINDLE AND KNOB CONSTRUCTION
Frederick Lux, Waterbury, Conn., assignor to The Lux Clock Mfg. Company, Inc., Waterbury, Conn., a corporation of Connecticut
Application May 22, 1941, Serial No. 394,647
1 Claim. (Cl. 287—53)



A spindle and knob construction comprising a rotatable shaft having a reduced end portion providing a shoulder between such portion and the body of the shaft, said portion having at least one flattened side so as to be non-circular in cross section, and said portion having a shoulder at its free end and an outwardly tapered portion beyond said shoulder forming a recess with said shoulder, a split ring disposed in said recess surrounding the tapered portion of the shaft, a knob member abutting the first-named shoulder on the shaft and having a non-circular socket receiving therein the reduced end portion of the shaft whereby the ring frictionally engages the wall of the socket, and said tapered end portion of the shaft exerting a wedging action to force the ring tightly against the socket wall when the parts are moved in the direction of separation.

2,322,950
ADHESIVE TAPE DISPENSING DEVICE
Paul S. Madsen, Bethany, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Original application October 9, 1940, Serial No. 360,397. Divided and this application April 10, 1941, Serial No. 387,877
1 Claim. (Cl. 242—55.5)

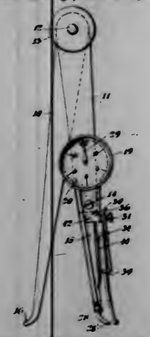


In a dispensing device for adhesive tape, a frame having a back wall and end walls but open at the front, a shaft removably supported in position between said end walls, a plurality of wound rolls of tape arranged on said shaft side by side, a guideway mounted on said end walls substantially parallel to said shaft having elongated members slightly spaced apart to which the ends of the adhesive tape are adapted to be secured by means of their adhesive material, a cutter guided along and extending into said guideway and adapted to cut tape from said rolls, and a box-like casing in which said frame is mounted so that it can be moved to two distinct positions, one of said positions being a stored-away position and the other being a forwardly projecting position of the frame in which the ends of tape are exposed at the front of the device in pendant relation with the guideway behind the tape ends and a manipulating portion of the cutter at the front of the guideway.

2,322,951
UNIVERSAL MEASURING INDICATOR
Anton Menzer, Brooklyn, N. Y.
Application December 30, 1941, Serial No. 424,853
4 Claims. (Cl. 33—178)

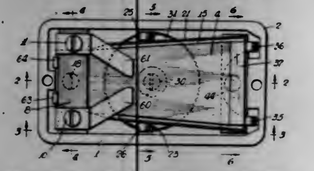
1. A caliper as described comprising a substantially long and a short leg pivoted to each other, an auxiliary member pivotally secured to said shorter leg, shorter legs laterally attached to said member, means to spread said shorter legs

to conform them to the outer and inner dimensions of a tubular body, means to lock the parts



in their respective positions, and a means to automatically indicate the measurements.

2,322,952
HEARING AID DEVICE
Emmanuel Christ Nicholides, Bronx, N. Y., assignor to Aurex Corporation, Chicago, Ill., a corporation of Illinois
Application July 11, 1940, Serial No. 344,853
8 Claims. (Cl. 179—107)



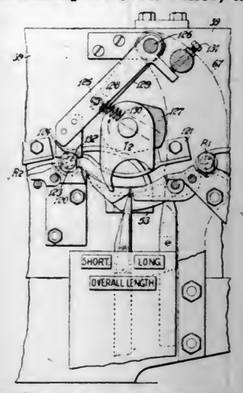
8. In a hearing aid device, a base, a tapered piezo-electric crystal, means for clamping the narrow end of said crystal to said base, a button extending through said base and adapted to carry a load, and means for connecting the free end of said crystal and said button.

2,322,953
COATED FABRIC
Franklin T. Peters, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 21, 1941, Serial No. 379,949
6 Claims. (Cl. 117—86)

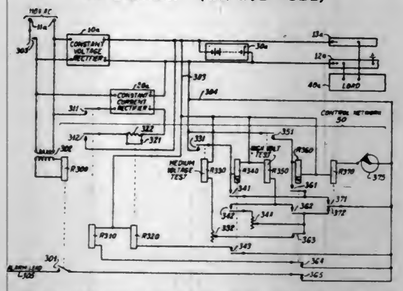
1. A coated fabric comprising a base fabric having firmly anchored thereto a thin polyamide coating weighing .4 to 1.5 ounces per square yard, a continuous cellulose derivative coating weighing more than 1.5 ounces per square yard firmly anchored to said polyamide coating, and said coated fabric being characterized by the improved bond of the composite coating to said base fabric.

2,322,954
GAUGING APPARATUS
George Frederick Pembroke, Deptford, London, England, assignor to Molins Machine Company Limited, Deptford, London, England
Application March 26, 1942, Serial No. 436,368
In Great Britain March 18, 1941
3 Claims. (Cl. 33—174)

1. Apparatus for gauging articles which have external tapering surfaces comprising separable members having concave tapering seating surfaces adapted to engage the convex tapering surface of an interposed article, means for moving said members relatively to each other to permit an article to be gauged to be placed therebetween prior to, and removed after, gauging, and to cause said members to assume predetermined gauging relationship to each other, and an element for exerting pressure upon an article, when said members are in gauging relationship to cause the tapered portion thereof to closely engage the tapering seating surfaces of said members, said element being adapted to be connected to a suitable mechanism for indicating the extent of its movement.



2,322,955
CURRENT SUPPLY SYSTEM
William H. Perkins, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 11, 1941, Serial No. 374,058
22 Claims. (Cl. 171—314)

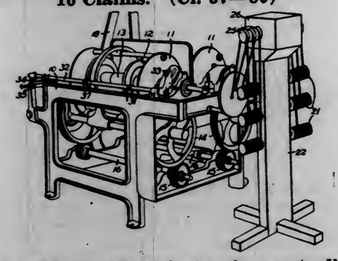


1. In a system for supplying direct current to a load from an alternating current source, a first rectifier operative to deliver current to said load at a substantially constant voltage, a normally inactive second rectifier operative to deliver a substantially constant current to said load, and load current responsive means for automatically rendering said second rectifier operative to deliver current to said load when the load current rises to a predetermined value.

19. In a system for charging a battery, voltage responsive testing means operative to test the voltage of said battery, means for intermittently connecting said testing means to said battery for periods which are substantially less than the periods when the testing means is disconnected from said battery, means controlled by said testing means for delivering a charging current to said battery when the voltage of said battery falls

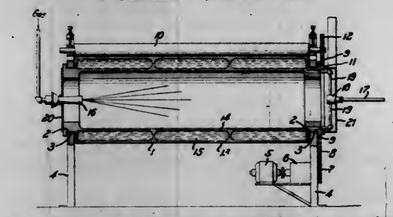
to a predetermined value, means controlled by said testing means for reducing the charging rate when the voltage of said battery attains a predetermined higher value, and means for substantially terminating the charge when the voltage of said battery rises from said predetermined higher value to a still higher predetermined value.

2,322,956
YARN CONTROL DEVICE
Edwin M. Schantz, Xenia, Ohio, assignor to The Hooven & Allison Company, Xenia, Ohio, a corporation of Ohio
Application December 29, 1941, Serial No. 424,759
16 Claims. (Cl. 57—80)



1. A speed sensitive device for controlling an electric circuit comprising an axle, means on said axle electrically insulated therefrom and freely rotatable thereon, said axle and said means forming part of an electric conducting circuit, and means responsive to the speed of said rotatable means for engaging said axle for completing electric circuit between said axle and said rotatable means when said rotatable means is stopping.

2,322,957
DIRECT FIRED SINGLE TUBE FLATWORK IRONER AND DRIER
Timothy J. Sullivan, Butte, Mont., assignor, by mesne assignments, to Red & White Laundry & Cleaning Company, Butte, Mont., a corporation of Montana
Application October 3, 1941, Serial No. 413,561
3 Claims. (Cl. 38—65)



1. A flat work ironer comprising two rotatable drums and associated rolls adapted to iron flat work on both sides, each of said drums enclosing a chamber, the chamber in at least one of said drums being annular and enclosing a central flue, means for supplying heating gases to said flue, heat transfer liquid filling said chambers, and means for passing liquid from one of said chambers to the other.

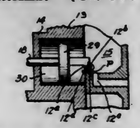
2,322,958
PRODUCTION OF HYDROXYLAMMONIUM SULPHATE
Philip F. Tryon, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
Application June 6, 1941, Serial No. 396,801
3 Claims. (Cl. 23—117)

1. In a process for the production of hydroxylammonium sulphate, the step which comprises introducing hydroxylammonium acid sulphate into an aqueous methanol solution, wherein the water content of the resulting mixture represents from about 4.3 to 15.5 per cent by weight of said mixture, and separating the resulting crystalline hydroxylammonium sulphate.

2,322,959
TANNING
Herbert J. West, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 25, 1941, Serial No. 416,493
8 Claims. (Cl. 149—5)

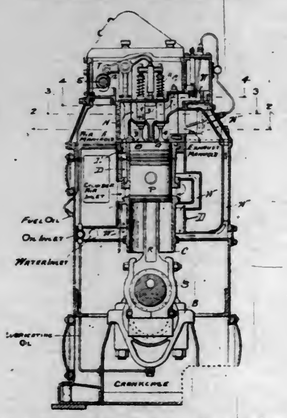
1. In the tanning of hides to make leather, the steps which comprise impregnating the hide with an aqueous solution of a diether of a monohydric aliphatic alcohol and dimethylol urea and acidifying the hide to resinify the ether contained therein.

2,322,960
AUTOMATICALLY CLOSING PRESSURE RELEASE VALVE
Russell W. Wright, Sioux City, Iowa
Application July 13, 1942, Serial No. 450,710
2 Claims. (Cl. 303—80)



1. An automatic pressure release mechanism comprising a casing, an inlet port, an outlet port, a primary valve in operating relation to said inlet port, a secondary valve in operating relation to said outlet port, engaging means for holding said primary valve when said valve is in open position, means actuated by the retraction of said secondary valve in response to predetermined pressure in said casing for releasing said engaging means, and means actuated by said secondary valve for closing said outlet port before releasing said engaging means.

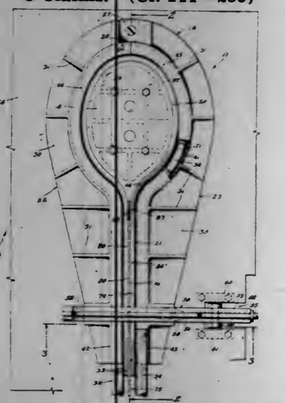
2,322,961
TWO-CYCLE ENGINE
Frank B. Yingling, Hamilton, Ohio
Application November 5, 1941, Serial No. 417,948
15 Claims. (Cl. 123—65)



10. In a two-cycle internal combustion en-

gine, the combination with a hollow header forming an interior cooling chamber for circulating water, said header having a group of exhaust ports in its lower face and control valves therefor, of interior integral partitions and walls within the cooling chamber forming an annular series of separate and independent cells and flues one for each port and each connected with said header whereby each cell and flue is separately cooled, and an exhaust manifold with which said flues communicate.

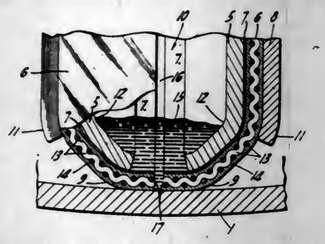
2,322,962
LAMINATED ARTICLE
John B. Dickson, Northampton, and Lloyd E. Burns, Springfield, Mass., assignors to A. G. Spalding & Bros. Inc., Chicopee, Mass., a corporation of Delaware
Application December 23, 1939, Serial No. 310,774
3 Claims. (Cl. 144—259)



1. In an apparatus for making an article, the combination of a supporting structure, an inner forming member secured thereto, outer forming members positioned on either side of said inner forming member and pivotally secured to said supporting structure for movement into and out of cooperative association with said inner forming member, a clamping unit including means for engaging the outer sides of the outer forming members for retaining said outer forming members in operative position with reference to said inner forming member, a mounting pivotally attached to one edge of said supporting structure and having a pivotal and slidable connection with said clamping unit, whereby said clamping unit may be moved from operative clamping position to a position permitting the outer forming members to be moved out of operative association with said inner forming member.

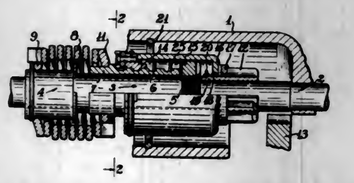
2,322,963
WINDSHIELD CLEANER MOTOR
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application April 2, 1941, Serial No. 386,505
4 Claims. (Cl. 309—22)

1. A piston for the suction operated motors of windshield cleaners, comprising companion sections embracing a motor shaft therebetween, each section embodying a cup packing member with its marginal packing flanges arranged in proximity to the flanges of the companion section, said cup members defining a compartment in the piston for the reception of a quantity of lubricant, the lubricant adapted to pass out onto the chamber walls across the opposed edges of the marginal packing flanges, said cup packing members being of a material resistant to the lubricant,



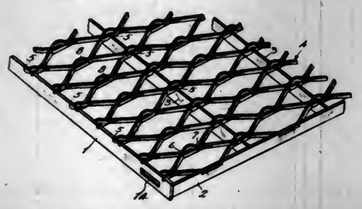
whereby the escape of the lubricant from the compartment is confined solely to the space separating the edges.

2,322,964
ENGINE STARTER GEARING
Daniel P. Kearney, Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 13, 1942, Serial No. 434,522
4 Claims. (Cl. 74—7)



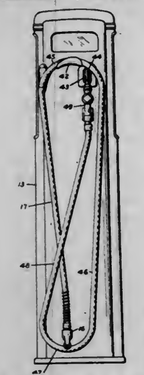
1. In an engine starter a housing, a power shaft journalled therein, a screw shaft driven from the power shaft, a nut on the screw shaft, a pinion slidably journalled on the power shaft, means including an overrunning connection for traversing and rotating the pinion from the nut, said housing having an abutment, and a centrifugal latch mounted to rotate with the nut engageable with said abutment for preventing traversal of the nut.

2,322,965
TREAD CONSTRUCTION
William M. McNeil, Wheaton, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application July 23, 1941, Serial No. 403,741
9 Claims. (Cl. 189—34)



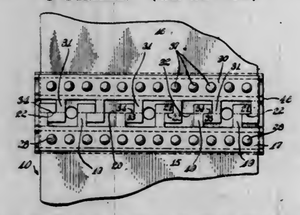
1. An anti-skid tread construction comprising an expanded metal sheet having inclined bonds, said bonds having sharp line upper edges, a portion of some of said bonds being laterally and downwardly formed to present an undulating sharp line tread surface.

2,322,966
LIQUID DISPENSER
Chester C. Oberly, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana
Application January 11, 1939, Serial No. 250,388
9 Claims. (Cl. 221—95)



1. In a liquid dispensing device, the combination of a housing having angularly disposed, upstanding walls, means forming a dispensing line through which liquid is adapted to be forced and including a flexible hose disposed permanently exteriorly of said housing, and a bracket swingably mounted on the exterior of said housing about a vertical axis located substantially at the junction of two adjacent angularly disposed walls, said bracket having a saddle adapted to receive a length of hose for suspending said hose therefrom.

2,322,967
BELT SPLICE
William R. Perry, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application July 13, 1942, Serial No. 450,812
8 Claims. (Cl. 24—31)

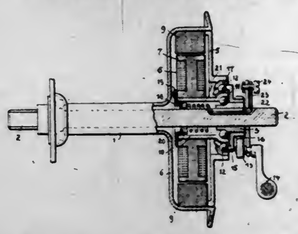


1. The combination with a belt band, of a splice flexible about an axis extending transversely of said band for securing together the ends of said band comprising a first series of fingers secured to one end of said band and projecting longitudinally therebeyond, a second series of fingers secured to the other end of said band and projecting longitudinally therebeyond, the fingers of said first series being provided with terminal portions projecting transversely in one direction to provide a series of transversely spaced surfaces lying in a common plane extending transversely of said band and facing the associated band end, the fingers of said second series being staggered with respect to the fingers of said first series and being provided with terminal portions projecting transversely in the opposite direction to provide a series of transversely spaced surfaces lying in a common plane extending transversely of said band and facing the associated band end, said transversely spaced surfaces of the fingers of said first series being engaged with the transversely spaced surfaces of the fingers of said second series in a single plane extending transversely of said band to establish a pull-transmitting connection between said band ends, and means engaging said fingers at points spaced oppositely from the extremities of said band to hold the same against disengagement of said fingers but permitting relative rocking of the fingers of said two series about an axis located in said plane.

2,322,968
DYEING PANAMA HATS
George M. Rickus, William L. Braun, and Stanley G. Hoffman, Norwalk, Conn., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
No Drawing. Application May 4, 1940, Serial No. 333,424
7 Claims. (Cl. 8—3)

1. The process of dyeing slightly bruised sulfur-free Panama hats comprising the steps of: preparing a dyeing solution containing water, an emulsifying agent, at least one dyestuff chosen from the class consisting of acetate dyestuffs, and oil or spirit soluble dyestuffs, and at least one dyestuff chosen from the class consisting of direct dyestuffs, and neutral dyeing acid dyestuffs; penetratingly wetting out the Panama hats; and placing the wetted fibers in the dyeing solution.

2,322,969
HUB-OPERATED DYNAMO FOR BICYCLES
Alfred Rabl, Wiener-Neudorf, Germany; vested in the Alien Property Custodian
Application January 30, 1940, Serial No. 316,438
In Germany February 10, 1939
1 Claim. (Cl. 74—281)

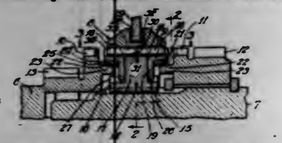


A gear drive for dynamos carried by bicycles of the type including a wheel hub, comprising a sleeve carrying a dynamo element, a ball bearing between the sleeve and hub, a ball gear for driving the sleeve, said ball gear including a ball-carrying cage having an externally-toothed extension surrounding the hub, and manually-operable means to cooperate with the teeth of the extension to selectively fix or free the ball gear relative to the hub, the balls of the bearing and the balls of the ball gear being in a vertical plane transverse the wheel hub.

2,322,970
TRANSMISSION SYNCHRONIZER
Henry H. Robbins, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 14, 1938, Serial No. 195,740
21 Claims. (Cl. 192—53)

1. In a synchronizing transmission, a pair of

coaxial torque-transmitting members, a movable jaw clutch element carried by one of said members and adapted to be moved axially into engagement with a jaw clutch element carried by the other member thus to establish a positive drive connection between said members, a synchronizer element driven by said one member and adapted to be moved axially into frictional driving engagement with a friction clutch element carried by said other member so as to effect



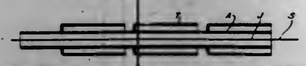
synchronization of said members, and an annular thrust member of spring material arranged coaxially with said torque-transmitting members, having an axial thrust transmitting connection with said synchronizer element and being biased under compression in radially outwardly directed yielding engagement with the interior of said movable clutch element, whereby to transmit axial movement from said movable clutch element to said synchronizer element.

2,322,971

SHIELDED ANTENNA FEEDER LEAD OR LINE

Hans Otto Roosenstein, Berlin, Germany; vested in the Alien Property Custodian

Application December 21, 1940, Serial No. 371,089
In Germany April 11, 1939
2 Claims. (Cl. 178—44)



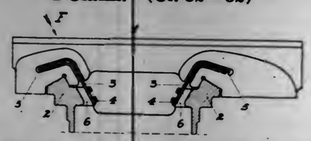
1. A flexible radio frequency air insulated coaxial cable comprising an inner conductor, a first insulating sheath surrounding said inner conductor, an outer tubular conductor, a second insulation sheath surrounding said outer conductor, and a plurality of tubular metallic members located outside of said insulation sheath surrounding said outer conductor, each tubular metallic member being so dimensioned as to suppress outer surface waves and being spaced apart from one another also connected at one end thereof to said outer tubular conductor.

2,322,972

DEVICE FOR THE PROTECTION OF THE GUIDING SURFACES OF THE SLIDES OF MACHINE TOOLS

Martin Henri Rumpf, Uccle-Brussels, Belgium; vested in the Alien Property Custodian

Application March 8, 1941, Serial No. 382,396
In Belgium March 11, 1940
1 Claim. (Cl. 82—32)



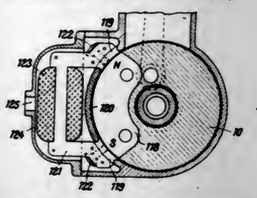
In a machine tool having a bed, parallel guide surfaces forming part of said bed, and a carriage to travel on said guide surfaces, the combination of a plurality of spaced inwardly projecting bosses provided on said bed parallel to and below the inner edge of each of said guide surfaces, and, for each guide surface, a protective cover plate of a length equal to that of the guide surface, each plate having its lower edge secured to the bosses provided below the inner edge of the corresponding guide surface and extending upwardly and outwardly into a curved slot provided in said carriage, the outer edge of each cover plate being disposed outwardly of the outer edge of the corresponding guide surface.

2,322,973

MAGNETO

Hugo Ruppe, Berlin, Germany; vested in the Alien Property Custodian

Application November 7, 1939, Serial No. 303,320
In Germany June 21, 1939
3 Claims. (Cl. 171—209)



1. In an auxiliary engine of the type described, a flywheel, a permanent magnet mounted on said flywheel, a casing surrounding said flywheel, spaced soft iron inserts imbedded in and extending through a wall of said casing adjacent said flywheel, an induction coil having a core mounted externally of said casing, and means for maintaining the respective ends of said core in contact with said soft iron inserts.

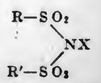
2,322,974

AMINO ARYL SULPHONAMIDES

Arnold Salomon, Oss, Netherlands; vested in the Alien Property Custodian

No Drawing. Application December 22, 1939, Serial No. 310,629. In the Netherlands August 6, 1937
7 Claims. (Cl. 260—397.7)

1. Disulphonamides having the following formula:



in which R is an aminoaryl radical, R' is a mononuclear aryl radical and X is a member of the group consisting of hydrogen, a metal, an alkyl radical and an aryl radical.

2,322,975

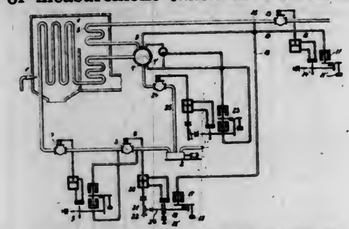
MEANS FOR CONTROLLING THE OPERATION OF VAPOR GENERATORS

Carl Schroeder, Berlin, Germany; vested in the Alien Property Custodian

Application March 22, 1939, Serial No. 263,494
In Germany March 22, 1938
3 Claims. (Cl. 122—451.2)

1. Apparatus for automatically controlling the operation of a vapor generator having a fluid passage receiving liquid at one end and delivering superheated vapor at the other end and heated by elements of combustion comprising, in combination, a drum inserted in the zone of evaporation of said passage, means responsive to the pressure in said drum, a valve inserted in the vapor part of said passage and connected to be controlled by said pressure responsive means

for maintaining a constant pressure in said drum, impulse means responsive to the pressure difference between the pressure to be maintained constant in said drum and the pressure at a point of measurement taken at the end of the



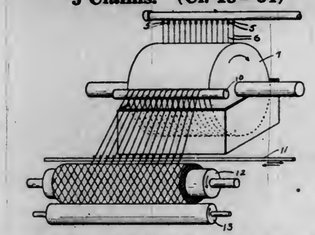
superheated vapor part of said passage, liquid supply control means connected to be actuated by said impulse means for varying the liquid inflow in response to the generator load variations.

2,322,976

METHOD OF PRODUCING THIN THREADS FROM POLYVINYL ALCOHOL AND ITS WATER-SOLUBLE DERIVATIVES

Hilger Peter Schmitz, Munich, Germany; vested in the Alien Property Custodian

Application October 18, 1940, Serial No. 361,796
In Germany November 3, 1939
5 Claims. (Cl. 18—54)



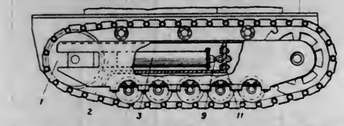
1. The method of producing thin threads of polyvinyl alcohol which comprises casting a dilute aqueous solution, containing of the order of 5% of polyvinyl alcohol through a nozzle, in the form of a thread, upon a rotating drum, solidifying said thread on said drum, and drawing the solidified thread from the drum.

2,322,977

GUIDE ROLLER SUPPORT

Alfred Schröder and Otto Falk, Breslau, Germany; vested in the Alien Property Custodian

Application December 6, 1940, Serial No. 368,872
In Germany June 24, 1939
1 Claim. (Cl. 305—9)



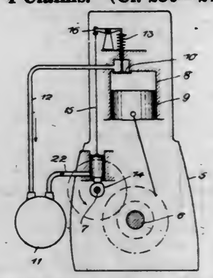
In track chain vehicles, in combination with a track chain, and a guide roller for said track chain; a supporting device for the guide roller, said device comprising a fork-like support for the guide roller, a tube having one end connected with said support, a cover closing the other end of said tube and firmly connected therewith, two separate springs situated in said tube, a coupling nut situated between said two springs and engaged on opposite sides by adjacent ends of the two springs, the other end of one of said springs engaging said support, the other end of the other one of said springs engaging said cover, and means adjusting the position of said coupling nut relatively to the vehicle, whereby no pressure is transmitted by the guide roller and the track chain is maintained without tension in its normal position.

2,322,978

DEVICE FOR WITHDRAWING BRAKE AIR FROM DIESEL ENGINE CYLINDERS

Karl Schwaiger, Gaggenau, Baden, Germany; vested in the Alien Property Custodian

Application March 29, 1940, Serial No. 326,610
In Germany March 29, 1939
4 Claims. (Cl. 230—24)



1 The combination comprising an internal combustion engine of the type having at least one cylinder in which a gaseous medium is compressed by a piston and is then ignited, a tank, a conduit leading from said cylinder to said tank to supply some of said compressed medium thereto, a valve controlling said conduit, means intermittently operated by said engine and adapted to positively open said valve at the end of the compressing stroke of said piston before the compressed medium will be ignited, and means responsive to the pressure in said tank and adapted, when the same surpasses a predetermined limit, to render said valve-opening means inoperative.

2,322,979

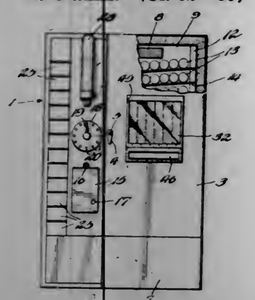
PROCESS OF MANUFACTURING ALCOHOL MODIFIED UREA FORMALDEHYDE RESINS

Ernst Fritz Siegel, Elizabeth, N. J., assignor to Reichhold Chemicals, Inc., formerly Beck, Koller & Company, Inc., Detroit, Mich.

No Drawing. Application July 7, 1941, Serial No. 401,343
8 Claims. (Cl. 260—70)

1. A process for producing resinous condensation products from urea, formaldehyde and an alcohol which consists of reacting urea with aqueous formaldehyde in a proportion of 1 to at least 2.5 molecules at 60°–90° C., and maintaining a pH of 8–10, until 2 molecules of formaldehyde are combined and the residue resulting by vacuum distillation is a sirupy but not crystalline or pasty mass, and then subjecting the reaction mixture to vacuum distillation at a pH of 8–10 until substantially all the water is removed, the final temperature of the residue being not higher than 60° C., and then etherifying the condensation product by heat reacting the same with an excess of a monohydric alcohol at a pH of 5–6 until a homogeneous solution is obtained and the originally hydrophile resinous product is transformed into a hydrophobe product soluble in hydrocarbons.

2,322,980
COMBINATION REFRIGERATOR AND VENDING MACHINE
Milton L. Smith, Chicago, Ill.
Application January 16, 1940, Serial No. 314,159
12 Claims. (Cl. 62—89)



1. In combination with a refrigerator having a door, means forming a recess in the front surface of the door constituting an article compartment in the door adjacent to and accessible from the outside of the refrigerator while the door is closed, said compartment being warmed by the ambient medium at the outside of the door and cooled by the ambient medium at the inside of the refrigerator, and heat insulating means constituting a rear closure for said compartment for inhibiting but not preventing the conduction of heat from the compartment to the interior of the refrigerator.

2,322,981
CELLULOSE PRODUCT
Leo Ubbelohde, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
No Drawing. Application November 11, 1935, Serial No. 49,260. In Austria November 21, 1934
2 Claims. (Cl. 18—54)

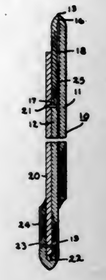
1. A method of producing an improved product of cellulose which comprises admixing an aqueous cellulosic solution and a solution containing urea and formaldehyde, forming the cellulosic product which has incorporated therein the urea and formaldehyde, and converting the urea and formaldehyde into a solidified state while within the product.

2,322,982
PHOTOGRAPHIC PRINTING MATERIAL
Gottlieb von Poser, Wiesbaden, Germany; vested in the Alien Property Custodian
No Drawing. Application January 4, 1941, Serial No. 373,139. In Germany December 27, 1939
15 Claims. (Cl. 95—7)

1. Light-sensitive material which consists of a carrier having a layer comprising a diazo-compound of small light-sensitiveness and a sensitizer consisting in an aromatic keto-compound selected from the group consisting of quinones, phenones, acridones and fluorenones.

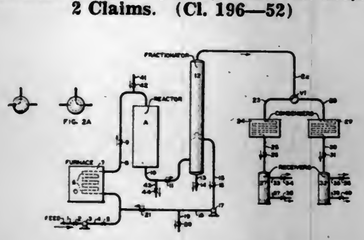
2,322,983
SALES BOOK
George F. Washburne, New York, N. Y., assignor to The Egry Register Company, Dayton, Ohio, a corporation of Ohio
Application September 28, 1942, Serial No. 459,929
8 Claims. (Cl. 282—22)

4. A sales record book comprising a plurality of superposed paper sheets each having a transverse perforation line, said perforation lines being arranged in planar alignment, said sheets being folded upon a common fold line to produce book sections disposed above and below a plane extending through the fold lines of said sheets, a transfer sheet disposed between said book sections in the plane of said fold lines, a stiff back for said book, means extending through said



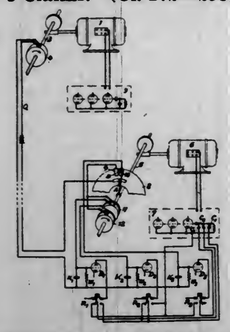
transfer sheet and the book section below said plane and at said perforation line to secure said sheets to said back and secure said transfer sheet to said book section, said lower book section having ends thereof folded over the end of said back into engagement with the rear face thereof, and means for securing said ends of said book section to said back.

2,322,984
HYDROCARBON CONVERSION
Kenneth M. Watson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 6, 1940, Serial No. 328,202
2 Claims. (Cl. 196—52)



1. A hydrocarbon oil conversion process which comprises providing a bed of fresh cracking catalyst and maintaining said bed at catalytic conversion temperature during a period of processing, continuously passing a stream of hydrocarbons through the catalyst bed during the processing period and converting a substantial portion of the hydrocarbons into gasoline in said bed, said stream being introduced to said bed at a substantially uniform conversion temperature throughout the processing period, whereby the activity of the catalyst is gradually diminished by deposition of carbonaceous matter thereon, producing from the hydrocarbons a substantially saturated gasoline during the initial portion of the processing period when the catalyst bed is in a state of high activity and an unsaturated gasoline during a subsequent portion of said period when the catalyst bed is in a state of diminished activity, and separately collecting said substantially saturated gasoline and said unsaturated gasoline.

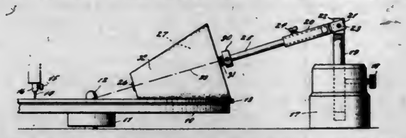
2,322,985
SYNCHRONIZING ARRANGEMENT
Gustav Wegener, Berlin, Germany; vested in the Alien Property Custodian
Application April 19, 1941, Serial No. 389,473
In Germany April 24, 1940
3 Claims. (Cl. 172—293)



1. A synchronizing and phase correcting arrangement for printing telegraph circuits and the like comprising a transmitter having a rotary shaft, a receiver, a transmission line connecting said transmitter and receiver, a contact member associated with said transmitter arranged to transmit over said line with each revolution of said shaft a synchronizing and phasing impulse at a predetermined point in the shafts cycle, a rotary shaft at said receiver, means to drive said shafts at substantially the same speed, means at said receiver to compensate for relative speed variation of said shafts, comprising a brush secured to the receiver shaft, a distributor having a pair of segments cooperating with said brush, a pair of circuits extending from the first of said segments, a vacuum tube in each circuit, a relay connected in the output circuit of each of said vacuum tubes, a rotary member on said receiver shaft for closing said circuits in succession while said brush is passing over said first segment, means to operate said tubes and said relays by said impulse when substantially all of the latter is received while said brush is passing over said first segment, speed regulating means jointly controlled by said relays when operated for maintaining the speed of said shaft unchanged, means for operating but one of said relays when due to relative acceleration of the transmitter shaft only part of said impulse is received when said brush is passing over said first segment, means controlled by said relay to accelerate said receiver shaft, a circuit including a vacuum tube connected to the second of said segments, a third relay connected in the output circuit of said vacuum tube, means to operate the last mentioned tube and said third relay when due to a lag in the speed of said transmitter shaft in relation to said receiver shaft said synchronizing impulse is received on the second of said segments, and speed retarding means controlled by said third relay for adjusting the speed of said receiver shaft to correspond to that of the transmitter.

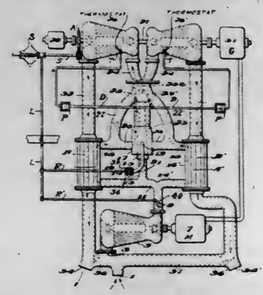
2,322,986
THREAD REMOVING AND DISK CLEANING MECHANISM
Gerhart Weiss and Len Frank, New York, N. Y.
Application February 24, 1940, Serial No. 320,687
12 Claims. (Cl. 15—97)

1. Cleaning apparatus for records and the like, comprising a base adapted to be positioned adjacent to a turntable upon which a record is supported, a conical cleaning roller adapted to be placed upon the record to be driven directly thereby, and means pivotally connecting said



roller to said base, said base being capable of resisting the force exerted by the record on the roller.

2,322,987
TURBINE SYSTEM
Perry West, Lexington, Ky.
Application October 6, 1941, Serial No. 413,861
11 Claims. (Cl. 60—49)



11. In a turbine system, a plurality of sets of turbine blades, a plurality of input means for respectively supplying motive fluid to said sets, continuously operable combustion means for supplying hot combustion gases under pressure, a plurality of sources of relatively cool fluid under pressure, first conduit means connecting said combustion means to said input means, second conduit means connecting said sources of relatively cool motive fluid to said combustion means, third conduit means connecting said sources to said input means, and control means between said first and third conduit means and said input means for alternately directing said combustion gases to one of said intake means while simultaneously directing said cool motive fluid to another of said input means.

2,322,988
ELECTRIC HEATING
Edwin L. Wiegand, Pittsburgh, Pa.
Application February 6, 1941, Serial No. 377,625
15 Claims. (Cl. 201—67)



1. A tubular electric heating element, comprising: a tubular sheath; a core of bonded comminuted refractory electrical-insulating material disposed within said sheath; a section of resistor extending longitudinally of said core at least partially submerged in the material of said core; and unbonded comminuted refractory electrical-insulating material disposed between said core and the inner surface of said sheath approximately throughout the circumferential extent of said resistor section.

2,322,989

PROCESS OF MAKING CARBON BLACK AND MIXTURES OF CARBON MONOXIDE AND HYDROGEN FROM HYDROCARBON GASES

William D. Wilcox, Pekin, Ill; Mary Palmer Wilcox, executrix of said William D. Wilcox, deceased, assignor, by mesne assignments, to Oil and Gas Research, Inc., Wilmington, Del., a corporation of Delaware

No Drawing. Application August 11, 1939, Serial No. 289,588
4 Claims. (Cl. 23—209.4)

1. The process of producing carbon black, carbon monoxide and carbon monoxide hydrogen gas mixtures having a ratio of the hydrogen to the carbon monoxide of two to one, which consists in the steps of pyrolysis within a dissociation chamber, at a temperature range of 2800°–3000° F. of hydrocarbon gas to which has been added a volume of carbon dioxide less than half the volume of the hydrocarbon gas; the separation of the resultant gas mixture and the carbon particles not retained within the chamber; and then introducing into the chamber, a volume of carbon dioxide which together with the carbon dioxide added in the first step of the process is equal to approximately one-half the volume of the said hydrocarbon gas, reacting the carbon dioxide at a high temperature with the residual carbon to form carbon monoxide, said carbon monoxide being added to the said resultant gas mixture obtained in the first step.

2,322,990

CONDENSATION PRODUCTS AND A PROCESS OF PREPARING THEM

Arthur Wolfram, Frankfort - on - the - Main-Roedelheim, and Hellmuth Jahn, Bad Soden in Taunus, Germany; vested in the Alien Property Custodian

No Drawing. Application August 1, 1939, Serial No. 287,758. In Germany August 3, 1938
12 Claims. (Cl. 260—51)

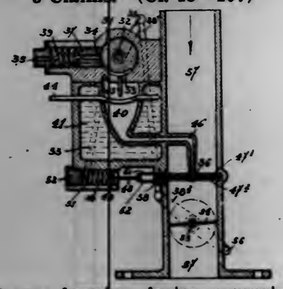
1. The process which comprises causing formaldehyde to act in the presence of condensation catalysts known to promote the formation of resinous condensation products from phenols and formaldehyde upon products obtained by the condensation of an hydroxy-benzene with aliphatic polymers of acetylene containing at least one double bond besides a triple bond in the presence of a strongly acid catalyst.

2,322,991

CARBURETOR FOR OBTAINING GASEOUS MIXTURES FOR INTERNAL COMBUSTION ENGINES

Wilhelm Heinrich Gerard Wunsch and Robert Jean Achille Rolland, Brussels, Belgium; vested in the Alien Property Custodian

Application September 28, 1937, Serial No. 166,034
In Belgium September 29, 1936
5 Claims. (Cl. 48—107)



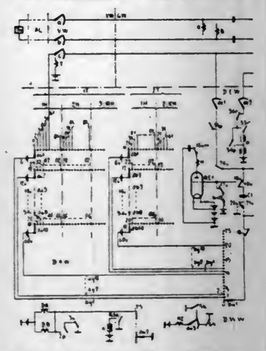
1. A charge forming device, comprising a vaporizing chamber provided with an inlet port for liquid volatile hydrocarbon, the cross-section of said chamber considerably exceeding that of said port, a conduit adjacent said chamber, the opposite ends of which respectively are adapted to be placed in communication with a suction creating device and with atmosphere, means creating a sub-atmospheric pressure within said chamber and withdrawing volatilized hydrocarbon therefrom, said means comprising a pipe, one end of which communicates with said chamber and the other end of which is positioned within said conduit with the open end thereof directed toward the means for connecting said conduit with the suction creating device, an adjustable obturator in said conduit rearwardly of the open end of said pipe to vary the air flow cross-section of said conduit and means for delivering a supply of liquid volatile hydrocarbon to said vaporizing chamber at such a rate that no substantial liquid level is maintained in the vaporizing chamber.

2,322,992

TELEPHONE SYSTEM

Georg Zapf, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian

Application July 31, 1939, Serial No. 287,617
In Germany August 16, 1938
11 Claims. (Cl. 179—7)



6. In a telephone or like system, a plurality of lines each having a potential of a different value associated therewith, means for extending calls over any of said lines, and means common to said lines controlled by the extending of a call over one of said lines to transmit a variable impulse code dependent upon the value of said potential associated with said one line, thereby to identify the line over which said call was extended.

2,322,993

VERTICALLY ADJUSTABLE BIFOCAL SPECTACLES

Julius S. Zell, Portland, Oreg.

Application February 10, 1941, Serial No. 378,200
4 Claims. (Cl. 88—43)



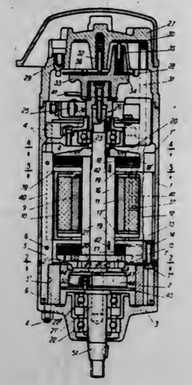
1. In spectacles provided with lenses having bifocal segments, the combination of frame-sections holding said lenses, a spring member connecting said sections and adapted to permit their movement apart, a bridge member provided with nose rests, toggle-joint connections between said sections and the ends of said bridge member, said connections adapted to permit the adjustment of said sections to high and low positions on said bridge member with the movement of said sections apart; and said bridge member being retained in either its upper or lower position by the tension of said spring member.

2,322,994

IGNITION MAGNETO

Alessandro Alessandri, Milan, Italy; vested in the Alien Property Custodian

Application August 1, 1940, Serial No. 349,257
In Italy August 5, 1939
5 Claims. (Cl. 171—209)



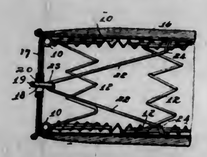
1. An ignition magneto for internal combustion engines comprising, a casing, a hollow ring-shaped magnet therein having a number of pole faces, coextensive magnetic flux conveying rods extending each from one of said magnet pole faces, a flux distributor having staggered arms spaced from each other along the direction said rods extend, an induced winding interlinking with said flux distributor, a spindle driving said flux distributor, a shaft for driving said spindle and an automatic advance governor intercoupling said shaft and spindle and located within said hollow ring-shaped magnet.

2,322,995

MATTRESS HANDLE

James E. Allen, Ames, Iowa

Application March 16, 1942, Serial No. 434,909
2 Claims. (Cl. 5—345)



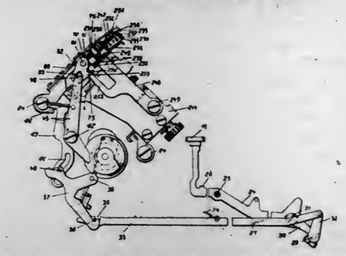
2. A mattress handle, comprising a handle and a pair of anchor members, each anchor member being formed of a V-shaped wire having a loop at its apex end and in a plane common to said wires, each of the free ends of said wires being adapted to be twisted about the junction of two adjacent coil springs and the adjacent portion of the frame members supporting such springs, with one end of said anchor connected to the upper adjoining portions of one set of springs and the other end of said anchor connected to the lower adjoining portions of another pair of springs, the other anchor being connected in the same manner to other pairs of springs alternately with the first pairs of springs, the loops of said anchors being projected outwardly and adapted to be in alinement with openings in a mattress tick, each of said handles having a hook adapted to pass through said openings and enter corresponding loops of said anchors whereby any force applied to said handle will be transferred to said springs at a number of separated points and within the border of said frame.

2,322,996

CALCULATING MACHINE STORAGE DEVICE AND INDICATOR THEREFOR

Robert Anschütz, Zella-Mehlis, and Richard Gröschel, Suhl, Germany; vested in the Alien Property Custodian

Application July 13, 1938, Serial No. 219,077
In Germany July 20, 1937
16 Claims. (Cl. 235—73)



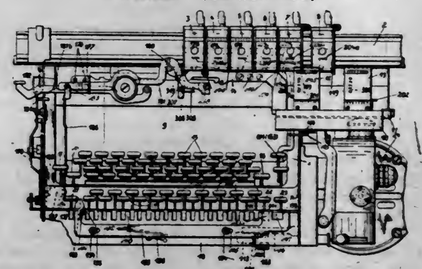
1. In a calculating machine of the class described, in combination, a carriage, a totalizer on said carriage, a storage device, means to establish operative driving relation between said storage device and said totalizer, an indicator for said storage device, and means operatively connected to said first named means for establishing a driving connection between said indicator and said totalizer.

2,322,997

CONTROLLING MEANS FOR COMBINED TYPEWRITING AND CALCULATING MACHINES

Robert Anschütz and Fritz Schmidt, Zella-Mehlis, Germany; vested in the Alien Property Custodian

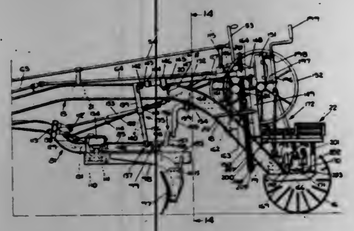
Application September 8, 1938, Serial No. 229,026
In Germany September 9, 1937
1 Claim. (Cl. 235—59)



In a power-driven typewriting-accounting machine, the combination with a travelling carriage; a plurality of column totalizers mounted there-

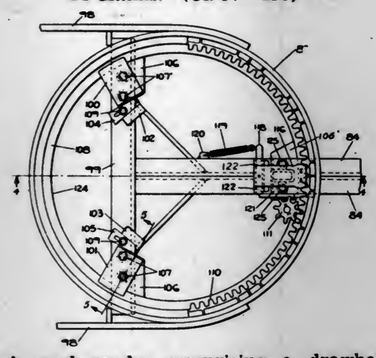
on; a plurality of cross totalizers mounted on the frame of the machine; a keyboard having numeral keys; operating means for the totalizers, under control of the numeral keys; a manipulative device located at one side of the keyboard, and common to the several column totalizers to condition the operating means for taking totals automatically from the column totalizers as they are positioned at the computing zone; and manipulative devices individual to the several cross totalizers and grouped at the opposite side of the keyboard, and selectively operable to condition the operating means for taking totals automatically from their associated cross totalizers; of a slidable locking bar extending transversely of and beneath the keyboard from side to side thereof; the locking bar having an arm at each end projecting upwardly into proximity to the manipulative device common to the column totalizers, and to the manipulative devices individual to the cross totalizers, respectively; shoulders formed on the upper ends of the arms and shiftable into and out of locking position with their associated manipulative total taking devices, respectively; a cam formed on one of the upwardly projecting arms; a wiper to co-act with the cam; and carriage-controlled tappets to shift the wiper different distances along the cam to shift the locking bar to one or another of its positions and select which of the manipulative total taking devices individual to the respective cross totalizers shall be operable in predetermined positions of the carriage, or to lock all of the manipulative total taking devices against operation.

2,322,998
ROAD GRADER
Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio
Application March 12, 1940, Serial No. 323,586
9 Claims. (Cl. 37—157)



5. In a bank sloping machine, the combination with a wheeled supporting frame, of a drawbar frame, a road-working implement carried by said drawbar frame, spaced-apart rock shafts mounted on said frame, crank arms at the forward ends of said rock shafts, extensible hangers connecting said crank arms to said drawbar frame, each hanger comprising a tube associated with a rod capable of extending entirely through the same, a third rock shaft mounted on said frame to extend longitudinally thereof, a crank arm at the forward end of said third rock shaft, a link connecting said last-named crank arm to one side of the rear end of said drawbar, and means for actuating said first-named rock shafts individually with the hangers adjusted to different lengths so as to cooperate with the rocking of said third shaft to adjust the moldboard to steep bank sloping position at one side of the machine.

2,322,999
ROAD GRADER
Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio
Original application March 12, 1940, Serial No. 323,586. Divided and this application April 29, 1941, Serial No. 390,952
14 Claims. (Cl. 37—156)



2. A road grader comprising a drawbar, a circle for carrying a moldboard, an arcuate rack on said circle and concentric therewith, a latch pivotally connected to the underside of said drawbar for support thereby and having a plurality of teeth adapted to mesh with teeth of the said arcuate rack, means for swinging said latch into and out of locking engagement with said rack, a pinion meshing with said rack, and means for rotating said pinion to rotate the circle together with the moldboard thereon when said latch is released from said rack.

2,323,000
GUIDE FOR MOLTEN SILICATES
Max Auwärter, Alfred Jedele, and Konrad Ruthardt, Hanau-on-the-Main, Germany; vested in the Alien Property Custodian
Application September 21, 1940, Serial No. 357,784
In Germany October 10, 1939
4 Claims. (Cl. 49—55)

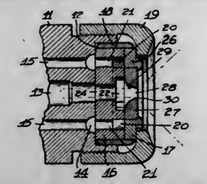


3. In a spinneret for spinning glass threads a trough to which current leads are attached, the trough containing at the symmetrical line discrete members secured in the wall of the trough, each having a spinning orifice extending therethrough, said discrete members being made of an alloy of platinum and copper in the proportion of from 70% to 99% of platinum and from 1% to 30% of copper.

2,323,001
LIQUID SPRAYING DEVICE FOR LIQUID FUEL BURNERS
Adolf Bargeboer, The Hague, Netherlands; vested in the Alien Property Custodian
Application June 8, 1939, Serial No. 278,013
1 Claim. (Cl. 299—120)

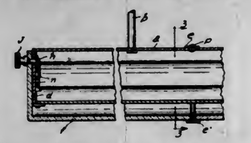
In a liquid spraying device for fuel burners, the combination of a nozzle having a whirl chamber, fuel supply channels projecting tangentially of said whirl chamber and in a plane

at right angles to its axis, a wall extending at right angles to the axis of said whirl chamber and closing the same at the rear end thereof, said entire rear wall being plane except for a single central return orifice provided in said end wall, said return orifice having a diameter



smaller than that of said whirl chamber, and a hollow conical portion forming the entire front wall of said whirl chamber and terminating at its tip in a bevelled knife edge spray orifice having a smaller diameter than said return orifice.

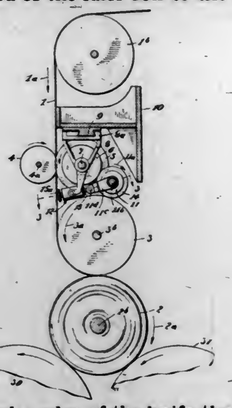
2,323,002
FLUORESCENT LIGHT FIXTURE AND SHADE
Frederick C. Baker, Portland, Oreg.
Application October 8, 1941, Serial No. 414,111
2 Claims. (Cl. 240—78)



1. A lighting fixture of the character described comprising an elongate frame, means for holding said frame suspended in horizontal position from a ceiling surface, a lighting tube supported horizontally on the underside of said frame, a centrally located shade support attached to said frame and extending transversely around the underside of said frame on the outside of said lighting tube, a shade bowl consisting of two identical sections, each section having a substantially semicylindrical main portion and a substantially semicircular end wall portion, a hole provided in each shade end wall portion, means mounted at each end of said frame including a horizontal pin adapted to be inserted in said hole, said shade bowl sections being of sufficient length to extend from the end of said frame onto said central shade support and of sufficient size to extend about the underside of said frame and said tube with the top edges of said shade sections extending approximately to the top of said frame, whereby, when each of said shade bowl sections is mounted in place on said frame, the inner end of the section will rest on said support and the outer end will be supported on said pin, said fixture so arranged that the removal of a shade bowl section from said frame will require only a minimum longitudinal movement of the section with respect to the frame sufficient to enable said shade section to become disengaged from said central support and from said pin.

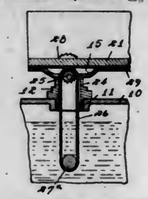
2,323,003
APPARATUS FOR CUTTING PAPER SHEETS
Paul Baur, Heidenheim-on-the-Brenz, Germany; vested in the Alien Property Custodian
Application February 28, 1941, Serial No. 381,015
In Germany October 6, 1939
3 Claims. (Cl. 164—65)

1. In a paper slitter, having a paper supply roll for supplying a paper sheet, a circular knife for slitting the paper sheet, and a take-up roll for the slitted sheet, the combination of an idler roll under said paper sheet rotatable by the peripheral speed of the take-up roll, means transferring the peripheral speed of the idler roll to the knife for



giving the circular edge of the knife the same peripheral speed as the velocity of the paper sheet being cut, and means for adjusting the last named means.

2,323,004
ENVELOPE AND STAMP MOISTENER
Charles E. Baylor, Sigourney, Iowa
Application October 1, 1941, Serial No. 413,171
5 Claims. (Cl. 91—54.4)

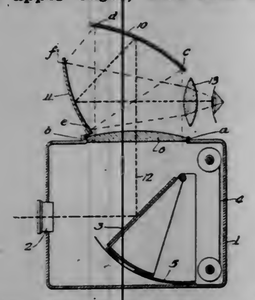


2. An envelope moistener, comprising a water container, a supporting table having a depression, a wick casing in said container having its upper end terminating in said depression, a continuous wick within said casing, a toothed wheel on the upper end of said casing for supporting said wick, said wheel having an outwardly extending shaft, a second toothed wheel on the outer end of said shaft for rotating said roller and having its upper edge extending upwardly through said table to engage an envelope passed over said table and engaging said wick, whereby the first toothed wheel will be rotated each time an envelope is passed over said table and a new portion of said wick caused to engage said envelope.

2,323,005
PHOTOGRAPHIC CAMERA
Ludwig Bertele, Dresden, Germany; vested in the Alien Property Custodian
Application December 1, 1939, Serial No. 307,182
In Germany October 6, 1938
4 Claims. (Cl. 88—1.5)

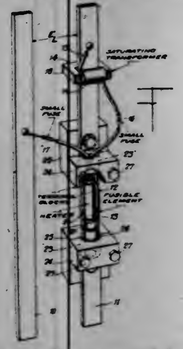
1. In a photographic view finder in which the image appears on a horizontal translucent screen, a mirror mounted above said translucent screen in such an angular position so as to reflect the image downwardly and forwardly, and a second

mirror arranged in the path of the light rays reflected from said first mirror for reflecting the image substantially horizontally rearwardly past the lower edge of said first named mirror and above said translucent screen, said mirrors having their lower edges disposed to the rear of their respective upper edges, with said upper edges



being closer together to form an acute angle between said mirrors, the said second mirror having a concave reflecting surface and its upper edge being positioned at a substantially higher plane than the lower edge of said first named mirror while its lower edge is not lower than the plane of said screen.

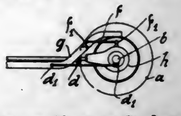
2,323,006
FUSE CONSTRUCTION
Wallace C. Rudd, Yonkers, N. Y., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Original application November 28, 1941, Serial No. 420,773. Divided and this application August 15, 1942, Serial No. 454,893
3 Claims. (Cl. 200—123)



1. A fuse construction comprising in combination, an electrical resistance heating element, a fusible element substantially enclosing said heating element, means within said fusible element for normally effectively insulating said heating element against short-circuiting by the fusible element, and electrical connecting means extending from said heating element to the exterior of said fusible element.

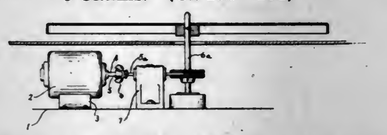
2,323,007
RIGID REAR AXLE FOR MOTOR VEHICLES
Carl Borgward, Bremen, Germany; vested in the Alien Property Custodian
Application December 19, 1940, Serial No. 370,897
In Germany October 12, 1939
2 Claims. (Cl. 267—66)

1. In a rigid connection for motor vehicle rear axles, a frame having longitudinal members and a cross member, lower connecting rods connected to the under side of the axle adjacent its ends by ball and socket joints and extending forwardly, said lower rods being connected to said longitudinal members by ball and socket joints, and a



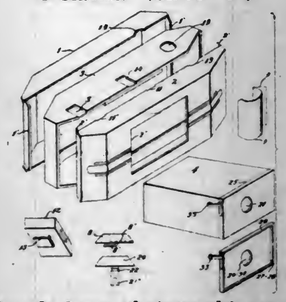
pair of upper connecting rods having ball and socket connection at closely adjacent points on the upper side of the axle at the middle portion thereof, said upper rods having ball and socket connection at widely spaced points to the said cross member.

2,323,008
COUPLING AND CONTROLLING DEVICE
Blake W. Carrington, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Application November 29, 1941, Serial No. 421,027
5 Claims. (Cl. 192—104)



1. In a phonograph driving mechanism, a driven shaft associated with the turntable, a driving shaft associated with the power source, said driving shaft being spaced from said driven shaft, means for controlling the speed of the said driven shaft carried by said driven shaft, said means comprising a flexible arc portion, a pair of depending legs, a pair of weights affixed to the ends of said legs, said weights having means associated therewith engaged by the driving shaft when the driving mechanism is driven at slow speeds and swinging outwardly out of contact with said driving shaft when said mechanism is driven at high speed.

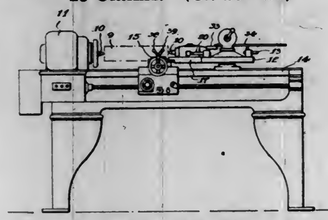
2,323,009
PHOTOGRAPHIC APPARATUS IN DETACHED PARTS
Arsène Claudot and Arthur Mark, Jette St. Pierre, Belgium; vested in the Alien Property Custodian
Application March 29, 1940, Serial No. 326,732
In Belgium October 20, 1939
5 Claims. (Cl. 95—31)



1. A knock-down photographic apparatus in the form of a camera, including a box, compris-

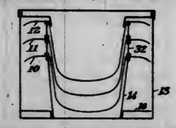
ing substantially identical front and rear sections arranged in horizontal alignment with their adjacent edges in contact, interfitting frictionally engaging flanges carried by the sections to removably secure such sections in box-forming relation, a frame fitted within and bearing in contact with the inner surfaces of the top, bottom and sides of the box and fully covering the full juncture between the box sections to light-seal the meeting edges of the sections, an open-ended casing supported in the front section and passing through the frame, said casing defining with the frame film spool receiving chambers, a film spool in each chamber and supported solely by the frame, a shutter-engaging frame arranged at the forward end of the casing, and a cover securing the shutter frame removably to the casing, said cover being formed with a lens-receiving opening.

2,323,010
MACHINE TOOL ATTACHMENT
Conrad M. Conradson, Detroit, Mich.; Frederick R. Walter, administrator of said Conrad M. Conradson, deceased, assignor, by mesne assignments, to Oscar Christianson, Madison, Wis., as trustee
Application January 29, 1940, Serial No. 316,136
15 Claims. (Cl. 29—27)



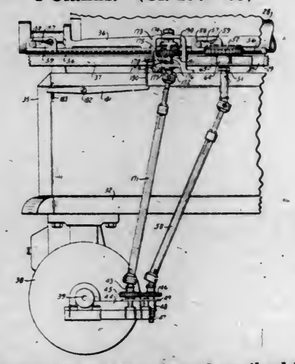
1. In a machine tool attachment, a rotatable tool carrier, a plurality of tools placed within the carrier, a stationary transfer track fastened in line with a portion of the carrier, a tool clamp to hold the tool in working position in alignment with the transfer track, means adapted to engage a portion of said tool, and a second means for shifting said first means and the tool on the transfer track to and from the tool clamp.

2,323,011
HAT SUPPORT FOR HAT BOXES
Louis Creper, Brooklyn, N. Y.
Application September 25, 1940, Serial No. 358,196
2 Claims. (Cl. 206—9)



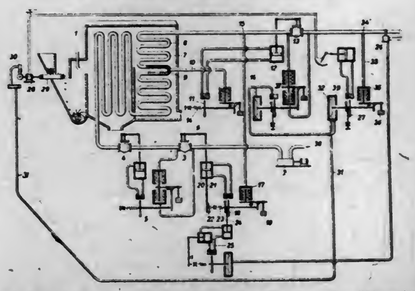
1. A hat support comprising the combination of an upright tubular paper sheet having an upper edge and a resilient edging therefor, said edging comprising a soft core and a textile sheet covering therefor, said textile sheet covering and surrounding the core and having its edges secured to the upper edge of said paper sheet, said covered core being located substantially entirely and bodily above the upper edge of said paper sheet and being yieldable laterally with respect to the walls of said tubular paper sheet.

2,323,012
CARRIAGE OPERATING MECHANISM FOR ACCOUNTING MACHINES
John T. Davidson, Oakwood, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Continuation of application Serial No. 143,641, May 20, 1937. This application March 28, 1941, Serial No. 385,770
4 Claims. (Cl. 197—65)



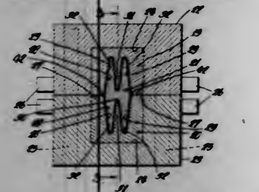
4. In a machine of the class described including a movable carriage and releasable means for holding the carriage against movement in one direction, the combination of a motor; and driving connections between said motor and said carriage including a fluid coupling of a type permitting slip but developing potential energy during slip, which energy is available to start said carriage from rest, development of said energy being decreased by movement of the carriage.

2,323,013
MEANS FOR CONTROLLING THE OPERATION OF VAPOR GENERATORS
Gustav Decker, Berlin, Germany; vested in the Alien Property Custodian
Application March 20, 1939, Serial No. 262,975
In Germany March 22, 1938
10 Claims. (Cl. 122—451.2)



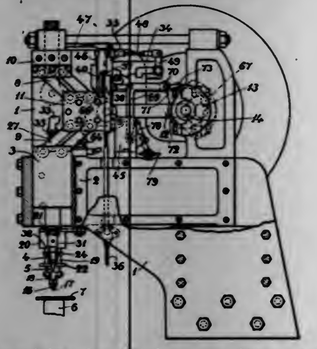
1. Apparatus for automatically controlling the operation of a vapor generator having a once-through fluid passage receiving liquid at one end and delivering superheated vapor at the other end comprising in combination means for supplying liquid to said passage, liquid supply control means, a pressure impulse system connected to be in response to the vapor pressure in said passage and to actuate the said supply control means, a pressure regulating system connected to be responsive to the liquid pressure in said passage at a point near the zone of evaporation for keeping a predetermined pressure constant at this point.

2,323,014
MOLDING MEANS
Wallace De Laney, Ashland, Ohio, assignor to The Faultless Rubber Company, Ashland, Ohio, a corporation of Ohio
Application September 30, 1941, Serial No. 412,984
10 Claims. (Cl. 18—35)



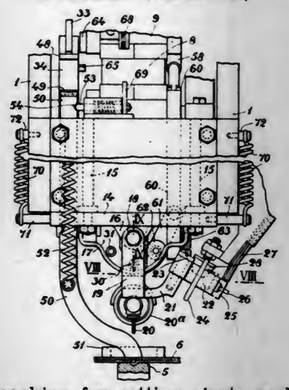
8. Apparatus for molding a container, such as a syringe bag, water bottle, or the like, having substantially opposed walls joined by foldable side sections, comprising: mold means and core means, for joining two pieces of stock to form the container, said mold means comprising two mold parts having meeting faces, each part having recess means extending inwardly from its meeting face and so configured that it provides a contour surface corresponding to the exterior surface of one of the foldable side sections and an extending part of each of the opposed walls, said recess means being complementary with respect to each other to provide a complete cavity configured to correspond to the complete exterior wall shape of the container; and core means being positioned within said complete cavity, and having projection means fitting into respective recess means but being spaced therefrom to provide for the wall thickness of the container.

2,323,015
MACHINE FOR SETTING OR DRIVING RIVETS AND THE LIKE
William Carlyle Dent, Birmingham, England, assignor to Baxters (Bolts, Screws & Rivets) Limited, Birmingham, England
Application July 14, 1941, Serial No. 402,362
In Great Britain July 15, 1940
5 Claims. (Cl. 78—48)



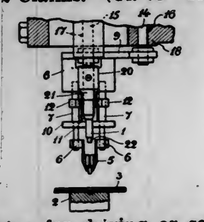
1. A machine for driving or setting rivets and the like comprising a vertically-movable setting or driving tool, a clutch for starting the machine and causing the descent of the tool, a vertically-movable pocket for gripping and holding a rivet or the like, feed means for supplying rivets or the like one at a time to the pocket when the latter is raised, a pedal controlling the clutch for starting the machine, a slide carrying the pocket, transmission means between the pedal and the pocket-carrying slide, separable coupling members in the transmission, a lever on which one of the coupling members is mounted, a cam having an abutment for the lever to maintain the coupling members in coupling engagement before the machine is started but moving into an inoperative position when the clutch is engaged and the machine is started so as to render the pedal inoperative on the pocket slide, and a second cam which then comes into operation upon the pocket slide to maintain the pocket lowered and the rivet or the like in the work while the setting or driving tool descends.

2,323,016
MACHINE FOR SETTING OR DRIVING RIVETS AND THE LIKE
William Carlyle Dent, Birmingham, England, assignor to Baxters (Bolts, Screws & Rivets) Limited, Birmingham, England
Application July 25, 1941, Serial No. 404,015
In Great Britain July 26, 1940
6 Claims. (Cl. 78—48)



1. A machine for setting rivets and the like comprising a setting tool, an anvil upon which the work is placed, a vertically movable slide, a displaceable member mounted on said slide, a locating projection and a rivet or like receiving pocket mounted on said member, means for operating said member to bring either the locating projection or the pocket into operative position over the anvil and work, a clutch for starting the machine, a pedal controlling the clutch to start the machine but being inoperative upon the clutch during its initial movement, a sliding member connected to the pedal and having an inclined nose part, a lever upon which the sliding member is mounted, a second sliding member engaged by the inclined nose part of the first sliding member, a cam normally supporting the lever until the clutch is engaged and the machine is started but moving into an inoperative position after engagement of the clutch to render the pedal inoperative upon the second sliding member, a lever connected to the second sliding member and operative upon the vertically-movable slide whereby the initial operation of the pedal causes the slide to descend, before the clutch is engaged, for lowering the locating projection, when in operative position, into holes in the work, means operated by the machine for raising the locating projection from the work, means operated by the machine for operating the displaceable member to bring the pocket into operative position, mechanical means for lowering the pocket to the work, means for lowering the setting tool on to the work, means for raising the pocket, and means for again operating the displaceable member to bring the locating projection into operative position.

2,323,017
MACHINE FOR SETTING OR DRIVING RIVETS AND THE LIKE
William Carlyle Dent, Birmingham, England, assignor to Baxters (Bolts, Screws & Rivets) Limited, Birmingham, England
Application July 25, 1941, Serial No. 404,016
In Great Britain July 26, 1940
2 Claims. (Cl. 78—48)



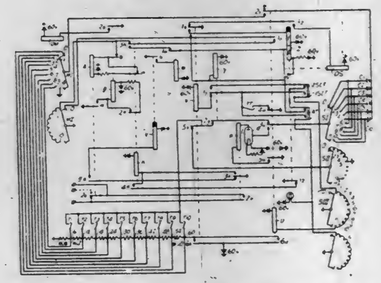
1. A machine for driving or setting rivets or the like comprising a driving or setting tool provided with a downwardly-presented conical part, a vertically-movable pocket carrier, a pocket for holding a rivet consisting of spring-pressed jaws, and angularly-movable members carrying the pocket jaws and mounted on the pocket carrier, the conical part of the tool co-operating with the angularly-movable members when the tool and pocket are raised in order to cause the pocket to open slightly to receive a rivet and also acting on said angularly-movable members when the tool descends and the pocket has been lowered, in order to open the pocket and release the rivet therein prior to the tool engaging the rivet.

2,323,018
SCREW DRIVER
William A. De Vellier, New York, N. Y.
Application June 19, 1941, Serial No. 398,778
1 Claim. (Cl. 145—50)



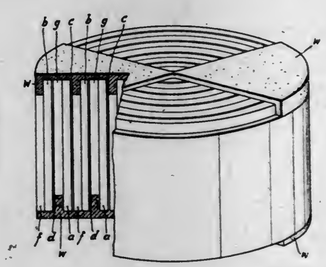
A shank for a turning tool for threaded members, said shank being in cross section of truncated diamond shape throughout at least a substantial part of the length thereof and having a tip comprising a flat hexagonal tip end and end walls inclined outwardly and upwardly to the truncated end walls of the truncated diamond shaped shank whereby the tip and the inclined tip end walls may be ground down as worn down in use to provide a continuous tip of the desired predetermined shape throughout the decreasing length of said shank in use.

2,323,019
IMPULSE SENDER
Hinrich Döhle, Berlin-Alt-Glienicke, Germany; vested in the Alien Property Custodian
Application September 13, 1937, Serial No. 163,606
In Germany September 26, 1936
12 Claims. (Cl. 177—380)



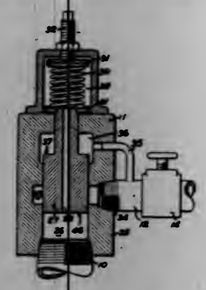
1. In an impulse sender for registering a digit as a quantity of charge on a condenser and subsequently retransmitting the digit as one or more impulses, a plurality of sources of potential, each source differing from the other sources in the value of its potential, means for successively connecting said sources of potential in series with said condenser during the transmission of the impulses, and means operated to terminate the transmission of the impulses when the combined voltages of said condenser and of that one of said sources connected in series therewith equals a predetermined value.

2,323,020
ELECTROSTATIC CONDENSER
Walter Dorn, Vaihingen-Rohr, Germany; vested in the Alien Property Custodian
Application February 16, 1940, Serial No. 319,340
In Germany March 15, 1934
8 Claims. (Cl. 175—41)



6. An electrostatic wound condenser comprising at least two metallized dielectric strips wound in a plurality of turns, each strip carrying an adherent metallic coating of metal having a relatively low melting point and also a relatively low vaporizing point, said coating having the homogeneity and other specific characteristics of the same metal deposited and cooled quickly from vapor of such metal, said coating being of substantially uniform thickness whose dimension is not greater than 200 millionths mm. and not less than 25 millionths mm., said condenser having for each coated strip a common terminal connector united to a plurality of turns of its respective coating.

2,323,021
RELIEF VALVE
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Original application July 26, 1941, Serial No. 404,219. Divided and this application October 20, 1941, Serial No. 415,697
6 Claims. (Cl. 137—53)

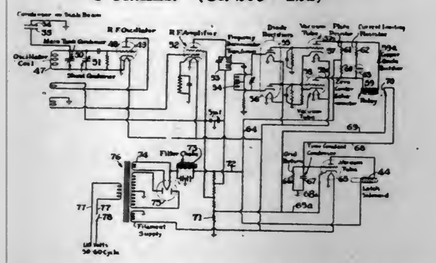


1. In combination in a valve, a valve casing having an inlet port adapted to be connected with a pressure line and an outlet port adapted to be connected with an exhaust line, a valve member reciprocable in said casing and movable selectively into opening or closing position for opening or closing said outlet port, said valve member having a first area adjacent said inlet port and an opposed smaller area and also being provided with an extension, yielding means acting on said extension for continuously urging said valve member into closing position, means responsive to a predetermined pressure acting on said first area for hydraulically interconnecting said first area and said smaller area, and means for conveying fluid pressure from said first area through said valve member to said extension to aid said yielding means in urging said valve member into its closing position.

2,323,022
PROCESS FOR SACCHARIFYING CELLULOSE
Demetrio Ferrari and Mario Torresi, Rome, Italy; vested in the Alien Property Custodian
No Drawing. Application February 18, 1941, Serial No. 379,480. In Italy March 2, 1940
1 Claim. (Cl. 127—37)

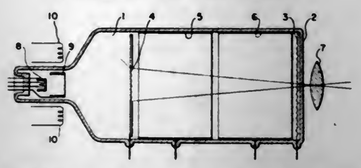
A process for saccharifying cellulosic material comprising the steps of comminuting the cellulosic material mechanically to the consistency of wood meal, agitating said wood meal for about half an hour while very slowly adding thereto about 15% by weight of sulphuric acid at 60° Bé., diluting the resulting mixture with 400% by weight of water, cooking the diluted mixture for a quarter of an hour under a pressure of from three to four atmospheres, extracting the furfurol and acetic acid, separating the sugar-containing liquid from the solid parts of the mixture, drying the solid residuum and retaining it for from 8 to 10 hours in a maturation chest at a temperature of about 100° C., grinding the maturated material under very high pressure for about two hours while gradually admixing thereto between about 66.6 and 75% by weight of sulphuric acid at 60° Bé., diluting the black paste obtained with twice its weight of water, cooking the mixture for a quarter of an hour under a pressure of from 3–4 atmospheres, and filtering the resulting creamy liquid to separate the sugar-containing liquid from the solid lignin residuum.

2,323,023
AUTOMATIC WEIGHING MECHANISM
Thomas B. Flanagan and Richard T. Pounds, Columbus, Ohio, assignors to The Exact Weight Scale Company, Columbus, Ohio, a corporation of Ohio
Application April 7, 1941, Serial No. 387,285
3 Claims. (Cl. 209—121)



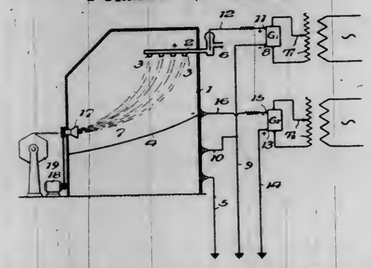
1. Apparatus for separating articles according to weight comprising an even balance scale, a commodity receiver for said scale, said receiver forming a part of a conveyer line and over which articles to be weighed pass without interruption, article separating means at the discharge side of said receiver, said means having a spring pressed gate section, latch means normally positioned to permit movement of said gate section, electro-responsive means for moving said latch means to a gate obstructing position, and means for controlling the operation of said electro-responsive means, said control means having an oscillator circuit, a rectifying circuit normally in resonance with said oscillator circuit, a relay in said rectifying circuit, said relay being connected with said electro-responsive device and operating the same when the frequency of the oscillator circuit varies from the resonant frequency, and means connected with a movable part of said scale for varying the frequency of the oscillator circuit.

2,323,024
TELEVISION TRANSMISSION TUBE
Werner Flechsig, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application May 15, 1941, Serial No. 393,602
In Germany May 29, 1940
4 Claims. (Cl. 250—153)



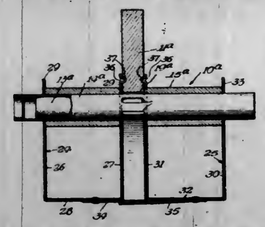
1. A television picture signal generating tube comprising an apertured charge storage electrode having photosensitive particles deposited thereon and adapted to have an optical image focused thereon, an electron gun at one side of said electrode for directing a beam of electrons thereat to produce secondary electrons upon impact therewith, an output electrode adjacent the other side of said storage electrode for receiving the secondary electrons passing through the apertures thereof, a collecting electrode also at the other side of said storage electrode for intercepting the primary electrons of said beam passing through said apertures of said storage electrode, and a decelerating electrode adjacent said collecting electrode for retarding secondary electrons produced by electron impact with said collecting electrode thereby to prevent said last-named secondary electrons from reaching said output electrode.

2,323,025
PRODUCTION OF ARTIFICIAL FIBERS FROM FIBER FORMING LIQUIDS
Anton Formhals, Mainz, Germany; vested in the Alien Property Custodian
Application March 8, 1940, Serial No. 323,036
In Germany May 13, 1939
4 Claims. (Cl. 18—8)



1. Apparatus for producing artificial fibers from fiber forming liquid which comprises a spinning chamber having electrically conductive but grounded internal walls, a first electrode and a counter-electrode of opposing polarity spaced apart within said spinning chamber, means for providing a high potential electric field between said electrodes and adapted to independently vary the potential difference at either electrode, nozzle means for supplying fiber forming liquid to said high potential field, and means for withdrawing the formed fibers from said field.

2,323,026
ROADWAY FORMATION UNIT
Ernest H. Geyer, Chicago, Ill., assignor of one-half to Henry A. Taubensee, Chicago, Ill.
Application December 2, 1938, Serial No. 243,493
7 Claims. (Cl. 94—18)



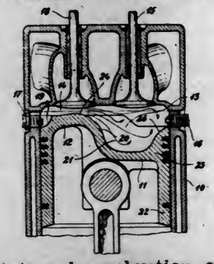
4. A unit adapted for use in roadway formation and comprising in combination a filler board having a downwardly facing notch therein and adapted to be placed on a roadbed and to have concrete poured at the sides thereof for roadway slab formation purposes and further adapted upon hardening of the concrete to be removed from between the slabs, a load transfer member having one portion thereof extending through the notch and other portions adapted for embedment in the slabs, and a pair of side pieces for preventing entry of concrete into the notch prior to hardening of the concrete and removal of the board and having notches in the upper ends thereof for said one portion of the load transfer member.

2,323,027
DRILLING IMPLEMENT
Wilhelm Gerstenkorn, Essen, Germany; vested in the Alien Property Custodian
Application September 25, 1941, Serial No. 412,256
In Germany February 29, 1940
2 Claims. (Cl. 255—73)



1. In a well drilling device having a rotatable shank adapted to be driven and provided upon the end thereof with a drilling head or cutter, and a shell or sleeve surrounding said shank and provided upon one end with cutting teeth, the feature including a one-way clutch disposed within said sleeve having one portion secured to the interior of the same and a corresponding portion fixed upon said shank.

2,323,028
INTERNAL COMBUSTION ENGINE
Wilhelm Glamann, Stuttgart, Germany; vested in the Alien Property Custodian
Application June 28, 1940, Serial No. 342,882
In Germany April 27, 1939
2 Claims. (Cl. 123—32)
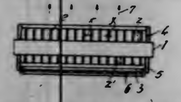


1. In an internal combustion engine an engine cylinder, a piston movable therein, the piston head being shaped in such manner relative to the cylinder head that at least two combustion spaces are formed one comprising a shallow space and the other an enlarged space, the piston head being formed with a transversely extending ridge adjacent the shallow space acting to guide mixture flowing from the shallow space to the enlarged space.

2,323,029
ACIDPROOF CEMENT
Hobert R. Goodrich, Glendale, Calif., assignor to Gladding, McBean & Company, San Francisco, Calif., a corporation of California
No Drawing. Application January 31, 1939, Serial No. 253,783
21 Claims. (Cl. 106—84)

1. An acidproof cement, comprising finely di-

vided glass, a minor proportion of asbestos fibre, an acid-forming compound having a positive radical selected from the group consisting of alkali and alkali earth metals and a negative radical selected from the group consisting of fluorides and silico-fluorides, and a sodium silicate having a ratio of silica to soda greater than 3.2 to 1.

2,323,030
ELECTRODE FOR PIEZOELECTRIC CRYSTAL OSCILLATORS
Johannes Gruetzmacher, Berlin, Germany; vested in the Alien Property Custodian
Application June 19, 1940, Serial No. 341,302
In Germany July 11, 1939
11 Claims. (Cl. 171—327)



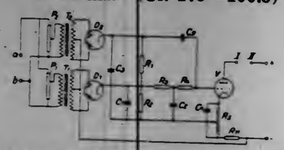
1. A piezo-electric crystal oscillator for producing sound- or ultra-sound oscillations in liquids, comprising a crystal, an electrode on each side of said crystal, at least one of said electrodes consisting of a grid contacting the crystal and at least one of the two vibrating surfaces of the crystal being in contact with the liquid to be treated, and means for inhibiting the radiation of energy from one side of said crystal.

2,323,031
MOP CONSTRUCTION
Nathaniel B. Greenleaf, Toronto, Ontario, Canada
Application August 4, 1941, Serial No. 405,305
4 Claims. (Cl. 15—147)



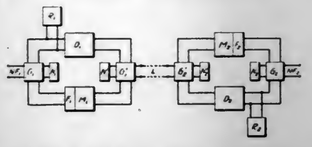
1. A mop or the like having a looped wire frame presenting axially aligned but separated inturned end extremities, means forming shoulders on said extremities, and a handle-mounting member having an integral resilient sleeve-like portion rotatably embracing the end extremities of said wire frame and having inwardly turned flanges at the ends engaging in interlocking contact with said shoulder formations.

2,323,032
SOUND RECORDING SYSTEM
Ernst Hack, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application May 24, 1941, Serial No. 395,014. In Spain, Switzerland, Sweden, Italy, the Netherlands, and Denmark July 10, 1939
3 Claims. (Cl. 179—100.3)



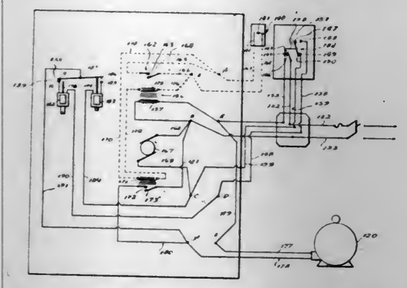
1. In a system for controlling a recording device, two control channels having a common input for modulated electrical energy and a common output to a recording device, the energy supplied to the first channel being less than the energy supplied to the second channel, each channel including a rectifier and a smoothing network, the time constant of the network in the first channel being less than the time constant of the network in the second channel, and an element common to both networks, whereby the potential developed across said element by the current from said second rectifier reduces the current from said first rectifier until said rectifier is blocked.

2,323,033
CARRIER FREQUENCY TELEPHONE SYSTEM
Wolfgang Hagen, Berlin, Germany; vested in the Alien Property Custodian
Application April 22, 1941, Serial No. 389,714
In Germany March 13, 1940
9 Claims. (Cl. 178—44)



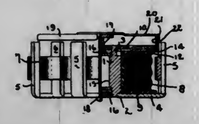
9. A two-way electric wave signalling system comprising a first repeater station, a second repeater station, a two-wire transmission line extending between said first and second stations, means in said stations for producing voice frequency signal waves extending over a predetermined band in the frequency spectrum, means in one of said stations for impressing upon said transmission line waves extending over said predetermined band in which the frequency amplitude characteristic of the voice frequency signal waves is inverted and means in said other station for impressing upon said transmission line said voice frequency waves with their frequency amplitude characteristic unchanged.

2,323,034
COMBINED AIR CONDITIONING AND HEATING UNIT
William W. Hallinan, Mendota, Ill.
Application July 22, 1940, Serial No. 346,763
16 Claims. (Cl. 236—9)



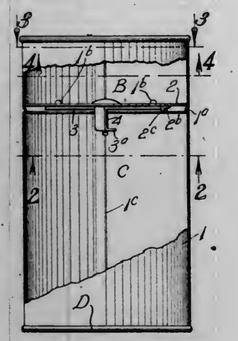
9. A control system for stokers comprising a double-throw thermostatic electric switch having high temperature and low temperature contacts, coal feeding means and combustion air feeding means, an electric motor for driving said coal feeding and air feeding means, operative mechanical connections between said motor and said coal feeding means and said air feeding means, electrical means controlled by said double-throw thermostatic switch responsive to the temperature condition of air in the plenum chamber of the furnace for controlling the rate of supply of air and coal by said feeding means, whereby the fire is supplied with air and coal as required to maintain the furnace within predetermined temperature limits, and a periodically actuated time controlled pilot switch separately controlling the energization of said motor for turning on the motor and feeding coal and air to the furnace periodically to maintain the fire.

2,323,035
SYNCHRONOUS MOTOR
William Lester Hansen and Ira N. Hurst, Princeton, Ind., assignors to Hansen Mfg. Company, Inc., Princeton, Ind., a corporation of Indiana
Application May 9, 1941, Serial No. 392,702
3 Claims. (Cl. 172—278)



1. In a synchronous motor, a magnetic core, a magnetic field member mounted on one end of said core and having outer pole pieces disposed axially in a substantially cylindrical path, a second magnetic field member mounted on the other end of the core and having inner pole pieces disposed radially and extending in the general direction of the axial pole pieces, a shading ring of disk form extending inwardly from the outer tips of the inner pole pieces in a diametral direction towards the core and having openings through which alternate pole pieces pass, said ring having its outer marginal portions intertwining said inner pole pieces, and a rotor cooperating with said magnetic field member.

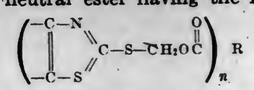
2,323,036
CREAM SEPARATING MILK CONTAINER
Ezekiel Hanson, San Diego, Calif.
Application October 8, 1940, Serial No. 360,254
5 Claims. (Cl. 210—51.5)



1. A cream separating milk container of the class described, consisting of a hollow container member, a partition member positioned therein provided with an opening in said partition member, and a gate member shiftably mounted on said partition member and arranged to be shifted and positioned over and off of said opening in said partition member by tilting and rotating said hollow container in the desired direction.

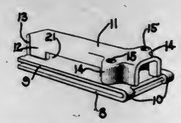
2,323,037
PROCESS OF VULCANIZING RUBBER AND PRODUCT PRODUCED THEREBY
Marion W. Harman, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 6, 1937, Serial No. 173,215
16 Claims. (Cl. 260—787)

1. The process of vulcanizing rubber which comprises heating rubber and sulfur in the presence of a rubber vulcanization accelerator comprising a neutral ester having the formula



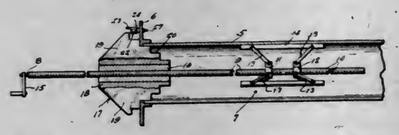
where R is selected from the group consisting of aromatic hydrocarbon and hydroxy substituted aromatic hydrocarbon groups and n is an integer less than three.

2,323,038
DAMPER REGULATOR
Loyd E. Heasley and William C. De Roo, Holland, Mich., assignors to Hart & Cooley Manufacturing Company, Holland, Mich., a corporation of Delaware
Application January 13, 1941, Serial No. 374,226
2 Claims. (Cl. 126—292)



1. The combination with a damper of a damper pivot comprising an integrally formed housing consisting of a plate located adjacent said damper and extending inwardly from an edge thereof and thence turned upwardly to form the inner end of the housing and thence turned outwardly and having sides turned downwardly and terminating adjacent said plate, said outer end of said housing being normally disconnected from said plate, fastening means extending through said housing, said plate and said damper near its outer portions and acting to connect the outer end of said housing to said plate and said plate to said damper and a retractable pivot located within said housing and extending outwardly therefrom.

2,323,039
WELDING APPARATUS
Frank Hill, Borger, Tex.
Application June 21, 1941, Serial No. 399,183
2 Claims. (Cl. 113—103)



1. In a device for holding a pipe flange in proper association with the pipe to which it is to be welded, an expansible and contractible clamp adapted to be disposed in the pipe to be expanded into clamping engagement with the interior of the pipe, said clamp embodying an adjusting screw, a bearing through which said screw is trained, and a flange holder sleeved on

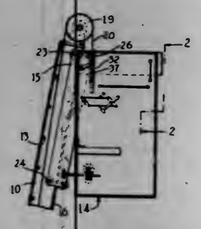
said bearing and adapted to be inserted through the opening in the flange to clamp the flange between the adjacent end of the pipe and adjacent portions of the flange holder, said flange holder embodying a body having a stepped surface to accommodate flanges ranging in diameter from a relatively small diameter to a relatively large diameter.

2,323,040
ARTICULATED JOINT FOR DOLLS OR SIMILAR TOYS
Mano Hirsch, Brooklyn, N. Y.
Application November 2, 1942, Serial No. 464,282
2 Claims. (Cl. 46—161)



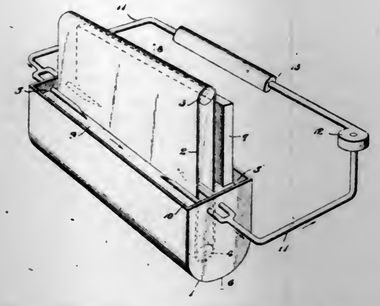
1. In an articulate toy comprising a hollow body, an endless band contained inside said body, limb members insertable in said body, said limb members having attachment means integral therewith and attachable to said endless band; said attachment means comprising an arcuate hook forming an inner recess at one side of said attachment means and a channel opening at the opposite side of said inner recess, said channel opening being formed by said arcuate hook on one side of said inner recess and a peninsulate projection at the opposite side.

2,323,041
EXTENSIBLE FIRE LADDER AND ELEVATOR
Morris Honig, Bronx, N. Y.
Application July 18, 1941, Serial No. 402,897
14 Claims. (Cl. 227—8)



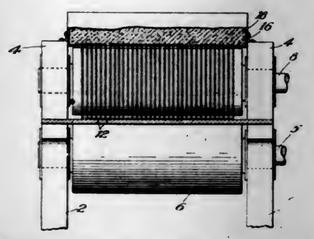
1. For use with an elevator which is suspended from a lifting cable and which moves along tracks, a safety device to prevent said elevator from dropping in the event that said lifting cable no longer supports said elevator, said device comprising a member, said lifting cable being directly attached to said member, means to mount said member on said elevator for limited vertical movement relative thereto whereby said elevator is supported from said cable through said member and said means, said member being disposed at one extreme of its limited travel when said cable is supporting said elevator, actuating means to urge said member to the other extreme of its travel, said means being ineffective to move said member against the weight of said elevator when said elevator is suspended from said cable, and braking means adapted to cooperate with said tracks, said braking means being rendered effective upon operation of said actuating means.

2,323,042
PROCESS FOR THE ELECTROLYTIC DECOMPOSITION OF METAL COMPOUNDS
Werner Honsberg, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
Application May 7, 1940, Serial No. 333,762
In Germany May 30, 1939
2 Claims. (Cl. 204—124)



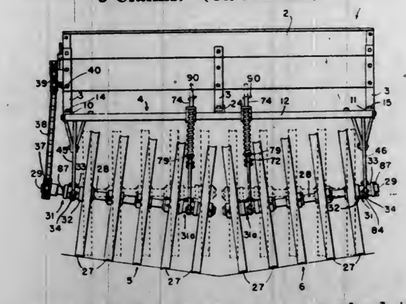
1. In a process of electrolytically depositing zinc from an electrolyte bath of zinc salts confined in an electrolytic cell by passing a current through said electrolyte from an anode to a cathode comprising a moving surface coated with mercury and in which the cathode moves alternately through a mercury bath to form said coating and thence through said electrolyte, the improvement which comprises continuously introducing fresh mercury at the surface of the mercury bath near one end of said cell and continuously withdrawing mercury and zinc amalgam from said surface near the other end of said cell and thereby causing a current of mercury and zinc amalgam to move continuously at the surface of the mercury bath and parallel to said moving surface.

2,323,043
MANUFACTURE OF VISIBLE INDEX OR RECORD STRIPS
Harry J. Hopkins, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Illinois
Original application October 27, 1941, Serial No. 416,652. Divided and this application July 24, 1942, Serial No. 452,246
1 Claim. (Cl. 117—4)



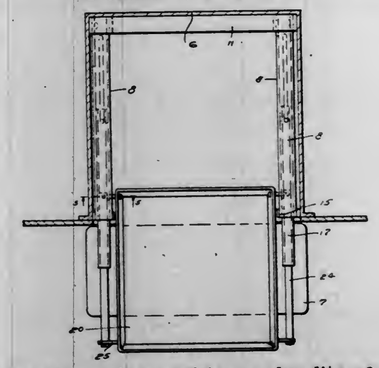
A method of making flexible visible index strips which comprises cutting a sheet of strip material into individual strips, depositing a film of marking material upon the cutting blades, and transferring said film from said blades to portions of said strips adjacent the lines of severance during the cutting of the strips.

2,323,044
GRAIN DRILL
William A. Hyland, Horicon, Wis., assignor to The Van Brunt Manufacturing Company, Horicon, Wis., a corporation of Wisconsin
Application June 19, 1941, Serial No. 398,794
5 Claims. (Cl. 111—54)



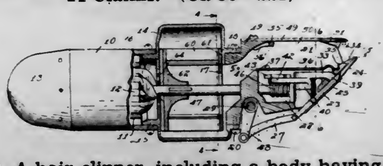
1. In a grain drill of the press wheel type, a frame, a pair of downwardly and rearwardly extending laterally outer frame bars rigidly fixed to the lateral end portions of said frame, a pair of downwardly and rearwardly extending laterally inner frame bars disposed adjacent one another and pivotally connected at their forward ends with the intermediate portion of said frame for independent limited lateral movement relative thereto, spring means connected between said frame and each pivoted frame bar for yieldingly resisting upward movement thereof and accommodating said limited lateral movement of the laterally inner bars, and a pair of press wheel units, each connected at one end with one of the rigid frame bars and at the other end with the associated pivoted frame bar, whereby the laterally inner ends of said press wheel units are free to move upwardly and downwardly independently of one another, relative to the outer ends for accommodating passage of the drill over uneven ground.

2,323,045
SLIDING TRAY FOR AUTOMOBILE COMPARTMENTS
James Henry Jackson, South Norfolk, Va.
Application November 22, 1941, Serial No. 420,144
1 Claim. (Cl. 45—77)



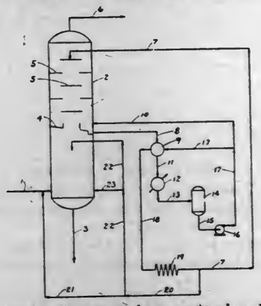
A tray support comprising a plurality of telescoping members arranged in parallelism at opposite sides of the tray, fixed tubular guides for said members, means attaching the tray to the members for sliding movement therewith, hangers for supporting the front ends of said guides, a U-shaped bracket including leg portions having means for extending said leg portions and adapted for bracing the bracket against opposite internal walls of a compartment in which the bracket is placed, and means for securing the rear ends of said guides to said bracket.

2,323,046
HAIR CLIPPER
Francis R. Jenkins, Des Moines, Iowa
Application March 16, 1942, Serial No. 434,921
14 Claims. (Cl. 30—221)



12. A hair clipper, including a body having an air passage, a cutter blade having comparatively long teeth, a co-operating cutter blade having shorter teeth and adjacent to one side of the inlet end of said air passage, a comb supported adjacent to the opposite side of said inlet end of the air passage, and means for creating a suction in said passage, the cutter and comb being so mounted and arranged that when the device is advanced over the hair to be shortened, with the comb in advance of the cutter teeth, with said long teeth and comb resting on the skin, so that the free end of the hair will be drawn into the comb by air currents and supported against entering the short cutter teeth until the ends of the hair have been drawn past said comb into said air passage, wherein the hair will enter said cutter and be severed into sections of lengths substantially equal to the distance between the comb and said cutter teeth.

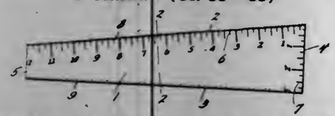
2,323,047
DISTILLATION
Joseph W. Jewell, Summit, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application June 4, 1940, Serial No. 338,687
8 Claims. (Cl. 196—71)



1. A method of removing entrained particles of bottoms product from distillate vapors passing upwardly through a distillation column when the quantity of condensate from said vapors flowing downwardly in said column is insufficient to effect such removal, the feed to said column being a multi-component mixture, which comprises increasing the liquid downflow in said column by introducing a wash liquid derived from and substantially in equilibrium with said distillate va-

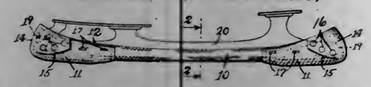
pors into the top of said column, the temperature of said liquid as it enters said column being high enough to prevent any substantial condensation of said vapors in said column, and collecting the liquid flowing downwardly in said column at an intermediate point of said column below the point of introduction of said wash liquid and withdrawing said collected liquid from said column.

2,323,048
PAPER HANGER'S TEAR PLATE
Alfred G. Johnson, Seattle, Wash.
Application November 22, 1941, Serial No. 420,142
1 Claim. (Cl. 33—83)



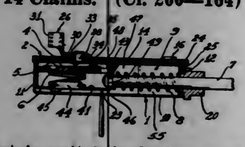
A tear plate for wall paper and the like comprising a relatively thin flat plate of sheet material, said plate being of quadrilateral shape presenting two straight non-parallel side edges and two straight parallel end edges, all edges being of different lengths, whereby said plate includes a right-angled corner, an obtuse-angled corner and an acute-angled corner for engaging wall corners, and minute serrations along one of the side edges for facilitating the tearing of wall paper thereagainst, the tapered shape of the tear plate permitting it to be readily carried in the pocket loop of a paper-hanger's apron.

2,323,049
SKATE SCABBARD
Alfred K. Johnson, Chicago, Ill.
Application June 12, 1941, Serial No. 397,672
2 Claims. (Cl. 280—11.38)



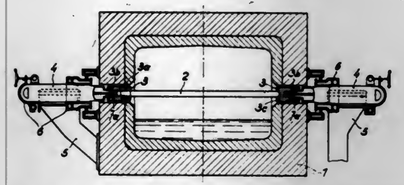
1. A skate scabbard comprising a flat flexible elastic strip having pockets at its ends adapted and arranged to receive and interlock with the point and heel of a skate runner, made from a single piece of flexible material different from that of the elastic strip and recessed at opposite sides near one end to form an end flap, said piece being doubled upwardly and said end flap being folded around the adjacent ends and secured to the sides thereof to form a snub end to facilitate walking without lateral turning of the skate on its point.

2,323,050
ELECTRIC SWITCH
Elmer E. Johnson, Bronson, Mich., assignor to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application January 30, 1941, Serial No. 376,635
14 Claims. (Cl. 200—164)



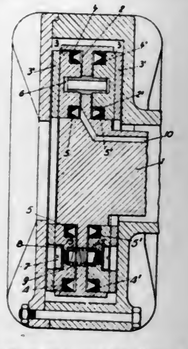
1. An electric switch including, a casing, a carrier carrying contacts secured to said casing, switch mechanism having a bridge adapted to cooperate with said contacts, resilient means for predetermining the position of said mechanism, and receiving means disposed entirely within the confines of said casing apart from said mechanism receiving and predetermining the position of a portion of said resilient means with respect to a part of said mechanism.

2,323,051
ELECTRIC FURNACE
Otto Junker, Lammersdorf, über Aachen, Erich Breuer, Strauch, Kreis Monschau, and Karl Knauff, Lammersdorf, über Aachen, Germany; vested in the Alien Property Custodian
Application October 28, 1940, Serial No. 363,202
In Germany May 20, 1938
8 Claims. (Cl. 13—20)



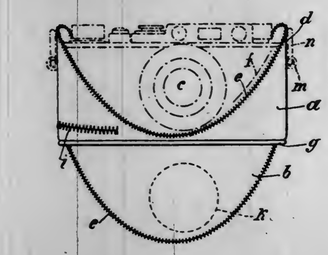
1. An electric furnace comprising a resistance heating rod, a water-cooled metal terminal connected to said rod at one end of the latter, a carriage disposed outside the furnace, current feed wires connected to said carriage, means on said carriage for detachably clamping said terminal in the carriage, and a stationary support in which said carriage is mounted with capacity for limited movement relatively to the furnace in a direction axial to the heating rod, said carriage having a conical bore surrounding and engaging a corresponding conical surface on the metal terminal, and the clamping means being arranged for pressing the terminal against said conical bore.

2,323,052
DISK BRAKE FOR USE IN MOTOR CARS, AIRPLANES, AND THE LIKE
Hermann Klaue, Berlin-Frohnau, Germany; vested in the Alien Property Custodian
Application August 22, 1940, Serial No. 353,644
In Germany February 22, 1940
5 Claims. (Cl. 188—152)



1. A fluid operated brake for a vehicle wheel comprising a substantially disk-shaped carrier having concentrically arranged annular recesses at both surfaces, two stationary annular friction braking elements axially slidably mounted in said annular recesses, each of said braking elements being provided with a frictional lining at its outer surface, a rotatable member to be braked enclosing said carrier and said friction braking elements, a space being provided between said friction braking elements and said carrier for admitting a fluid braking medium for shifting said friction braking elements apart from each other and for bringing them into frictional engagement with said rotating member, and packing rings having a portion bearing against said carrier for sealing said friction braking elements against the fluid braking medium, lips on said packing rings, a space being normally provided in the inoperative position of the brake between said carrier and said portion of the packing rings, whereby, when said friction braking elements are forced apart, said packing rings substantially do not slide along the recesses in said carrier.

2,323,053
QUICKLY READY POUCH FOR SNAPSHOT CAMERAS
Ernst Kupferschmid, Oberschwandorf, über Messkirch, Baden, Germany; vested in the Alien Property Custodian
Application December 27, 1939, Serial No. 311,113
In Germany June 16, 1939
9 Claims. (Cl. 95—86)

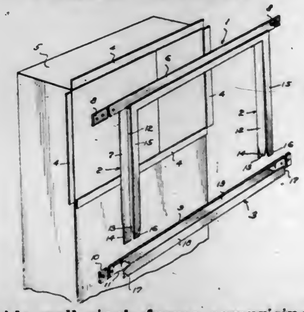


1. A quickly ready pouch for snap-shot cameras, comprising in combination with the pouch having front, rear and bottom wall portions a flap on the front side of the pouch extending approximately to the bottom of the pouch, said flap constituting the top wall of the pouch and the upper portion of the rear wall thereof, said flap adapted to be folded back on the rear side of the pouch down to a certain line to uncover the object lens, the view finder and knobs and handles on the camera, and a separable fastener attaching said flap on the front side of the pouch.

2,323,054
CONDENSATION OF AN IMIDE OF A DICARBOXYLIC ACID WITH A POLYAMINE
Hugo Kroeper, Heidelberg, Germany; vested in the Alien Property Custodian
No Drawing. Application January 22, 1940, Serial No. 315,038. In Germany January 11, 1939
3 Claims. (Cl. 260—2)

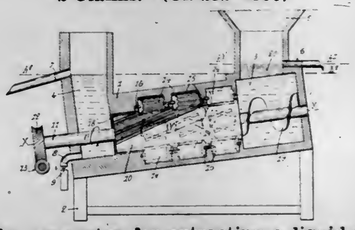
1. The process for the production of condensation products which comprises heating a cyclic imide of a dicarboxylic acid with an amine containing in the molecule at least two amino groups each of which contains at least one hydrogen atom directly attached to the amino nitrogen the imide and amino groups being the only reactant groups in the respective compounds.

2,323,055
SIDE WALL STACK FRAME
Melvin W. Krueger, Madison, Wis.
Application November 13, 1941, Serial No. 419,000
2 Claims. (Cl. 98—114)



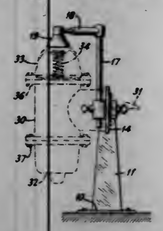
1. A side wall stack frame comprising upper, lower and side bars substantially channel-shaped in cross section, said bars including flanges of substantially U-shaped cross section for the reception of flanges on a stack head, the bight portion of the substantially U-shaped flange on the lower bar having slots therein, bendable tongues on the side bars engageable in the slots and adapted to be clinched on the U-shaped flange of the lower bar, and additional bendable tongues on the web portions of the side bars engageable beneath the web portion of said lower bar.

2,323,056
APPARATUS FOR THE EXTRACTION OF LIQUIDS SUCH AS PETROL AND ALL OTHER HYDROCARBONS CONTAINED IN JELLIES OR LIKE PRODUCTS
Jean François Pathus Edouard Labour, Paris, France; vested in the Alien Property Custodian
Application November 2, 1939, Serial No. 302,568
In France October 29, 1938
2 Claims. (Cl. 252—360)



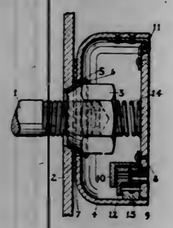
1. An apparatus for extracting a liquid forming part of a jelly comprising a cylindrical container having its longitudinal axis angularly disposed with relation to the horizontal and adapted to contain said jelly and a liquid having a greater density than that of the liquid to be separated, two discharge conduits communicating respectively with the bottom and with the upper part of said container and having each an outlet situated above the bottom of said container, the outlet of the conduit communicating with the bottom being lower than the outlet of the conduit communicating with the upper part of said container, and grinding means in said container situated below the lower of said outlets, said grinding means comprising a toothed cylindrical rotor rotatably mounted in said container, toothed pinions meshing with said rotor and rotatably mounted in recesses distributed on the inner periphery of said cylindrical container, and driving means adapted to rotate said rotor.

2,323,057
ASSEMBLING AND TESTING FIXTURE
William J. Lammerding, Roselle Park, N. J.
Application April 5, 1941, Serial No. 387,099
5 Claims. (Cl. 29—89)



1. An assembly fixture for receiving and holding together during assembly, two parts of a multi-part article of manufacture including a body and a part to be fastened to one end of said body under the force of a spring, said fixture including a base, means rotatably mounted on said base, a mounting plate being secured to said means, the plane of said mounting plate being parallel to the axis of rotation afforded by said means and being adapted to have the body of the article secured thereto, an elongated element, means slidably mounting said element on said means for movement in a plane parallel to said plate and being constructed to allow rotation of said elongated element on an axis parallel to the face of said plate, an extension on said elongated element supporting a member provided with an engaging surface disposed in a plane transverse with respect to the face of said plate to hold said part in position on said body with the spring under compression, said structure enabling said member to be moved to an inoperative position while a body is attached to said plate and then moved into operative position and lowered to compress the spring and clamp the part to said body, and means for holding said member in its lowered position.

2,323,058
NUT GUARD
René Lambert-Carez, New York, N. Y.
Application March 10, 1942, Serial No. 434,113
2 Claims. (Cl. 70—232)



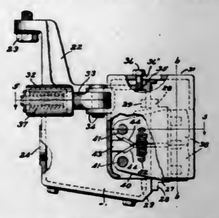
1. In a nut guard, a conical washer formed to loosely embrace the shank of a bolt and to be confined between a nut on said bolt and the object to be guarded, the wider part of said conical washer protruding over said nut, a housing having a perforated bottom through which the wider part of said conical washer extends and being formed to cap said nut, said housing having a flat pivoted lockable cover and being formed with walls extending at the sides of said nut and said sides being accessible for the manual operation of said nut if said cover is open, and a ring of fibrous material affixed around the perforation of the bottom of said housing at its outer side.

2,323,059
BUILDING CONSTRUCTION UNIT COMPRISING LIGHT-POLARIZING MATERIAL
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application November 7, 1940, Serial No. 364,672
1 Claim. (Cl. 88—65)



A structural assembly comprising, in combination, a plurality of stud and joist elements, means for positioning said elements to form a frame, said elements being provided with flange means for the reception within said frame of a wall closure element, a wall closure element positioned within said frame, said wall closure element comprising a plurality of sheets of sheet plastic material bonded together, one of said sheets being a light-polarizing element, another of said sheets being a fractional wave retardation element, said sheets being so positioned with respect to each other that the axes thereof are neither parallel nor perpendicular to each other, a light source held by said frame in a position to direct a beam of light through said wall closure element, and a light-polarizing element positioned between said source and said wall closure element, said wall closure element being positioned within said frame with said wave retardation element adjacent said light source.

2,323,060
CAR AND ELECTRIC TRAIN LINE COUPLER
Ernst A. Larsson, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application August 25, 1942, Serial No. 456,294
9 Claims. (Cl. 173—332)

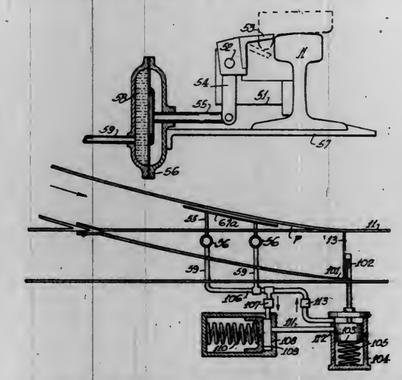


1. An electric car coupler comprising a frame-like member, means to support the member from a car coupler, means on the car coupler to couple with a companion car coupler to hold the electric coupler in coupled relation with a companion electric coupler, a plurality of spring-held contacts mounted on the front end of the frame member, the contacts biased to their forward position, a box-like member substantially enclosing the frame-like member and movable backward and forward relative to the frame-like member, means interposed between the said members whereby the box-like member is supported in said movable relation, the interposed means, including springs for biasing the box-like member to its forward position, the forward end face of the box-like member extends forward of the forward ends of the contacts, a pair of doors hinged to the side walls of the box-like member and having front walls covering the contacts when the box-like member is in its advanced position, cam means on the side face of the frame-like member, contact means on the doors adjacent their points of hinging, the cam means so positioned as to be engaged by the contact means and the doors forced open as the box-like member moves backward under pressure of the box-like member on a companion head when coupling thereby exposing the contacts for engagement by the contacts of a companion coupler.

2,323,061
ISOLATION OF DICARBOXYLIC ACIDS FROM THEIR MIXTURES
Wolfgang Lehmann, Cologne-Mulheim, and Rudolf Schröter, Leverkusen-Schlebusch, Germany; vested in the Alien Property Custodian
No Drawing. Application August 3, 1940, Serial No. 351,158. In Germany July 20, 1939
3 Claims. (Cl. 260—537)

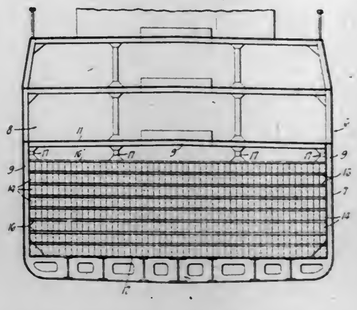
1. A process for isolating the individual acids from a mixture of about equimolecular quantities of 2 aliphatic dicarboxylic acids each having a chain of at least 7 carbon atoms directly connected with each other, which comprises adding to an aqueous solution of water-soluble neutral salts of such a mixture such an amount of an acid reacting substance selected from the group consisting of mineral acids and water-soluble acid salts thereof as is sufficient to set free one half of the carboxylic acid groups therein contained, removing the precipitated acid and then setting free the remaining carboxylic acid groups by the incorporation with the mother liquor of additional acid reacting substances.

2,323,062
RAILWAY SWITCHING SYSTEM AND APPARATUS
Matthew H. Loughridge, Bogota, N. J.; William R. Lockridge administrator of said Matthew H. Loughridge, deceased
Application July 21, 1941, Serial No. 403,666
14 Claims. (Cl. 246—321)



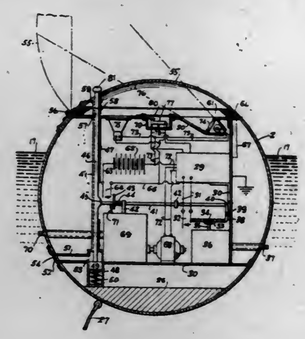
1. A railway switching mechanism comprising switch rails with a spring for maintaining said switch in a normal position, a storage cylinder with a spring controlled piston operated by a train approaching said switch in a trailing direction for storing energy and means connected with said switch rails for releasing said energy from said storage cylinder to operate the switch to the reversed position after its initial movement towards the reversed position.

2,323,063
SHIP
John Long, Oakland, Calif.
Application August 1, 1941, Serial No. 405,007
3 Claims. (Cl. 114—69)



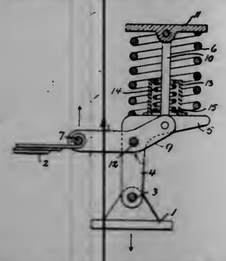
1. A ship comprising, a shell, a tier of air-tight containers each having side and top and bottom walls and set vertically and positioned in side by side relation in horizontal planes and stacked vertically in a plurality of layers, a plurality of removable spacers mounted between said layers and across the top of the uppermost layer and functioning to hold down the containers mounted therebelow when submerged and to support the containers mounted thereabove, and means for holding the spacers and containers together vertically.

2,323,064
FLOATING AUTOMATIC SIGNALING APPARATUS
Herman G. Lustfield, Brooklyn, N. Y.
Application March 30, 1939, Serial No. 264,934
2 Claims. (Cl. 177—311)



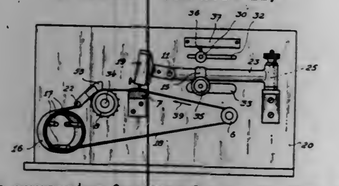
1. A releasable distress signaling apparatus for an airplane having the combination of a water-floatable shell, said shell encasing within it a radio transmitter, a generator for current, a wound spring motor for operating said generator, a detent for releasing said wound motor, a circuit for feeding said current to said transmitter, and a code transmitter with lead-in wires for said radio transmitter, a motor for actuating said code transmitter, means to arrest the actuation of said code transmitter, mechanism for releasing said detent and said arresting means, and said mechanism being actuated by the pressure of the water of floatation.

2,323,065
SPRING SHACKLE DEVICE
Børge Martins, Frederiksberg, Denmark; vested in the Alien Property Custodian
Application December 9, 1940, Serial No. 369,283
In Denmark December 8, 1939
2 Claims. (Cl. 267—17)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. A spring shackle device for the suspension of a vehicle spring to the chassis of a vehicle, comprising a lever, means for pivotally connecting this lever to the chassis, a second lever, a pivot pin connecting this second lever to the vehicle spring, a fulcrum pin intermediately interconnecting the said two levers at a point disposed in a plane through the said pivot pin at a right angle to the direction of load actuation, a plunger rod, means for pivotally attaching the one end of the plunger rod to the free end of the said second lever, an abutment plate attached to the other end of the plunger rod, an auxiliary spring interposed between the said abutment plate and an abutment surface on the free arm of the first mentioned lever, in such a position that when inactive the longitudinal axis of the plunger rod in elongation forms a chord to a circle described through the point of interconnection between the plunger rod and the second lever, with the fulcrum pin of the two levers as centre.

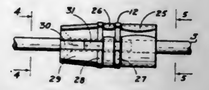
2,323,066
APPARATUS FOR THE PICKING UP AND REPRODUCTION OF SOUNDS
Alajos May, Szekesfehervar, Hungary; vested in the Alien Property Custodian
Application October 23, 1940, Serial No. 362,436
In Hungary October 24, 1939
3 Claims. (Cl. 274—11)



3. In apparatus for sound reproduction, a support for a coil formed in an endless ribbon comprising a series of smooth pins fixed in horizontal positions to enter and support the coil said pins being arranged obliquely relatively to the plane of the path of travel of the ribbon, whereby the running off direction of the ribbon is from the interior of the coil, an idler spaced from the coil support to have a loop of the ribbon extend from the inside of the coil beneath and around the idler to the outside of the coil, a ribbon driving mechanism over which the ribbon extending from the idler to the outside of the coil passes, an arm mounted at one end to swing on a vertical axis, a pick-up carried by the free end of said arm to engage the ribbon between the driving mechanism and idler, means actuated from said driving mechanism engaging said arm and causing slow swinging movement of the arm and pick-up as the ribbon passes beneath the pick-up, said means including a screw actuating the arm and detachably coupled to the driving mechanism, and means acting to uncouple said screw upon termination of the swing of the arm in one direc-

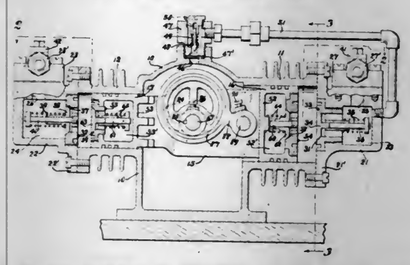
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2,323,067
PUSHER
Stoddard B. Martin, Lakewood, Ohio
Application April 8, 1941, Serial No. 387,476
14 Claims. (Cl. 29—62)



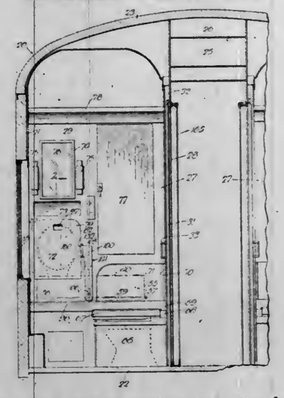
1. In a pusher for automatic screw machines and the like, a pusher shell, a bushing within the shell arranged to resiliently grip the stock to be fed, cooperating wedging surfaces on the shell and bushing arranged to engage and increase the grip of the bushing on the stock when the shell moves forwardly, cooperating abutment surfaces on the shell and bushing arranged to engage and slide the bushing over the stock when the shell moves rearwardly, and abutments on the shell and bushing located adjacent the rearward end of the bushing adapted to be brought into engagement when desired by rotation of said bushing in said shell and operable to prevent engagement of said wedging surfaces.

2,323,068
COMPRESSOR
Pietro Maniscalco, Chicago, Ill.
Application March 29, 1941, Serial No. 385,901
16 Claims. (Cl. 230—198)



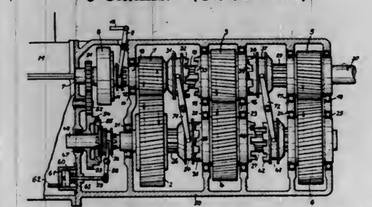
1. A compressor comprising a unitary cylinder casing and a piston unit therein, said piston unit including a slender body having a pair of integral oppositely extending pistons thereon provided each with an inner cross-wall and an outer valve member thus providing a valved end chamber and containing channel means extending thru the body and connecting said end chambers, said cylinder casing being adapted to house lubricant therein and containing integral cylinders at its opposite ends wherein the pistons reciprocate, a valved inlet head and a valved outlet head provided on the outer ends of these cylinders, a drive shaft provided with bearing means mounted in the opposite walls of the casing, for providing a closed casing, and means reciprocably connecting the shaft with the pistons and being operative in the lubricant in the casing.

2,323,069
RAIL CAR
Alexander E. McKinnon, Homewood, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application April 4, 1941, Serial No. 386,876
15 Claims. (Cl. 105—315)



1. In a room, the combination of a bed pivoted about a horizontal axis to permit raising and lowering of the bed between horizontal operative and vertical inoperative positions, a hopper in the room disposed relative to the bed so as to be rendered inaccessible when the bed is lowered, a pivoted washbasin in the room adapted to rotate from a horizontal operative to a vertical inoperative position, a locking device for holding the bed in its horizontal operative position and for locking the basin in its closed position at all times when the bed is lowered, said device comprising a movable lever engageable with the basin for locking same closed, an actuating member operatively connected to the lever and positioned in the path of the bed when the bed is moved between its two positions, and means on the bed cooperating with the actuating member for holding the bed in its horizontal position.

2,323,070
CHANGE SPEED GEAR
Gustav Meyer, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian
Application February 4, 1941, Serial No. 377,363
In Germany February 2, 1940
6 Claims. (Cl. 74—339)

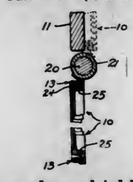


1. In a change speed gear with constantly meshing gear pairs and couplings adapted to get into engagement after one half of one of said couplings has overrun its other half, an auxiliary friction device, said device comprising a first member adapted to be rotated independently of the change speed gear by the main driving engine, a second member adapted to rotate with one of the rotating elements of said change speed gear, means for causing one of said members to rotate in the direction reverse to the normal direction of rotation of said other member, and means for momentarily bringing said two members into contact to cause the member adapted to rotate with one of the rotating elements of the change speed gear to rotate reversely to its normal direction.

2,323,071
DRAWING COMPOUND
Harley A. Montgomery, Highland Park, Mich.
No Drawing. Application October 14, 1940, Serial No. 361,119
8 Claims. (Cl. 252—46)

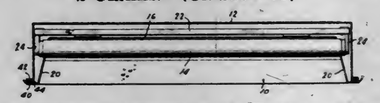
1. A drawing compound substantially free from mineral oil comprising an intimate mixture of a higher fatty acid and a product of vulcanization of a high viscosity fatty oil other than marine oils, the said drawing compound being characterized by having the property of forming at room temperatures a semi-solid continuous adhesive film when coated on a metallic surface and exposed to air.

2,323,072
FRAME FOR GLARE SHIELDS
Seizo Murata, San Francisco, Calif.
Original application February 18, 1939, Serial No. 257,093, now Patent No. 2,244,959, dated June 10, 1941. Divided and this application January 21, 1941. Serial No. 375,300
1 Claim. (Cl. 296—97)



A frame for a glare shield or the like comprising one frame member with an inclined surface and a second frame member with a complementary surface whereby a membrane of light filtering material may be stretched over the frame upon bringing the frame members together, and U-shaped locking members pivoted to one frame member and having a portion adapted to overlie the other to prevent separation of the frame members.

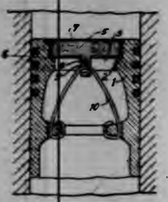
2,323,073
LIGHT REFLECTOR
Ralph B. Netting, Grosse Pointe, Mich.
Application December 30, 1940, Serial No. 372,305
2 Claims. (Cl. 240—78)



1. An electric fluorescent lamp comprising, in combination, a channel shaped reflector, a casing of general rectangular shape surrounding the back side of the reflector and enclosing the same in spaced relation to the base portion of the reflector, end plates on said reflector inclining downwardly and inwardly toward the base portion of the reflector providing a space between each end plate and the ends of the casing, a bracket extending the length of the reflector in the space between the base portion thereof and the casing, the opposite extremities of said brack-

et projecting beyond the ends of said base portion into positions opposite the spaces between the end plates and the ends of the casing, and electric terminal sockets for fluorescent tubes carried on the ends of the bracket and projecting into said spaces, said end plates provided with aligned apertures opposite the sockets into which the ends of a fluorescent tube may be advanced for attachment to said sockets.

2,323,074
PISTON HEAD
Franz Neugebauer and Edmund Hartmann, Munich-Allach, and Ludwig Wagenseil, Munich-Obermenzing, Germany; vested in the Alien Property Custodian
Application July 21, 1941, Serial No. 403,430
In Germany August 29, 1940
8 Claims. (Cl. 309—9)



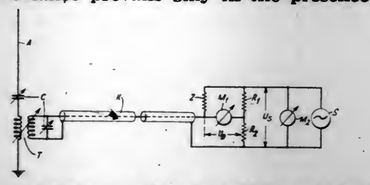
6. In a single-acting two-stroke internal combustion engine, a piston consisting of a piston body and a separable piston head provided with a cavity opening toward both front sides, the side turned toward the combustion space being provided with an annular abutment face surrounding the mouth of the cavity positioned at this side, said head having at the side turned toward the piston body a corresponding abutment face adapted to join in an airtight condition said abutment face of the piston body under the action of the gas pressure in the combustion space, said head being devoid of any fastening member.

2,323,075
PROCESS OF PREPARING THIURONIUM SALTS
Ludwig Orthner and Gerhard Balle, Frankfort-on-the-Main, Georg Dittus, Ludwigshafen-on-the-Rhine, and Hermann Wagner, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian
No Drawing. Application January 31, 1939, Serial No. 253,776. In Germany February 1, 1938
4 Claims. (Cl. 260—399)

3. The process of manufacturing thiuronium salts which comprises reacting in the presence of a liquid medium a member of the group consisting of thiourea, N-aliphatic thiourea, N-aryl thiourea, and N-araliphatic thiourea, and a hydrohalic acid and formaldehyde, with a compound selected from the group consisting of carboxylic acid amides and urethanes and containing at least one organic radical of at least 11 carbon atoms.

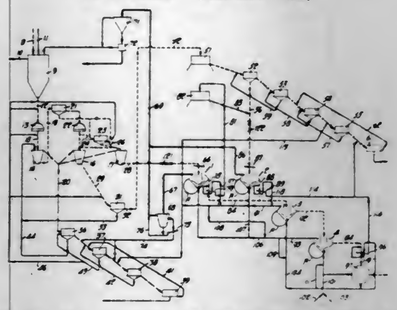
2,323,076
MEASURING ARRANGEMENT ADAPTED TO CHECK OR MEASURE MISMATCHING
H. Erich Paul, Berlin, Germany; vested in the Alien Property Custodian
Application May 13, 1941, Serial No. 393,224
In Germany February 9, 1940
8 Claims. (Cl. 171—95)

1. Measuring arrangement adapted to check-up or measure the mismatching of a transmission line and a load, especially an antenna, characterized by a bridge arrangement one arm of which includes the input of the transmission line and which is of such dimensions that a bridge balance prevails only in the presence of



proper matching, one diagonal of the said bridge containing a potential measuring instrument, while across the other diagonal of the bridge is impressed an alternating potential of operating frequency.

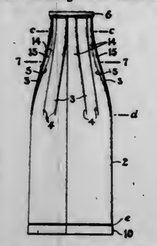
2,323,077
STARCH MANUFACTURING PROCESS
Albert Peltzer, San Francisco, Calif., assignor to Merco Centrifugal Co., San Francisco, Calif., a corporation of California
Continuation of applications Serial No. 651,701, January 14, 1933, and Serial No. 741,528, September 11, 1934. This application November 5, 1942, Serial No. 464,632
48 Claims. (Cl. 127—68)



36. In the process of obtaining starch from corn in which the corn is steeped and subjected to germ and coarse slop separations yielding separate starch milk streams; the improvement which comprises subjecting the starch milk from the germ sepaartion to a centrifuging operation to remove the gluten from the starch; subjecting the starch milk from the coarse slop separation to a separate centrifuging operation to remove the gluten and fine slop; dewatering the starch, gluten and gluten and slop magmas from said centrifuging operations and using water therefrom having relatively high content of solubles for steeping corn as the process proceeds and water of lesser solubles content at the later stages of the process.

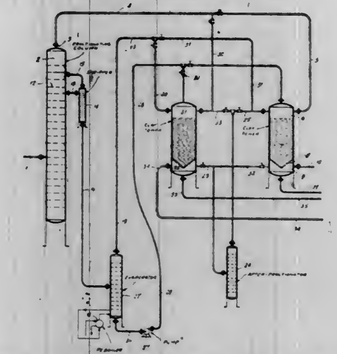
2,323,078
PAPER BOTTLE
William Pelzer and Harold H. Pelzer, New York, N. Y.
Application April 11, 1940, Serial No. 329,052
5 Claims. (Cl. 229—4.5)

1. A blank for a bottle of the class described, having a series of longitudinally extending scorings at the upper part, said scorings comprising a series of approximately parallel scores in pairs, between a series of ogee curved scores in pairs adjacent each pair of parallel scores, starting at or near the inner ends of the parallel lines and diverging outward to and equally spaced from the parallel lines at the edge of the blank, a deep bead extending laterally across the width of the



blank near the bottom, and a scoring extending laterally across the width of the blank near the bottom edge below said deep scores and uniformly spaced therefrom.

2,323,079
METHOD FOR TREATING GASOLINE
John Joseph Allinson, John Ward Poole, and Francis Ralph Grant, El Dorado, Ark., assignors to Lion Oil Refining Company, El Dorado, Ark., a corporation of Delaware
Application March 8, 1940, Serial No. 322,934
8 Claims. (Cl. 196—96)



1. The method of clay-treating cracked gasoline in the vapor phase, which comprises dividing the raw cracked gasoline into a fraction of relatively high volatility, and a fraction of relatively low volatility, passing the vapors of said fraction of relatively low volatility through at least one bed of clay, the catalytic power of which is substantially expended, and through at least one bed of clay of relatively great catalytic potency, passing the vapors of said fraction of relatively high volatility only through at least one bed of clay of relatively great catalytic potency, removing polymers from all of said beds of clay, and recovering the combined vapors of both fractions as a single product.

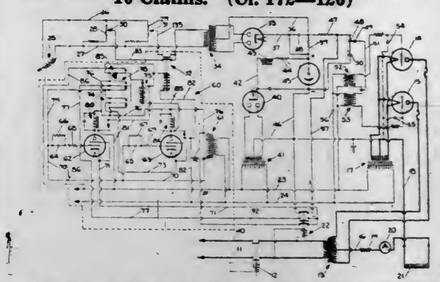
2,323,080
LEVER TYPE BOTTLE OPENER
Charles E. Anderson, Nashville, Tenn.
Application January 3, 1941, Serial No. 373,041
5 Claims. (Cl. 81—3.46)

1. In a bottle opener, a thin metal strip bent to comprise a top portion to extend entirely across a bottle cap, toes projecting downwardly from the top portion to engage the side of the cap, a front plate portion having prongs to engage under the edge of the cap at the side opposite the toes, a handle depending from the front plate and lying along the neck of the capped bottle, and at least



one longitudinal stiffening rib extending along the top portion and the front plate and handle, said rib being cross-slotted at a place below the location of the prongs to provide a bendable portion of the strip as a hinge for the purposes described.

2,323,081
VIBRATION AMPLITUDE CONTROL SYSTEM
Clyde W. Baird, Columbus, Ohio, assignor to The Traylor Vibrator Company, a corporation of Colorado
Application March 28, 1942, Serial No. 436,699
10 Claims. (Cl. 172—126)

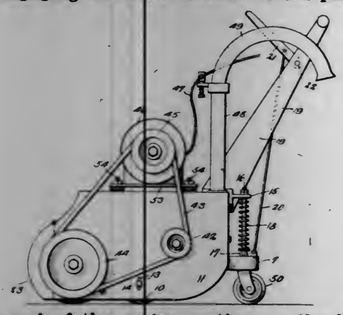


4. In an electrical system, an electromagnetic feeder having a motor, means responsive to the feed rate of said feeder for maintaining it substantially constant at either of two preselected values, and timer means operative automatically to maintain said feed rate at one of said values for a predetermined time and then change it to the other value, said timer means including relay means operable to two different positions, circuits including a pair of electron tubes adapted to be successively energized, the circuits being such that when one tube is energized the relay means is in one position and when the other is energized said relay means is in the other position, each tube including a grid circuit having a condenser therein which is charged while said tube is de-energized and after the charge leaks off in a predetermined time said tube becomes energized to operate said relay means.

2,323,082
FLOOR SURFACING MACHINE
Edwin L. Ballard, Lansing, Mich.
Application December 10, 1941, Serial No. 422,445
1 Claim. (Cl. 51—176)

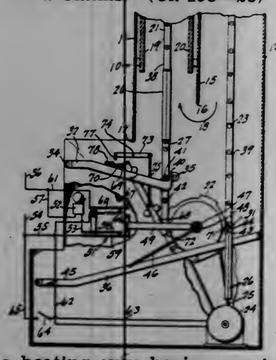
A floor sanding machine comprising a wheel-supported bearing frame, a sanding drum housing mounted for pivotal tilting movement on the bearing frame, a sanding drum mounted at the forward end of said sanding drum housing, the rear end of the bearing frame extending beyond the rear of the sanding drum housing, a plate extending rearwardly from the sanding drum

housing and disposed adjacent to the top of said housing, said plate having an opening formed therein, a bolt pivotally connected to the bearing frame and being disposed within the opening, the upper end of the bolt extending beyond said plate, a nut on the upper end of the bolt adapted to rest on the plate, restricting upward movement of the drum housing with respect to said bearing frame, a spring coiled around the bolt and engaging the lower surface of the plate, the



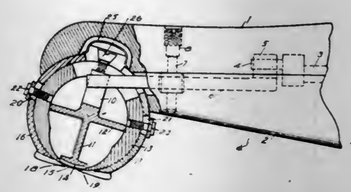
lower end of the spring resting on the bearing frame, normally urging the plate and drum housing upwardly, whereby the sanding drum is urged into engagement with the floor surface under treatment, handles mounted on the drum housing, and a control rod connected with the bearing frame and adapted to operate to elevate the sanding drum to its inactive position by tilting the sanding drum housing.

2,323,083
FEED AND DISCHARGE ARRANGEMENT FOR CONVEYERS
Kenneth E. Bemis, Oakland, Calif.
Application December 7, 1942, Serial No. 468,322
2 Claims. (Cl. 198—26)



1. In a heating oven having a pair of spaced, vertically traveling conveyer chains each having inwardly projecting carrier pins, and carriers each having a spanning member with an ear projecting from each end and terminating at the outer ends in depending portions for cooperation with said pins for transportation of the carriers through the oven: feeding means for selectively feeding said carriers to said chains comprising; a pair of downwardly inclined rails internally spaced a distance slightly clearing the sides of the carriers when the carriers are suspended thereon and therebetween, and externally clearing said pins, and the depending portions of said ears with the rails functioning as guides and retainers between the sides of the carriers and said depending portions to keep the carriers on the rails, and including stop means normally stopping and retaining all carriers against delivery down said inclined rails and including means extending into the path of travel of said pins and actuated thereby to release a first carrier for delivery down the inclined rails and simultaneously stop and retain all following carriers until said first carrier has passed beyond the range of said stop means; said stop means comprising, a first U-shaped member with the depending legs thereof spanning the rails and slidably mounted in downwardly inclined position with the ends of the legs normally located in the path of travel of said pins and with the cross-member of said first U-shaped member normally located in the path of carriers supported at the upper end of the rails and functioning as a stop therefor; a second U-shaped member having its cross-member spanning said rails and located in advance of the cross-member of said first U-shaped member at a distance substantially equal to the width of the spanning member of the carrier and normally clearing said carriers and actuated by said first U-shaped member for moving said cross-member of said second U-shaped member into stop and retaining position for following carriers when said cross-member of said first U-shaped member is moved out of stop and retaining relation to the first carrier.

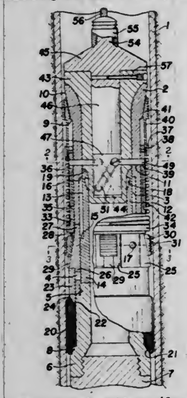
2,323,084
ELECTRICAL SHAVING DEVICE
Emil G. Berg, Erie, Pa.
Application March 6, 1941, Serial No. 382,010
14 Claims. (Cl. 30—43)



6. An electrical dry shaver, in combination, a cylindrical head comprising a slotted cylindrical member, adjustable secondary guard members having at their adjacent lateral edges thereof slots to coincide with the slotted portion of said cylindrical head and a cutter member movable internally of the slotted portion of said cylindrical head.

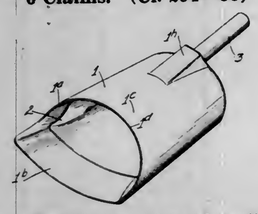
2,323,085
RETRIEVABLE COMBINATION BRIDGE PLUG AND PACKER
Bowen Monroe Davis, Laird Hill, Tex.
Substitute for abandoned application Serial No. 271,528, May 3, 1939. This application November 7, 1940, Serial No. 364,703
5 Claims. (Cl. 166—12)

1. A retrievable device adapted to be set in an oil well casing, comprising a body formed with a plurality of longitudinal slots, setting blocks slidably mounted within said slots and carrying gripping members adapted to engage the inner surface of an oil well casing, a sleeve within said body having limited sliding movement relative thereto, and contacting the inner surface of said blocks, and adapted to be moved to a position for clearing said blocks, and a shear pin connecting said sleeve to said body, to hold said sleeve



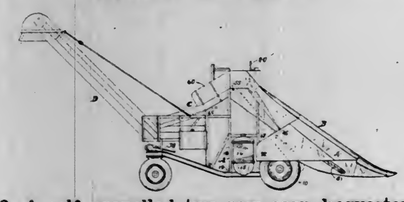
in a position for contacting the inner surfaces of said setting blocks.

2,323,086
INCENDIARY BOMB HANDLING DEVICE
John H. Doak, Los Angeles, Calif.
Application October 7, 1942, Serial No. 461,117
6 Claims. (Cl. 294—55)



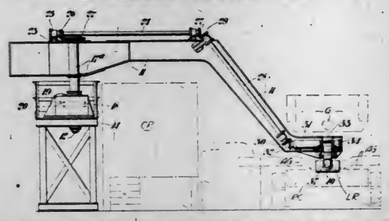
1. In a means of the class described, a scoop member open at one end and having a handle at its opposite end, and a liner removably carried in the scoop, the side walls of the liner being spaced from the walls of the scoop member to provide an air space between the liner and the scoop.

2,323,087
SELF-PROPELLED CORN HARVESTER
Charles E. Everett, Racine, Wis., assignor to The Massey-Harris Company, Racine, Wis., a company of Maryland
Application August 14, 1942, Serial No. 454,807
4 Claims. (Cl. 56—18)



3. A self propelled two-row corn harvester of the class described, comprising in combination a chassis frame having side members and an axle housing mounted on the forward ends thereof, said housing having axles, carrying and driving wheels and a differential, guiding and carrying wheels mounted on the rear end of said chassis, a vertically extending supplemental frame secured to the forward ends of said side members, an engine mounted within said supplemental frame and positioned a short distance in rear of said axle housing and having an operating connection to said differential, two spaced pairs of snapping rolls, their rear ends being positioned between the vertical plane of the inside edges of said carrying and driving wheels and having gathering means, a longitudinally centrally positioned elevator, the forward end being positioned between the rear ends of said pairs of snapping rolls and being adapted to receive the ears of corn therefrom, said elevator extending upwardly and rearwardly, said snapping rolls, gathering means and elevator being mounted on the forward end of said supplemental frame, a longitudinally arranged shucking unit secured to said chassis frame and in rear of the delivery end of said elevator, means adapted to deliver the ears of corn from the elevator on the forward end of said shucking unit by gravity, operating connections from said engine to said snapping rolls, elevator and shucking unit, an operator's platform positioned adjacent one side of the rear end of said elevator and at a height whereby the operator can view the operation of the gathering means, snapping rolls, elevator and shucking unit, means on said platform having an operating connection with said guiding and carrying wheels, means mounted on said platform associated with said last engine operating connection, whereby the operator, from his position on the platform, may control all of the operating parts of the harvester.

2,323,088
MECHANICAL ARM
Newton F. Foner, Pittsburgh, Pa.
Application December 28, 1940, Serial No. 372,130
11 Claims. (Cl. 212—41)



1. A mechanical arm including a base, a fixed post, a fixed bevel gear mounted at the upper end of said post and held against rotation, a hollow post rotatably mounted and surrounding the fixed post, a bevel gear pinion rotatably mounted on said hollow post and meshing with said fixed bevel gear whereby said bevel pinion is rotated upon rotation of said hollow post, means for rotating said hollow post, a girder arm rigid with said hollow post and extending outward to one side of said hollow post from the upper end thereof, a load supporting arm pivotally carried at the end of said girder arm and extending outward to one side of said girder arm, actuating means for raising and lowering said pivoted load carrying arm in predetermined timed relation at predetermined points to any one of a number of positions and for predetermined periods in the path of movement of said girder arm between stations, said actuating means for said pivoted load supporting arm including a driving connection between the fixed post and the hollow rotatable positively driven post and dependent upon relative movement between the fixed post and the rotatable positively driven post for the actuating means and driving connection for effecting and controlling the movement and position of said pivotally supported load carrier arm.

2,323,089
ELECTRICAL HEATING ELEMENT
Basil Horsfield, Pittsburgh, Pa., assignor to Edwin L. Wiegand, Pittsburgh, Pa.
Application July 25, 1940, Serial No. 347,430
17 Claims. (Cl. 201—64)



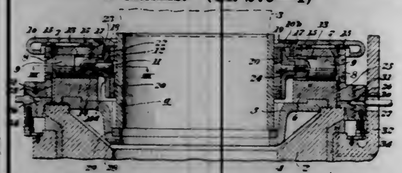
6. An embedded-resistor electric heating element comprising a body of embedding material a major percentage of which is granular electrical-insulating refractory material approximately 7 to 30% of which is mullite.

2,323,090
DISPLAY DEVICE
George F. Ireland, Washington, D. C.
Application May 29, 1941, Serial No. 395,887
10 Claims. (Cl. 41—12)



1. A display device of the character described having in combination a wreath frame consisting of an annular body having parallel annular flanges extended outwardly from said body and at an angle thereto and so that one flange overhangs the other, an annular ornament-supporting means separate from said body and removably located between said flanges, and means extending across the space between said flanges and engaging opposite flanges for retaining the ornament-supporting means in position.

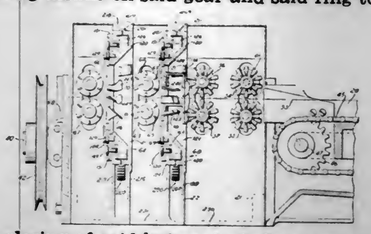
2,323,091
CHUCK
Harry M. Johnston and George Sneddon, Jr., McKeesport, Pa., assignors to National Tube Company, a corporation of New Jersey
Application March 24, 1942, Serial No. 436,038
9 Claims. (Cl. 279—4)



1. In a chuck of the character described, the combination with a plurality of jaws, of means for initially simultaneously actuating some of said jaws to engage and center the work, and separate means for simultaneously actuating all of said jaws to grip the work.

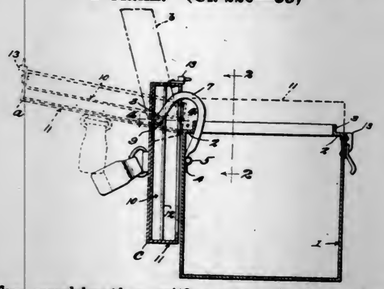
2,323,092
UNIVERSAL CORN CUTTER
Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application June 23, 1941, Serial No. 399,337
26 Claims. (Cl. 130—9)

1. In combination, a gear, a plurality of knives pivoted thereon, means to support said gear for rotation, means including a ring rotatable with respect to said gear to equalize the pivotal movement of said knives, spring means to urge said ring in a direction to close said knives, and cooperating means on said gear and said ring to limit



the closing of said knives, including a finger slidable in said ring, the tip of said finger being disposed in the path of an obstruction on said gear, and a screw to adjustably slide said finger.

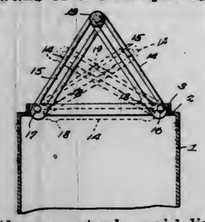
2,323,093
PORTABLE RECEPTACLE
Joseph H. Levin, Washington, D. C.
Application October 11, 1941, Serial No. 414,674
1 Claim. (Cl. 220—38)



The combination with a receptacle and a lid therefor, of goose necks hingedly connected at one end to the inner side of one wall of the receptacle and positioned to straddle and bear against the inner side of said wall when at one limit of their movement and to lie within the receptacle when at the other limit of their movement, guides within the lid supported by and slidable relative to the goose necks, means for holding the goose necks against separation from the guides, yieldable friction means carried by the goose necks for restraining sliding movement of the lid relative to the goose necks, said goose necks and guides being positioned to support the lid in a substantially horizontal position back of the upper portion of the receptacle and in an upstanding position back of the receptacle.

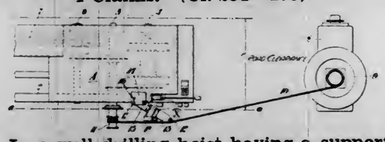
2,323,094
HANDLE FOR RECEPTACLES
Joseph H. Levin, Brooklyn, N. Y.
Original application October 11, 1941, Serial No. 414,674. Divided and this application January 23, 1943, Serial No. 473,371
2 Claims. (Cl. 220—94)

1. The combination with a receptacle, of opposed pairs of longitudinally slotted links pivotally connected to the inner sides of opposed walls of the receptacle, the links of each pair being extended in opposite directions respectively from their pivots, means for supporting the links normally in substantially horizontal positions below the top of the receptacle, and a member slidably mounted at its ends within the slots in the respective pairs into position adjacent either of two opposed walls of the receptacle and into po-



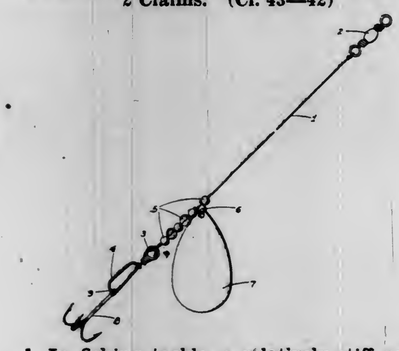
sition above the receptacle, said links constituting the sole connection between said member and the receptacle.

2,323,095
CATLINE APPARATUS FOR HOISTS
August R. Maier, Oil City, Pa., assignor to Oil Well Supply Company, a corporation of New Jersey
Application May 13, 1941, Serial No. 393,272
4 Claims. (Cl. 254—176)



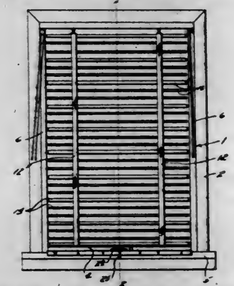
2. In a well drilling hoist having a supporting frame and including a projecting shaft, a cathead mounted on said shaft and projecting from the driller's side of the hoist, said cathead being readily removable from the shaft to provide road clearance, a cathead guard adjustably mounted on said side of the frame between the cathead and the driller's position, said guard including a pair of vertically spaced brackets, a vertical roller supported therebetween, said brackets being pivotally secured to the frame for horizontal swinging movement for selectively positioning the roller in relation to the cathead and the driller's position, and means for securing the brackets in adjusted position, said brackets being proportioned and with said roller being movable to lie in retracted position within the outermost extent of the shaft for said cathead.

2,323,096
FISHING TACKLE
Kenneth A. McDowell, Chico, Calif.
Application May 19, 1941, Serial No. 394,079
2 Claims. (Cl. 43—42)



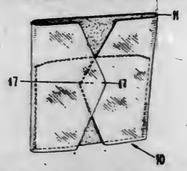
1. In fishing tackle, a relatively stiff resilient leader, a hook-connecting element rigidly secured on one end of the leader whereby said element and adjacent portion of the leader remain in substantial longitudinal alinement, a hook having a rigid shank directly and non-rigidly connected with said element, a spinner blade, and means mounting said blade for rotation about the leader above said element; said means being disposed on the leader a distance above the element greater than the length of the hook, there being beads threaded on the leader and occupying the length thereof, from the element upward to said means.

2,323,097
WINDOW GUARD
Miles S. McDowell, Lexington, Ky.
Application November 23, 1942, Serial No. 466,646
4 Claims. (Cl. 160—172)



1. A window guard of the character described comprising a frame structure for mounting in a window frame, a Venetian blind unit mounted for raising and lowering in said frame structure, vertical guides in the frame structure, shafts on certain of the slats of the Venetian blind unit operable in said guides, and means engageable with said shafts for securing the Venetian blind unit in lowered position.

2,323,098
POLISHING DEVICE
Louis Mintzes and Alvin Mintzes, Brooklyn, N. Y.
Application July 13, 1942, Serial No. 450,684
3 Claims. (Cl. 15—209)



1. In a combined shoe wiping and polishing device, comprising an elongated single layer strip of body fabric having a nap surface, the surface opposite said nap surface having two superposed layers of fabric stitched thereto at three side edges and forming a pocket between them, the opening to said pocket facing in a direction perpendicular to one lengthwise edge of said strip and being considerably spaced away from said lengthwise edge, said pocket terminating at the opposite lengthwise edge of said strip, the depth of said pocket being less than the width of said strip, said nap surface in extended service form being adapted for wiping and polishing shoes and after use being soiled with shoe polish, said

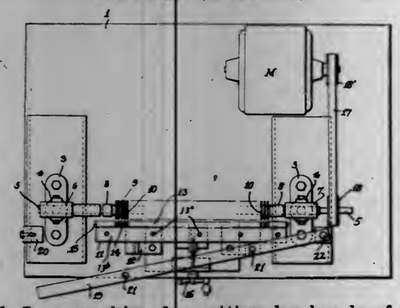
device having two layers of fabric between said nap surface and the clean interior surfaces of said pocket, said double layer of fabric preventing said polishing material from penetrating to said clean interior surfaces, said pocket when turned inside out after folding the lengthwise end portions of said strip in superposed relation causing said folded strip to be partly folded into concealment therein, whereby upon refolding the non-concealed portion of said body fabric in a crosswise direction and inserting said refolded fabric into said pocket, said soiled surface is concealed and clean outer surfaces are exposed all around said doubly folded device in pocket size form and sufficiently clean to be suitable for carrying in a pocket of a garment, said refolded portion causing also the outer edge of said soiled nap surface to be fully concealed at said pocket opening.

2,323,099
TUBE FITTING
Walter Evans Patten, Catonsville, Md.
Application December 5, 1941, Serial No. 421,817
1 Claim. (Cl. 285—86)



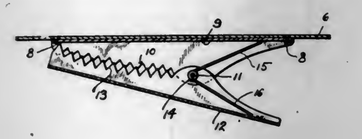
In a coupling for a thin walled tube subjected in use to freezing and thawing temperatures, a tube having a flanged end, a fitting having a threaded surface, a beveled end portion forming a seat and an intermediate portion reduced in diameter with respect to the threaded surface and located between the same and the beveled end portion, and a nut having a threaded surface to engage the threaded surface of the fitting and a beveled surface to engage the flanged end of the tube and clamp the same against the beveled end portion of the fitting so as to form a seal, a portion of the surface of the nut cooperating with the portion of reduced diameter of the fitting to form an expansion channel therebetween, and said nut being provided with radial openings to connect said channel with the atmosphere, the said channel and openings being arranged on the inner side of said seal and between the same and the engaged threaded surfaces of the fitting and nut.

2,323,100
MACHINE FOR CUTTING LEG BANDS
Edward John Powell, Kansas City, Mo.
Application October 15, 1941, Serial No. 415,126
6 Claims. (Cl. 29—70)



1. In a machine for cutting leg bands of the type described, the combination of a rotatable shaft, means for driving same, a multiplicity of circular saw blades mounted on the rotatable shaft, means for spacing the saw blades a like short distance apart, a leg band holding tube having slots corresponding in position with and spaced to receive the correspondingly positioned saw blades without frictional contact therewith and adapted to receive a leg band tube of light material such as aluminum, a metal plate to which said leg band holding tube is rigidly affixed, and means for moving said tubes toward and from the circular saw blades.

2,323,101
FISH SCALING DEVICE
Clara Schirmer, Rib Lake, Wis.; Francis P. Schaack administrator of said Clara Schirmer, deceased
Application October 26, 1942, Serial No. 463,385
1 Claim. (Cl. 24—253)

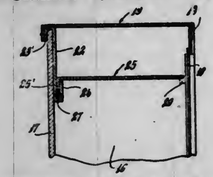


A fish scaling device comprising a substantially triangular shape base plate having a supporting element receiving aperture adjacent its apex, a substantially U-shape stationary jaw secured to the base plate adjacent the base portion of the triangle, sets of teeth formed on the sides of the stationary jaw to one side of a center line passing through the base plate and lying on inwardly directed arcuate lines, a substantially U-shape pivoted jaw mounted on the stationary jaw between the sets of teeth thereof, sets of teeth formed on the sides of the pivoted jaw and lying on outwardly directed arcuate lines and in opposed relation to the teeth on the stationary jaw, a pivot pin securing the jaws together and a wire spring mounted on the pivot pin with its opposite ends bearing against the stationary and pivoted jaws to close the same.

2,323,102
PROCESS OF MAINTAINING THE ORIGINAL CHARACTERISTICS OF SUBSTANCES
Milfred Lawson Staples, Toronto, Ontario, Canada, assignor to Ontario Research Foundation, Toronto, Ontario, Canada
No Drawing. Application December 16, 1940, Serial No. 370,346
3 Claims. (Cl. 99—135)

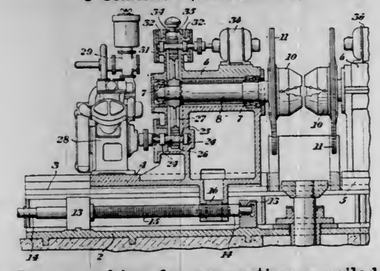
1. The process of maintaining the original freshness of chewing gum, which consists in maintaining the moisture content of the gum substantially constant by storing it in a substantially air-tight enclosure, and exposing the atmosphere in said enclosure to a saturated aqueous solution of a metallic salt which does not give off noxious fumes and which has the characteristic of maintaining the atmosphere in substantial moisture equilibrium with the gum within a normal range of temperatures by increasing the moisture content of the atmosphere at higher temperatures and reducing the moisture content of the atmosphere at lower temperatures.

2,323,103
KNOCKDOWN CABINET OR THE LIKE
Rafael Triana, New York, N. Y., assignor to Mortimer A. Gersten, Lee Gersten, and Louis Gersten, copartners doing business as Gersten Brothers, New York, N. Y.
Application November 24, 1942, Serial No. 466,712
7 Claims. (Cl. 312—144)



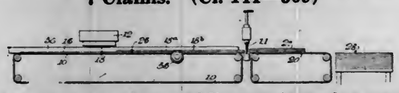
7. In combination with a cabinet including walls and a separate top cover, a bracket comprising a body member having a shelf supporting means at its lower end; said bracket being hinged at its upper end to the cover and adapted to be swung to lie adjacent said cover when the cabinet is to be in knock-down condition and to depend from the cover within the cabinet when the cabinet is in erected condition, a sheet shelf member supported at an edge thereof by the shelf supporting means, and means extending within the cabinet adapted to support the shelf member along another edge thereof, whereby the shelf member is maintained in use position.

2,323,104
UNCOILER
Patrick Henry Washam, Jr., Pittsburgh, Pa.
Application June 6, 1942, Serial No. 446,106
3 Claims. (Cl. 242—78)



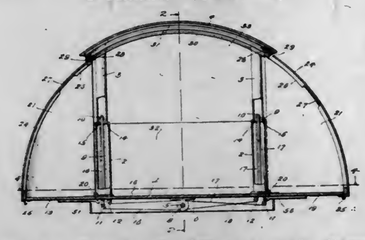
1. In a machine for supporting a coiled strip during an uncoiling operation, in combination, a rotatable coil-engaging means, a pump having a driving connection with said rotatable coil-engaging means, and a motor having a driving connection with said rotatable coil-engaging means to effect positive rotation of said coil, said motor also acting as a flywheel to absorb the pulsations of said pump.

METHOD OF ASSEMBLING PLYWOOD
2,323,105
Arthur R. Welch, Hoquiam, Wash.
Application December 13, 1939, Serial No. 309,086
7 Claims. (Cl. 144—309)



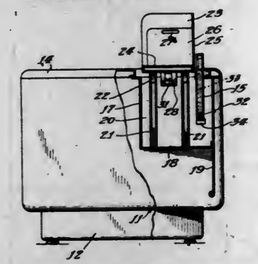
1. A process of assembling rectangular component plies required to make plywood panels, including glue coated core plies and uncoated face plies, which comprises continuously depositing in a moving line a succession of uncoated plies with the grain substantially parallel to the direction of movement of the line and with the ends of successive plies contiguous to each other, continuously depositing on said line of uncoated plies a succession of edge-abutted core plies of single thickness having both faces glue coated, having the grain transverse to the direction of movement of the line, and being substantially equal in length along the grain to the width of the uncoated plies and arranged to overlap the contiguous ends thereof by a substantial amount, severing units from the lines of plies so formed by cutting the same on lines between the contiguous ends of the uncoated plies, and superposing upon the glue coated core plies an additional uncoated ply with the grain parallel to the grain in the first-mentioned uncoated plies and with its edges substantially registered with the corresponding edges of the first-mentioned ply.

2,323,106
COLLAPSIBLE BUILDING
Roy Donald Whiteman, Piedmont, Kans.
Application June 16, 1942, Serial No. 447,259
3 Claims. (Cl. 20—2)



1. In a collapsible building, a main floor, telescopic posts each comprising an upper section, and a lower section secured to the floor, a roof secured to the upper post sections, means for extending the posts to raise the roof, auxiliary floor pieces hinged to the outer portions of the main floor, end closures secured to the auxiliary floor pieces and having curved outer edges, side walls having their lower edges hinged to the outer edges of the auxiliary floor pieces and curved to conform to the curved edges of the end closures, curved guides carried by the roof and receiving the ends of the side walls slidably, end walls comprising slidably associated upper and lower members, the upper members being secured to the roof and the lower members being secured to the floor, and mechanism operated by said means to swing the auxiliary floor sections upwardly and carry the side walls and the end closures inwardly.

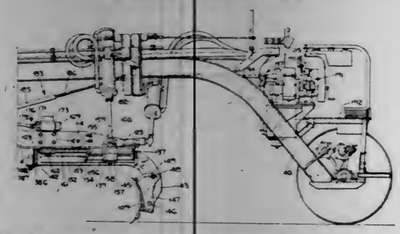
2,323,107
OFFICE DESK
Bertha C. Wilson, Evansville, Ind.
Application May 17, 1941, Serial No. 393,905
1 Claim. (Cl. 45—70)



A desk provided with a disappearing receptacle, comprising a table having a rectangular opening therein, a receptacle housing communi-

cating with said opening and comprising side and end walls depending from the margins of said opening and a bottom horizontal wall, a pair of parallel vertical guide grooves disposed on each end wall and extending to said bottom wall, a receptacle having a horizontal bottom wall and vertical end walls, a pair of guide rails disposed on each of said last end walls in sliding engagement with said guide grooves, with said rails extending below said last bottom wall for engagement with said first bottom wall to limit downward movement of said receptacle in said housing, a balancing device supported by said table adjacent each end wall of said housing and operatively connected with said receptacle for maintaining same in raised position, other guide grooves in the rear end portions of said first end walls rearwardly of said receptacle and parallel with the first mentioned guide grooves, and a lid having pivot pins engageable in said other guide grooves for vertical sliding movement of said lid in uncovering said opening and for pivotal movement thereof to a horizontal position in covering said opening.

2,323,108
ROAD GRADER
Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio
Original application November 23, 1938, Serial No. 241,979. Divided and this application April 29, 1941, Serial No. 390,953
8 Claims. (Cl. 37—156)



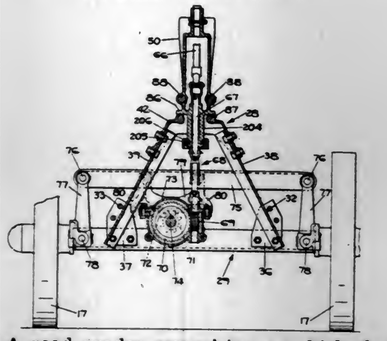
2. As an article of manufacture, a road grader drawbar having on its bottom at its rear end two downwardly facing concentric bearings both in the same plane and surrounding a central opening adapted to receive a king pin for pivotally supporting a grader blade circle.

2,323,109
ROAD GRADER
Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio
Original application March 12, 1940, Serial No. 323,586. Divided and this application May 1, 1941, Serial No. 391,369
1 Claim. (Cl. 37—156)



A road grader comprising the combination with a vehicle frame, of a post at the front end thereof, a clevis secured to said post, drawbar mechanism comprising an eye interlooping said clevis for flexibly connecting the front end of said drawbar to said post, and mechanism on the post in position to act as an abutment to limit movement of said clevis relatively to said post when secured thereto, said abutment mechanism being provided with an upright groove to receive said eye and to confine the latter to lateral swinging movements and upright circular movements relatively to said post.

2,323,110
ROAD GRADER
Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio
Original application March 12, 1940, Serial No. 323,586. Divided and this application May 3, 1941, Serial No. 391,779
5 Claims. (Cl. 37—157)



1. A road grader comprising a vehicle frame comprising spaced-apart beams at the forward end thereof, a front post, an integral rearward extension from said post between the front ends of said beams and welded thereto, a front wheel steering unit comprising an axle tree with a bolster rigidly mounted thereon, a circular flange on said post and resting on said bolster, the lower end of said post extending downwardly through an opening in said bolster, means for leaning the front wheels relative to said bolster, and mechanism extending through said rearward extension and down through said post to said leaning wheel means for operating the latter.

2,323,111
PROCESS AND PRODUCT
Paul Rolland Austin and Charles Edward Frank, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 29, 1939, Serial No. 297,190
12 Claims. (Cl. 260—399)

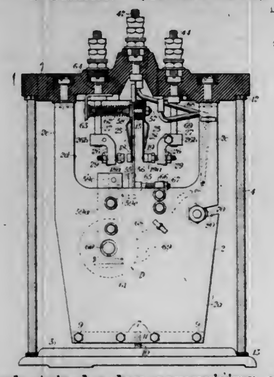
6. N-ethylthiomethyllauramide.

2,323,112
CURTAIN ROD
Annie Birnie, Sacramento, Calif.
Application October 13, 1941, Serial No. 414,713
5 Claims. (Cl. 160—21)



1. In combination, a curtain rod, the rod being mountable at its ends in supported relation to a vertical surface, a curtain hanging unit including a pair of horizontally spaced facing strips extending substantially the full length of the rod behind the same and located below the upper edge thereof, and another strip also extending substantially the full length of the rod behind the same and disposed above the first named strips, and means on the strips at their opposite ends for supporting engagement with the rod mounting means, said pair of strips being adapted to have a curtain provided with a top hem passed thereabout adjacent its upper end in predetermined order; and said other strip being adapted to engage and locate said top hem of the curtain.

2,323,113
ELECTRICAL RELAY
Herman G. Blosser, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original application November 16, 1939, Serial No. 304,811. Divided and this application February 25, 1942, Serial No. 432,281
2 Claims. (Cl. 200—104)



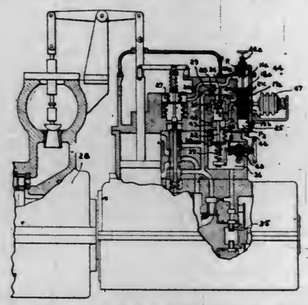
1. An electrical relay comprising a non-magnetic bracket, an insulating top plate secured to said bracket, an insulating rocker suspended from said top plate by means of flexible strips for swinging movement between two positions, flexible contact fingers secured to said rocker and cooperating with fixed contact members secured to said top plate to form contacts which are operated by movement of said rocker between its two positions, a spring biasing said rocker to one position, an armature suspended from said rocker by means of a rigid strip, and an electromagnet secured to said bracket and cooperating with said armature when said electromagnet is energized to move said rocker to its other position, and an adjustable stop screw supported by said bracket and cooperating with said armature to determine said one position of said rocker.

2,323,114
POLE PIECE ASSEMBLY
Zerbe C. Bradford, Calvin J. Werner, and Edward B. Sleeter, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 26, 1942, Serial No. 432,402
5 Claims. (Cl. 171—252)



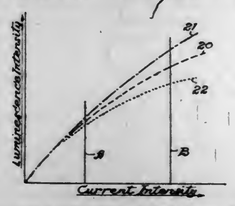
1. An electrical device core comprising stacks of laminae of magnetic material forming pole pieces, certain laminae of a stack being integral with corresponding laminae in the same plane of the other stacks whereby said stacks are properly spaced; and rivets passing longitudinally through each stack of laminae to hold them in assembled relationship.

2,323,115
HYDRAULIC RESISTANCE APPARATUS
Ozro N. Bryant, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1942, Serial No. 443,777
7 Claims. (Cl. 138—43)



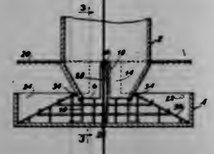
1. In hydraulic apparatus, means providing first, second and third pressure spaces with the second space disposed between the first and third spaces; means for maintaining a first liquid pressure in said first space; means providing a first viscous flow passage connecting the first and second spaces and a second viscous flow passage connecting the second and third spaces; said first viscous flow passage being effective to maintain fluid under second pressure in said second space; and means for changing the length of the first viscous flow passage to change the second pressure directly in relation to the change in length.

2,323,116
LUMINESCENT MATERIAL
Carlos E. Burnett, Maplewood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 30, 1941, Serial No. 417,094
10 Claims. (Cl. 250—81)



1. A luminescent phosphor mixture having substantially invariant luminescent color under variable cathode ray intensity bombardment and comprising two phosphor constituents having substantially the same color of luminescence when excited by cathode rays and a third phosphor constituent having a luminescent color complementary to the color of said two components when excited by cathode rays the luminescent intensity of said one constituent increasing with increasing cathode ray intensity bombardment at a rate intermediate the corresponding rates of said two constituents.

2,323,117
POULTRY FEEDER
John J. Carmo, Billerica, Mass.
Application January 17, 1942, Serial No. 427,097
7 Claims. (Cl. 119—55)



1. A poultry feeder comprising a trough, a hopper for containing chicken mash of the type described, said hopper positioned over said trough and spaced therefrom such distance that feed of the type described and contained therein will not flow of its own accord to the sides of the trough, an agitator bar extending lengthwise of said trough and under the bottom opening of said hopper, said agitator bar located close to the bottom of the trough, a platform, means connecting said platform to said agitator bar so that oscillating movement of said platform will cause oscillating movement of said agitator bar, the shape of said agitator bar being such that, when moved through feed of the type described, lateral flow of the feed will be induced until a determinable quantity of it has flowed into said trough, after which continued oscillating movement of said agitator bar through said feed will cause no further flow of said feed into said trough.

2,323,118
FLOOR COVERING AND METHOD FOR MAKING THE SAME
Solomon Caplan, New York, N. Y., assignor to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application October 25, 1939, Serial No. 301,194
2 Claims. (Cl. 106—232)

1. The method of making a permanently thermo-plastic floor covering comprising heating a mixture of cashew nut shell liquid, an aldehyde, an alkaline catalyst and a resin selected from the group consisting of "cumar" resin, rosin and East India chips Congo gum, the quantity by weight of said resin being at least as great as the quantity by weight of said cashew nut shell liquid, said alkaline catalyst being capable of promoting condensation of cashew nut shell liquid and the aldehyde upon application of heat.

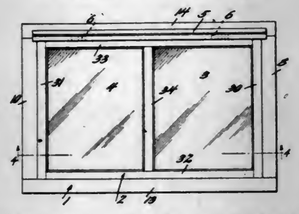
2,323,119
METHOD OF MAKING SPONGE RUBBER
William J. Clayton, Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 2, 1941, Serial No. 400,799
4 Claims. (Cl. 260—723)

1. The method of making sponge rubber which comprises adding to latex containing ammonia at least .5 part of formaldehyde per 100 parts of rubber solids of the latex but insufficient to react with all the ammonia present, and heating without coagulation at a temperature above 100° F. for at least 4 hours and compounding the latex with at least 10 parts filler material per 100 parts of rubber solids of the latex, converting the compounded latex into a foam, and coagulating the latex in the foam to form sponge rubber.

2,323,120
ALLOY FOR GRINDING BALLS
Hugh S. Cooper, Cleveland, Ohio, assignor of one-half to Frank H. Wilson, Cleveland, Ohio
No Drawing. Application July 30, 1942, Serial No. 452,884
8 Claims. (Cl. 75—126)

1. A grinding ball alloy, said alloy consisting of chromium 20–30%, columbium, .5–3%, carbon 1 to 3%, manganese and silicon each in amounts ranging from small fractional percentages up to 3%, balance iron.

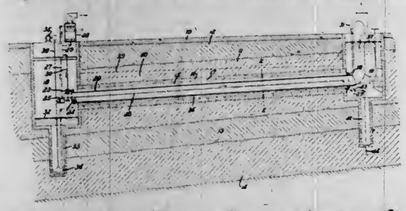
2,323,121
WINDOW UNIT FOR TRAILERS AND THE LIKE
Mark A. Conway, Muscatine, Iowa, assignor to Roach & Musser Company, Muscatine, Iowa, a corporation of Iowa
Application September 7, 1942, Serial No. 457,574
1 Claim. (Cl. 160—103)



A wooden sash unit adapted to be bodily installed in trailers and the like, including a rabbeted main wooden frame having tongues on its front face, a supplemental wooden frame structurally integral with the main frame and having wooden strips of the desired depth extending from the rear face, the strips having grooves interfitting with the aforementioned tongues on the front face of the frame, the outer edges of said supplemental frame extending beyond the outer marginal edges of the main frame and the inner faces of the encompassing walls of the supplemental frame being positioned slightly inwardly with relation to the rabbet construction on the front face of the main frame to thereby form a double rabbeted construction with relation to the main frame, a screen and wooden frame therefor secured to the rear face of the main frame and the said frame also provided with portions extending beyond the marginal edges of the main frame and the space between the outwardly extending edges of the supplemental frame and the screen frame adapted to tightly encase the walls in which the unit is to be fitted, a double rabbeted pivotal wooden sash secured to the supplemental frame and of a thickness great enough to extend rearwardly through the supplemental frame and interfit with the double rabbeted frame construction to thereby prevent leakage, and means connected with the sash and extending through the main frame and the screen for operating the sash from the interior of the trailer.

2,323,122
AIR CONDITIONING
Robert B. P. Crawford, Washington, D. C.
Application November 8, 1940, Serial No. 364,925
5 Claims. (Cl. 257—122)

4. An air conditioning system comprising a subterranean channel permeable to ground water, a rotatable conduit extending through said channel, means for supplying a hygroscopic solution to the interior of said conduit in heat exchange relation with ground water in said channel, and means for passing a stream of air through said conduit.

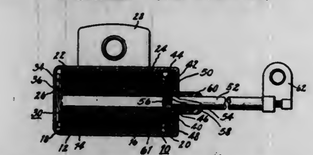


2,323,123
BOOK LOCK BINDER
Joseph J. Donato and Frederick L. Hardin, Oakland, Calif.
Application September 23, 1941, Serial No. 412,020
3 Claims. (Cl. 129—38)



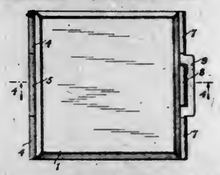
1. In a lock binder for magazines and other publications, a base bar, an upright casing at each end thereof, said casings having slots in the inner faces thereof in alignment with each other, the slot in one of said casings extending entirely therethrough, a clamping bar passing through said slots and parallel with the base bar and slidable outwardly through said slot in said one casing, said casings having openings therein, and means in the openings cooperating with the clamping bar for holding the bar in clamped position.

2,323,124
ELECTRICAL CONDENSER
William Clarrel Edmundson, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 6, 1940, Serial No. 322,433
1 Claim. (Cl. 175—41)



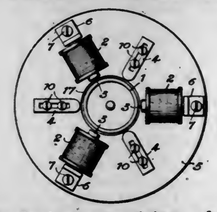
A condenser comprising a casing closed at one end and having an inwardly extending flange at its open end; a compressible cover in the open end of the casing; a condenser unit in said casing, having bared electrodes extending from each end; a terminal carried by the cover and engaging the bared condenser electrodes adjacent thereto; and a spring disc interposed between the closed end of the casing and the condenser unit, engaging the adjacent bared electrodes of the condenser and urging the condenser endwise to press the cover into sealing engagement with the casing flange.

2,323,125
CONTAINER
Leo Esterow and Abraham Klein, New York, N. Y.
Application September 17, 1942, Serial No. 458,632
4 Claims. (Cl. 220—55)



1. A vanity case or the like having a body composed of two hingedly connected sections, each section having a cylindrical beading disposed along one of its edges, the beading on one of the sections adapted to be disposed in axial alignment with that on the other section when the case is in closed position, the beading on one section adapted to be disposed between beading parts on the other section when the case is closed, and a pivoted locking link carried by one of the sections adapted to be swung over the beading on the other section when said beading is disposed between the beading parts on the section on which the locking link is carried.

2,323,126
MULTITHROW RELAY
De Witt Rugg Goddard, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 20, 1941, Serial No. 423,711
9 Claims. (Cl. 200—98)



1. A relay device comprising a base member, a hollow cylindrical armature centrally located on said base member, spring tension means for retaining said armature to said base member, a plurality of electro-magnets surrounding said armature, and circuit-closing means electrically connected to said armature and to one of said electro-magnets whereby a circuit is completed therebetween when the electro-magnet is energized.

2,323,127
COMBINATION FOLDING BED AND TENT SUPPORT
Albert A. Gregg, Kaycee, Wyo.
Application December 18, 1939, Serial No. 309,888
1 Claim. (Cl. 5—174)

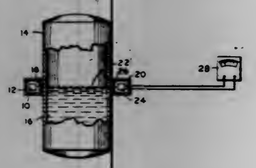
In a portable foldable bed, side and end rails, each rail including a pair of relatively thin wide flat sections, flat hinge plates fixed to one end of one section of each pair and extending longitudinally beyond said end in spaced parallel relation to each other to provide a channel, semidisk ears included in the plates, a substantially semidisk ear formed on one end of the companion section and pivotally connected to and between the first ears for disposal of the end of the companion section within the channel and said ends

in abutting engagement with each other when the bed is in set up position, corner posts having the opposite ends of the sections pivotally con-



nected thereto, and foldable supporting braces for the rails and connected thereto and to the corner posts respectively.

2,323,128
METHOD AND APPARATUS FOR DETERMINING LIQUID LEVEL
Donald G. C. Hare, Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application September 10, 1941, Serial No. 410,236
8 Claims. (Cl. 250—83.6)



1. A method of determining the level of a liquid in a closed container which comprises directing through the wall of said container penetrative radiation emitted from a source, detecting radiation which is scattered by means of the material within the container, simultaneously detecting radiation which is transmitted through the container to its opposite side and moving the source and detecting means vertically along the container until a point is reached at which a sudden variation in the amount of scattered radiation and a sudden variation in the amount of transmitted radiation is indicated by the detecting means.

2,323,129
CONDENSATION PRODUCT OF FORMALDEHYDE AND A TERPENE ALCOHOL AND A PROCESS OF MAKING IT
Mortimer T. Harvey, East Orange, N. J., assignor to Harvel Research Corporation, a corporation of New Jersey
No Drawing. Application January 20, 1939, Serial No. 251,945
4 Claims. (Cl. 260—598)

1. An organic liquid which is obtained by the heat condensation of formaldehyde in aqueous solution and a monomeric terpene alcohol in contact with an acid catalyst, which organic liquid has a boiling point above 200° C. at 4 cm. of mercury and which has a specific gravity of about 1.09 to about 1.1 at 15° C.

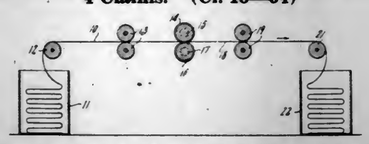
2,323,130
POLYMERIZED CHLOROPRENE-CASHEW NUT SHELL LIQUID COMPOSITION
Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application May 26, 1939, Serial No. 275,899
3 Claims. (Cl. 260—42)

1. A composition of matter comprising a cured intimate mixture of polymerized chloroprene and an organic condensation product of polymerized cashew nut shell liquid and hexamethylene tetramine, the ratio of the quantity by weight of said polymerized chloroprene to the quantity by weight of said organic condensation product being as great as about 1 to 1.

2,323,131
ALDEHYDE CONDENSATION PRODUCT OF RESIDUAL ETHERS OF CASHEW NUT SHELL LIQUID
Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application November 10, 1939, Serial No. 303,815
1 Claim. (Cl. 260—46)

The condensation product of an aldehyde and the residual product obtained by the method of first forming a hydrocarbon ether at the hydroxyl oxygen of cashew nut shell liquid and then destructively distilling to remove between 25% and 75% of the cashew nut shell liquid ether.

2,323,132
METHOD OF MANUFACTURING RUBBER THREAD
Eardley Hazell, North Kingstown, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application October 17, 1940, Serial No. 361,586
4 Claims. (Cl. 18—54)

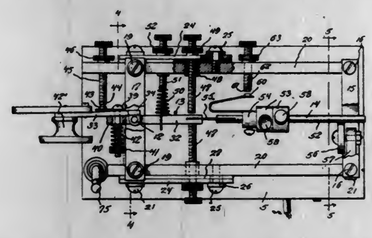


3. The method of manufacturing cut rubber threads or strips which comprises, cutting simultaneously from a vulcanized sheet of masticated rubber a number of threads or strips and supporting them in side by side relation with their freshly cut faces clean and in abutting contacting relation, reuniting these threads or strips as they advance from the cutting position by exerting sufficient pressure upon them to expand them laterally and force their cut faces firmly together to cause them to stick together solely by the inherent cohesive action between the cut faces, and thereby form a ribbon in which the bond between the threads or strips is sufficient to hold them in ribbon formation during handling.

2,323,133
TELEGRAPHIC TRANSMITTER
Lynn G. Heatherly, Whiteville, N. C.
Application September 13, 1941, Serial No. 410,735
1 Claim. (Cl. 178—82)

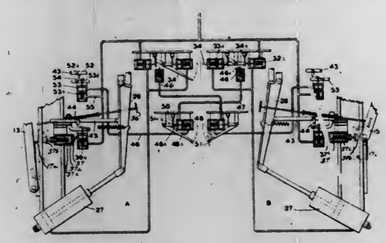
In a telegraphic transmitter, the combination of a two-part key movable as a unit in one direction, part of the key being movable independently

in the other direction, a stop to limit the movement of the key as a unit, a spring supported vibrator carried by the key whereby the vibrator will be kept from vibrating when the key strikes said stop, a pair of contacts constituting the terminal of an electric circuit, one of said contacts being carried by the vibrator and the other being located in the path of the first, means actuated by the independently movable part of the key for



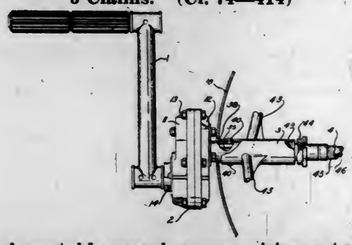
making and breaking the circuit independently of the vibrator, a rigid supporting frame having the key pivotally and adjustably mounted thereto and including rigid spaced parallel side members and pairs of rigid supporting posts detachably connected, rigid means tying the posts in pairs and detachable therefrom, and a weighted base for the support of said posts and detachably secured thereto.

2,323,134
SEMIPOWER PRESS AND TANDEM CONTROL
Fred A. Heidenfelder, Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application December 3, 1938, Serial No. 243,685
4 Claims. (Cl. 38—5)



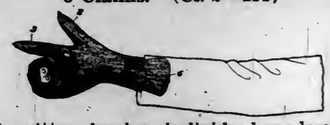
1. Control means for coordinating single-operator control of a pair of pressing machines each having coacting pressing elements, having power actuated operating mechanism for causing relative closing and opening movements of said elements, and each press having control means for said operating mechanism for causing press closing and opening operations of each press by itself, comprising a servomotor for actuating said control means at one pressing machine in a direction to cause opening of that one machine, a fluid supply for said servomotor including a valve adapted to remain in either open or closed position when once placed in that position and a normally closed valve, and means for opening said last named valve by press closing operation of the other pressing machine, whereby an operator standing at said other machine may there cause press closing operation of that press, whereupon the remote press will automatically open.

2,323,135
HAND CRANK MECHANISM
Ralph M. Heintz, Cleveland, and Philip F. Scofield, Cleveland Heights, Ohio, assignors to Jack & Heintz, Inc., Bedford, Ohio
Application February 21, 1942, Serial No. 431,850
3 Claims. (Cl. 74—414)



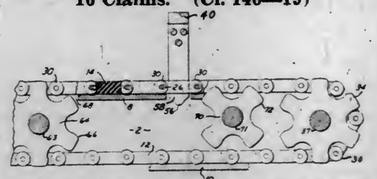
1. A portable gear box comprising a two-part housing, a crank-receiving stub shaft in said housing, a gear train in said housing, an elongated tubular shank carried jointly by the two parts of said housing and extending therefrom for supporting said gear box on a mechanism to be driven thereby, spaced anti-friction bearings in said shank, and a power take-off shaft in said bearings driven by said stub shaft through said gear train said power take-off shaft being contained within said shank and said shank having elements of a quick-detachable connecting means thereon.

2,323,136
MITTEN
Johanna M. Johanson, Concord, Mass.
Application November 22, 1941, Serial No. 420,071
3 Claims. (Cl. 2—158)



1. A mitten having individual enclosures for one or more of the fingers, a body portion to which said enclosures are integrally united, and a hood section integrally joined at its edge to said body portion along the finger line thereof and cooperating therewith to provide a pocket extending backwardly toward the wrist from the outer extremity of the mitten to approximately the base of the fingers, the fore finger of the mitten having sufficient freedom to be removable from said pocket or insertable therein while the mitten remains on the hand.

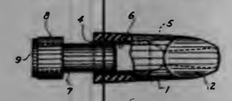
2,323,137
FRUIT PITTER
Otto William Johnson, Oakland, Calif.
Application June 27, 1938, Serial No. 216,049
16 Claims. (Cl. 146—19)



1. A fruit pitting machine comprising in combination, a reciprocatory pitter head, means for driving said head in a rectilinear path, a fruit

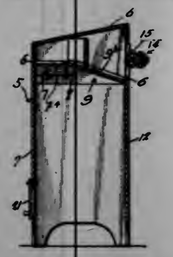
holding device for holding fruit during operation thereon by said pitter head, a carrier for said fruit holding device, means for driving said carrier at a constant speed with respect to said rectilinear path, and means for arresting said fruit holding device in the rectilinear path of said reciprocating pitter head.

2,323,138
TUNING BARREL FOR WIND INSTRUMENTS
Thomas T. Kearns, Greenville, Pa.
Application July 10, 1942, Serial No. 450,367
1 Claim. (Cl. 84—386)



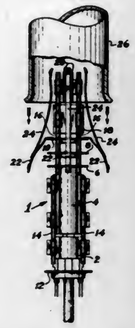
In a wind instrument, a mouthpiece having a counterbore in the oral passage substantially the full length thereof and a resilient lining disposed in the counterbore with the inner wall of the lining flush with the oral passage and a tuning barrel having one end disposed for sliding movement in said mouthpiece lining and having its other end attached to the body of the instrument, said tuning barrel being of relatively thin wall section to minimize obstruction in the oral passage and having a smooth outer surface to maintain a pneumatic seal with the mouthpiece when the tuning barrel is adjusted for sound.

2,323,139
AIR-DISTRIBUTION CASING
James C. Labbe, Broussard, and Clarence J. Duchamp, St. Martinville, La.
Application May 20, 1941, Serial No. 394,350
5 Claims. (Cl. 98—38)



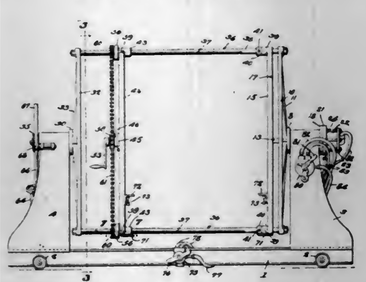
1. A casing adapted to be used in conjunction with a heater, said casing being divided by a partition into a relatively deep lower compartment for accommodating a heater, and a relatively shallow upper hot-air distribution compartment, said casing having in the front wall thereof an opening elongated transversely of the casing in the region of said hot-air distribution compartment and serving as a hot-air outlet for said compartment; said casing also having in the rear wall thereof and in the region of said hot-air distribution compartment a cold-air inlet opening, and a power-driven fan mounted exteriorly of said casing at the rear thereof and in substantial alignment with said cold-air inlet opening, said casing being further characterized by having a top wall sloping forwardly from the rear to the front of the casing and also sloping laterally in opposite directions towards opposite sides of the casing, and said hot-air discharge opening having oppositely inclined end portions continuing substantially to the side walls of said casing.

2,323,140
MOUNT SUPPORT AND CONTACT FOR ELECTRON DISCHARGE DEVICES
Clifford H. Lane, Jr., Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 29, 1942, Serial No. 440,902
9 Claims. (Cl. 250—27.5)



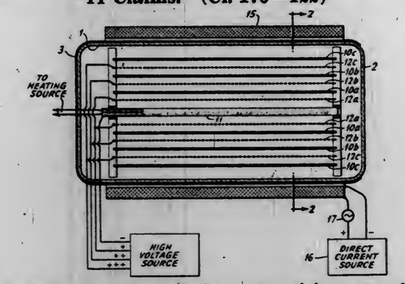
1. An electron discharge device comprising an envelope having a tubular portion, an electrode supporting structure within said tubular portion, a transverse member on said structure, and a resilient envelope spacer supported by said member and contacting two longitudinally separated points along the said envelope tubular portion, said spacer being spaced from said tubular portion between said points of contact.

2,323,141
AIR CONTROLLED WORK CLAMPING MACHINE
Jeter M. Lancaster, High Point, N. C.
Application January 23, 1941, Serial No. 375,672
6 Claims. (Cl. 144—291)



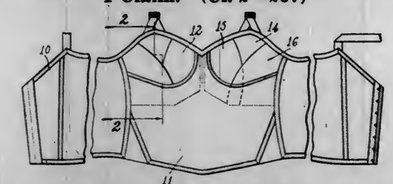
4. A reversible, work-clamping machine including opposed cross-heads mounted to turn about a common axis, parallel elements connecting the cross-heads and cooperating therewith to form a rigid frame, opposed clamping jaws slidably mounted on the elements, means under the control of an operator and operable from a point outside the frame for sliding one of the jaws relative to the other jaw independently of the rotation of the frame, a gear rotatable with the frame, and fluid operated means under the control of the operator for turning the gear, the frame and the jaws through a one-half rotation in either direction while the jaws are in work-clamping position.

2,323,142
LUMINESCENT LAMP
Humboldt W. Leverenz, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1941, Serial No. 381,032
11 Claims. (Cl. 176—122)



1. A luminescent device comprising an elongated envelope having a transparent end portion, a substantially optically transparent luminescent phosphor body extending longitudinally of said envelope, means oppositely disposed from and exposed to said body to develop a flow of electrons radially of said envelope, means to direct said electrons in a direction substantially normal to the surface of said body, and means to direct said electron flow along paths intersecting the longitudinal surface of said body at oblique angles to excite said body to luminescence and liberate secondary electrons from the surface of said body.

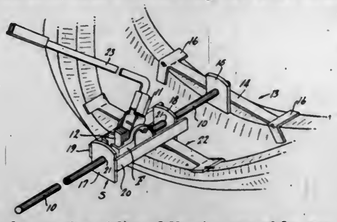
2,323,143
BRASSIÈRE AND BREAST PAD
Lester H. Loeffel, West Haven, Conn., assignor to The Berger Brothers Company, New Haven, Conn., a corporation of Connecticut
Application June 7, 1940, Serial No. 339,243
1 Claim. (Cl. 2—267)



A pocket or casing for a body or breast pad of concavo-convex form, said pocket being permanently closed at the front face thereof by a wall of rounded contour to fit snugly over the convex front face of the pad, and the rear face of the pocket comprising a plurality of flaps, each of said flaps being secured at its outer edges to the periphery of the front wall and having an edge of arcuate shape extending freely across the pocket, said free edges overlapping to close the pocket but being separable to permit the insertion of a breast pad therein, and said flaps having sufficient fullness to swing inwardly to positions adjacent the front wall of the pocket.

2,323,144
TIRE SPREADER
Arnold Long, Menominee, Mich.
Application August 8, 1940, Serial No. 351,856
10 Claims. (Cl. 154—9)

1. A tire spreader comprising a friction rod, a bead-engaging member secured to one end of said rod, a friction jack movable along said rod intermediate its ends under the control of the operator, a saddle slidably supported on said rod and associated with said jack so as to be moved thereby, and a bead-engaging member secured to said saddle, said rod having its other end projecting beyond said saddle to provide an operating handle for said spreader.

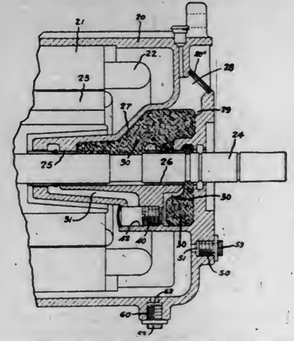


2,323,145
APPARATUS FOR APPLYING COLORING MATERIAL TO NAILS
Helen Marshall Mabry, New York, N. Y.
Application August 14, 1941, Serial No. 406,929
2 Claims. (Cl. 132—88.5)



1. A stencil for use in applying liquid coloring to a nail, said stencil being of substantially rectangular shape to engage the upper portion of a digit and being formed of pliable material having a water-resistant adhesive incorporated therein that will adhere to the flesh adjacent the nail and provided with an opening to expose a portion of the nail, the side border of said opening being deformable as to permit insertion between the cuticle and the nail, slightly underneath the cuticle and to form a liquid-tight joint with the cuticle if pressed into close contact with and slightly underneath the same whereby on application of liquid coloring to the nail the cuticle and the flesh adjacent the nail is protected against staining.

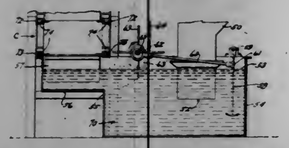
2,323,146
BREATHER PLUG FOR ELECTRIC MOTORS
David H. Manney, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 24, 1941, Serial No. 420,215
5 Claims. (Cl. 172—36)



1. In combination with an electric machine having a sealed casing, of a breather plug in said casing adapted to prevent the propagation of

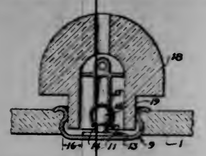
flame caused by the explosion of gas vapors ignited by sparking in the interior of the casing, said breather plug comprising a body consisting of sintered, non-compacted metal powder.

2,323,147
CONVEYER
Ronald B. McKinnis, Winter Haven, Fla., assignor, by mesne assignments, to Ronald B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla.
Original application October 7, 1939, Serial No. 298,464. Divided and this application June 5, 1940, Serial No. 338,988
7 Claims. (Cl. 214—17)



1. A discharge mechanism for floatable waste solid products from a process carried on out of communication with the atmosphere, comprising a chute having a lower end down which the solid products are adapted to pass, a liquid pool into which the lower end of the chute passes, a blade to agitate the liquid adjacent to the lower end of the chute to prevent clogging, means to give the floatable solid products movement in a given direction through the liquid, and a conveyer member in the path of the direction of movement of the floatable solid waste product to discharge these products.

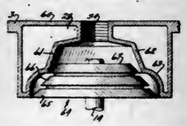
2,323,148
ELECTRICAL CONTACT ASSEMBLY FOR USE IN ELECTRON DISCHARGE DEVICES
Kenneth M. McLaughlin, Summit, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 16, 1942, Serial No. 426,960
7 Claims. (Cl. 250—27.5)



1. An electrical contact assembly comprising a metal cup, a projection attached to the bottom of said cup of insufficient length to extend beyond the rim of said cup, a contacting clip adapted to make electrical contact with said projection and insulating means surrounding said clip of sufficient length to extend within said cup when said clip is in contact making position with said projection.

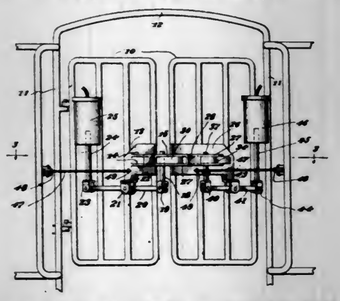
2,323,149
HIGH SPEED MILL
William A. McLean, Geneva, N. Y., assignor to Geneva Processes, Inc., Geneva, N. Y., a corporation of New York
Original application January 5, 1938, Serial No. 183,549, which is a division of application Serial No. 71,932, March 31, 1936. Divided and this application June 2, 1941, Serial No. 396,336
4 Claims. (Cl. 259—8)

1. A mixing and emulsifying mill comprising a mixing chamber having walls, the upper portion of said mixing chamber being frusto-conical in shape and the lower portion being hemispherical in shape, a rotor extending into said mixing chamber, said rotor progressively increasing in size from top to bottom and being composed of three frusto-conical shaped segments having flat upper surfaces and sloping sides, the upper of said segments forming a working surface with the walls of the frusto-



conically shaped portion of the mixing chamber and the sloping surface of the lower segment forming a working surface with the walls of the hemispherically shaped portion of the mixing chamber, and said intermediate segment being spaced from the walls of the hemispherically shaped portion of the mixing chamber to serve as a beater.

2,323,150
BARRIER RELEASE
Cullum H. McMillan, San Saba, Tex.
Application October 16, 1940, Serial No. 361,452
7 Claims. (Cl. 292—5)

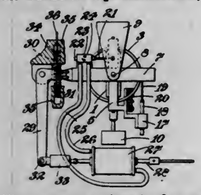


1. In a latch assembly, a movable bolt, a releasable keeper therefor, a member supporting said bolt, a second member supporting the keeper, one of said members being movable relative to the other on release of the latch, actuator means on the bolt-carrying member operative to disengage the bolt from the keeper to effect latch release, means on the keeper-carrying member operative to release the keeper from the bolt to effect latch release independently of movement of the bolt, and means simultaneously operating said bolt actuator means and said keeper release means whereby to insure release of the bolt and keeper.

2,323,151
AUTOMATIC STEERING CONTROL FOR AIRCRAFT
Frederick William Meredith, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, London, England, a British company
Application July 7, 1939, Serial No. 283,315
In Great Britain July 13, 1938
6 Claims. (Cl. 244—79)

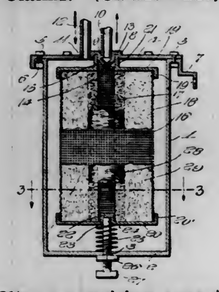
1. A control for an aerodyne having a lateral controller such as a rudder and rolling controllers such as ailerons, comprising detecting means for lateral acceleration or side-slip, means controlled by said detecting means automatically to adjust the lateral controller to reduct lateral acceleration or side-slip; a gyroscope having a rotor with a transverse spinning axis, a servomotor controlled by said gyroscope

and actuating said rolling controllers, a follow-up member for said gyroscope, spring means biasing said follow-up member to a normal datum position, and a viscous link connecting said servomotor to said follow-up member, whereby said



rolling controllers are actuated according to the angle of bank of the aerodyne and in accordance with the time integral of the angle of bank to stabilize the aerodyne in roll and maintain course.

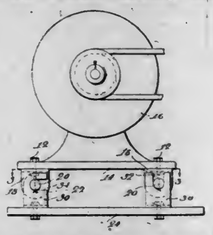
2,323,152
OIL FILTER
Andrew J. Metcalf, Ashland, Wis.
Application October 23, 1941, Serial No. 416,251
4 Claims. (Cl. 210—140)



1. An oil filter comprising a casing having a bottom and side walls, a cover for said casing having an upstanding boss at its center and a depending boss under the first boss, the under face of the cover being formed with a groove surrounding the depending boss, said bosses defining a socket open at its top and having an opening at the center of its bottom constituting an outlet, the cover being also formed with an inlet, a filtering cartridge in said casing having upper and lower heads and a center sleeve of perforated material, the upper head having an upstanding tubular neck receiving the upper end of the center sleeve and fitting snugly about the depending boss and into said groove, the lower head being formed with a centrally located upstanding lug fitting into the lower end of the center sleeve, said lug having a socket therein opening through the under face of the lower head, a stem threaded through the bottom of said casing and extending vertically in the casing with its upper end engaged in the socket of the lower head, and a spring coiled about said stem with its lower end resting on the bottom of the casing and its upper end bearing against the lower head and urging the cartridge upwardly.

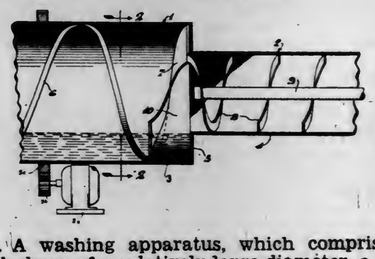
2,323,153
MOTOR MOUNT
Turner E. Pilson, Roanoke, Va.
Application March 23, 1942, Serial No. 435,894
3 Claims. (Cl. 248—19)

1. The combination of a motor, a support, slotted members fixedly connected with said support, the slots in one of said members being arranged at right angles to the slots in the other member, pin-like means fixedly connected with



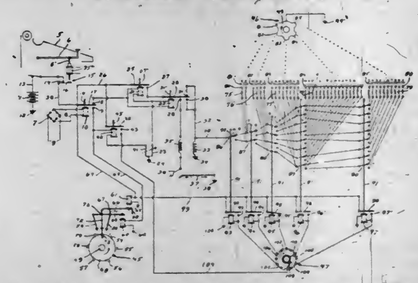
the motor and detachably receivable in the slots in said members for detachably connecting the motor therewith.

2,323,154
WASHING APPARATUS
Nathan Ransohoff, Cincinnati, Ohio
Application November 25, 1940, Serial No. 366,992
5 Claims. (Cl. 141—1)



1. A washing apparatus, which comprises a wash drum of a relatively large diameter, a rinse drum of a relatively smaller diameter extending longitudinally from the wash drum and being substantially coaxial therewith, an annular wall member joining the rinse drum and the wash drum, a vane extending spirally from the annular wall into the wash drum, the said vane terminating in a portion of reduced height whereby it is adapted to act as an agitator of parts deposited in the washing drum and as a conveyor for urging parts toward the rinse drum, and a dam and lift member residing intermediate the vane and the annular wall and extending substantially tangentially from the periphery of the rinse drum to the periphery of the wash drum.

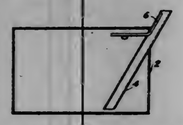
2,323,155
PRINTING TELEGRAPH RECEIVER
Luther S. Rose, Honolulu, Territory of Hawaii
Application August 29, 1941, Serial No. 408,886
15 Claims. (Cl. 178—26)



2. In a printing telegraph receiver, a receiving relay responsive to code signal impulses of long and short duration, a normally closed local cir-

cuit, means responsive to actuation of the receiving relay for typing the characters which are represented by the code signals received, and a key actuated open circuiting switch for the local circuit for restoration of the receiver to a starting condition upon completion of each group of code characters.

2,323,156
LIQUID LEVEL INDICATOR
Frank P. Scully, Cambridge, and Alcide E. Mathey, Boston, Mass., assignors to Scully Signal Company, East Cambridge, Mass., a corporation of Massachusetts
Application January 15, 1941, Serial No. 374,510
9 Claims. (Cl. 116—109)



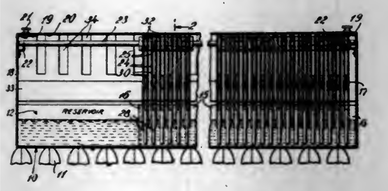
1. The combination of a tank and liquid level indicating means, said indicating means comprising a vent pipe leading from the tank interior to the outside and of sufficient capacity to vent said tank during normal filling without causing an increase in the internal tank pressure above safe limits, an opening in the side of said pipe, a whistle located exterior of said pipe and in series with said opening, that portion of said vent pipe from said opening to the inner end thereof being formed in such manner that the flow of gas therethrough will induce a pressure at said opening lower than that which would otherwise normally prevail to increase the flow of gas through said whistle during filling of said tank, the entrance to said whistle passage being lower than the entrance to said vent pipe.

2,323,157
CHANGEABLE SIGN
Adelor T. Senesac, Chicago Heights, Ill., assignor of one-third to Stanley A. Wilczynski and one-third to Robert A. G. Engelhart, both of Chicago Heights, Ill.
Application October 14, 1941, Serial No. 414,944
5 Claims. (Cl. 40—68)



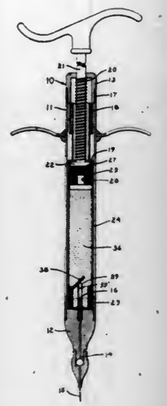
1. A changeable sign of the character described comprising a shaft rotatable in a vertical plane, a frame fixed on said shaft, means for securing a plurality of cards on said frame, a tubular brace in the frame, and weight means movable by gravity in said brace for retaining the frame in position.

2,323,158
HUMIDIFIER
George R. Siefken, New York, N. Y.
Application January 24, 1941, Serial No. 375,773
8 Claims. (Cl. 299—20)



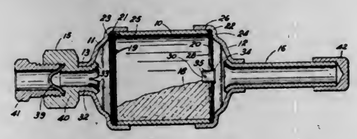
1. A humidifier comprising a vessel containing liquid, said vessel having opposite walls extending above the level of the liquid, a rod detachably mounted on said walls above the liquid, a plurality of plates of porous material threaded on the rod and lying face to face, said plates having portions entering the liquid, and spacers on the rod separating adjacent plates.

2,323,159
SYRINGE
Arthur E. Smith, Los Angeles, Calif.
Original application May 5, 1939, Serial No. 271,886. Divided and this application January 15, 1940, Serial No. 313,906
2 Claims. (Cl. 128—218)



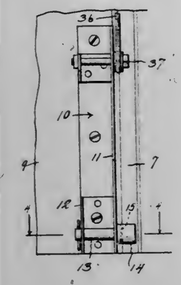
1. In a syringe, a barrel having a front member thereon, a needle on the front member and extending into the barrel, a tube on the front member and surrounding the needle and projecting beyond the needle into the barrel, said tube having a lateral opening therein disposed within the barrel, an ampule in the barrel, said ampule having a resilient cork therein, said cork having a diaphragm at the outer end thereof and adapted to be punctured by the tube, said cork having a recess and a trap door closure for the recess and adapted to be displaced by said tube, said trap door being integral with the cork, said trap door having a peripheral sealing fit within the cork and being normally held in sealing position by the resiliency of the cork material.

2,323,160
DEHYDRATOR
Henry D. Stecher, Lakewood, and Joseph Norman Paquin, Euclid, Ohio, assignors to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application February 15, 1940, Serial No. 319,046
3 Claims. (Cl. 183—4)



1. A dryer comprising a unitary assembly including a tubular portion, an end member having an opening therethrough and copper brazed to said tubular portion, and a fine mesh screen disposed within said assembly adjacent one end of said tubular portion, said screen having an opening in registration with the opening in the adjacent end member whereby moisture absorbing material may be placed within said central portion through said registering openings, and means for closing said opening after the moisture absorbing material has been placed within said central portion.

2,323,161
GARAGE DOOR SUSPENSION MEANS
Oscar F. Stouffer, Spencer, Iowa
Application September 7, 1940, Serial No. 355,847
2 Claims. (Cl. 16—93)



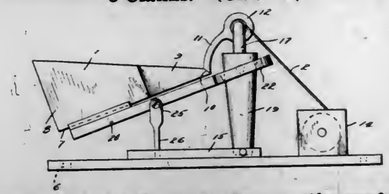
1. A sliding pivotal guide for a shiftable structure such as a vertically movable door having a track bar secured parallel with one side edge thereof, comprising an angle bracket secured to one face of the door with one side parallel with and in the plane of the said side edge, a second angle bracket secured to the first bracket and having one side in spaced parallel relation with the said side of the first bracket, the said spaced sides of the bracket being provided with aligned openings, a pivot pin having a shank portion extending through and rotatably supported in the openings of the said spaced sides of the brackets, and a relatively long cylindrical head in abutting relation at its inner end with a face of the said side of the first bracket and extending laterally beyond and in perpendicular relation to the adjacent side edge of the door, means at the end of the shank remote from the head for maintaining the shank in position in said openings, and said head having a relatively deep slot cut across its outer end to receive the said track bar.

2,323,162
FLATIRON BASE
Charles Robert Talmage, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 26, 1940, Serial No. 367,283
2 Claims. (Cl. 38—93)



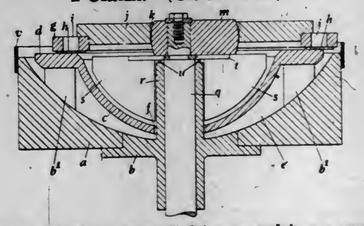
1. A new article of manufacture comprising a flat iron base characterized by a smooth ironing surface integral with the remainder of the base, said base consisting of a stratified structure wherein the portion thereof adjacent the ironing surface is predominately copper and the portion away from the ironing surface consists predominately of iron, said base consisting of sintered metal.

2,323,163
LOCATOR FOR SUBMERGED AIRCRAFT, AND THE LIKE
John A. Tarburton, Dover, Del.
Application July 11, 1942, Serial No. 450,636
3 Claims. (Cl. 9—9)



1. In a device for indicating on the surface of water the location of a sunken airplane or the like, a base adapted to be mounted on said airplane, a line attached at one end to said base to be extended to said surface, a float attached to the other end of the line to rise to the surface, means to anchor the float to said base tending to release the float, and float supporting means mounted on said base and operative by the weight of the float thereon to prevent release of the float by said anchoring means.

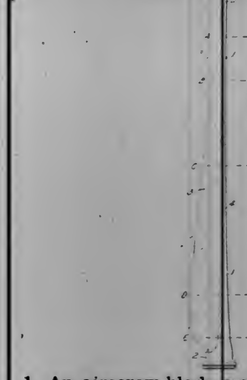
2,323,164
LENS GRINDING OR POLISHING MACHINE
Douglas Taylor, Solihull, near Birmingham, England
Application April 28, 1942, Serial No. 440,857
In Great Britain April 26, 1941
1 Claim. (Cl. 51—162)



A lens grinding or polishing machine, comprising the combination of a hollow body part which

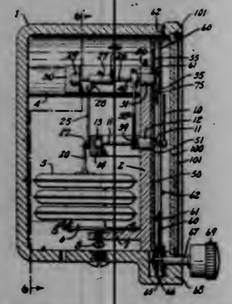
is open at its upper side and has an annular lap associated with it, a disc by which a plurality of lenses can be moved over the lap and which is provided with a central aperture, a rotary cam occupying the aperture in the disc and adapted to rotate and reciprocate the disc, a rotary spindle for effecting rotation of the cam, and at least one impeller blade carried by the spindle for effecting circulation of liquid within the body part, the said impeller blade being arranged to cause the circulating liquid to flow upwards over the inner edge of the lap and then outwards over the upper surface of the lap.

2,323,165
AIRSCREW
Frederick Metcalf Thomas, Hatfield, England, assignor to The De Havilland Aircraft Company Limited, Hatfield, England
Application August 21, 1939, Serial No. 291,271
In Great Britain September 1, 1938
7 Claims. (Cl. 170—159)



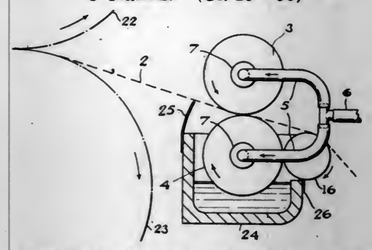
1. An airscrew blade comprising a solid, metal, load-carrying member of generally angle shape extending throughout the major portion of the length of the blade, including a relatively wide and thin flange defining a portion of a blade face and a relatively narrow and thick flange defining the leading edge portion of the blade, and a solid trailing edge member of light, relatively weak material faired with both flange portions of said load-carrying member, filling the angle thereof, and secured thereto to complete a blade of generally airfoil shape.

2,323,166
ALTIMETER REGULATOR
Adolf Urfer, New Rochelle, N. Y.
Application March 7, 1942, Serial No. 433,759
5 Claims. (Cl. 73—4)



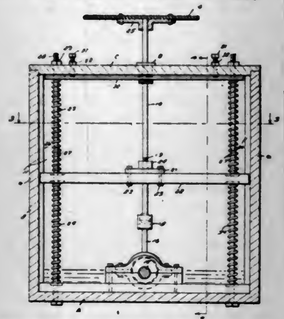
4. In an altimeter in combination a rotatable graduated annular dial for registering small changes in altitude, a second rotatable graduated disc-shaped dial for registering gross divisions of altitude, the second dial being in a plane parallel to and spaced from that of the first dial and rotatable on an axis eccentric to that of the first dial, means for arbitrarily turning said first dial to apply selected factors to the altitude registrations thereof, a spiral cam track on that surface of the first dial adjacent the second dial, cam engaging means on the second dial for rotating same as the first dial is rotated, said cam being of such configuration that the dials are turned in the same proportion as the graduations of one dial bear to the graduations of the other, the graduations on the second dial being viewable through the annular opening of the first dial.

2,323,167
TREATMENT OF WEBS OR FLEECES PRODUCED ON CARDING ENGINES
Andor Varga, Ilkley, near Leeds, England
Application March 31, 1941, Serial No. 386,158
In Great Britain April 8, 1940
5 Claims. (Cl. 19—66)



1. A method of treating the thin textile fibre webs produced on a carding engine, consisting in submitting a web to a crushing operation and then to a moist vapour treatment so as to moisten the web fibres and the surrounding air, and ensuring that the density of said vapour renders the latter capable of forming a continuous conductive path between the web and a convenient earthing means for discharging static electricity from or about the web as well as increasing its spinning properties.

2,323,168
DRIVE FOR PAPER MANUFACTURING MACHINES
Alfred Vanden Bergh, Green Bay, Wis.
Application March 14, 1941, Serial No. 383,433
6 Claims. (Cl. 74—26)

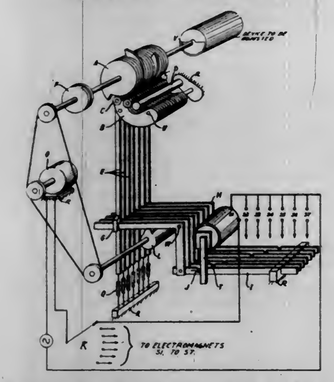


1. A drive mechanism comprising a drive shaft, a frame structure through which the drive shaft operates, bearing means for the drive shaft and mounted on the frame, an eccentric on the drive shaft within the frame, an endwise movable rod, an operative connection between the eccentric and said rod, a guide bar carried by said rod, said frame having guide grooves therein for receiving the ends of the guide bar, cushioning means for the guide bar, a bridge member at the upper portion of the frame, said rod being slidable through the bridge member.

2,323,169
PROCESS OF PLATING METAL BODIES
Edward R. Wagenhals, Summit, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application February 8, 1940, Serial No. 317,902
4 Claims. (Cl. 117—22)

1. The process of plating a metal body to be welded to reduce corrosion and improve welding comprising coating the body with mixed particles of two metals having different melting points, the more refractory metal being predominant in the mixture, the proportion of low melting metal and the size of the refractory metal particles being so chosen that the thickness of the low melting metal after melting and levelling is less than the average diameter of the refractory particles, heating said body to a temperature intermediate the melting point of said two metals for sufficient time to completely melt the lower melting metal but for insufficient time to completely melt the higher melting metal.

2,323,170
SPOT ADJUSTING MECHANISM FOR RADIO TRANSMITTERS
Harold Joseph Hughes Wassell, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application April 1, 1941, Serial No. 386,322
In Great Britain April 3, 1940
12 Claims. (Cl. 74—10)



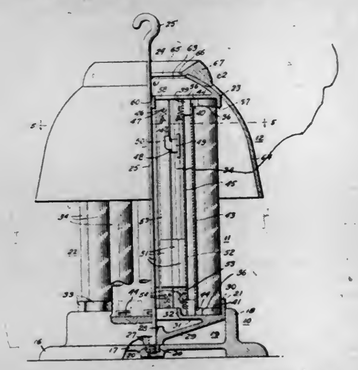
1. A spot-adjusting mechanism for adjusting a device comprising a rotatable shaft coupled to said device to be adjusted, means for rotating said shaft, a plurality of stop-cams mounted on and rotatable with said shaft, said cams being relatively angularly displaced in different predetermined stop-positions, a like plurality of pivoted levers, one for each stop-cam and lying in the path of travel thereof, a draw-rod for each lever, means operable upon said draw-rods to pull said levers out of the path of travel of said stop-cams, and selector means associated with each one of said draw-rods to prevent one of said draw-rods from pulling its associated lever from the path of one of said stop-cams, the arrangement being such that upon operation of said selector means, all levers are withdrawn from the paths of all but one selected lever and a corresponding stop-cam, and the rotatable shaft is set into rotation and so continued until stopped by said last mentioned stop-cam.

2,323,171
METHOD FOR PREPARING WET PEACHES AND THE LIKE FOR DEFUZZING
Edwin M. Wayland, Covesville, Va.
Application August 10, 1938, Serial No. 224,168
10 Claims. (Cl. 34—31)



1. The method of preparing wet fruits and vegetables for packing which comprises the steps of disposing the articles in a pre-defined area and subjecting the articles in said area to a heated blast of relatively high velocity air of a temperature in excess of 100° F. and short of that which will cook the articles, to rapidly evaporate the moisture from the skins of the articles without substantially increasing the temperature thereof.

2,323,172
FLUORESCENT LAMP
Edward H. Whittaker, Jersey City, N. J.
Application April 15, 1942, Serial No. 439,122
5 Claims. (Cl. 240—78)

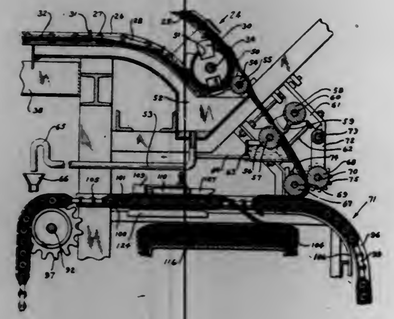


1. A convertible table-hanging lamp comprising a base support, for table use, provided with an upwardly opening polygonal socket; a centering rod provided with a polygonal nut in screw threaded engagement with the lower end of the rod, said nut resting freely in said socket; a lamp bottom resting freely upon said base support, and nub, provided with a hub surrounding the lower portion of said rod above said nut; a sleeve-like luminous tube supporting unit resting upon said lamp bottom and surrounding said centering rod; and a lamp top, resting upon said sleeve-like unit, and provided with a hub surrounding said rod whereby raising of said centering rod will raise, with it, said lamp bottom, tube supporting unit and lamp top.

2,323,173
ELECTRODE WIRE
Emil Gideon Widell, Bloomfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application May 10, 1941, Serial No. 392,947
2 Claims. (Cl. 250—27.5)

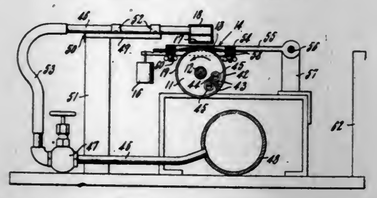
1. An electrode wire for electron discharge devices, said electrode wire comprising an alloy containing about .15 percent carbon, about 2 percent tungsten and the balance nickel, said wire being characterized by an increased hot strength and an increased resistance to burn-out by electric heating in vacuum as compared to a wire of nickel without tungsten.

2,323,174
APPARATUS FOR STACKING SHEET MATERIAL
George F. Wikle, Grosse Pointe, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Original application March 8, 1939, Serial No. 260,520. Divided and this application January 23, 1941, Serial No. 375,581
2 Claims. (Cl. 271—75)



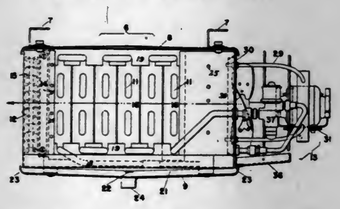
1. A stacking device comprising an endless conveyor having vertically spaced upper and lower reaches, a portion of the upper reach being horizontally disposed for receiving slabs of rubber composition and for moving the slabs horizontally along with the conveyor, a slab receiving platform positioned between the upper and lower reaches of the conveyor, said conveyor including a plurality of rollers arranged in groups for supporting the slabs positioned upon the conveyor, the adjacent groups of rollers being separated from each other to form openings therebetween, means movably carried by each group and interconnecting the rollers thereof for simultaneous rotational movement, relatively stationary means operable upon said first named means at predetermined intervals for rotating the groups of rollers successively during movement of the conveyor, whereby the slabs carried by the groups of rollers are caused to drop successively through openings between successive groups when said rollers are rotated, said means interconnecting the rollers comprising one or more endless chains meshing with sprockets carried by the rollers, and said stationary means comprising a toothed member engageable with said endless chain or chains during operation of the conveyor.

2,323,175
WEAR TESTING MACHINE
Howard A. Young, Westfield, N. J., and John C. H. Wendes, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 10, 1939, Serial No. 303,760
5 Claims. (Cl. 73—51)



1. A textile material testing machine comprising an abrasive wheel mounted on a shaft substantially parallel to the surface of the material to be tested, said wheel having a cylindrical surface, means for holding the material to be tested in a stationary position and in contact with only a small arc of said cylindrical surface, means for oscillating said wheel about its axis, and means for rotating said wheel while it is being oscillated.

2,323,176
COLD DIFFUSER
Carlyle M. Ashley, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application August 21, 1941, Serial No. 407,819
6 Claims. (Cl. 62—129)

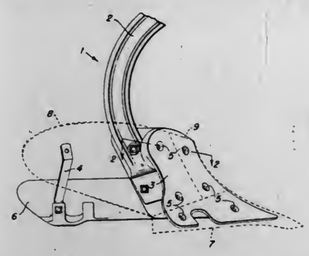


6. A cold diffuser structure comprising a casing, coils within the casing, means for supplying refrigerant to and withdrawing refrigerant from the coils, a fan and motor assembly mounted at the rear end of the casing, an outlet arrangement at the front end of the casing, said assembly including a ring, a platform positioned within and secured to the ring, a motor removably mounted upon the platform, a plurality of arms, more than two in number, attached to the ring and to a rear member of the casing, adjusting devices on each of the arms for varying the effective length of each arm in such manner that the position of the ring may be shifted and the level of the platform varied.

2,323,177
PLOW BOTTOM
Herbert N. Baker, Syracuse, N. Y., assignor to Syracuse Chilled Plow Company, Inc., New York, N. Y., a corporation of New York
Application March 10, 1941, Serial No. 382,477
7 Claims. (Cl. 97—113)

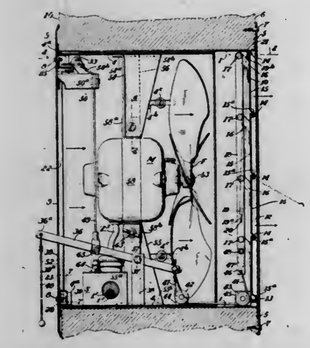
1. A plow comprising a moldboard, a frog having a spherical socket, a washer having one face formed to receive said moldboard and the other formed to adjustably seat in said socket so as to

dispose said one face at different angles relative to said frog, and means for clamping said mold-



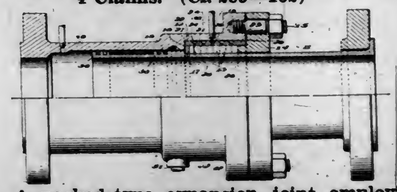
board against said washer and the latter against said socket.

2,323,178
VENTILATING UNIT
Earl W. Denman, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 9, 1941, Serial No. 373,727
3 Claims. (Cl. 98—116)



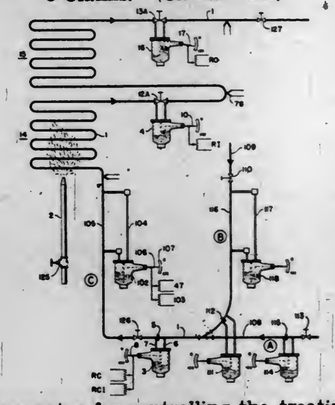
1. A ventilating unit comprising a sheet-metal open ended tubular casing adapted to be secured within an aperture in a wall, a set of horizontally disposed louvers pivotally mounted in one end of said casing, a vertically disposed louver-actuating bar connected to each of said louvers, a spring connected to said bar and normally urging it in a direction to close said louvers, a frame-like face-plate removably secured to one end of said casing and formed with a substantially square central opening, horizontally disposed angle-bars secured to the inner surface of said face-plate above and below said opening, a plurality of vertically arranged louver-supporting rods journaled in apertures formed in said angle-bars, a vertically disposed louver attached to each rod and normally closing said opening, an arm projecting horizontally from each louver, a horizontally disposed louver-actuating bar pivotally connected to each of said arms, a spring normally urging said last named bar in a direction to close said vertical louvers, a lever mounted on a horizontal pivot in said casing, and flexible elements connecting said lever with each of said louver-actuating bars to shift them endwise in opposition to said springs, thereby simultaneously to actuate both sets of louvers.

2,323,179
PACKED TYPE EXPANSION JOINT
Robert Hall, Lockport, and Harold R. Rhodes, North Tonawanda, N. Y., assignors to American District Steam Company, North Tonawanda, N. Y., a corporation of New York
Application November 9, 1940, Serial No. 365,118
4 Claims. (Cl. 285—162)



1. A packed-type expansion joint employing fibrous packing impregnated with auxiliary fluent packing for sealing the joint against leakage, said joint comprising telescoping inner and outer joint members, an annular packing chamber in the outer joint member having closed opposite ends, fibrous packing material filling said chamber making sealing engagement with the periphery of the inner joint member, inlet means in the outer joint member for admitting from without the joint fluent packing material under pressure for impregnating the fibrous packing material, and means for distributing said fluent packing material uniformly throughout the fibrous packing material in the packing chamber comprising a rigid annular member forming the outer wall of the packing chamber, an annular distributing space for fluent packing material in the outer joint member surrounding said annular member, said annular space communicating with said fluent packing material inlet means and having closed opposite ends, and a multiplicity of apertures through said annular member disposed at recurrent spaced local points both circumferentially and lengthwise thereof for the admission of fluent packing material from said distributing space into the fibrous packing material in the packing chamber.

2,323,180
CONTROL SYSTEM
Raymond D. Junkins, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application August 24, 1939, Serial No. 291,707
5 Claims. (Cl. 122—448)



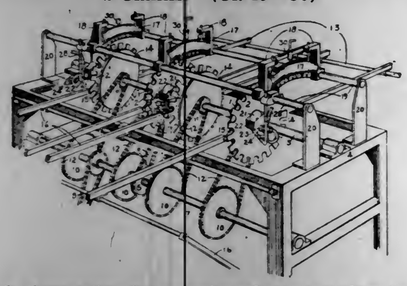
1. Apparatus for controlling the treating of a flowing fluid undergoing condition change as a

result of the treating, comprising in combination, means continuously determining the density of the fluid entering the treating zone, means separately continuously determining a flow rate factor of the fluid prior to and subsequently to the treating, means correlating the determinations to evaluate density of the fluid subsequent to the treating, and apparatus for controlling the treating responsive to said last-named means.

2,323,181
PRODUCTION OF IMPROVED CELLULOSIC MATERIALS
Richard E. Reeves, Yonkers, N. Y., assignor to The Chemical Foundation, Incorporated, a corporation of Delaware
No Drawing. Application May 29, 1939, Serial No. 276,442
3 Claims. (Cl. 8—120)

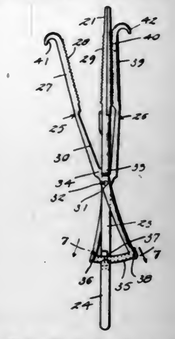
2. A method of treating cotton fabric to increase their resistance which comprises subjecting the fabric to the action of an ethereal solution of diazomethane of a concentration of about 25 grams per liter in the absence of hydrolyzing agents in the cold for a period of several days to methylate the pectous non-cellulosic constituent of the fibers of the fabric and without any substantial methylation of the cellulosic constituent of the fabric.

2,323,182
GLASS SEVERING APPARATUS
William P. Stuckert, Marblehead, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application February 1, 1941, Serial No. 377,053
2 Claims. (Cl. 49—50)



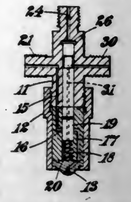
1. Apparatus for severing elongated glass tubes comprising: a series of revolving conveyor wheels keyed to a shaft for rotation therewith and having a plurality of U-shaped cut-outs about the periphery thereof for supporting said tubes in rotational and bodily freedom of movement; a series of friction wheels, for rotating said glass tubes, located adjacent said conveyor wheels and geared for rotation about said shaft through a bearing connection therewith, at a speed greater than that of the conveyor wheels, said friction wheels having radii slightly greater than the distance from the center of said conveyor wheels to the deepest point to which the U-shaped cut-outs about the conveyor periphery extend, whereby glass tubes in said cut-outs will be contacted and rotated by said friction wheels; a series of burners located above said shaft and in heating range of tubes placed in said cut-outs; a series of wet wheels located adjacent the conveyor and friction wheel peripheries at a point where the portions of the tubes heated by said burners will establish contact therewith just after said heating; with the only pressure of said contacts derived from gravital action on said tubes; a series of annealing burners located below said wet wheels adjacent the conveyor and friction wheel peripheries with those portions of the tubes with which the wet wheels have come in contact, in heating range thereof; and a series of ejector arms adjacent the conveyor and friction wheel peripheries and beneath said annealing burners to contact and eject the tubes.

2,323,183
OBSTETRICAL INSTRUMENT
Ernest F. Alleyne, Nashville, Tenn.
Application September 2, 1942, Serial No. 457,068
10 Claims. (Cl. 128—361)



1. A surgical instrument comprising a pair of scissor blades, means detachably connecting said blades together, a lever integral with each blade, a pivoted clamping member for each blade, confronting serrated clamping surfaces carried by said blades and said clamping members, and correlated means carried by said clamping members and said levers for releasably locking said members in clamped position.

2,323,184
FUEL INJECTION IN INTERNAL COMBUSTION ENGINES
George Amery, Oldbury, England
Application February 11, 1941, Serial No. 378,350
In Great Britain November 4, 1939
4 Claims. (Cl. 299—107.5)

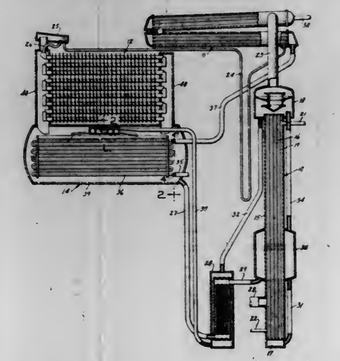


1. A fuel injection nozzle comprising a nozzle body having a central bore therethrough and carrying a spray nozzle at one end and a fluid passage at the other end, a fuel passage in said body intersecting said bore and communicating with said spray nozzle, a cut-off valve in said bore having a passage therein, means for normally maintaining said valve with the passage in the valve out of registry with the fuel passage to close the same, a control piston in said bore aligned with and rigidly attached to said cut-off valve and means to apply fluid pressure to one face of said piston to force the cut-off valve into position to align the passage in the valve with the fuel passage to open said passage; the supply to the fuel passage and to the piston being independent.

2,323,185
RUBBER HYDROHALIDE
Troy M. Andrews and Howard F. Reeves, Jr., Weeks, La., assignors to Bay Chemical Company, Inc., New Orleans, La., a corporation of Louisiana
No Drawing. Application May 24, 1940, Serial No. 337,076
14 Claims. (Cl. 260—771)

1. A process of producing rubber hydrohalide comprising treating rubber in solution by introducing gaseous hydrogen halide of the group consisting of hydrogen chloride, hydrogen bromide and hydrogen iodide in the presence of butyl alcohol as relatively inert fluidity agent.

2,323,186
REFRIGERATION
Philip P. Anderson, Jr., Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application August 26, 1941, Serial No. 408,318
8 Claims. (Cl. 62—119)

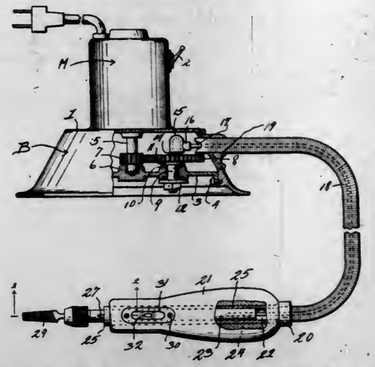


1. In an absorption refrigeration system having a generator, a condenser, an evaporator and an absorber, and members connecting the aforementioned parts for circulation of refrigerant and absorption liquid, structure to subdivide liquid including a liquid holder and a cover plate arranged to fit over a side wall of said holder, said plate being indented to provide relatively small passages for siphoning liquid upwardly in fixed paths of flow by capillary action from within said holder over said side wall.

2,323,187
PHOTOGRAPHIC EMULSION
Hans Arens, Dessau, and Karl Kumetat, Robert Walter, and Gustav Wilmanns, Wolfen, Kreis, Bitterfeld, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 6, 1940, Serial No. 268,854. In Germany December 7, 1939
7 Claims. (Cl. 95—7)

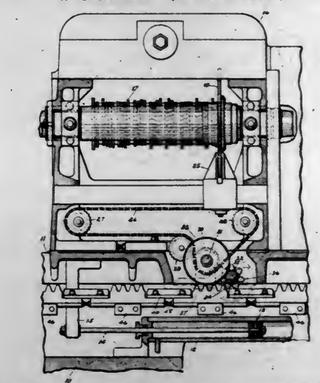
1. A photographic silver halide emulsion fogged to such an extent that it is capable of directly yielding positive images by exposure and development and containing at least one sensitizing dyestuff, the quantity of said dyestuff being a multiple of the quantity normally used in sensitizing an emulsion but not greater than approximately 250 mg. to 1 kilo of emulsion, said fogging having taken place prior to the addition of said sensitizing dye.

2,323,188
POWER FILER
Wallace E. Atkinson, Petersburg, Va.
Application October 10, 1941, Serial No. 414,521
4 Claims. (Cl. 29—76)



1. A power filer including an elongated hand grasp, a reciprocating member carried by the hand grasp, one end of said reciprocating member extending beyond an end of the hand grasp, a tool holding chuck carried by the extended portion of the reciprocating member, means for reciprocating the member, and a spirit level carried by the hand grasp and extending longitudinally thereof.

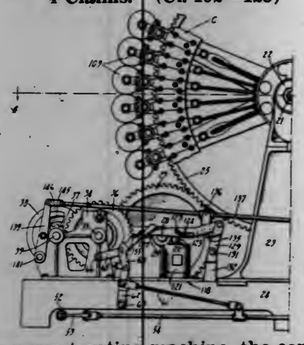
2,323,189
CAM GRINDING MACHINE
Harold E. Balsiger, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.
Application December 23, 1941, Serial No. 424,197
2 Claims. (Cl. 51—101)



1. A cam grinding machine comprising a grinding wheel support, a grinding wheel rotatably mounted thereon, a support for a cam shaft, said grinding wheel and said work being relatively movable toward and from one another, means including a master cam shaft having master cams thereon and a follower for causing said approaching and receding movement, mechanism for effecting relative longitudinal movement of the cam shaft for positioning said wheel and cam blank in operative relation, and means operable in timed relation with said longitudinal movement to move said follower from cam to cam including a rack having intermittent groups of teeth thereon, a pinion for engaging said teeth and for transmitting movement to said follower

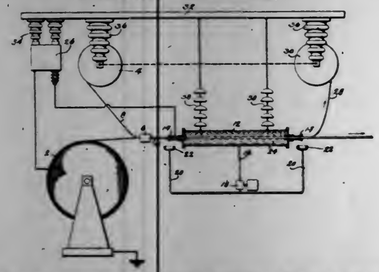
to shift same from one master cam to another, and a device between each of said groups of teeth for positively locking said pinion against rotation.

2,323,190
CAN TREATING MACHINE
Thomas Begg, Nutley, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 1, 1941, Serial No. 400,704
4 Claims. (Cl. 192—125)



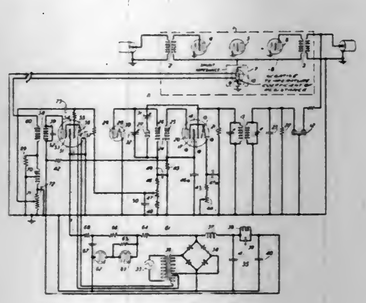
1. In a can treating machine, the combination of a rotatable entrance turret for introducing cans into the machine, a rotatable discharge turret for discharging the cans from the machine, a drive shaft for the machine, a clutch on said drive shaft for rotating said turrets, a drive clutch operating handle, a brake also on said drive shaft and operable by said handle, a reciprocating arm movable adjacent said handle, an electric solenoid connecting with said arm and normally holding the arm out of operating engagement with said handle, and detecting means in operative electrical connection with said solenoid and operable when a can becomes jammed in either of said turrets for actuating said solenoid through said electrical connection whereby to bring said arm into operating engagement against said handle so that the handle will be pushed by the reciprocating arm into de-clutching and brake applying position to stop the machine.

2,323,191
APPARATUS FOR HEAT CURING MATERIALS SUCH AS RUBBER COMPOUNDS, PLASTICS, ETC.
Charles E. Bennett, Ridgewood, N. J., assignor to The Okonite Company, Passaic, N. J., a corporation of New Jersey
Application December 26, 1940, Serial No. 371,767
4 Claims. (Cl. 18—6)



1. An apparatus for vulcanizing the insulation of electric conductors while the insulation is enclosed in a flexible metallic sheath, said apparatus comprising in combination a pressure cylinder, a stuffing box at each end of the cylinder, means for feeding said metallic sheathed insulated conductor continuously through one of said stuffing boxes into the pressure cylinder, through the cylinder and out through the other stuffing box, said boxes loosely fitting the conductor assembly, a pump having its discharge conduit connected into the pressure cylinder, intake conduits for the pump terminating adjacent the outer ends of said stuffing boxes, pressure fluid filling the pressure cylinder and said conduits, whereby as the conductor assembly passes through said cylinder its insulation will be subjected to externally applied pressure transmitted through the said metallic sheath, and means for subjecting the insulation of the conductor to the influence of an electrostatic field while under pressure, said means comprising a high frequency source of electrical energy, said electric conductor being connected to one side of said high frequency source, the said metallic sheath being connected to the other side of said source.

2,323,192
REGULATOR CIRCUIT
Royer R. Blair, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 26, 1940, Serial No. 367,188
14 Claims. (Cl. 250—36)

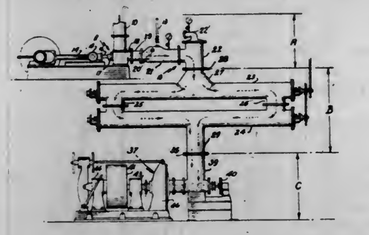


1. In a regulator circuit, an oscillator having an output-input curve with a steeply inclined cut-off portion, said oscillator comprising a vacuum tube having a cathode, a control grid, a screen grid and an anode, a source of alternating current, means for heating the cathode of said oscillator from said source of alternating current, means for rectifying current from said source of alternating current, means including a smoothing means connecting said rectifying means to the anode of said oscillator to supply potential to the oscillator anode, means additional to and exclusive of said smoothing means which additional means includes a source of constant voltage and is connected to said rectifying means for supplying potential to the screen grid of said oscillator, and means connecting said source of constant voltage of said additional means to said screen grid circuit for controlling the screen grid circuit of said oscillator independently of the other electrodes by changing the potential of said screen grid to compensate for changes in the oscillator operation caused by changes in the potential from said source of alternating current supplied to heat the oscillator cathode.

2,323,193
DOUBLE COMPOUNDS OF CALCIUM SALICYLATE WITH PYRAZOLONES
Heinrich Boie and Karl Wulzinger, Ludwigshafen-on-the-Rhine, Germany, assignors to E. Bilhuber Inc., Orange, N. J., a corporation of New Jersey
No Drawing. Application August 27, 1940, Serial No. 354,394. In Germany December 24, 1938
3 Claims. (Cl. 260—311)

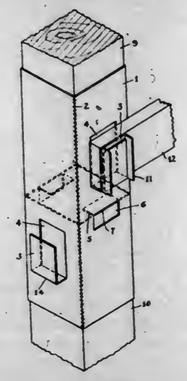
1. The new water-soluble neutral and therapeutically valuable double compound consisting of 1 molecule neutral calcium salicylate and 2 molecules of 4 dimethylamino-1-phenyl-2,3-dimethyl-5-pyrazolone.

2,323,194
APPARATUS FOR THE PRODUCTION OF PULP FROM CELLULOSIC MATERIAL
James Brookes Beveridge, Westmont, Quebec, Canada, and Richard D. Kehoe, Hadlyme, Conn.
Application August 7, 1940, Serial No. 351,670
7 Claims. (Cl. 92—6)



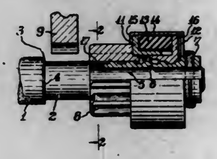
1. Apparatus for the treatment of cellulosic material, having a conduit extending generally downwardly in which a gaseous environment is maintainable and having a feed inlet opening, a material-supporting vapor-treatment chamber interposed in the conduit in series therewith and forming a pathway for the material, means for establishing and maintaining in the conduit and chamber super-atmospheric steam pressure and a water gasifying temperature above 212° F. for producing a hot vapor-bearing atmosphere, a supply pipe for the material, means for continually feeding material from the supply pipe into the conduit through constriction means including a device for compacting the material and plugging it in the inlet opening against substantial gas and pressure loss when compacted material is fed to and released into the conduit, said chamber having an effective cross-sectional area larger than the cross-sectional area of the constricted feed inlet opening thereto whereby material fed thereto is substantially less than sufficient to fill said chamber, means for continually imparting to the material released into the hot vapor-bearing atmosphere a forwardly progressing rolling and kneading movement at a rate of forward travel sufficient to cause material moving through the vaporous atmosphere of the partially filled chamber to spread out and become uncompacted for thereby continually exposing new surfaces to the action of said hot vapor-bearing atmosphere, a rotary refiner connected with the conduit, and means for continually moving through the refiner material that has passed through the conduit and chamber.

2,323,195
SCAFFOLDING
Farris O. Bouchillon, Chattanooga, Tenn.
Application August 30, 1941, Serial No. 409,104
2 Claims. (Cl. 304—40)



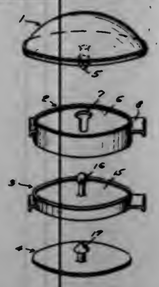
1. A scaffolding structure of the character described comprising upright pieces and cross pieces, a one piece tubular sleeve for telescoping over the ends of adjacent upright pieces, wings struck inwardly from said sleeve intermediate its length, a transverse partition positioned within said sleeve and secured against said wings for engagement with the ends of the upright pieces, fingers struck outwardly from the sides of said sleeve and extending upwardly, and connectors on the cross pieces for interlocking engagement with said fingers to support said cross pieces.

2,323,196
ENGINE STARTER GEARING
James E. Buxton, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 19, 1941, Serial No. 403,182
8 Claims. (Cl. 74—7)



1. In an engine starter drive a power shaft, an engine driving member slidably journalled thereon, a screw shaft fixed to the power shaft, a nut on the screw shaft having a driving flange, a driven flange member fixed to the engine driving member, a body of elastically deformable material loosely mounted between said flanges, means limiting separation of the flanges to an amount slightly greater than the free length of the elastic body, thus permitting free overrunning of the engine driving member, and abutment means on the power shaft engageable by the engine driving member when in operative position to limit longitudinal movement of the engine driving member and cause the elastic body to be compressed between the flanges and thereby form a clutch connection between the nut and engine driving member.

2,323,197
FASTENER
Allan Edward Bryce, Providence, R. I.
Application October 3, 1942, Serial No. 460,649
2 Claims. (Cl. 24—222)



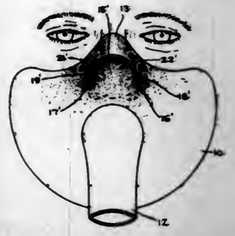
1. A fastener for attaching two pieces of cloth together comprising a pair of complemental fastener members adapted to be opposed upon opposite sides of one piece of cloth and one including a cloth piercing element to which the other is detachably attached, and a second pair of fastener members similar to the first-mentioned pair adapted to be similarly attached upon opposite sides of the second piece of cloth and complemental male and female elements embodied in one member of each pair for detachably attaching the same together with a snap action.

2,323,198
AVIATION MASK
Arthur H. Bulbulian, Rochester, Minn.
Application September 22, 1941, Serial No. 411,870
6 Claims. (Cl. 128—205)



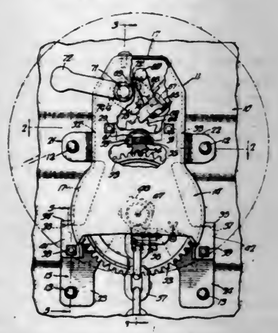
1. A mask for use in conjunction with oxygen supply at high altitudes, comprising a main mask body having marginal portions for contacting the face so as to enclose and form a breathing chamber extending over the nose, mouth and chin of the wearer, said mask provided with a central microphone chamber and a valve casing disposed between transverse planes embracing the microphone chamber, a valve in said casing adapted to permit passage from the breathing chamber of exhalation gases, and an outer mask body overlying and held upon and enclosing all of the main mask body, said outer mask body having a protruded portion which forms a chamber of substantial depth over the outer portion of the valve casing and the valve therein, and a tubular discharge passageway from said last named chamber.

2,323,199
MASK FOR AVIATION OR CLINICAL PURPOSES
Arthur H. Bulbulian, Rochester, Minn.
Application October 18, 1941, Serial No. 415,536
2 Claims. (Cl. 128—146)



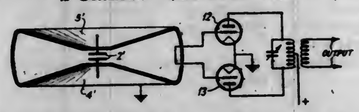
1. In a mask structure having a nose-enclosing portion, a spring member provided with an arch portion secured to said nose-enclosing portion in a position to extend transversely about and toward the end of the nose when the mask is worn, and having spring arms connected with the ends of said arch and extending toward the margins of the nose-enclosing portion, and an angularly disposed finger portion on the end of each arm, the arms and finger portions acting to cause the mask body to seat against the sides of the nose at the junction thereof with adjacent face portions.

2,323,200
RAILWAY BRAKE
Percy B. Camp, Maywood, and Herbert E. Bartsch, Chicago, Ill., assignors to Universal Railway Devices Company, a corporation of Delaware
Application August 22, 1941, Serial No. 407,846
6 Claims. (Cl. 74—505)



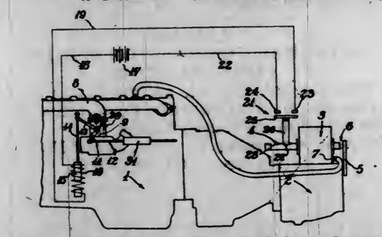
1. In a housing for a brake operating gearing for a railway car, an outer section having an inwardly extending flange along its side and top edges to form a casing member, said flange having notches in the intermediate portion of the flange extending along the side edges of the section, brake operating mechanism mounted within said casing, an inner section comprising a plate stamped from sheet metal and having an upper portion offset outwardly and engaging within the upper portion of said flange, said plate having attaching ears extending through said notches and interlocked therewith for assisting in supporting said casing member, and means for detachably securing said front section to said rear section.

2,323,201
TUNED CIRCUIT AND ASSOCIATED DEVICES THEREFOR
Philip S. Carter, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 7, 1939, Serial No. 249,711
2 Claims. (Cl. 178—44)



1. A high frequency electrical resonator comprising a pair of conical conducting surfaces of revolution arranged along the same axis with their apices adjacent each other to simulate the general shape of an hour-glass, the bases of said cones terminating in a spherical conducting surface extending from one cone to the other, said apices being flattened to increase the capacity therebetween and being provided with means for varying said capacity, and means for exciting said resonator to produce waves in the interior of said spherical conducting surface but outside the cones formed by said conical surfaces.

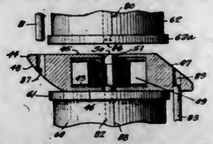
2,323,202
ENGINE CONTROL
Frank T. Christian, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 31, 1940, Serial No. 348,800
2 Claims. (Cl. 74—472)



1. In combination with an internal combustion engine including a throttle valve, manually operable means for opening the throttle including a connection adapted to yield on overload, a variable speed transmission driven by the engine, means operated by intake vacuum of the engine for shifting the transmission, said shifting means including a slidable rail and a connecting member having a lost motion connection, and means responsive to initial movement of the slidable rail for moving the throttle valve toward closed position with a force sufficient to overcome said yielding connection prior to engagement of said rail with the connecting member.

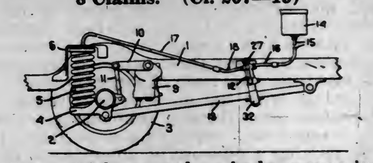
2,323,203
SHUTTLE
Claus A. Cosman, New Bedford, Mass., assignor to Wonder Weave, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Original application June 5, 1940, Serial No. 338,847. Divided and this application July 8, 1941, Serial No. 401,428. In Germany August 5, 1939
8 Claims. (Cl. 139—196)

1. A selvage thread shuttle for use in a weaving machine comprising an elongate body of magnetic material having flat pole-piece engaging surfaces at the top and bottom and extending for substantially the full area thereof and side walls connecting said top and bottom for the full periphery, said body having a pocket opening through one of said side walls to receive the



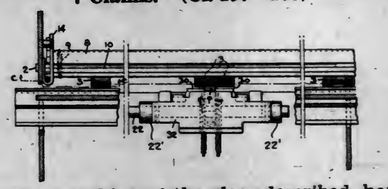
thread supply; a bobbin carrying the thread supply insertable into the pocket through the opening; and means for locking the bobbin in the pocket.

2,323,204
VEHICLE SUSPENSION MECHANISM
Grosvenor M. Cross, New York, N. Y.
Application January 12, 1940, Serial No. 313,540
8 Claims. (Cl. 267—15)



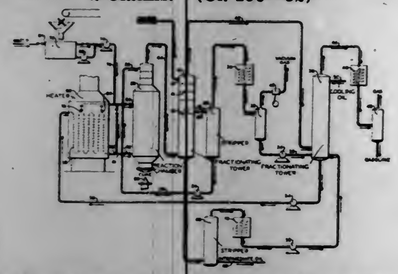
1. In a vehicle, an axle, a body, means including a resilient element supporting the body from the axle, means operated by relative oscillatory movement of the body and axle acting during movement of the vehicle over an irregular surface to approximate an invariable mean distance between the body and axle regardless of the load within the capacity of the body, and a shock absorber acting to permit free deflection of the resilient means in either direction from its position at mean deflection for any load and to exert during the return of the resilient means to said mean deflection a force sufficient to neutralize the force of the resilient means tending further to accelerate the movement of the body with respect to the axle.

2,323,205
LISTING CALCULATOR
Loring Pickering Crosman, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application December 5, 1941, Serial No. 421,803
7 Claims. (Cl. 197—176)



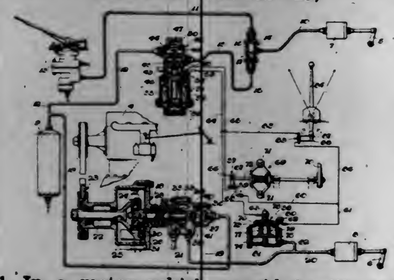
1. In a machine of the class described, having a shiftable carriage; means for stopping the carriage in predetermined columnar positions in tabulating operations, including a continuous uninterrupted series of contiguous normally inactive stop members settable to active position in spaced groups in variable patterns and manipulable means for setting each of successive groups of stop members as a unit to active position, said manipulable means and said stop members being shiftably related to one another.

2,323,206
CATALYTIC CRACKING PROCESS
Luis de Florez, Pomfret, Conn.
Application March 25, 1939, Serial No. 264,064
2 Claims. (Cl. 196—52)



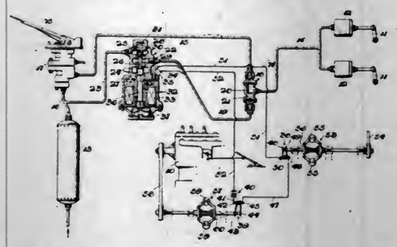
1. A process for the conversion of hydrocarbon oil which comprises heating the oil to conversion temperatures in a heating zone, mixing a slurry of a catalyst and a carrier liquid with the heated oil, subjecting the mixture of oil and catalyst to reaction in an enlarged conversion zone, withdrawing vapors from the conversion zone, separating from these vapors a heavy liquid which is withdrawn from the system, contacting fresh charge with the uncondensed vapors in a fractionating zone thereby condensing a portion of the vapors and vaporizing a portion of the charge, passing a mixture of unvaporized charge and reflux condensate from said fractionating zone to a stripping zone maintained under vacuum and there stripping said mixture to form vapors and a residuum, condensing said vapors, recycling said residuum to said conversion zone, passing a mixture of fresh charge vapors and conversion zone vapors from the fractionating zone to a second fractionating zone, passing the condensate formed from the vapors from the stripping zone to said second fractionating zone, fractionating the vapors and condensate in said second fractionating zone to form gasoline and a clean recycle stock, and returning said clean recycle stock to said heating zone.

2,323,207
BRAKE MECHANISM
Wilfred A. Eaton, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application January 18, 1940, Serial No. 314,538
17 Claims. (Cl. 192—13)



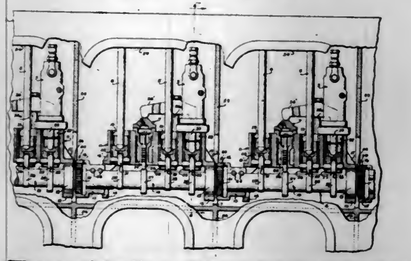
1. In a motor vehicle provided with a fluid pressure braking system and a clutch device, a source of fluid pressure, a brake chamber, a fluid pressure-operated clutch motor, means including a valve for connecting said source and chamber to apply the brake in service, means including a separate valve for connecting said source and motor to energize the latter to operate said clutch device, and means responsive respectively to energization of said motor and the stopping of said vehicle for connecting said brake chamber and source.

2,323,208
BRAKE MECHANISM
Wilfred A. Eaton, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application May 26, 1941, Serial No. 395,263
17 Claims. (Cl. 188—152)



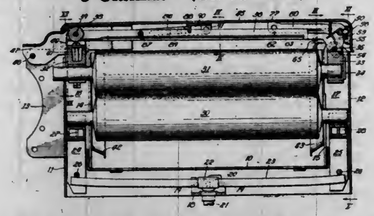
1. In a motor vehicle having an engine, a fluid pressure braking system, a source of fluid pressure, a brake chamber, a brake valve for supplying fluid pressure from said source to said chamber, other means for supplying fluid pressure to said chamber from said source, a valve in said other means, means for operating the last named valve, and means directly responsive to the speed of the vehicle, and the speed of the engine for operating the last named means.

2,323,209
INTERNAL COMBUSTION ENGINE CONSTRUCTION
Max Essl, Drexel Hill, Pa., assignor, by mesne assignments, to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application November 27, 1937, Serial No. 176,872
12 Claims. (Cl. 123—90)



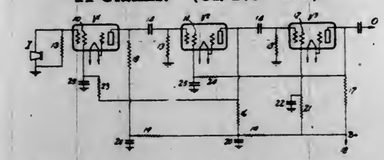
1. The combination with an internal combustion engine having a frame with a multiplicity of cylinders in line with each other, of a plurality of similar camshaft and supporting bracket assembly units, each unit including a bracket having a bearing in which its camshaft is journalled, axial thrust means carried by said bracket for maintaining its camshaft in a predetermined axial position, means for removably supporting the brackets by the engine frame so that the unit camshafts are in axial alignment with each other, removable coupling means for connecting adjacent ends of said camshafts and adapted upon disconnection to allow lateral removal of the assembly unit while allowing the other units to remain in position, and a guide carried by said bracket to support a unit camshaft when removed from the engine.

2,323,210
SAFETY RELEASE
Nicholas L. Etten, Waterloo, Iowa
Application August 20, 1937, Serial No. 160,041
8 Claims. (Cl. 68—263)



1. In a wringer mechanism, including a frame, a plurality of pressure rolls, a pressure spring, and latch means for maintaining said pressure rolls in cooperating engagement, the combination of a pair of manually operable release members, each mounted for pivotal movement about either of two pivot points on a relatively flat surface of the wringer frame, actuator members supporting said release members and adapted to movement responsive to the movement of said release members, and a pivoted latch trip member contacting each of said actuator members and adapted to be operated responsive to the movement of either of said actuator members and adapted to release the aforementioned latch means, said trip member including a portion which is so constructed as to be bendable for altering the relative position of the pivot points and points of contact of the several members to eliminate any lost motion between the several members of the structure.

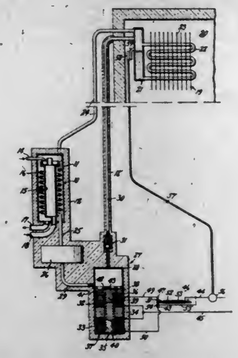
2,323,211
METHOD AND MEANS FOR AUTOMATIC GAIN CONTROL
Frank J. Faltico, Minneapolis, Minn.
Application May 23, 1941, Serial No. 394,833
11 Claims. (Cl. 179—171)



1. Gain control means for a vacuum tube signal amplifier, said amplifier having at least two tubes and one of said tubes being of the screen grid type, the other tube being connected and arranged to operate in such manner that it will enter distortion on signals above a predetermined level and thereby will cause a large increase in its anode current, said anode current being passed through a load resistor of high value. and said load resistor being common with the screen grid of the said screen grid tube to supply operating potential thereto and thereby reduce said potential as such increase in anode current occurs, and means for by-passing components of such distortion from the screen grid to the common ground of the amplifier.

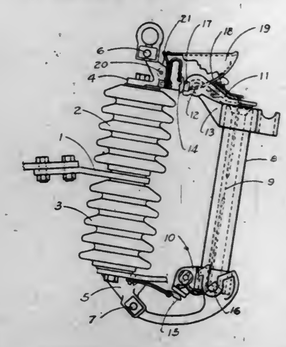
2,323,212
REFRIGERATION
Edmund A. Fenander, Yonkers, N. Y., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application March 4, 1938, Serial No. 193,843
3 Claims. (Cl. 62—2)

3. In combination, an enclosure, an evaporator of the flooded type to effect cooling of air in the enclosure, a heat transfer system including said evaporator and a condenser below said evaporator, a device for lifting liquid formed in said condenser to said evaporator at a higher level,



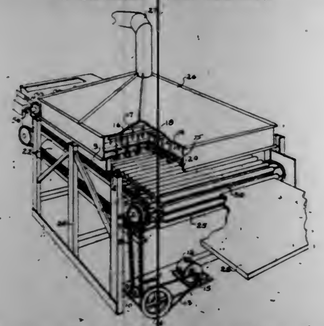
and a control for operating said device, said control including a part associated with said evaporator and affected by the liquid level in the latter and also by ambient air temperature in the vicinity of said part.

2,323,213
ELECTRIC FUSE
Edgar W. Garrison, Jr., Birmingham, Ala., assignor to Southern States Equipment Corporation, a corporation of Alabama
Substituted for abandoned application Serial No. 370,261, December 16, 1940. This application January 1, 1942, Serial No. 425,363
8 Claims. (Cl. 200—114)



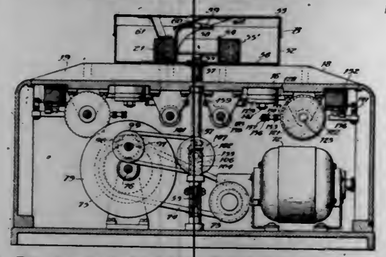
1. In an electric fuse, two spaced insulated terminals, an expulsion fuse tube held by a pivotal mounting upon one of said terminals and held by a latch mechanism in contact with the other said terminal, and a fuse-link within the tube and completing the circuit therethrough; the said latch mechanism including a terminal member supported on the said other terminal and a movable member supported movably upon the said fuse tube, these said latch members when in normal closed circuit position engaging one another only by pressure substantially transverse to the length of the tube, and the said pressure exerting substantially no strain on the said fuse link.

2,323,214
GLASS TUBE BAKING APPARATUS
Roland M. Gardner, Swampscott, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application May 28, 1941, Serial No. 395,555
5 Claims. (Cl. 263—6)



1. An oven for baking glass tubing having: a series of spaced rollers; means for rotating said rollers; means for moving said rotating rollers through said oven; a series of ejector bars at the exit of said oven; and spring actuated means for causing said ejector bars to project themselves into the space between said rollers.

2,323,215
SOUND RECORDER AND REPRODUCER
Morris A. Gilman, Chicago, and Carl Anderson, Oak Park, Ill., assignors to Actino Laboratories, Inc., a corporation of Illinois
Application August 5, 1939, Serial No. 288,668
3 Claims. (Cl. 88—18.7)



1. In apparatus of the character set forth provided with a sound mechanism equipped with a stylus for engaging sound film, a reel for carrying an endless ribbon of sound film comprising a central support member adapted to receive a plurality of layers of film thereabout, said layers being in a substantially horizontal plane, a rotatable horizontal disc mounted beneath said layers of film and frictionally engaging the lower edges thereof, a film carrying guide member secured to said support member and projecting therefrom in a plane transverse to said first-mentioned plane, said guide member being turned to project at its end in a plane substantially parallel to said first-mentioned plane, means for guiding said film from said mechanism to the outer layer on said support member, a cover member extending over layers of film and supported thereabove, means carried by said cover member and engaging the upper edges of said layers of film to maintain the same in alignment, a plurality of rollers depending from said cover member and arranged to engage the periphery of the outer layer of film, said rollers being radially adjustable with respect to said cover member, and means for rotating said disc to feed the inner layer of film from said reel.

2,323,216
METHOD OF MAKING RESILIENT COUPLINGS
Max Goldschmidt, Leicester, England, assignor to Metalastik Limited, Leicester, England, a British company
Original application July 2, 1942, Serial No. 449,380. Divided and this application January 13, 1943, Serial No. 472,286. In Great Britain February 26, 1941
3 Claims. (Cl. 29—148)



1. The method of making a resilient coupling or mounting for resiliently connecting two relatively movable members which comprises providing a plate, striking out a central part of the plate to simultaneously form an inner part having a central attaching portion adapted to be connected to one member and arms projecting outwardly therefrom, and an outer part having an attaching rim adapted to be connected to the other member and inwardly projecting arms formed through striking out the first mentioned arms, turning the parts to dispose the arms of one part in aligned face to face relation to the arms of the other part, and connecting the arms of one part to the arms of the other by vulcanizing rubber to their adjacent faces.

2,323,217
DISPENSING TOOL
Joseph A. Graf, Findlay, Ohio
Application April 30, 1942, Serial No. 441,144
1 Claim. (Cl. 221—147)

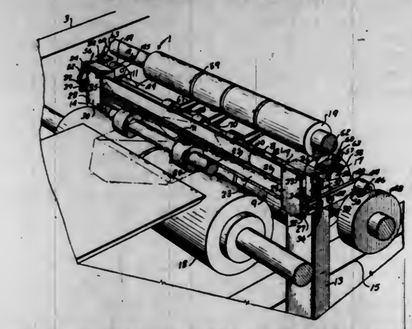


A dispensing tool embodying a reservoir having a terminal port bounded by a seat approximately flush with the exterior of the reservoir, and a plunger having an extension therefrom provided with an outer bulbous end, said plunger normally coacting with the port against flow of liquid past the seat, said extension protruding through the port and differing in diameter from the port to a degree to prevent free flow of the liquid but to carry a measured amount of liquid distributed along the length of the extension as a film, said bulbous end being responsive to external pressure for retraction of the extension to slide past the seat into the reservoir, thereby to be exposed to the contents of the reservoir to pick up thereon a measured quantity and then movable to carry said measured quantity of content therewith adapted to be wiped therefrom in a succeeding retraction.

2,323,218
TAENIACIDE
James Erwin Guthrie, Ashland, Ohio, assignor to Dr. Hess & Clark, Inc., Ashland, Ohio, a corporation of Ohio
No Drawing. Application October 13, 1941, Serial No. 414,889
4 Claims. (Cl. 167—53.1)

1. A taeniacide composition comprising a tin salt of the group consisting of stannous maleate, stannous fumarate, and stannous butyrate.

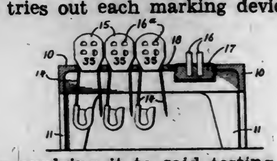
2,323,219
APPARATUS FOR OBVIATING DISTORTION IN GUMMED MARGINS OF SHEETLIKE ARTICLES
Lynn O. Hayes, St. Louis, Mo., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a corporation of New York
Application July 18, 1939, Serial No. 284,233
15 Claims. (Cl. 93—61)



2. In an envelope making machine, means for obviating curl in the gummed sealing flaps of envelopes including, means for advancing envelope blanks, a bar-like member supported in the path of the travel of the blanks and arranged to engage the gummed surfaces of said flaps as they are moved thereunder, a cooperating member offset from the bar-like member and arranged to engage the opposite surface of said flaps on the opposite side of said path, and means yieldingly supporting said cooperating member in contact with the flaps and movable past the bar-like member for effecting progressive offset of the flaps simultaneously with advance of the flaps under said first named member.

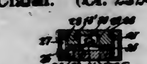
2,323,220
KEYING PIN HOLDER FOR LAUNDRY MARKING
William H. Hewitt, Chicago, Ill., assignor to G. A. Braun, Inc., Chicago, Ill., a corporation of Illinois
Application August 13, 1941, Serial No. 406,641
3 Claims. (Cl. 40—19.5)

3. In a pin tray having rows of readily countable places for the reception of a plurality of work-marking devices which are provided with identical keying means for that particular tray, wherein one marking device fits into each place and the plurality of marking devices have the same identifying character as the tray, means for testing each work-marking device, comprising a single testing means carried on the front side of the tray and which corresponds to the keying means of the work-marking devices, by which an operator tries out each marking device by first



manually applying it to said testing means, to confirm the fact independently of observing the identifying characters that the marking device belongs to that particular tray, and removing the marking device from the testing means and inserting said marking device into one of the places in the tray, to leave said testing means free for testing the next marking device.

2,323,221
PORTABLE NOVELTY BANK
Harry Hockey, Bronx, and Robert Breen, New York, N. Y.
Application August 7, 1941, Serial No. 405,868
1 Claim. (Cl. 232—55)

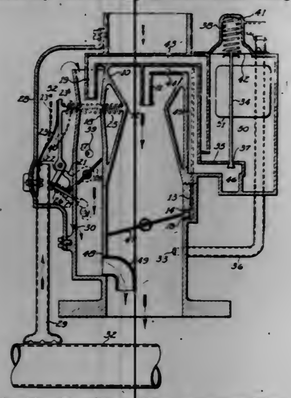


A novelty bank having a coin housing slidably supporting a member with an opening extended therethrough from the top to the bottom and a trap door covering the bottom of said member thereby forming a drawer, leaf springs having their top ends secured to said member adjacent the front end thereof, and trunnion elements extending toward one another formed on the bottom ends of said leaf springs and engaging complementary openings formed in the sides of said trap door pivotally supporting said trap door to pivot relative to said member, whereby when said drawer is within said housing said trap door will pivot downwards permitting a coin placed within said drawer to drop into the interior of said housing, a stop at the rear of said drawer preventing its removal from the housing, and means for spreading said leaf springs to disengage said trunnion elements from their respective openings to free said member comprising a handle rotatively extended into an opening formed in said member, a cam mounted on the inner end of said handle, and stems extending toward one another projecting from said leaf springs and having their inner ends bearing against opposite sides of said cam to be urged outwards, spreading said leaf springs when said handle is turned to effect turning said cam.

2,323,222
CARBURETOR STARTING DEVICE
George M. Holley, Grosse Pointe Farms, Elmer Olson, Ferndale, and Stanley M. Udale, Detroit, Mich., assignors to George M. Holley and Earl Holley
Application April 28, 1941, Serial No. 390,719
3 Claims. (Cl. 261—23)

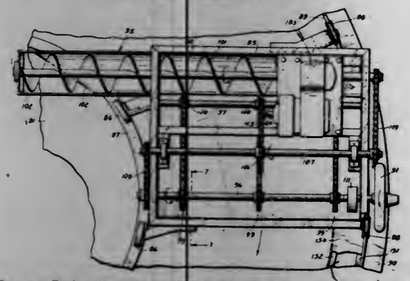
1. A starting means for an automobile carburetor in conjunction with a carburetor having a mixing chamber, a nozzle discharging therein, a mixture outlet, air throttle flow restricting means

therein, comprising a separate air by-pass around said throttle leading to the mixture outlet, a fuel nozzle discharging therein, a mixture outlet, a second throttle of the butterfly type therein, said butterfly throttle having the upstream leg longer than the downstream leg, whereby the air flow through the said by-pass tends to close the butterfly throttle, a movable finger carried



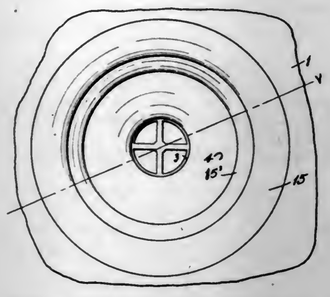
by the butterfly throttle, a movable stop with which the movable finger engages to limit the closing position of the butterfly throttle, a thermostat adapted to move with the movable stop, and spring means for maintaining the butterfly throttle in a partially open position until the engine fires, said thermostat being adapted when cold to prevent said butterfly throttle closing.

2,323,223
FLOTATION TANK
Alvin H. Johnson, Mount Vernon, N. Y.
Application April 3, 1941, Serial No. 386,590
1 Claim. (Cl. 210—55)



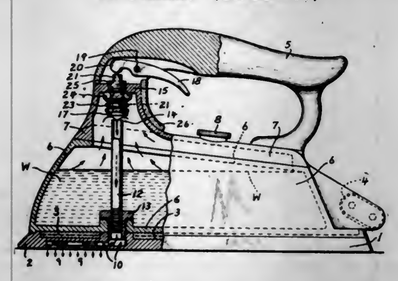
In a flotation apparatus of the character described, a circular tank adapted to accommodate a liquid from which accumulated supernatant material is to be removed, a centrally-disposed discharge receptacle, a collector mounted for continuous advancement along an arcuate path concentric with the tank, said collector comprising a forward partially submerged scoop and a collecting trough at the rear end of said scoop, said trough extending transversely with respect to the direction of advancement of the collector and having one end arranged to empty into said discharge receptacle, means mounted for advancement with said collector for continuously engaging the supernatant material encountered by said scoop and sweeping it rearwardly into said scoop and thence into said collecting trough, and means in said trough for transporting said material lengthwise of the trough toward said discharge receptacle.

2,323,224
DRAIN VALVE HOUSING
Frederick C. Kuhnle, Grand Haven, Mich.
Application December 28, 1940, Serial No. 372,188
2 Claims. (Cl. 4—286)



1. A drain valve housing comprising a hollow cylindrical body portion having an upward and outward extending flange, a shoulder at the inner periphery of the cylindrical body portion in spaced apart relation to the upward and outward extending flange, an annular groove in the inner periphery of the said cylindrical tubular portion in spaced apart relation to the said shoulder and a casing of thin metal extending over the said upward and outward extending flange and extending under the said flange at the periphery thereof and engaging the said shoulder and extending into the said annular groove substantially as described.

2,323,225
STEAM PRESSING IRON
James C. Ledbetter, New York, N. Y.
Application September 3, 1940, Serial No. 355,160
24 Claims. (Cl. 38—77)



4. A steam pressing iron comprising a water boiling chamber, a sole plate having orifice means in its ironing surface for discharging steam into the work, and means for heating the iron, in combination with conduit means provided with an outlet port for conveying steam from the chamber to the orifice means, said conduit and orifice means being the only safety outlet to atmosphere for the escape of steam to relieve boiler pressure, a valve within the chamber coacting with the outlet port, a flexible metallic diaphragm of larger diameter than the conduit means and being sealed within the chamber and operatively carrying the valve on one side thereof to open and close the outlet port, and means cooperating with the other side of the diaphragm inside the chamber and extending therefrom outwardly through the chamber for varying or regulating the flexure of said diaphragm.

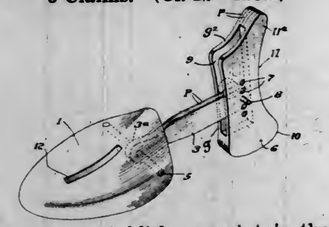
2,323,226
PREPARATION OF 2-CHLOROBUTENE-2
Arthur A. Levine and Oliver W. Cass, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 12, 1938, Serial No. 234,691
4 Claims. (Cl. 260—654)

1. The method of preparing 2-chloro-butene-2 comprising contacting vapors of 2,3-dichlorobutane with barium chloride at a temperature of 200 to 300° C.

2,323,227
PREPARATION OF 2,2,3-TRICHLOROBUTANE
Arthur A. Levine and Oliver W. Cass, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 12, 1938, Serial No. 234,692
1 Claim. (Cl. 260—658)

The method of preparing 2,2,3-trichlorobutane which comprises chlorinating 2-chloro-butene-2 in the substantial absence of light in the liquid phase at a temperature of 0° C. to the atmospheric reflux temperature of the reaction mixture, in the presence of stannic chloride.

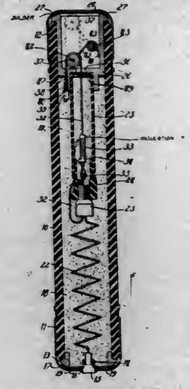
2,323,228
SHOE FORM
Albert F. Levaggi, Brockton, Mass., assignor, by mesne assignments, to Robert Channing Company, East Bridgewater, Mass., a corporation of Massachusetts
Application June 4, 1942, Serial No. 445,693
3 Claims. (Cl. 12—128.1)



1. A form to establish or maintain the desired condition of a shoe, comprising a solid contoured fore part having a vertical slot extending from the upper surface of the instep area through the bottom surface and continued completely through its rear face, a rear part having a slot open along its bottom and front faces, a link entrant of said slots and laterally sustained therein against twisting movements, pivot means connecting said link to said fore part and to said rear part, said rear part and said link constituting a toggle and said rear part including a portion intermediate said pivot means manually engageable to actuate said toggle to extend said form into its operative position or to collapse said form into its inoperative position.

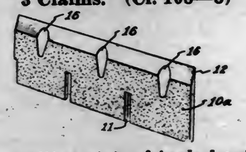
2,323,229
FUSE CONSTRUCTION
Sigurd I. Lindell, Chicago, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application August 2, 1940, Serial No. 349,899
3 Claims. (Cl. 200—117)

1. In a fuse device, in combination, an insulating casing, terminals at the ends of said casing, a conductor within said casing interconnecting said terminals and having one portion that always operates first to open the circuit between said terminals on overload and another portion which operates following the operation of said one por-



tion, a roller at one end of said casing over which said one portion of said conductor is positioned, means rotatably mounting said roller about an axis spaced from its axis of rotation, and means for effecting rotation of said roller about the first mentioned axis to withdraw said one portion of said conductor on operation thereof.

2,323,230
COMPOSITION SHINGLE
Trush McAvoy, Cincinnati, Ohio
Application February 28, 1941, Serial No. 381,092
3 Claims. (Cl. 108—8)

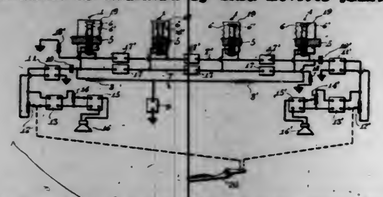


1. A composition strip shingle having the body portion thereof which is overlapped in laying of substantially uniform thickness and an upper edge for said portion which is sharply slanted from the top surface toward the bottom surface thereof, thus presenting substantially no water retaining edge along the upper line of the shingle as laid and indentations interspaced along said upper edge extending into the sloped off portion, and depending thence toward the exposed part of the shingle, to serve as water drainage channels.

2,323,231
METHOD AND APPARATUS FOR THE PRODUCTION OF MUSIC
Frederick D. Merrill, Jr., Millburn Township, Essex County, N. J., assignor to Miessner Inventions, Inc., Harding Township, Morris County, N. J., a corporation of New Jersey
Application December 15, 1941, Serial No. 423,010
10 Claims. (Cl. 84—1.11)

1. In an electronic piano including vibratable strings progressively tuned to the several notes of the scale: the combination of two separated electro-acoustic translating devices; and means for translating electric oscillations from said strings and supplying the same to said devices, said means being characterized by a joint selec-

tivity with respect to said devices and with respect to said strings, whereby to cause the different notes as radiated by said devices jointly to



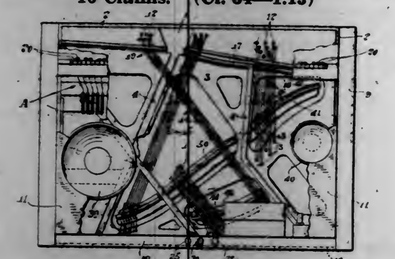
have respective apparent sources dependent on note frequency.

2,323,232

APPARATUS FOR THE PRODUCTION OF MUSIC

Benjamin F. Miessner, Harding Township, Morris County, N. J., assignor to Miessner Inventions, Inc., Harding Township, Morris County, N. J., a corporation of New Jersey

Application May 14, 1940, Serial No. 335,064
16 Claims. (Cl. 84—1.13)



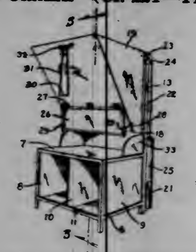
1. In a musical instrument including a load circuit for the utilization of sound-representing oscillations: the combination of a plurality of variously tuned vibrators having magnetic fields and disposed essentially in a plane; and a closed conductive circuit electrically feeding said load circuit, extending transversely of said vibrators with operatively substantially uniform structure continuously throughout that extent and having portions adjacent to said vibrators to be approached and receded from by the vibrators and thereby magnetically influenced at the vibrator vibrational frequencies.

2,323,233

DISPENSING DEVICE

Morris Miller, Detroit, Mich., assignor to Miller Laundry Machinery Company, Detroit, Mich., a partnership

Application April 17, 1941, Serial No. 388,952
3 Claims. (Cl. 221—146)



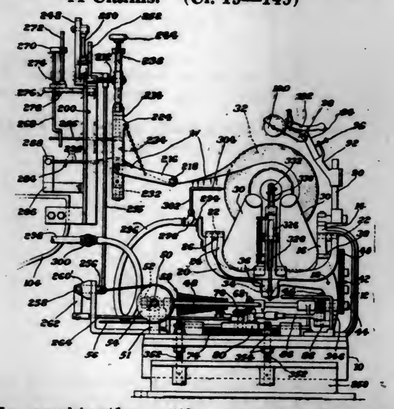
1. In a device of the character described in combination, a structural frame including a table top, a hopper positioned above the table top and in spaced relation therefrom, structural members forming a vertical continuation of the table top at the rear of the table top, hinged means connecting the lower end of the hopper with the continuation structural members at an elevation so that the front surface of the hopper will lie in close parallel relation with the plane of the table top, said hopper having an opening at the bottom thereof, and a hinged panel forming a part of the front wall of the hopper adjacent the bottom opening, the distance between the bottom of the hopper and the top of the table being such that upon lowering the hopper to a horizontal position the said hinged panel strikes the table top and is moved into alignment with the front surface of the hopper wall, the transverse width of said opening being greater than the distance between the table top and the bottom of the hopper.

2,323,234

WEB-GUIDING, TENSIONING, FULLING, AND SMOOTHING MECHANISM FOR FORMING MACHINES

Le Baron Wallace Neely, Amesbury, Mass., assignor to Merrimac Hat Corporation, a corporation of Massachusetts

Application April 30, 1941, Serial No. 391,122
44 Claims. (Cl. 19—149)



1. In combination with apparatus for operating upon a fibrous web which includes web feeding means and a forming device adapted to draw the web forwardly thereto while reciprocally swinging its ends toward and away from the the feeding means, web guiding and tension controlling means comprising a control member adapted to engage a surface of the web, transversely thereof, between said feeding means and said forming device to provide an offset in the web path, and means to reciprocally swing said member about an axis substantially parallel to the axis of swing of said forming device in timed relation to the swinging movements of said forming device.

44. In combination with apparatus for operating upon a fibrous web which includes a rotary forming device adapted to wind the web thereon, a bed of rollers arranged in pairs longitudinally of said forming device and rotatably supporting the same, means for rotating said rollers to rotate said forming device, and a frame supporting said rollers for reciprocal swinging movements relative to the web to and from a

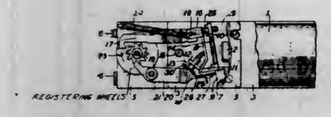
position such that a portion of the web is caused to overlap an end of the forming device, means for pressing and smoothing the overlapping web portion upon said end of the device comprising an arm projecting outwardly from said frame below a pair of said rollers adjacent said end of the forming device, a lever pivoted to said arm for rocking about an axis transverse to the axis of rotation of said forming device in a vertical plane between said pair of rollers, said arm being provided with means for adjustably positioning said lever pivot longitudinally of the axes of said rollers, a presser member connected to said lever and disposed above said rollers, and means acting upon said lever during predetermined partial swinging movement of said frame to rock said lever and said member about said pivot axis to cause said member to press a said overlapping web portion upon said end of the forming device and to remove said member to an inoperative position spaced from said end of the forming device.

2,323,235

ELECTROMAGNETIC COUNTING DEVICE

Robert Nordenswan, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 7, 1940, Serial No. 364,640
3 Claims. (Cl. 235—92)



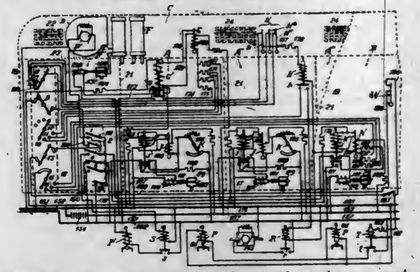
2. In an electromagnetic counting mechanism having a counting wheel, an electromagnet, an armature therefor, a spring for returning the armature to a normal position after it has been actuated and released by said magnet, a ratchet wheel attached to said counting wheel, a pawl attached to said armature and engaging the teeth in said ratchet wheel for rotating it and said counting mechanism wheel one step equal to the distance between two adjacent teeth of said ratchet wheel for each attractive movement of the armature to realign the counting wheel in a new position, a pivoted holding pawl having a holding end engaging and fitting snugly between opposite surfaces of two teeth in said ratchet wheel and having its opposite end weighted to maintain said holding end in said position normally, and a flexible spring member having one end adjustably attached to the armature so that the other free end will normally engage the weighted end of the holding pawl when the armature is restored and the holding pawl has its holding end in its normal non-actuated position between two teeth of the ratchet wheel and operative on the return of the armature to normal position under control of the restoring spring for engaging said weighted end of the holding pawl to cause the holding end thereof to engage and operate on one side surface or the other between two adjacent teeth of the ratchet wheel in case this wheel was not rotated to accurately align the counting wheel into the normal new position and to thereby force the ratchet wheel to occupy the new position to accurately align the counting wheel.

2,323,236

TEMPERATURE REGULATING AND VENTILATING SYSTEM

Paul B. Parks, Oak Park, and Timothy J. Lehane, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York

Application July 5, 1940, Serial No. 344,122
10 Claims. (Cl. 257—3)



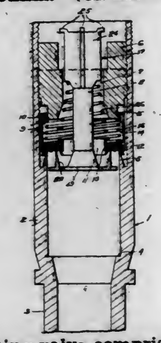
10. Means for regulating the temperature within a space comprising ventilating means for circulating air through the space, means for either heating or cooling this circulating air to desired selected temperatures, means independent of the ventilating means for individually heating the air in the space, means for locking all heating means out of operation when the cooling means is operating, and manually set electrically actuated control means for putting the ventilating means into or out of operation and rendering both the heating and cooling means ineffective when the ventilating means is out of operation, and means rendered operative only when the ventilating means is out of operation for controlling the individual space heating means to prevent the space temperature from falling below a predetermined minimum.

2,323,237

TIRE INFLATING VALVE

Ernest Payne, Repton, Ky.

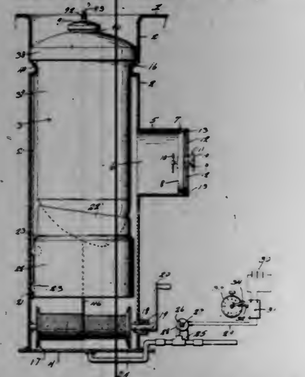
Application April 9, 1942, Serial No. 438,336
1 Claim. (Cl. 137—69.5)



A tire inflating valve comprising a tubular casing, a seat in said casing, a removable plug, having an opening therein, threadedly mounted for adjustment in the casing, said plug including a reduced lower end portion and an external flange on said lower end portion, an annular, substantially channel-shaped relief valve member operable in the casing and engageable with the seat, a ring on said relief valve member rotatably and slidably encircling the reduced end portion of the plug, an internal, notched flange on the ring engageable with the first named flange for

connecting said relief valve member to said plug for removal therewith from the casing after an initial independent movement of said plug, a coil spring between the plug and the relief valve member for yieldingly engaging said relief valve member with the seat, a seat in the annular relief valve member, a stem extending through said annular relief valve member, a guide on one end of the stem operable in the plug, an inflating valve member on the other end of the stem engageable with the second-named seat, and a coil spring encircling the stem and having one end engaged with the relief valve member and its other end engaged with the guide for engaging the inflating valve member with the second-named seat.

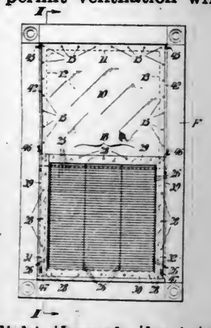
2,323,238
SUBMARINE ESCAPE
Stephen A. Phillips, Everett, Wash.
Application October 19, 1940, Serial No. 361,954
9 Claims. (Cl. 114—16.7)



1. In a submarine escape, a pressure lock cylinder opening at one end through the wall of and extending into the submarine, said cylinder having a hatch closed opening leading thereinto from within the submarine, an escape cylinder adapted to enter the lock cylinder, a hatch closed opening in the wall of the escape cylinder adapted to aline with the opening of the lock cylinder, means forming a water-tight joint between the lock cylinder and the escape cylinder when the latter is within the lock cylinder, a release cable coupled with the escape cylinder and adapted to be paid out from the the lock cylinder, means within the lock cylinder against which the entering end of the escape cylinder positions when it is in the lock cylinder, the inner end of the escape cylinder having an eccentric pointed end and the means against which the cylinder positions having an upwardly facing seat conforming to said eccentric pointed end to receive the same to effect the orienting of the escape cylinder in the lock cylinder to aline said hatch controlled openings.

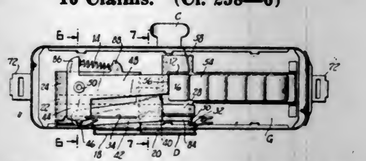
2,323,239
BLACK-OUT SCREENING
Henry N. Renton, Wyncote, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 19, 1942, Serial No. 431,465
12 Claims. (Cl. 160—104)

1. Black-out screening for a window, comprising a fixed dark non-reflecting panel of sheet material for covering approximately half the area of the window opening, said panel having one of its crosswise edges and its side edges secured to the blind stop of the window frame; an auxiliary slide sash for the other half of the window opening normally having its upper edge in overlapping relation for light-tightness with the panel and movable into coincidence with the latter, said sash including a foundation frame, a multiplicity of horizontally-arranged louver elements within the frame area fashioned to invert V cross section from sheet material having the characteristics aforesaid and spaced vertically with the sides of one extending well below the ridge or crest of the element immediately beneath it to permit ventilation while preventing



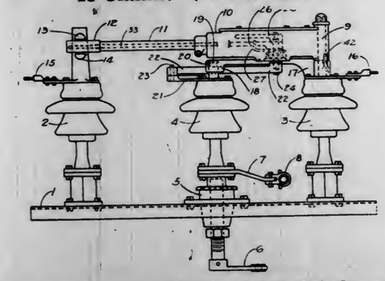
passage of light through the intervals between them, strips of like sheet material covering the bars of the foundation frame, the covering strips on the side bars of the frame projecting inward beyond said side bars to overlap the ends of the louver elements thereby to hold the latter assembled, one strip on each side bar also extending outward beyond the edges of said side bars to provide laterally projecting flanges; and guide strip elements secured to the window frame and forming with the blind stops of the latter, grooves into which the laterally projecting flanges on the sash extend for sliding guidance in the window structure.

2,323,240
TOY RAILWAY MAIL CAR OR THE LIKE
Willis E. Rexford, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application September 12, 1939, Serial No. 294,416
10 Claims. (Cl. 258—6)



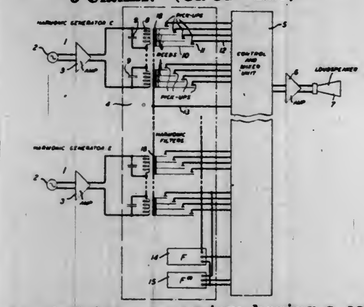
2. A toy railway car comprising a wheeled car body, an inclined chute or support in said car body for a series of objects, said objects when disposed on said chute tending to move gravitationally to the lower end of the chute, an ejector movable transversely of the car at the lower end of the chute in a direction parallel to the bottom of the car, a door at the side of the car body at the lower end of the chute, the lowermost object being disposed between the ejector and the door, linkage, and a repeatedly operable power means to actuate said linkage carried by said car, said linkage operatively interconnecting the power means and the ejector and the door, whereby said power means functions to open said door and to operate the ejector to forcibly eject the lowermost object sidewardly from the car.

2,323,241
ELECTRIC SWITCH
Olan Richardson, Homewood, and John R. Caldwell and William A. Gussow, Birmingham, Ala., assignors to Southern States Equipment Corporation, a corporation of Alabama
Application October 25, 1940, Serial No. 362,746
13 Claims. (Cl. 200—48)



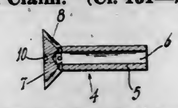
2. In an electric switch, an insulated contact, a switch arm movable into and out of engagement with the said contact, the said switch arm including an insulating tube, a rigid conductor within the tube, spring means to bias the conductor longitudinally of the tube towards its open circuit position; together with closing means operable to move the switch arm towards closed circuit position and simultaneously to move the said rigid conductor longitudinally of the tube towards its closed circuit position within the tube and thereby to stress the said spring means.

2,323,242
ELECTRIC ORGAN SYSTEM
Albert R. Rienstra, Garden City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 396,138
5 Claims. (Cl. 84—1.23)



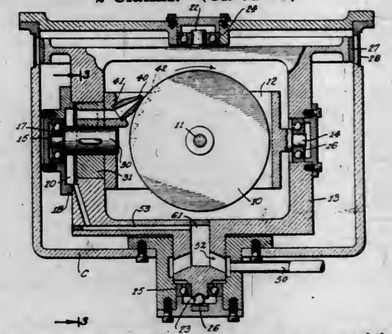
1. An electric organ system having a conventional twelve-note octave comprising the combination of five harmonic generators, the fundamental frequencies whereof are tuned in equal temperament to the first five chromatic tones of an octave below the lowest octave on the keyboard, a filter system comprising a series of harmonically related mechanically vibrant elements for each generator responsive to the output thereof for segregating into separate channels the several harmonics produced by each generator, and a frequency divider system responsive to the output of some of the channels to provide two of the twelve notes in the first two octaves and some of the harmonics thereof, whereby all of the fundamentals and audible harmonics for the entire instrument are provided on a substantially correct equally tempered basis.

2,323,243
SMOKE DISPERSER FOR PIPES
Ferdinand T. Ritter, Long Beach, Calif.
Application February 24, 1942, Serial No. 432,101
1 Claim. (Cl. 131—229)



A smoke disperser for pipes comprising a tubular member, circular in cross section and of a diameter adapting it to fit snugly in the smoke passage of a pipe stem, a solid head at the outer end of said tubular member, said head being frustro-conical and tapered toward the tubular member for snug fit into a flared mouth of the smoke passage of the pipe stem, the bore of said tubular member being extended into the inner end of said head, the inner end of the head being formed with radially extending smoke outlet openings leading from the inner end portion of the said bore and spaced from each other circumferentially of the head with each opening in opposed relation to another one of the openings, said head being formed with grooves in its annular side surface extending longitudinally of the head in spaced relation to each other circumferentially thereof from the outer end of the head to the junction of the head with the tubular member and at their inner ends communicating with outer ends of the said smoke outlet openings, and said head being provided with means for turning the smoke disperser and moving the grooves of its head into and out of position to register with companion grooves formed in walls of the mouth of the smoke passage of the pipe stem.

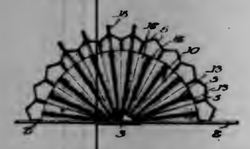
2,323,244
SELF-ERECTING MEANS FOR GYROSCOPIC DEVICES
Charles B. Roede, Ridgefield, N. J., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York
Application June 17, 1941, Serial No. 398,386
2 Claims. (Cl. 74—5)



1. In a gyroscopic instrument comprising a non-pendulous gyro, a frame in which said gyro is journaled for rotation, a second frame in which said first frame is pivotally mounted, a fixed support in which said second frame is pivotally mounted for movement about an axis at an angle to the pivotal axis of said first frame and to the rotational axis of said gyro, means for applying torques in either direction around the pivotal axis of mounting of said second frame, said means including a source of fluid pressure, a plurality of nozzles carried by said second frame and positioned so as to discharge on opposite sides of the

pivotal axis of said second frame in a plane at an angle thereto and means whereby said fluid pressure is normally disconnected from said nozzles, and means whereby the connection of said fluid pressure to said nozzles is selectively controlled solely by the relative displacement of said first and second frames.

2,323,245
RECORD HOLDER FILE
Jack E. Schenker, Chicago, Ill.
Application January 16, 1942, Serial No. 426,981
11 Claims. (Cl. 129—15)



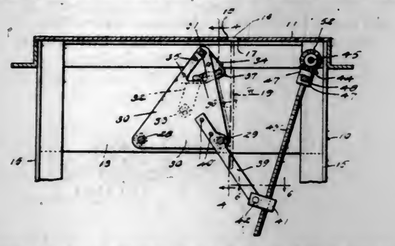
1. An envelope of the kind described comprising a pair of side walls secured together adjacent opposite side edges and a cover portion secured to the upper edges of said side walls, said portion having an object receiving slit therein, and a longitudinally extending fold line upon which the cover portion may be folded back upon itself and brought substantially into the planes of said side walls.

2,323,246
PRODUCTION OF MULTICOLORED MOTION PICTURES WITH SOUND TRACK
Wilhelm Schneider, Fritz Kuhbier, and Norbert Senger, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 14, 1939, Serial No. 309,243. In Germany December 17, 1938.
5 Claims. (Cl. 95—88)

1. In the process of producing color picture film with an infrared impermeable sound track involving exposing, color developing and bleaching the sound and picture areas of the film, the step of rendering the color developed and bleached sound track impermeable to infrared which comprises applying only to the sound track a viscous composition of a thickening agent and a compound capable of reacting with the products of the bleaching of the silver to produce a complex metal compound, removing the composition entirely from the area to which it is applied, and fixing the picture and sound areas.

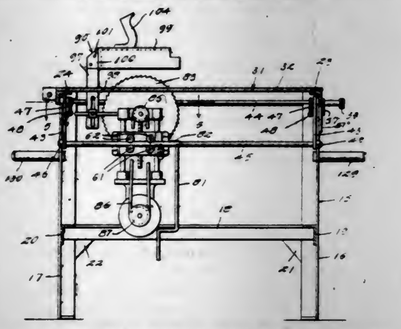
2,323,247
SUSPENSION MEANS FOR RECIPROCAL SAWS
Gilbert J. Sellmeyer, Indianapolis, Ind.
Application May 5, 1941, Serial No. 391,971
6 Claims. (Cl. 143—6)

5. A saw carriage suspension for mounting on a saw table frame comprising a pair of end plates, carriage supporting tracks carried by said end plates, means supporting said plates for combined swinging and lateral movement whereby to angularly adjust the carriage relative to the table, said supporting means including a pair of cam plates, means securing said cam plates to the outer side of each end plate and formed with a cam track, links pivotally secured to said frame and said end plates whereby said end plates may swing on said links and shift laterally with the swinging of said links, a roller for each cam track



carried by said frame, and means for adjusting said end plates.

2,323,248
PORTABLE POWER DRIVEN SAW
Gilbert J. Sellmeyer, Indianapolis, Ind.
Application April 15, 1940, Serial No. 329,776
3 Claims. (Cl. 143—47)

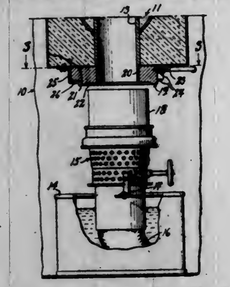


2. In a portable saw comprising a frame, a slotted saw table on said frame and angularly adjustable saw suspension means, a saw and driving means beneath said table, said suspension means comprising a pair of triangular-shaped end plates immediately within the ends of said frame, a supporting shaft fixed to said plates and rockably carried by said frame below said table, segmental worm gears fixed to said shaft adjacent said plates, a pair of worm shafts rotatably carried by said frame, a worm on each worm shaft meshing with sad worm gear, a common driving shaft for said worm shafts, and a spaced apart pair of parallel guide tracks fixed to the lower portion of said plates for supporting said saw and said saw driving means for longitudinal movement with respect to said table.

2,323,249
REFRIGERATOR
Harry C. Shagaloff, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application December 26, 1940, Serial No. 371,626
11 Claims. (Cl. 62—1)

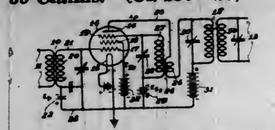
2. In a refrigerator having a heat-receiving element provided with a flue, a burner including a chimney removably mounted beneath said element with said chimney substantially in alignment with said flue, a member supported for movement independent of movement of said burner or chimney and substantially axially of the flue and chimney, said member having a portion in movable engagement with the lower end

of the flue and another portion adapted to engage the top of the chimney and effect a seal be-



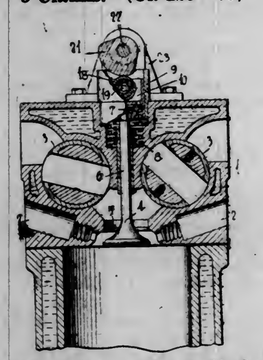
tween the contiguous ends of the flue and chimney.

2,323,250
SIGNALING SYSTEM
Jerome C. Smith, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1933, Serial No. 654,421
55 Claims. (Cl. 250—20)



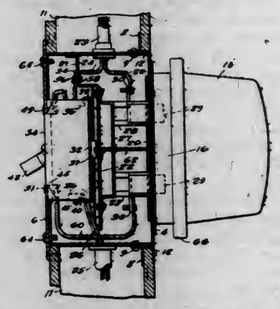
1. In a signaling system, a multi-electrode electric discharge device having a pair of negative control grids arranged to operate in series relation to each other in the electronic stream of said device, a positive screen electrode between said grids, a signal input circuit connected with one of said control grids, a third grid, and means for coupling said third grid and the other of said control grids.

2,323,251
VALVE OPERATING MECHANISM
Thomas Noah Smith, San Antonio, Tex.
Application October 1, 1941, Serial No. 413,198
5 Claims. (Cl. 123—79)



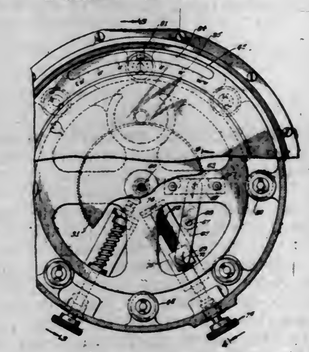
1. The combination with a cylinder head, of a poppet valve mounted for reciprocation therein, and having a stem, a cylindrical guide sleeve set into said head, a block slidable in said guide sleeve, and a cam shaft having a cam extending into said guide, said block constructed to engage said valve stem and also having means to engage said cam.

2,323,252
ELECTRIC SERVICE INSTALLATION
Harry F. Sparkes, West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 19, 1941, Serial No. 407,453
5 Claims. (Cl. 175—226)



1. In an electric service installation, a receptacle including a pair of oppositely disposed openable covers each of which has an opening therein, means for supporting said receptacle at least partly within a building wall with said covers accessible at opposite sides thereof, a detachable type meter disposed on the first of said covers with its terminal blades extending through the opening therein, contact jaws disposed in said receptacle for detachably engaging the meter terminal blades, a plurality of circuit breakers having operating handles, means for individually securing each of said circuit breakers in an operating position in said receptacle in response to a thrusting movement thereinto, said operating positions being such as to secure said breakers in back-to-back relationship to said contact jaws with the operating handles extending through the opening in the second of said covers, and means for adjusting the position of said breaker securing means relative to the end of said receptacle closed by said second cover.
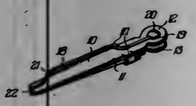
2,323,253
REPEATER SYSTEM FOR MAGNETIC COMPASSES
Elmer A. Sperry, Jr., New York, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York
Application June 17, 1941, Serial No. 398,388
1 Claim. (Cl. 33—222)



In a repeater system for magnetic compasses

comprising a master magnetic compass having a sensitive element, a repeater compass having a rotatable responsive element, means whereby said repeater element is actuated in synchronism with said sensitive element, said means including a self-synchronous transmission system comprising motors connected respectively to said sensitive element and said repeater element, and means whereby said motors rotate a plurality of revolutions for each revolution of said sensitive element, the improvement which consists in means whereby the repeater element may be corrected for magnetic deviation, said last-named means comprising means whereby said repeater element and its respective motor may be rotated in azimuth relative to said sensitive element without changing the relationship of said sensitive element to said transmission system, a pointer adapted to be actuated by said preceding means, a fixed scale cooperating with said pointer for indicating the amount of said relative movement to indicate the amount of the deviation correction, and means whereby said repeater element may be actuated to bring the same within synchronizing range of the sensitive element, said last-named means comprising means whereby said repeater element may be rotated relative to said sensitive element and said transmission system and relative to said pointer and said scale whereby the relationship of said pointer and said scale remains unaffected by said last-named rotation of said repeater element.

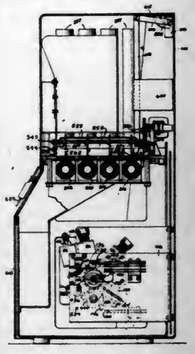
2,323,254
HAIR CURLER
Bernard A. Sterling, Chicago, Ill.; Sara Sterling executrix of said Bernard A. Sterling, deceased
Application June 1, 1942, Serial No. 445,266
17 Claims. (Cl. 132—33)



1. A hair curler comprising a pair of separate curler parts having mandrel forming elements and adapted to be joined together in cooperating relation said parts being formed with portions thereof including the mandrel elements to lie in substantially parallel planes, said mandrel elements forming a mandrel about which the hair is adapted to be wound when said parts are in cooperating relation, one of said parts being removable endwise in the plane of its mandrel forming position from one end of the wound curl and the other part being removable endwise in the plane of its mandrel forming position from the opposite end of the curl.

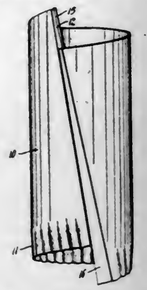
2,323,255
COIN CONTROLLED VENDING MACHINE
George R. Sutherland, Hayfield, Minn.
Application July 26, 1940, Serial No. 347,668
40 Claims. (Cl. 194—10)

34. In a vending machine, article dispensing mechanism, credit mechanism settable in accordance with the value of a coin received and resettable on dispensing operations in accordance with the value of articles dispensed, coin actuated means for setting up credit in the credit mechanism, means adapted to reduce the credit setting of the credit mechanism step by step, electrically controlled stop means controlling and limiting each operation of the credit reducing means, and means controlling operation of the article dispensing mechanism operated by the



credit mechanism for limiting the dispensing of articles in accordance with their value.

2,323,256
STOVEPIPE SEAM
Frank W. Thompson, New Philadelphia, Ohio
Application April 1, 1941, Serial No. 386,293
2 Claims. (Cl. 138—74)

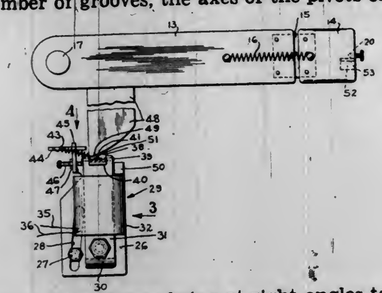


1. In a stovepipe, a sheet of metal having one marginal portion formed with a longitudinally tapered groove the opposite sides of which constitute pockets formed by overhanging portions of the metal structure disposed in parallelism with the bottom wall of the groove, and a tongue on the other marginal portion of the sheet, which tongue is tapered complimentary to said groove, said tongue being receivable in said groove including the lateral pockets of the latter.

2,323,257
STEPBACK MECHANISM FOR PHONOGRAPH TRANSCRIBERS
Lincoln Thompson, Cheshire, and Robert Leland Stone, Hamden, Conn., assignors to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application April 17, 1941, Serial No. 388,956
8 Claims. (Cl. 274—14)

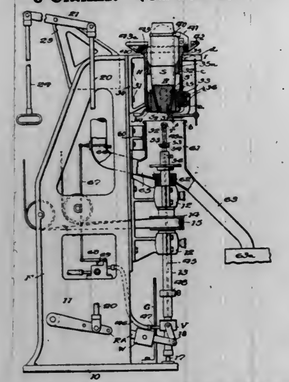
4. In a phonograph transcriber, a reproducer arm carrying a pickup needle mounted to swing with respect to a rotating disc record, said reproducer arm having a cam surface, a slowly-movable sluggish iron core having a solenoid coil mounted thereon, a rapidly-movable iron clutch lever pivoted to said core, a fixed armature post for attracting said core when said coil is energized, said clutch lever being more rapidly attracted by said core than said core is attracted by said post, whereby said cam surface will first be engaged by said clutch lever and thereafter

moved more slowly by the swinging of said core to stepback said needle slowly a predetermined number of grooves, the axes of the pivots of said



lever and said core being at right angles to each other.

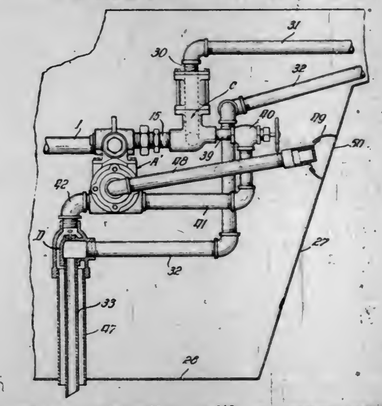
2,323,258
APPARATUS FOR LOADING HIGH EXPLOSIVE SHELLS
Uldric Thompson, Jr., New York, N. Y.
Application March 30, 1942, Serial No. 436,874
In Canada August 28, 1939
8 Claims. (Cl. 86—1)



6. A device for forming a detonator-cavity in a shell, said shell including a casing having a threaded opening in one end, and filled with a solid explosive material, said device including means for supporting the shell, a tool having a boring cutter and counterboring cutter, means for moving the tool into and out of the opening in the shell for forming the detonator-cavity in the explosive material, the counterboring cutter being of approximately the same diameter as the diameter of the opening in the shell but of a size to clear the wall of said opening during the cutting operations, a brush carried by the periphery of the counterboring cutter and positioned to engage the threads of the opening in said shell, so as to remove explosive material adhering thereto after the detonator cavity has been produced, and means for conducting away the explosive material removed by said brush.

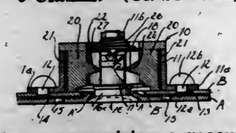
8. A device for forming a detonator-receiving cavity in high explosive material while contained within a shell, having in combination means for supporting the shell, an axially movable boring spindle, a separating chamber having an open top portion adjacent to the shell supporting means, a boring tool locateed within said separating chamber, a suction pipe leading from said separating chamber to suck lighter particles and fumes of explosive into said chamber from the vicinity of the shell, means located in the separating chamber for separating the lighter constituents of the borings from the heavier constituents thereof, so that said lighter constituents may be withdrawn through said suction pipe, and a conduit communicating with the separating chamber and positioned to gravitationally carry off the heavier particles of explosive from said separating chamber.

2,323,259
VENTILATED VAPOR REGULATOR
John Van Vulpen, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application April 11, 1942, Serial No. 438,615
2 Claims. (Cl. 236—40)



1. The combination with a vapor-regulator comprising a steam flow-control valve, a thermostatic member, operating connections between the member and valve, a housing enclosing said thermostatic member, and means for conducting heating fluids into the housing, of a heat transmitting member, a supply pipe leading from the valve to the heat transmitting member, a discharge pipe leading from the heat-transmitting member to the outer air, means for ventilating the housing comprising inlet and outlet pipes connecting the housing with the outer air, a blow-off valve in the discharge-pipe, said blow-off valve communicating with the inlet pipe so as to conduct steam from the discharge pipe to the thermostat housing when the blow-off valve opens.

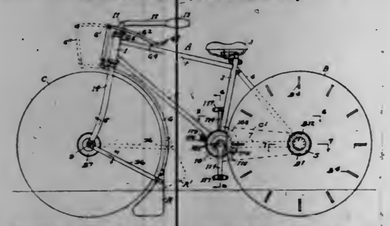
2,323,260
FASTENER
Anthony Venditty, Detroit, Mich., assignor to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application February 26, 1942, Serial No. 432,399
9 Claims. (Cl. 24—221)



8. A fastener comprising a receptacle, a series of superimposed spaced opposed locking instrumentalities in said receptacle, a stud having a shank with locking instrumentalities thereon insertable into said receptacle and rotatable for one quarter turn to move the shank carried locking

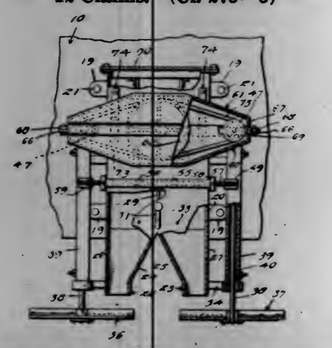
instrumentalities into engagement with whatever opposed locking instrumentalities are opposite the same at the time of rotation of the stud whereupon said stud has a plurality of locked positions at different levels in the receptacle.

2,323,261
WATER CYCLE
David Vigo, Ann Arbor, Mich.
Substituted for abandoned application Serial No. 361,289, October 15, 1940. This application March 22, 1943, Serial No. 480,119
3 Claims. (Cl. 115—27)



1. A vehicle of the character described comprising a frame having a seat, a hollow member extending laterally from said frame at one end thereof, an axle rotatable within said member, a pair of circular floats mounted on the ends of said axle, means for rotating said axle, a steering socket on the other end of said frame, a steering fork rotatably mounted within said socket and having thereupon handles spaced apart, a circular float rotatably mounted within said fork, a rudder swingably mounted upon said fork, and means for holding said rudder in raised position.

2,323,262
MATERIAL SPREADER ATTACHMENT
Harry L. Warren, Kinmundy, Ill.
Application July 8, 1941, Serial No. 401,511
12 Claims. (Cl. 275—8)



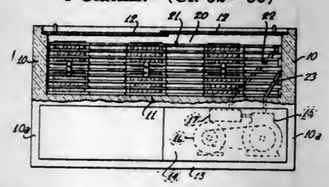
1. A spreader attachment for a hopper provided with a conveyor for moving the material endwise of the hopper; said attachment comprising a housing having an intake opening, means detachably mounting said housing on an end of said hopper whereby the conveyor will discharge material through said intake opening, a pair of delivery spouts extending downwardly from said housing, a centrifugal spreader beneath each spout, means rotating said spreaders, means for laterally adjusting said spreaders, and a valve in said housing adjacent the upper ends of said spouts for regulating the discharge of material into a selected one or both of said spouts.

2,323,263
POLISHING CLOTH
Frank A. Wedderburn, Vienna, Va.
Application June 3, 1941, Serial No. 396,465
7 Claims. (Cl. 15—222)



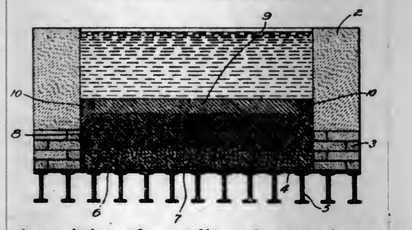
7. A shoe blacking and polishing device consisting of a strip of cloth, a coating of moisture proof material on a small portion of one face of the cloth and a thicker coating of viscous blacking applied upon said first coating which is adapted to protect the cloth from absorption of the blacking whereby the opposite face of the cloth may be used as a shoe polishing surface.

2,322,264
CONSTRUCTION OF COOLING UNITS
Louis Weiss, St. Louis, Mo.
Application November 27, 1940, Serial No. 367,318
6 Claims. (Cl. 62—89)



1. In combination with an elongate open top beverage cooling cabinet, a cooling unit within the cabinet, means for circulating a cooling medium through the unit, the unit consisting of a plurality of lengths of tubing, and bridge elements maintaining said lengths of tubing in spaced parallel relation, the lengths of tubing being formed to present top-open cells of substantially rectangular form, the length of each cell being substantially the width of the cooling chamber of the cabinet, said cells being spaced from each other a distance substantially equal to the width of the cells, the lengths of tubing between the cells constituting partitions arranged one between other adjacent cells, and forming with the walls of the cabinet, two separate half-size cells intervening between alternating top-open cells.

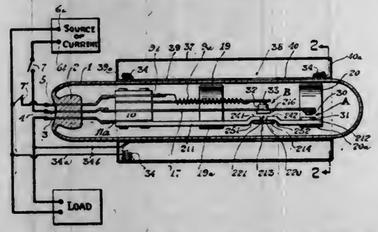
2,323,265
CONTAINER FOR MOLTEN GLASS
Paul G. Willetts, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application March 28, 1938, Serial No. 198,376
13 Claims. (Cl. 49—54)



1. A container for molten glass having a bottom which, at least in its upper glass-engaging portion, before being heated, comprises a mixture of granular material, some of said material being composed of grains having an inert phase and a glassy phase, and some of said material being composed of grains capable of reacting under heat with the glassy phase of said first-named grains to produce refractory crystals.

6. The method of building the bottom of a container for molten glass, which comprises supporting from beneath a layer of granular refractory material of a type which, when out of contact with molten glass, will remain largely in loose and unsintered condition throughout the mass thereof under the temperatures and pressures to which such material will be subjected during the use of the container, mixing granular electrocast grains, containing mullite crystals and siliceous glass, with finely-divided alumina, forming at least a portion of the glass-engaging part of the bottom of the container above said first layer with the resulting mixture, and heating the container sufficiently to cause reaction between the siliceous glass of said electrocast grains and the finely-divided alumina, thus producing additional mullite crystals and reducing the amount of glass in the material.

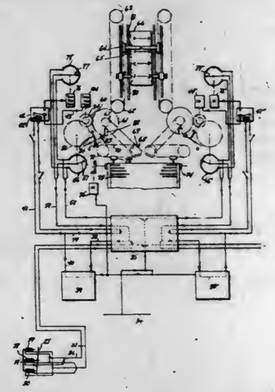
2,323,266
ELECTRICAL CONTROL SYSTEM
Herbert O. Wilson, Benton Township, Columbia County, Pa., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Original application October 30, 1936, Serial No. 108,420. Divided and this application March 26, 1940, Serial No. 325,935
8 Claims. (Cl. 200—88)



1. In a control system to which operating current may be supplied and which includes an electro-thermal device normally energized, for movement thereof, upon the supply of said operating current: the combination of a switch normally mechanically responsive to said device for throwing from first to second conditions and vice versa upon said movement and the opposite movement, respectively, of said device; and means, electrically connected with said switch and rendered effective thereby upon a throwing thereof to said second condition in response to said supply of current, for discontinuing the energization of said device and maintaining said switch in said second condition throughout the continuance of said supply of currents.

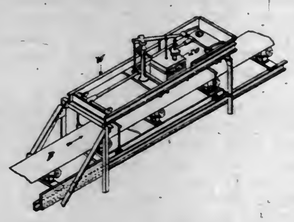
2,323,267
STRAIN GAUGE FOR ROLLING MILLS AND THE LIKE
Bruno A. Wittkuhns, Summit, N. J., and Alexander Shayne, New York, N. Y., assignors, by mesne assignments, to Sperry Products, Inc., a corporation of New York
Application September 9, 1939, Serial No. 294,154
14 Claims. (Cl. 265—2)

3. In a device for measuring elastic deformations of a member under stress, an electromagnetic gauge adapted to be attached to said member and responsive to changes of shape of said member, said gauge having means thereon for producing electric A. C. potentials proportional to said changes, a reversible A. C. power motor controlled by said potentials, means driven by said motor for producing an A. C. potential proportional to its total revolutions and opposing said first potential, means for obtaining phase alignment of said first and said second potentials, means for adding said two potentials in phase opposition to cause said motor to stop when both said potentials are of equal amplitude,



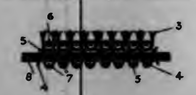
means for indicating the total revolutions of said motor, a second reversible A. C. power motor also responsive to said potentials and driving another means for producing A. C. potentials proportional to its total revolutions, and automatic switching means for causing said first named motor to respond only to high amplitude potentials of high rate of change while said second motor remains stationary, and for causing said last named motor to respond only to low amplitude potentials of low rate of change while said first named motor remains stationary.

2,323,268
METALLURGICAL MILL REAGENT FEEDER
Fremont E. Wood, Cristo, Cuba
Application September 14, 1939, Serial No. 294,979
5 Claims. (Cl. 221—96)



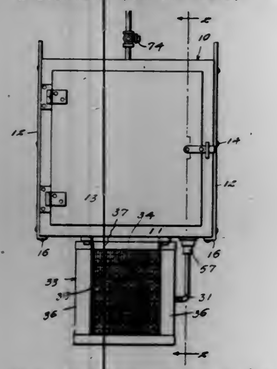
1. In a metallurgical mill, weighing mechanism to feed reagent to ore, means to supply reagent under constant head, a normally closed valve in said means for measuring volume, means operable periodically in accordance with the weight of ore, means to open said valve through operation of the last means a period of time proportioned to the said weight of ore.

2,323,269
MANUFACTURE OF WOVEN PLUSH OR PILE FABRICS
Alexander Young, Glasgow, and Ian Grosvenor Stewart, Edinburgh, Scotland
Application January 22, 1942, Serial No. 427,790
In Great Britain April 19, 1941
2 Claims. (Cl. 28—74)



1. The method of manufacturing pile fabrics having a natural fibrous pile surface which consists in interweaving a natural fibrous pile with a backing structure incorporating inextensible rubberized threads of textile yarn, and thereafter applying to the backing structure a solution or dispersion of rubber to cause the rubber to infiltrate into the pile and to bind it to the backing structure, the said solution or dispersion being applied in sufficient quantity to increase the density or thickness of the backing structure.

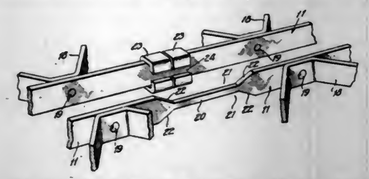
2,323,270
DRY ICE REFRIGERATING UNIT
Alvin Zielesch and Stanton W. Smith, Portland, Oreg.
Application April 1, 1941, Serial No. 386,331
4 Claims. (Cl. 62—91.5)



1. A combined refrigerating and air circulating unit for insertion in a refrigerating chamber, comprising a housing adapted to receive a solid body of carbon dioxide, a closed refrigerant system correlated with said housing and including a flat closed receptacle in said housing and constituting an inner bottom therefor adapted to support said solid body, an air cooling coil dependingly supported from said housing, means connecting one end of said coil to said receptacle, means connecting the other end of said coil to said receptacle, a check valve interposed in said latter connecting means, a fluid circulating means connected with said latter connecting means between said check valve and said coil, a fan disposed adjacent one side of said coil for forcing air through the convolutions thereof, an expansion chamber and means connecting said expansion chamber with said first connecting means.

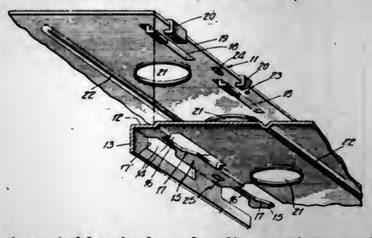
2,323,271
GRATING
Richard J. Barry, New York, N. Y., assignor to Walter Edward Irving, Glenbrook, Conn.
Application February 19, 1942, Serial No. 431,503
14 Claims. (Cl. 94—13)

14. A continuous grating comprising in combination, a rectangular shaped grating panel having straight continuous side bars, a companion grating panel having straight continuous side bars, two corresponding side bars of the panels being arranged in parallel abutting engagement, C-shaped coupling members slidably and captively mounted on one of the side bars and engaging



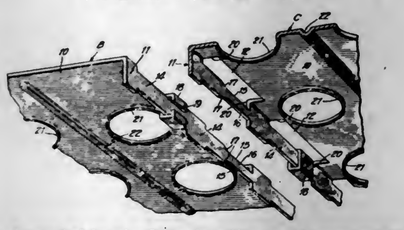
the other side bar and having their open sides facing the last named side bar, said coupling members being engageable and disengageable with the last named side bar by means of reduced portions provided thereon for securing the panels together in side by side relation.

2,323,272
PANEL CONNECTION
Richard J. Barry, New York, N. Y., assignor to Walter Edward Irving, Glenbrook, Conn.
Application November 20, 1942, Serial No. 466,346
10 Claims. (Cl. 94—13)



8. A portable airplane landing mat comprising, in combination, panels having substantially flat face portions disposed in flat-wise overlapping relation, and interlocking means provided along overlapping edges of the face portions of the panels for rigidly coupling the same together, said interlocking means comprising a slide element captively mounted on one face portion for sliding movement in a direction substantially parallel to the plane of said face portion, said slide element engaging a tongue element on the other face portion.

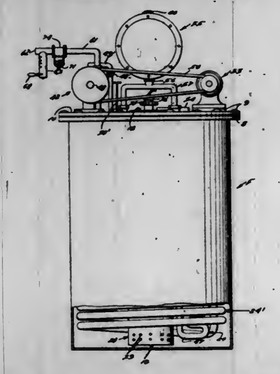
2,323,273
PANEL CONNECTION
Richard J. Barry, New York, N. Y., assignor to Walter Edward Irving, Glenbrook, Conn.
Application November 20, 1942, Serial No. 466,348
7 Claims. (Cl. 94—13)



7. A portable airplane landing mat comprising, in combination, panels having substantially flat face portions disposed in flat-wise edge to edge abutting relation, flat angularly extending side

flanges extending from the abutting edges of the panels arranged in abutting confronting relation, and interlocking means provided along the flat abutting side flanges for rigidly coupling the same together, said interlocking means comprising a slide element captively mounted on one of said flat side flanges for sliding movement in a direction substantially parallel to the plane thereof, said slide element engaging a tongue element on the other side flange.

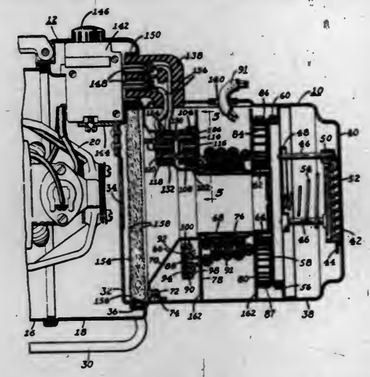
2,323,274
GASEOUS FUEL GENERATOR
Walter E. Humrichouse and Davis B. Humrichouse, Baltimore, Md., assignors, by direct and mesne assignments, to The Air Gas Company, Baltimore, Md., a corporation of Maryland
Application January 31, 1941, Serial No. 376,934
7 Claims. (Cl. 48—144)



1. A gaseous fuel generator comprising a closed upright housing, a gas well rising in said housing and open at its top, said gas well having a closed bottom with side wall perforations adjacent said bottom, a helical metal pipe master coil concentrically spaced around said gas well, a vertical metal pipe shaker coil situated at one side of said gas well and within said master coil, a chamber depending into the upper end of said gas well, one terminal of said shaker coil opening into said chamber and the remaining terminal of said shaker coil being connected with an end of said master coil, an atmospheric air pump having its intake open to the atmosphere and its outlet side connected to the remaining end of said master pipe coil, a liquid and air mixture recirculating pump on said housing, motor means coordinately driving both pumps, a first relatively small liquid recirculating tube leading from a point adjacent the bottom of said housing and connected at its opposite end to the intake of said recirculating pump, a second relatively small recirculating tube connected to the outlet of said recirculating pump and having a jet discharging into an upper convolution of said master coil in the direction of movement of the air in said master coil, and an outlet on the upper part of said housing for releasing the resultant gaseous fuel.

2,323,275
CORD-WINDING DEVICE
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application January 16, 1941, Serial No. 374,635
3 Claims. (Cl. 15—246)

1. In a cord-winding device, a substantially cylindrical casing having openings at opposite ends, one of said openings having a diameter substantially equal to that of the casing, a hollow body disposed within said casing and defining at least a portion of an airtight passage connecting said openings, said body having a cylindrical part of less diameter than said casing and a conical part extending therefrom to said casing adjacent



to said one opening, means entirely within the casing and accessible through said one opening for removably securing said conical part to said casing, a transverse partition secured to the end of said cylindrical part remote from said conical part, means including a gasket providing a separable airtight seal between said partition and said casing, and a reel rotatably mounted on and concentric with said cylindrical part.

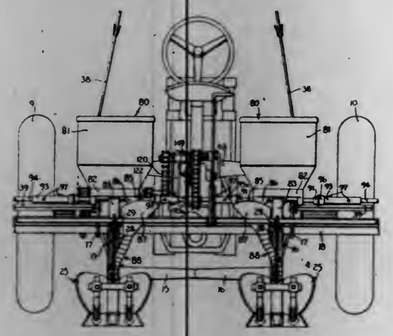
2,323,276
SATURATED AND UNSATURATED PREGNANE COMPOUNDS AND PROCESS OF MAKING SAME
Karl Miescher, Riehen, and Albert Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J.
No Drawing. Application January 22, 1941, Serial No. 375,528. In Switzerland January 17, 1940
10 Claims. (Cl. 260—397.5)

1. Process for the manufacture of saturated and unsaturated pregnane polycarbonyl compounds and their substitution products, comprising treating a pregnane-20-one, containing in the rings A and B merely a member of the group of free, esterified and etherified tertiary hydroxyl groups with reducing agents, causing to react the products thus obtained with an agent capable of introducing a double bond by eliminating the said groups in the rings A and B together with the neighbouring hydrogen and finally with oxidizing agents.

2,323,277
SATURATED AND UNSATURATED PREGNANE COMPOUNDS AND PROCESS OF MAKING SAME
Karl Miescher, Riehen, and Albert Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J.
No Drawing. Application January 22, 1941, Serial No. 375,540. In Switzerland January 17, 1940
11 Claims. (Cl. 260—397.5)

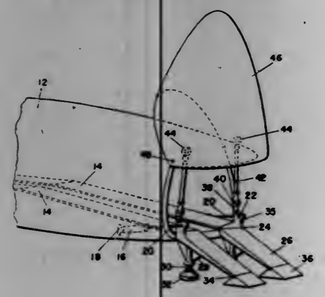
1. A pregnane derivative containing in the rings A and B merely a double bond, namely in one of the positions 2, 3, 4 and 5, and in 20-position a member of the group consisting of a hydroxyl group and a group which upon hydrolysis is convertible into a hydroxyl group.

2,323,278
LISTER
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 29, 1940, Serial No. 316,089
3 Claims. (Cl. 111—52)



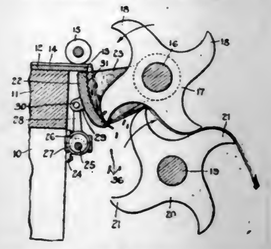
1. The combination with a tractor having an operator's station thereon, of a planter including frame means connected with the tractor and having a portion adjacent the operator's station on the tractor, and a planting unit carried by said frame portion and having a seed can and a seed receiving funnel disposed at one side of the seed can and having an open upper end extending out from underneath said can, the walls of said funnel flaring outwardly at such an angle that an operator at said station may look directly down into said funnel and observe the passage of seed into said funnel.

2,323,279
CARGO LANDPLANE
Willem D. van Zelm, Ruxton, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application August 20, 1942, Serial No. 455,463
5 Claims. (Cl. 214—85)



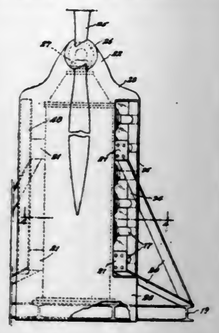
1. Material or article handling apparatus comprising a vehicle having a cargo compartment therein, a cargo door forming a part of said vehicle and said cargo compartment, an extensible cargo loading and vehicle balancing ramp forming a part of said vehicle and located within said cargo compartment adjacent the point of intersection of said cargo compartment with said cargo door, and means located within said vehicle for opening and closing said cargo door and simultaneously extending and retracting said loading and balancing ramp.

2,323,280
DECORTICATING MACHINE
William A. Boyce, Bridgeport, Conn., assignor to Anton F. Burkardt, New York, N. Y.
Application April 13, 1940, Serial No. 329,513
3 Claims. (Cl. 19—30)



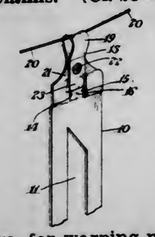
1. An apparatus for treating fibrous material comprising in combination an anvil over which stalks of fibrous material are fed, an apron located below said anvil and over which the stalks of fibrous material pass from the anvil, a scutching rotor provided with blades cooperating with the anvil and with the working face of the apron to remove shives from the fibrous material, and means for imparting an oscillatory movement to the apron in a path tangential to the surface of revolution generated by the scutching rotor in its rotary movement.

2,323,281
AERONAUTICAL ENGINE
Chester C. De Pew, Farmingdale, N. Y., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y., a corporation of Maryland
Application September 24, 1940, Serial No. 358,070
3 Claims. (Cl. 123—171)



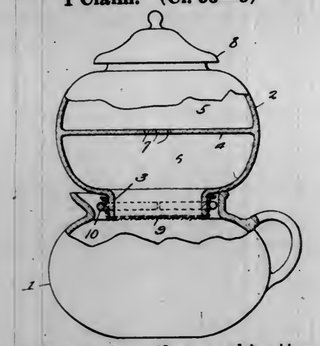
1. In a cooling system for engines having at least one inline bank of spaced apart cylinders on a crankcase; the combination of a housing of substantially airfoil cross-section enclosing said engine, said housing having an opening in its leading edge substantially parallel with the longitudinal axis of said crankcase and substantially coextensive in length with said bank of cylinders, means in said housing forming an air scoop leading from said opening to said bank of cylinders and sealed from the remainder of said housing, means restricting the spaces affording air flow between said cylinders to a gross area less than the area of said opening, and means forming an opening in said housing on the lee side of said cylinders exterior of said air scoop, for withdrawing air heated during passage between said cylinders from said housing.

2,323,282
DROP WIRE FOR WARPING MACHINES AND THE LIKE
John Jacob Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 18, 1942, Serial No. 458,760
8 Claims. (Cl. 28—50)



1. A drop wire, for warping machines and the like, made of a thin flat strip of metal having the upper end thereof provided with a tongue portion bent around in loop formation to provide an eye through which the warp end extends, said loop portion being curved in transverse section.

2,323,283
COFFEE MAKER
Edward P. Sadler, Louisville, Ky., assignor of one-half to Clarence M. Wheeler, Louisville, Ky.
Application May 12, 1942, Serial No. 442,703
1 Claim. (Cl. 53—3)

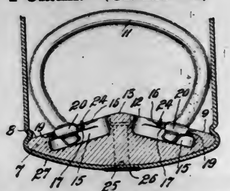


In a coffee-maker the combination with a lower member having an open top, an upper member formed in a single piece of material and proportional to rest on the lower member, there being an integral partition within the upper member dividing the interior of said member into an upper compartment and a lower compartment, there being apertures in the partition for maintaining communication between the compartments, said upper member having an upwardly extending inlet sleeve at its upper end and a downwardly extending outlet sleeve at its lower end, said outlet sleeve being proportioned to extend into the open top of the lower member, a fabric stretched across the outlet sleeve and constituting a filter, a ring of resilient material binding the marginal portion of the fabric to the outlet sleeve, and a lid removably mounted on the inlet sleeve, the two sleeves being of a diameter less than that of the opening in the top of the lower member and said lid being proportioned to close the open top of the lower member when the upper member is not in use.

2,323,284
LUMINESCENT MATERIAL AND METHOD OF PREPARING THE SAME
William P. Toorks, Salem, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
No Drawing. Application November 1, 1941, Serial No. 417,562
8 Claims. (Cl. 250—81)

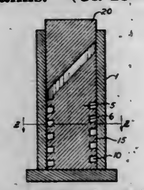
1. The method of preparing a luminescent material comprising: mixing an alkaline earth fluoride, a uranium oxygen compound and an oxide of the earth metals; and firing the same.

2,323,285
RING BINDER
Clarence D. Trussell, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York
Application January 25, 1943, Serial No. 473,558
1 Claim. (Cl. 129—1)



A wooden binder back having oppositely disposed transversely extending slots undercut toward the outer ends of the same to form opposed ring retaining flanges and enlarged at the inner ends of said flanges, said flanges being compressed over the upper and lower faces and about the edges of the same to substantially uniform thickness, firmness and smoothness.

2,323,286
MOLD FOR HELICAL SPRINGS
Ralph E. Ward, Erie, Pa.
Application July 23, 1941, Serial No. 403,724
5 Claims. (Cl. 18—34)

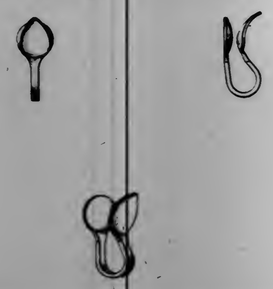


5. A mold for a helical spring comprising a hollow cylindrical mold-part, a second cylindrical mold-part disposed concentrically within the outer mold-part and being of such cross-sectional size that an annular space is provided between the two mold-parts, a helical form disposed in said annular space and being of such radial dimensions as to extend from the outer wall of the inner mold-part to the inner wall of the outer mold-part whereby a molding space is provided between spaced adjacent faces of the convolutions of the helical form, the inner face of the outer mold-part and the outer face of the inner mold-part, the inner mold-part having an inclined end which is disposed entirely within the outer mold-part thereby providing a space within the outer mold-part for the reception of moldable material, and a plunger disposed in such space and having an inclined end adjacent and parallel to the inclined end of the inner mold member.

DESIGNS

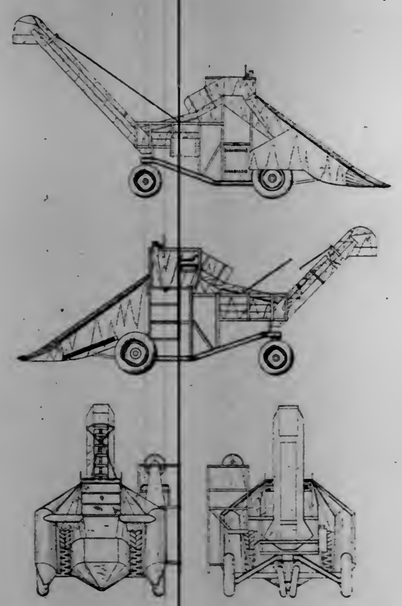
JUNE 29, 1943

135,873
DESIGN FOR AN EARRING CLIP
Michael Chernow, New York, N. Y.
Application May 18, 1943, Serial No. 110,228
Term of patent 14 years



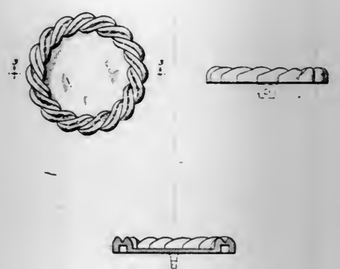
The ornamental design for an earring clip, substantially as shown.

135,874
DESIGN FOR A CORN HARVESTER
Charles E. Everett, Racine, Wis., assignor to The Massey-Harris Company, Racine, Wis., a company of Maryland
Application June 22, 1942, Serial No. 107,298
Term of patent 14 years



The ornamental design for a corn harvester, as shown and described.

135,875
DESIGN FOR A BUTTON
Charles H. Frank, New Rochelle, N. Y., assignor to Button Rim Corporation, New York, N. Y., a corporation
Application March 31, 1943, Serial No. 109,880
Term of patent 3½ years



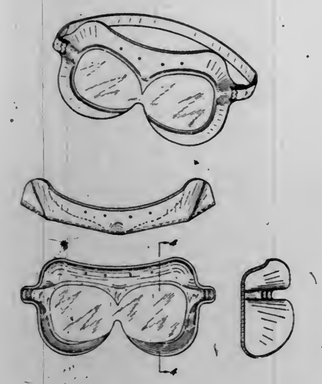
The ornamental design for a button, as shown.

135,876
DESIGN FOR A BELT FASTENER OR SIMILAR ARTICLE
Irving Geist, New York, N. Y.
Application May 5, 1943, Serial No. 110,132
Term of patent 7 years



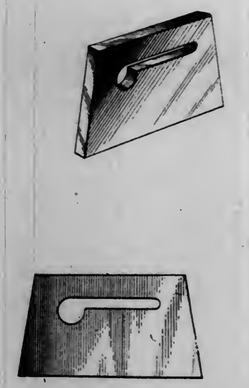
The ornamental design for a belt fastener or similar article, substantially as shown and described.

135,877
DESIGN FOR AN EYE SHIELD
Sol Ghinsberg, Cleveland Heights, Ohio, assignor of one-half to Sidney Schwartz, Cleveland, Ohio
Application December 28, 1942, Serial No. 109,154
Term of patent 14 years



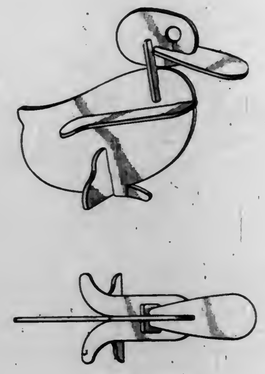
The ornamental design for an eye shield, as shown and described.

135,878
DESIGN FOR A STRAP LEWIS FOR BURIAL VAULT PARTS
Wilbert W. Haase, Forest Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois
Application April 9, 1943, Serial No. 109,942
Term of patent 14 years



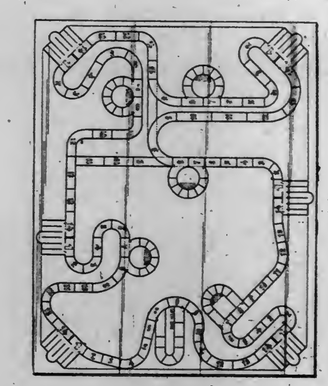
The ornamental design for a strap lewis for burial vault parts, as shown.

135,879
DESIGN FOR A TOY FIGURE OR SIMILAR ARTICLE
Elmer F. Rebholz, Chicago, Ill., assignor to James F. Barnes, trustee
Application September 11, 1942, Serial No. 108,177
Term of patent 7 years



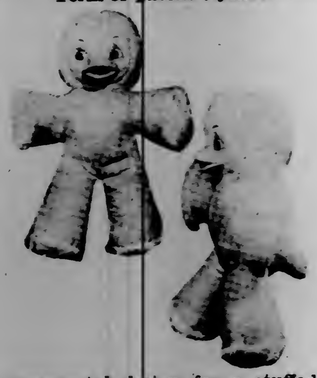
The ornamental design for a toy figure or similar article, as shown.

135,880
DESIGN FOR A GAME BOARD
Walter Bruno Schwer, Rye, N. Y.
Application March 11, 1943, Serial No. 109,726
Term of patent 7 years



The ornamental design for a game board, as shown and described.

135,881
DESIGN FOR A STUFFED TOY OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application March 29, 1943, Serial No. 109,848
Term of patent 7 years



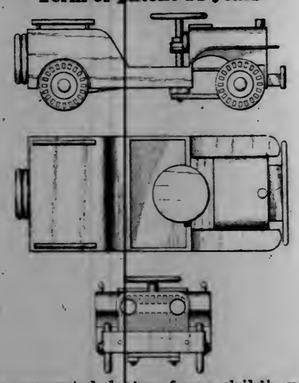
The ornamental design for a stuffed toy or similar article, substantially as shown.

135,882
DESIGN FOR A MASK FOR STUFFED TOYS OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application March 29, 1943, Serial No. 109,849
Term of patent 7 years



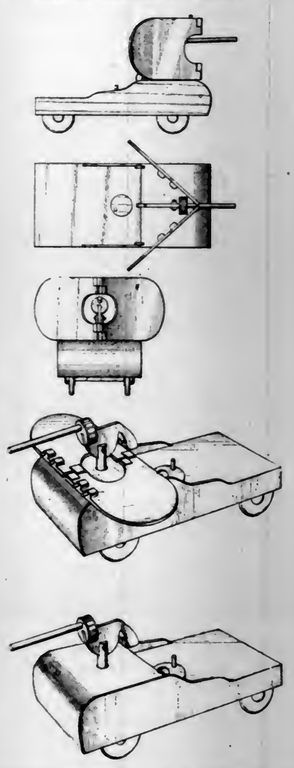
The ornamental design for a mask for stuffed toys or similar article, substantially as shown.

135,883
DESIGN FOR A CHILD'S VEHICLE
Findley Williams, Northbrook, Ill., assignor to W. L. Stensgaard & Associates, Inc., a corporation of Illinois
Application March 27, 1943, Serial No. 109,830
Term of patent 14 years



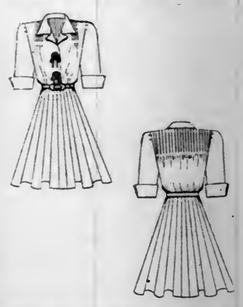
The ornamental design for a child's vehicle, as shown.

135,884
DESIGN FOR A COASTER VEHICLE
Findley Williams, Northbrook, Ill., assignor to W. L. Stensgaard & Associates, Inc., a corporation of Illinois
Application March 27, 1943, Serial No. 109,831
Term of patent 14 years



The ornamental design for a coaster vehicle, as shown.

135,885
DESIGN FOR A DRESS
Frank C. Brogan, Larchmont, N. Y.
Application April 17, 1943, Serial No. 109,986
Term of patent 3½ years



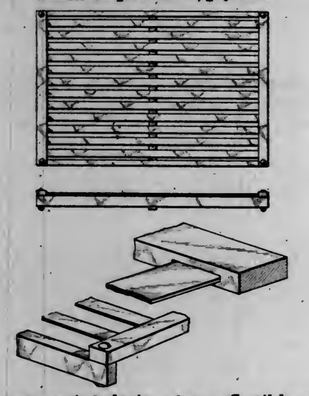
The ornamental design for a dress, substantially as shown.

135,886
DESIGN FOR A CAP FOR A MUSICAL INSTRUMENT MOUTHPIECE
Arnold Brilhart, Great Neck, N. Y.
Application April 1, 1942, Serial No. 106,419
Term of patent 14 years



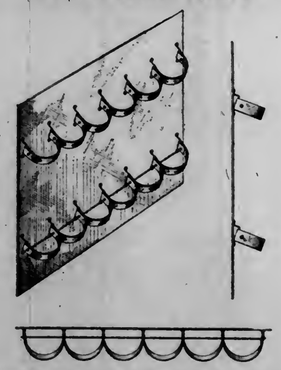
The ornamental design for a cap for a musical instrument mouthpiece, as shown.

135,887
DESIGN FOR A FLEXIBLE SLAT BEDSPRING
Maxon H. Pulford, Duluth, Minn., assignor to De Witt-Seitz Company, Duluth, Minn., a corporation of Maine
Application November 24, 1942, Serial No. 108,862
Term of patent 3½ years



The ornamental design for a flexible slat bedspring, as shown.

135,888
DESIGN FOR A SHOE RACK
Edgar H. Zimmerman, Chicago, Ill.
Application March 29, 1943, Serial No. 109,850
Term of patent 7 years



The ornamental design for a shoe rack, as shown.

135,889
DESIGN FOR A COOKIE JAR
Louise Elizabeth Bauer, Zanesville, Ohio, assignor to The A. E. Hull Pottery Company, Incorporated, Crooksville, Ohio, a corporation of Ohio
Application April 12, 1943, Serial No. 109,959
Term of patent 7 years



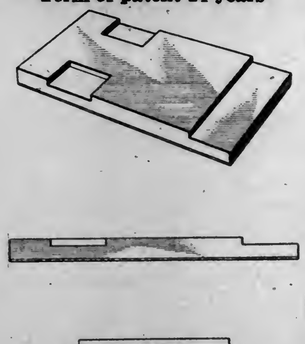
The ornamental design for a cookie jar, as shown.

135,890
DESIGN FOR A FOUNTAIN PEN AND PENCIL CLIP OR THE LIKE
David Kahn, Woodcliff, N. J.
Application October 20, 1942, Serial No. 108,581
Term of patent 3½ years



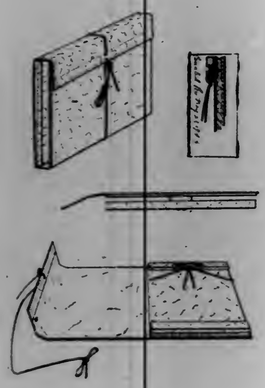
The ornamental design for a fountain pen and pencil clip or the like, substantially as shown.

135,891
DESIGN FOR A COMBINED STAND AND INDUCTION DEVICE FOR TELEPHONES
Leland D. Norton, Bridgeport, Conn., and C. Kenneth Wilson, Hollis, N. Y., assignors to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application November 16, 1942, Serial No. 108,792
Term of patent 14 years



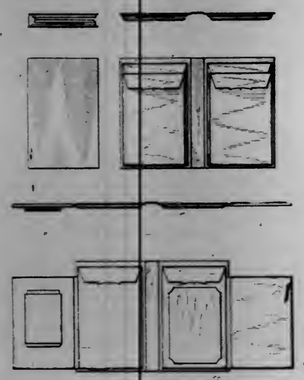
The ornamental design for a combined stand and induction device for telephones, substantially as shown and described.

135,892
DESIGN FOR A PORTFOLIO
John G. Rouner, Denver, Colo.
Application January 18, 1943, Serial No. 109,285
Term of patent 14 years



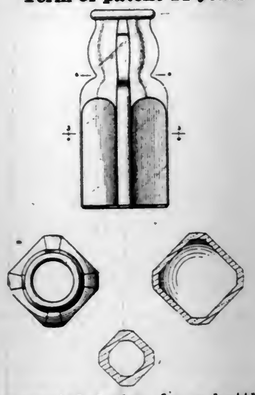
The ornamental design for a portfolio, as shown.

135,893
DESIGN FOR A CORRESPONDENCE FOLDER OR SIMILAR ARTICLE
Jack E. Schenker, Chicago, Ill.
Application April 2, 1943, Serial No. 109,893
Term of patent 7 years



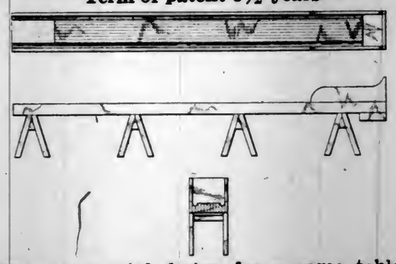
The ornamental design for a correspondence folder or similar article, substantially as shown.

135,894
DESIGN FOR A BOTTLE
Samuel D. Schneier, Highland Park, N. J.
Application November 10, 1942, Serial No. 108,743
Term of patent 14 years



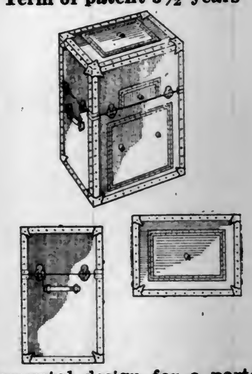
The ornamental design for a bottle, as shown.

135,895
DESIGN FOR A GAME TABLE
Walter A. Schrader, Brentwood, Mo.
Application August 22, 1942, Serial No. 108,000
Term of patent 3½ years



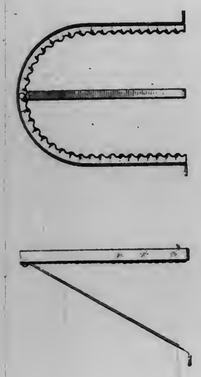
The ornamental design for a game table, as shown.

135,896
DESIGN FOR A PORTABLE REFRIGERATING CABINET
Leonard F. Clerc, Chicago, Ill.
Application November 25, 1942, Serial No. 108,871
Term of patent 3½ years



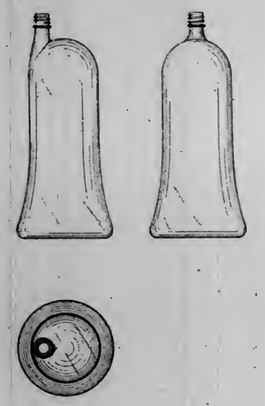
The ornamental design for a portable refrigerating cabinet, as shown.

135,897
DESIGN FOR A HOLDER FOR GARBAGE CANS
Frank Crossley, Philadelphia, Pa.
Application May 4, 1943, Serial No. 110,110
Term of patent 14 years



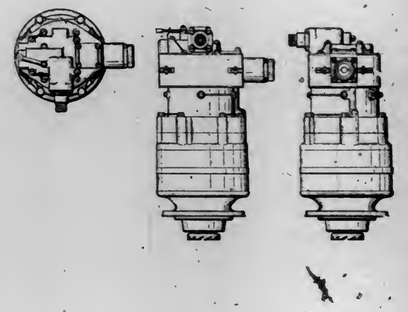
The ornamental design for a holder for garbage cans, as shown.

135,898
DESIGN FOR A BOTTLE
Howard H. Dawson, East Cleveland, Ohio, assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application February 6, 1943, Serial No. 109,482
Term of patent 14 years



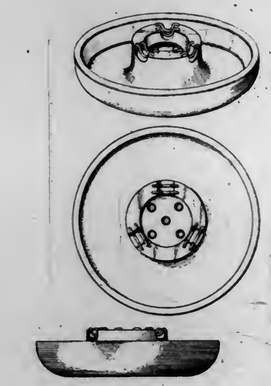
The ornamental design for a bottle, substantially as shown.

135,899
DESIGN FOR AN ENGINE STARTER
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz Research Corporation, Bedford, Ohio, a corporation of Ohio
Application May 10, 1943, Serial No. 110,173
Term of patent 14 years



The ornamental design for an engine starter, substantially as shown.

135,900
DESIGN FOR AN ASH TRAY
William E. Powers, Dayton, Ohio
Application March 16, 1943, Serial No. 109,766
Term of patent 3½ years



The ornamental design for an ash tray, as shown.

135,901
DESIGN FOR A UNIFORM
Arthur M. Berger, New York, N. Y.
Application May 18, 1943, Serial No. 110,233
Term of patent 3½ years



The ornamental design for a uniform, substantially as shown.

135,902
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application June 4, 1943, Serial No. 110,363
Term of patent 3½ years



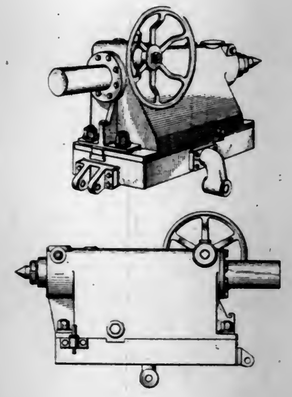
The ornamental design for a suit, substantially as shown.

135,903
DESIGN FOR A LADY'S SUIT
Samuel Kuznetz, New York, N. Y.
Application June 5, 1943, Serial No. 110,367
Term of patent 3½ years



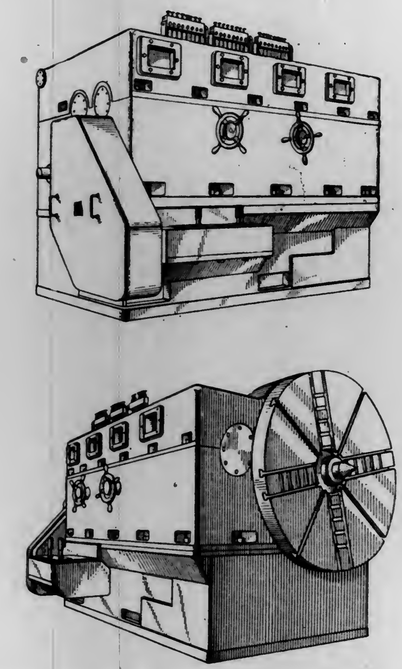
The ornamental design for a lady's suit, substantially as shown.

135,904
DESIGN FOR A TAILSTOCK FOR LATHES
William M. McConnell, McKeesport, Pa., assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa., a corporation of Delaware
Application August 21, 1942, Serial No. 107,985
Term of patent 14 years

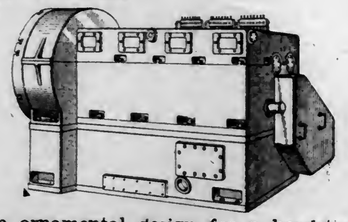


The ornamental design for a tailstock for lathes, substantially as shown.

135,905
DESIGN FOR A HEADSTOCK FOR LATHES
William M. McConnell, McKeesport, Pa., assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa., a corporation of Delaware
Application August 21, 1942, Serial No. 107,986
Term of patent 14 years

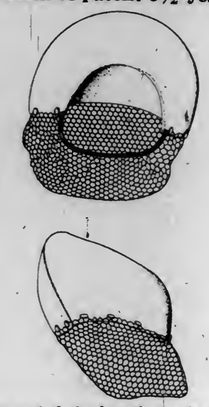


135,905—Continued



The ornamental design for a headstock for lathes, substantially as shown.

135,906
DESIGN FOR A HAT
Florence Reichman, New York, N. Y.
Application May 8, 1943, Serial No. 110,156
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Aero-Crafts Corporation, Los Angeles, Calif. Printed lessons of technical instruction and information. Serial No. 456,648; June 29. Class 38.

Affiliated Products, Inc., Jersey City, N. J. Colognes. Serial No. 459,854; June 29. Class 6.

Aktiebolaget Facit, Atvidaberg, Sweden. Typewriters, cash registers, check protectors, tabulating machines, etc. Serial No. 452,917; June 29. Class 23.

Alpinol Corporation, New York, N. Y. Chemical, medicinal, and pharmaceutical substances, compounds, and preparations for injection, etc. Serial No. 460,247; June 29. Class 6.

American Automobile Association, Inc., Washington, D. C. Pamphlets, books, booklets, etc. Serial No. 457,430; June 29. Class 38.

American Viscose Corporation, Wilmington, Del. Yarns, threads, yarn and thread filaments, etc. Serial No. 460,412; June 29. Class 43.

American Viscose Corporation, Wilmington, Del. Yarns, threads, and yarn and thread filaments. Serial No. 460,562; June 29. Class 43.

Ams, Max, Inc., doing business as The Lippincott Company, New York, N. Y. Fruit jams. Serial No. 459,822; June 29. Class 46.

Argo & Company, Memphis, Tenn. Cleaner for woodwork, furniture, upholstery, etc. Serial No. 458,981; June 29. Class 4.

Arkwright, Incorporated, New York, N. Y. Bias fold tape, shoe laces, garment lacings, etc. Serial No. 459,234; June 29. Class 40.

Bailey, E. W., & Company. (See Bailey, G. C.)

Bailey, G. C., doing business as E. W. Bailey & Company, Montpelier, Vt. Feed for animals. Serial No. 457,869; June 29. Class 46.

Bausch & Lomb Optical Company, Rochester, N. Y. Goggles and spectacle and goggle lenses. Serial No. 460,170; June 29. Class 26.

Bixby-Zimmer Engineering Co., Galesburg, Ill. Screens. Serial No. 459,394; June 29. Class 23.

Blaney Bakeries, Inc., New York, N. Y. Potato chips, pretzels, candied popcorn, etc. Serial No. 454,225; June 29. Class 46.

Burnett, Wm. T., & Co., Baltimore, Md. Preformed cores of fibrous material. Serial No. 460,564; June 29. Class 32.

California Lettuce Growers, Inc., Guadalupe, Calif. Fresh vegetables. Serial No. 457,968; June 29. Class 46.

Callahan, Geo., & Co., Inc., Closter, N. J. Solid salammoniac used in soldering and tinning. Serial No. 460,492; June 29. Class 6.

Chadakoff, Hyman, New York, N. Y. Garments lined with perforated sheepskin. Serial No. 459,507; June 29. Class 39.

Chemical Process Company, San Francisco, Calif. Zeolitic materials. Serial No. 460,234; June 29. Class 6.

Cobo Products Co. (See Moosalina Products Corp.)

College of Electronic Medicine, San Francisco, Calif. Short wave oscillators. Serial No. 460,419; June 29. Class 44.

Currick & Leiken Co. Inc., New York, N. Y. Suits, topcoats, sport coats, etc. Serial No. 459,168; June 29. Class 39.

Deering Milliken & Co., Inc., New York, N. Y. Sheets and pillow cases. Serial No. 460,500; June 29. Class 42.

Eastern Coat Manufacturing Company, Watertown, Mass. Coats. Serial No. 458,424; June 29. Class 39.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Synthetic staple fiber. Serial No. 460,323; June 29. Class 1.

Emdee Laboratories, Inc., New York, N. Y. Medicinal vitamin preparations. Serial No. 460,021; June 29. Class 6.

Fair Play Caramels, Inc., Johnson City, N. Y. Candy. Serial No. 460,143; June 29. Class 46.

Farrell Publishing Corporation, New York, N. Y. Periodical. Serial Nos. 447,061–2; June 29. Class 38.

Faultless Caster Corporation, Evansville, Ind. Truck caster wheels. Serial No. 460,291; June 29. Class 19.

Filtrol Corporation, Los Angeles, Calif. Chemically treated colloidal clay. Serial No. 460,472; June 29. Class 6.

Forrest Knitting Mills. (See Highland Knitting Mills.)

Garden Vineyards Winery & Distillery Co., Fowler, Calif. Wines. Serial No. 459,813; June 29. Class 47.

Gardner, M. D., Phoenix, Ariz. Fresh citrus fruits, and dates. Serial No. 460,501; June 29. Class 46.

Globe Novelty House, New York, N. Y. Men's ornamental jewelry. Serial No. 451,034; June 29. Class 28.

Goldtex Hosiery Co., Philadelphia, Pa. Hosiery. Serial No. 459,832; June 29. Class 39.

Graf Company, Union City, N. J. Curtains, bed spreads, dressing table skirts, etc. Serial No. 456,259; June 29. Class 42.

Great Atlantic & Pacific Tea Company, The, New York, N. Y. Household salt. Serial No. 460,237; June 29. Class 46.

Haire Publishing Company, New York, N. Y. Magazine section or department. Serial No. 459,625; June 29. Class 38.

Handschy, A. E., Company, Chicago, Ill. Filler solution for repairing printing blankets or platens. Serial No. 457,219; June 29. Class 6.

Handschy, A. E., Company, Chicago, Ill. Solutions for restoring the image on a lithographic plate. Serial No. 457,221; June 29. Class 6.

Hart Products Corporation, New York, N. Y. Chemical preparation used in the finishing of textile fabrics. Serial No. 460,294; June 29. Class 6.

Harwill Blouse Co., Inc., Boston, Mass. Dresses, blouses, dickeys, etc. Serial No. 459,996; June 29. Class 39.

Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii, and San Francisco, Calif. Candy. Serial No. 460,324; June 29. Class 46.

Highland Knitting Mills, doing business as Forrest Knitting Mills, Philadelphia, Pa. Sweaters, bathing suits, and trunks. Serial No. 459,517; June 29. Class 39.

Highman, Ainsley H., Holliston, Mass. Airplanes and helicopters. Serial No. 460,047; June 29. Class 19.

Hygrade Sylvania Corporation, Salem, Mass., by change of name to Sylvania Electric Products Inc. Electric lamps, electron tubes, radio receivers, etc. Serial No. 449,098; June 29. Class 21.

Industrial Engineering Co. Inc., Minneapolis, Minn. Protractors. Serial No. 458,356; June 29. Class 26.

Insurance Brokers Exchange of San Francisco, San Francisco, Calif. Periodical. Serial No. 457,245; June 29. Class 38.

International Distributors, Inc., New York, N. Y. Rum. Serial No. 459,930; June 29. Class 49.

Jantzen Knitting Mills, Portland, Oreg. Corsets. Serial No. 457,170; June 29. Class 39.

Jackson, Eugene, Thonotasassa, Fla. Antiseptics. Serial No. 456,310; June 29. Class 6.

Kallman, L. R., doing business as L. R. Kallman & Company, Chicago, Ill. Permanent wave kit. Serial No. 458,270; June 29. Class 6.

Keystone Brass and Rubber Co., Philadelphia, Pa. Nonmetallic washers, faucet cushions, and bibb washers. Serial No. 453,894; June 29. Class 35.

Knott, Wm. T., Company, Inc., New York, N. Y. Shoes of leather for children. Serial No. 459,690; June 29. Class 39.

Knox Company, The, Los Angeles, Calif. Medicinal preparations indicated in and for the treatment of dysentery, etc. Serial No. 459,934; June 29. Class 6.

Lancaster Iron Works, Inc., Lancaster, Pa. Rakes, tampers, smoothers, etc. Serial No. 460,403; June 29. Class 23.

Lilly, Elf, and Company, Indianapolis, Ind. Medicinal preparation containing sodium sulfathiazole and desoxyephedrine. Serial No. 460,372; June 29. Class 6.

Lippincott Company, The. (See Ams, Max, Inc.)

Luxury, Division of Beaunit Mills, Inc., New York, N. Y. Ladies' panties. Serial No. 455,142; June 29. Class 39.

M. L. J. Magazines, Inc., New York, N. Y., and St. Louis, Mo. Magazine published quarterly. Serial No. 457,857; June 29. Class 38.

Magitex Company, Inc., Saco, Maine. Spray composition used for disinfecting. Serial No. 460,240; June 29. Class 6.

Martinez Food Canners, Ltd., Martinez, Calif. Canned fruits, vegetables, and fish. Serial No. 456,828; June 29. Class 46.

Marx, Louis, & Company, Inc., New York, N. Y. Toy refrigerators. Serial No. 453,601; June 29. Class 22.

May, J. L., Company, The, New York, N. Y. Paper tags. Serial No. 459,010; June 29. Class 37.

McCrory Stores Corporation, New York, N. Y. Hosiery. Serial No. 459,669; June 29. Class 39.

McCrudden, Samuel, & Co., Inc., New York, N. Y. Handkerchiefs. Serial No. 459,547; June 29. Class 39.

Mission Dry Corporation, Los Angeles, Calif. Non-alcoholic beverages. Serial No. 460,266; June 29. Class 45.

Moosalina Products Corp., doing business as Cobo Products Co., Brooklyn, N. Y. Canned tomato paste, canned vegetables, canned fruits, etc. Serial No. 460,330; June 29. Class 46.

Nashua Gummed and Coated Paper Company, Nashua, N. H. Marking paper, pattern paper, and marking cloth, etc. Serial No. 438,739; June 29. Class 26.

National Gypsum Company, Buffalo, N. Y. Heat insulating cement. Serial No. 459,963; June 29. Class 12.

Noel, Henry D., New York, N. Y. Dish and plate support cleats. Serial No. 459,793; June 29. Class 13.

Oris Watch Co. Ltd., Holstein, Switzerland. Watches and clocks and parts. Serial No. 460,215; June 29. Class 27.
Oris Watch Co. Ltd., Holstein, Switzerland. Watches and clocks and parts. Serial No. 460,217; June 29. Class 27.
Pacific Lumber Company, The, San Francisco, Calif. Blankets, woolen mixture suitings, bed comforters, etc. Serial No. 457,423; June 29. Class 42.
Paschall, Benjamin S., doing business as Paschall Laboratories, Seattle, Wash. Medicinal preparations for use in the treatment of asthma, etc. Serial No. 460,554; June 29. Class 6.
Paschall Laboratories. (See Paschall, Benjamin S.)
Phileo Corporation, Philadelphia, Pa. Forced draft window ventilators. Serial No. 458,819; June 29. Class 34.
Psyllium Company, The, Towson, Md. Vitamin preparations. Serial No. 460,035; June 29. Class 6.
Revlon Products Corporation, New York, N. Y. Face powder, rouge, and make-up base. Serial Nos. 460,068–9; June 29. Class 6.
Rosenthal, L. L., and Company, Inc., Chicago, Ill. Men's overcoats. Serial No. 458,182; June 29. Class 39.
Sackrete, Incorporated, Cincinnati, Ohio. Cementitious material. Serial No. 459,675; June 29. Class 12.
Salazar, Cecilia, New York, N. Y. Medicinal compounds. Serial No. 457,211; June 29. Class 6.
Schering & Glatz, Inc., New York, N. Y. Empty glass bottles. Serial No. 458,228; June 29. Class 44.
Schramm, August F., Jr., New York, N. Y. Adhesive sizing and resin. Serial No. 458,619; June 29. Class 5.
Sears, Roebuck and Co., Chicago, Ill. Self-stoking space heaters. Serial No. 459,637; June 29. Class 34.
Seneca Textile Corporation, New York, N. Y. Cotton, rayon, and/or silk piece goods or combinations thereof. Serial No. 459,967; June 29. Class 42.
Shell Oil Company, Incorporated, San Francisco, Calif. Petroleum lubricating oil. Serial No. 460,435; June 29. Class 15.
Sherman Bows. (See Sherman, Sol.)
Sherman, Sol, doing business as Sherman Bows, New York, N. Y. Combination utility bag equipped with pockets for the holding of toilet accessories and wearing apparel. Serial No. 460,353; June 29. Class 3.
Simons and Heiden, Chicago, Ill. Preparation for the treatment of athlete's foot. Serial No. 445,337; June 29. Class 6.
Stanley Laboratories, Chicago, Ill. Greaseless, absorbent preparation in paste form for protecting the hands. Serial No. 460,586; June 29. Class 6.
Stoner-Mudge, Inc., Pittsburgh, Pa. Coating material to protect the metal during annealing. Serial No. 459,556; June 29. Class 6.
Stop-Lite Products, Inc., Salt Lake City, Utah. Preparation used in the treatment of over acidity. Serial No. 460,275; June 29. Class 6.
Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. Serial Nos. 459,607–8; June 29. Class 37.
Strongson, Herman L., doing business as Wordweaver Co., New York, N. Y. Puzzle game. Serial No. 460,313; June 29. Class 22.
Sylvania Electric Products Inc. (See Hygrade Sylvania Corporation.)
Taylor-Colquitt Co., Spartanburg, S. C. Treated plywood, railroad ties, poles, etc. Serial Nos. 459,211–12; June 29. Class 12.
Thomas, David, Inc., Boston, Mass. Handkerchiefs and scarves. Serial No. 460,076; June 29. Class 39.
Tremco Manufacturing Company, The, Cleveland, Ohio. Mastic compound for use as a putty substitute. Serial No. 458,023; June 29. Class 12.
Trostel, Albert, & Sons Company, Milwaukee, Wis. Cattle side and calf upper. Serial No. 460,314; June 29. Class 1.
Ulmann, Bernhard, Co., Inc., New York, N. Y. Kits containing stamped or cut pieces of fabrics, yarns, and stuffing material, etc. Serial No. 460,276; June 29. Class 22.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. Serial No. 460,587; June 29. Class 2.
United Cigar-Whelan Stores Corporation, New York, N. Y. Wine base elixir. Serial No. 439,503; June 29. Class 6.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation for the treatment of vitamin deficiencies. Serial No. 460,543; June 29. Class 6.
Van Winkle, Eldie A., Washington, Iowa. Anti-freeze composition. Serial No. 460,316; June 29. Class 6.
Verney Mills, Inc., Manchester, N. H. Piece goods. Serial No. 456,088; June 29. Class 42.
Vi-Jon Laboratories, Inc., St. Louis, Mo. Perfumes. Serial No. 459,503; June 29. Class 6.
Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Drawstring closures. Serial No. 458,771; June 29. Class 40.
Well Equipment Manufacturing Corporation, Houston, Tex. Pipe unions. Serial No. 456,279; June 29. Class 13.
West Disinfecting Company, Long Island City, N. Y. Disinfectant and fungicide. Serial No. 460,318; June 29. Class 6.
Wisconsin Pharmacal Company, Milwaukee, Wis. Blueprinting solution. Serial No. 460,319; June 29. Class 6.
Wordweaver Co. (See Strongson, Herman L.)
Zeller, Fred, Inc., New York, N. Y. Women's housecoats. Serial No. 450,349; June 29. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Aeroquip Corporation, The, Jackson, Mich. Metallic fittings for fluid conduits. 402,052; June 29; Serial No. 439,742; published Apr. 20, 1943. Class 13.
Agricultural Laboratories, Inc., Columbus, Ohio. Preparation for germinating and promoting growth in seeds, plants, flowers, etc. 402,143; June 29. Class 10.
Allen, Frank, New York, N. Y. Dental apparatus. 402,078; June 29; Serial No. 458,029; published Apr. 20, 1943. Class 44.
Allied Chemical & Dye Corporation. (See Barrett Company, The, assignor.)
American Crayon Company, The, Sandusky, Ohio. Marking crayons. 402,096; June 29; Serial No. 458,351; published Apr. 20, 1943. Class 37.
American Crayon Company, The, Sandusky, Ohio. Crayons, chalks, and pencils. 170,248; renewed July 10, 1943.
American Sterilizer Company, Erie, Pa. Ultra-violet space sterilizing apparatus. 402,090; June 29; Serial No. 458,216; published Apr. 20, 1943. Class 44.
Ames Baldwin Wyoming Co. (See Baldwin Tool Works, assignor.)
Anchor Post Fence Company, Baltimore, Md. Aircraft heaters of the combustion type. 402,085; June 29; Serial No. 458,142; published Apr. 20, 1943. Class 34.
Anderson, L. D., doing business as Arizona Vegetable Distributors, Phoenix, Ariz. Fresh vegetables. 402,126; June 29; Serial No. 458,670; published Apr. 20, 1943. Class 46.
Anderson, V. D., Company, The, Cleveland, Ohio. Steam traps. 402,120; June 29; Serial No. 458,621; published Apr. 20, 1943. Class 13.
Arizona Vegetable Distributors. (See Anderson, L. D.)
Arkansas Company, Inc., Newark, N. J. Tanning agents. 402,127; June 29; Serial No. 458,672; published Apr. 13, 1943. Class 6.
Atlantic Chemicals & Metals Co., Chicago, Ill. Chemical flux for degasifying and purifying aluminum and its alloys, etc. 402,102; June 29; Serial No. 458,423; published Apr. 13, 1943. Class 6.
Baldwin Tool Works, assignor, by mesne assignments, to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Shovels, spades, scoops, etc. 174,760; renewed Oct. 23, 1943.
Barbour Flax Spinning Co., Paterson, N. J., assignor to The Linen Thread Co., Inc., New York, N. Y. Hand-sewing and machine-sewing linen threads. 175,550; renewed Nov. 6, 1943.
Barrett Company, The, assignor to Allied Chemical and Dye Corporation, New York, N. Y. Roofing and sheathing felt. 169,149; renewed June 12, 1943.
Barrett Company, The, assignor to Allied Chemical and Dye Corporation, New York, N. Y. Ready-mixed paint and paint thinner. 169,829; renewed July 3, 1943.
Barrett Company, The, assignor to The Allied Chemical and Dye Corporation, New York, N. Y. Liquid bituminous material. 172,004; renewed Aug. 21, 1943.
Barrett Company, The, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Insulating paper. 170,200; renewed July 10, 1943.
Barrett Company, The, assignor to Allied Chemical and Dye Corporation, New York, N. Y. Solid bituminous material. 172,213; renewed Aug. 28, 1943.
Barrett Company, The, assignor to Allied Chemical and Dye Corporation, New York, N. Y. Liquid bituminous material for compounding rubber. 172,214; renewed Aug. 28, 1943.
Barrett Company, The, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Ready felt roofing. 174,747; renewed Oct. 23, 1943.
Bates, C. J., & Son, Chester, Conn. Manicure sets, nail files, nail buffers, etc. 402,073; June 29; Serial No. 457,670; published Apr. 20, 1943. Class 44.
Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mountings and goggles. 402,110; June 29; Serial No. 458,581; published Apr. 20, 1943. Class 26.
Beverages of America Bottling Company. (See Webb, Samuel E.)
Botany Worsted Mills, Passaic, N. J. Worsted yarn fabric. 174,165–6; renewed Oct. 9, 1943.
Botany Worsted Mills, Passaic, N. J. Brocaded wool pile fabric. 174,506; renewed Oct. 16, 1943.
Botany Worsted Mills, Passaic, N. J. Wool pile fabric. 174,507; renewed Oct. 16, 1943.
Botany Worsted Mills, Passaic, N. J. Worsted yarn fabric. 174,588; renewed Oct. 23, 1943.

Botany Worsted Mills, Passaic, N. J. Fabric. 175,177; renewed Oct. 30, 1943.
Bovinine Company, The, Jersey City, N. J. Medicinal mineral preparations. 402,118; June 29; Serial No. 458,566; published Apr. 13, 1943. Class 6.
Bradford-Norton, Birmingham, Ala. Ladies' and misses' hats. 402,108–9; June 29; Serial Nos. 458,503–4; published Apr. 13, 1943. Class 39.
British American Metals Company, Inc., New York, assignor, by mesne assignments, to Phelps Dodge Copper Products Corporation, New York, N. Y., and Dover, Del. Seamless brass tubes, seamless copper tubes, and condenser tubes. 167,803; renewed May 8, 1943.
Browns, Dr., Laboratories. (See Nostane Products Corporation.)
Budd Electric Co., Chicago, Ill. Floor lamps. 402,140; June 29. Class 21.
Budeke, George M., trading as George M. Budeke Co. and Budeke's, Baltimore, Md. Oil paint, linseed oils, floor wax, etc. 175,295; renewed Nov. 6, 1943.
Bueter, T. H., doing business as T. H. Bueter Baking Co., Quincy, Ill. Bakery products. 402,139; June 29. Class 46.
Campbell, Andrew C., Incorporated, Waterbury, to Andrew C. Campbell, Incorporated, Bridgeport, Conn. Machines for cutting sheet metal. 171,567; renewed Aug. 7, 1943.
Campbell, Harry T., Son's Corp., Towson, Md. Calcite grit for poultry feed. 402,098; June 29; Serial No. 458,387; published Apr. 20, 1943. Class 1.
Campe-Davis-Blair Co. Inc., assignor to Irwill Knitwear Corp., New York, N. Y. Women's and girls' stockings and hoisery generally. 173,259; renewed Sept. 18, 1943.
Carreras, Francisco I., doing business as Ebrey Chemical Works, Miami, Fla. Diuretic preparation. 402,111; June 29; Serial No. 458,525; published Apr. 20, 1943. Class 6.
Casement Winter-Glaze Company. (See Lunde, Henry J.)
Catholic Students' Mission Crusade, Cincinnati, Ohio. Magazine. 170,109; renewed July 10, 1943.
Celanese Corporation of America, New York, N. Y. Staple fibers. 402,094; June 29; Serial No. 458,325; published Apr. 20, 1943. Class 1.
Celanese Corporation of America, New York, N. Y. Staple fibers. 402,121; June 29; Serial No. 458,626; published Apr. 20, 1943. Class 1.
Central Radio Laboratories, assignor to Globe-Union Inc., Milwaukee, Wis. Radio signaling apparatus and parts thereof. 174,599; renewed Oct. 23, 1943.
Cincinnati Cordage & Paper Company, Cincinnati, Ohio. Wrting paper. 169,328; renewed June 12, 1943.
Cohen, N. B., Company, Scranton, Pa. Hair nets. 402,051; June 29; Serial No. 439,170; published Apr. 13, 1943. Class 39.
Colgate & Company, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soaps. 173,810; renewed Oct. 2, 1943.
Colgate-Palmolive-Peet Company. (See Colgate & Company, assignor.)
College Inn Food Products Co., Chicago, Ill. Cooked and canned food products. 175,067; renewed Oct. 30, 1943.
Conservator Products Co., Philadelphia, Pa. Solid fuel cooking and heating stoves and ranges. 402,077; June 29; Serial No. 457,894; published Apr. 20, 1943. Class 34.
Cook Electric Company, Chicago, Ill. Apparatus in telephone systems. 402,112; June 29; Serial No. 458,528; published Apr. 20, 1943. Class 21.
Corkran, Hill & Co. Inc., Baltimore, assignor to Corkran Hill & Company, Incorporated, Baltimore, Md., and Chicago, Ill. Hams and bacon. 167,061; renewed Apr. 24, 1943.
Coughlin, Frank R., assignor to Coughlin Manufacturing Co., assignor to Coughlin Manufacturing Company, New York, N. Y. Sized gold leaf, imitation gold leaf, and silver leaf. 168,120; renewed May 15, 1943.
Crutcher, Edwin, doing business as Golden Arrow Hosiery Mills, assignor to Golden Art Hosiery Company, Nashville, Tenn. Hosiery. 175,733; renewed Nov. 13, 1943.
Crystaloy Laboratories, Chicago, Ill. Gauge points and shoes for measuring devices. 402,132; June 29; Serial No. 458,726; published Apr. 20, 1943. Class 26.
Cuprinol, Inc., doing business as Kopertox Laboratories, Boston, Mass. Medical preparation adapted for direct Application to the human skin. 402,070; June 29; Serial No. 457,637; published Apr. 13, 1943. Class 6.
Dairy Supply Company. (See Wertheimer, Henry.)
Donaldson, Maude E., doing business as Donaldson Nipple Company. Nipples for nursing bottles. 402,153; June 29. Class 44.
Donaldson Nipple Company. (See Donaldson, Maude E.)
Double-Mix, Inc., Kansas City, Mo. Composition of matter in tablet or powdered form. 402,068; June 29; Serial No. 456,919; published Apr. 13, 1943. Class 6.
Eagle-Picher Lead Company, The, Cincinnati, Ohio. Pure white lead. 167,926; renewed May 8, 1943.
Eastern Coal Sales Company, Bluefield, W. Va. Bituminous coal. 402,082–4; June 29; Serial Nos. 458,112–4; published Apr. 20, 1943. Class 1.
Ebrey Chemical Works. (See Carreras, Francisco I.)
Edison, Thomas A., Incorporated, West Orange, N. J. Devices for controlling the starting and stopping of phonographic apparatus. 172,259; renewed Aug. 28, 1943.
Elk Pharmacy, The. (See Lawler, William A.)
Esmond Mills, The, Esmond, Smithfield, assignor to Esmond Mills, Inc., Esmond, R. I. Cotton blankets and cotton blanket piece goods. 171,608; renewed Aug. 7, 1943.
Esmond Mills, The, Esmond, Smithfield, assignor to The Esmond Mills, Inc., Esmond, R. I. Woxen textile fabrics, upholstery and dress fabrics. 175,176; renewed Oct. 30, 1943.
Evans, John R. & Company, Camden, N. J. Leather. 402,103; June 29; Serial No. 458,425; published Apr. 20, 1943. Class 1.
Evans, S. W., & Son, assignor to S. W. Evans & Son, Philadelphia, Pa. Umbrella and parasol ribs. 162,503; renewed Dec. 19, 1942.
Excelsior Leather Washer Manufacturing Co., Rockford, Ill. Leather gaskets, packings, and washers. 402,113; June 29; Serial No. 458,532; published Apr. 20, 1943. Class 35.
Excelsior Needle Company, assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Needles. 23,649; re-renewed Sept. 26, 1943.
Fiction House, Inc., New York and Long Island City, to Fiction House, Inc., New York, N. Y. Magazine and completely-printed books of various titles. 174,120; renewed Oct. 2, 1943.
Flintkote Company, The. (See Richardson Company, The, assignor.)
Ford Roofing Products Company, Chicago, Ill. Composition shingles. 402,141; June 29; Class 12.
Forest Products Chemical Company. (See Rubber Service Laboratories Company, The, assignor.)
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, paper towels, etc. 175,326; renewed Nov 6, 1943.
Fox River Paper Company, assignor to Fox River Paper Corporation, Appleton, Wis. Writing paper. 175,299; renewed Nov. 6, 1943.
Friedman Bros. & Sons Neckwear Co., Inc., New York, N. Y. Ornamental shoe and dress bows; ribbons sold in short cut lengths such as wrist watch ribbons; shoe and dress buckles and ornaments, etc. 402,054; June 29; Serial No. 450,332; published Apr. 13, 1943. Class 40.
General Dyestuff Corporation. (See Metz, H. A., & Co., assignor.)
General Mills, Inc., Minneapolis, Minn. Feeds for carnivorous, herbivorous, and omnivorous animals. 402,060; June 29; Serial No. 454,927; published Apr. 20, 1943. Class 46.
General Textile Mills, Inc., New York, N. Y. Parachutes. 402,088; June 29; Serial No. 458,189; published Apr. 20, 1943. Class 19.
Givaudan-Delawanna, Inc., Delawanna, N. J., and New York, N. Y. Solvents, particularly for use in the preparation of cosmetics and like compositions. 402,133; June 29; Serial No. 458,730; published Apr. 13, 1943. Class 6.
Globe-Union Inc. (See Central Radio Laboratories, assignor.)
Goldberg, Samuel A., Chicago, Ill. Hosiery. 171,241; renewed July 31, 1943.
Golden Art Hosiery Company. (See Crutcher, Edwin, assignor.)
Golden Arrow Hosiery Mills. (See Crutcher, Edwin.)
Goldman, Harry W., doing business as The Harry W. Goldman Co., Baltimore, Md., assignor, by mesne assignments, to Rosenau Brothers, Philadelphia, Pa. Middle blouses, ladies', children's, and misses' dresses, knickers, etc. 174,260; renewed Oct. 9, 1943.
Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reenforced with fabric. 168,192; renewed May 15, 1943.
Gordon & Ferguson, to Gordon & Ferguson Company, St. Paul, Minn., successor. Leather, fur, and fabric gloves; hats and caps of fur and fabric, capes of fur, leather, etc. 157,509; renewed Aug. 8, 1943.
Gorham Manufacturing Company, Providence, R. I. Desk sets, pens, fountain pens, etc. 175,293; renewed Nov. 6, 1943.
Gorton-Pew Fisheries Company, assignor to Gorton-Pew Fisheries Company, Ltd., Gloucester, Mass. Potatoes and salt fish combined for fish cakes. 174,518; renewed Oct. 16, 1943.
Gorton-Pew Fisheries Company, assignor to Gorton-Pew Fisheries Company, Ltd., Gloucester, Mass. Salt codfish. 174,601; renewed Oct. 23, 1943.
Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. 402,136; June 29; Serial No. 458,840; published Apr. 20, 1943. Class 6.
Greenup Broom Co. Inc., Greenup, Ill. Brooms. 168,250; renewed May 15, 1943.
Hall, Horace W., doing business as Hall Mfg. Co., Newton Highlands, Mass. Tennis, squash, and badminton playing rackets. 402,053; June 29; Serial No. 448,758; published Apr. 6, 1943. Class 22.
Heirloom Needlework Guild, Inc., New York, N. Y. Military toilet kit cases, duffle bags, furlough bags, etc. 402,091; June 29; Serial No. 458,239; published Apr. 13, 1943. Class 3.

Hill and Moore, Downers Grove, Ill. Prepared dog food. 402,092; June 29; Serial No. 458,240; published Apr. 20, 1943. Class 46.
Hill's Laboratories. (See Mills, Lyle W.)
Horvath, John, Passaic, N. J. Medicine for the treatment of hemorrhage, stomach cramps and ulcers, a bowel and urine cleanser. 402,079; June 29; Serial No. 458,037; published Apr. 13, 1943. Class 6.
Hosecraft Hosiery Mills. (See Livingston, William.)
Inerto Company. (See Plaut, Carl S.)
Ironrite Ironer Company, The. (See Sperlich and Uhlig Company.)
Irwill Knitwear Corp. (See Campe-Davis-Blair Co. Inc., assignor.)
Jennings, O. D., & Company, Chicago, Ill. Scales. 175,164; renewed Oct. 30, 1943.
Jarvis, Charles L., Company, The, Middletown, Conn. Flexible shaft machines, tapping attachments, tapping machine equipment, etc. 402,150; June 29. Class 23.
Jay, B. F., doing business as B. F. Jay & Company, New York, N. Y. Toy musical blocks and toy books. 402,152; June 29. Class 22.
Johnson, S. C., & Son, Inc., Racine, Wis. Aqueous and non-aqueous wax emulsions which make absorptive fibrous and non-fibrous materials water proof and water repellent. 402,064; June 29; Serial No. 456,559; published Apr. 13, 1943. Class 6.
Ken-Nite Company, Detroit, Mich. Cleaner, wax and polish. 402,058; June 29; Serial No. 453,551; published Apr. 20, 1943. Class 16.
King, John P., Manufacturing Co., The, Augusta, Ga. Cotton piece goods. 172,006; renewed Aug. 21, 1943.
King's Food Products Company, Portland, assignor to Paulus Bros Packing Company, Salem, Oreg. Canned and dehydrated fruits and vegetables. 168,640; renewed May 29, 1943.
Knight, Joe Mitchell, Elfers, Fla. Oranges, grapefruit, and citrous fruits. 171,270; renewed July 31, 1943.
Kopertox Laboratories. (See Cuprinol, Inc.)
Kramer, Benjamin, New York, N. Y. Ladies' and misses' handbags. 402,122; June 29; Serial No. 458,632; published Apr. 20, 1943. Class 3.
Lafans, Walter S., Minneapolis, Minn. Decorative lanterns. 169,253; renewed June 12, 1943.
Lawler, William A., doing business as The Elk Pharmacy, Lexington, Tenn. Flesh builder and iron tonic. 167,501; renewed May 1, 1943.
Leighton Hats, Inc., New York, N. Y. Ladies' and misses' hats. 402,089; June 29; Serial No. 458,209; published Apr. 6, 1943. Class 39.
Linen Thread Co., Inc., The. (See Barbour Flax Spinning Co., assignor.)
Livingston, William, doing business as Hosecraft Hosiery Mills, New York, N. Y. Foot socks. 402,066; June 29; Serial No. 456,827; published Apr. 13, 1943. Class 39.
Lunde, Henry J., doing business as Casement Winter-Glaze Company, Port Washington, N. Y. Storm sashes. 402,147; June 29. Class 12.
Lynch Heel Company, Chelsea, Mass. Rubber heels. 168,071; renewed May 15, 1943.
Madelaine, Inc., New York, N. Y. Powder puffs filled with powdered body deodorant. 402,097; June 29; Serial No. 458,368; published Apr. 20, 1943. Class 6.
Malasky, Maurice, doing business as Safe-T-Seal Mfg. Co., Washington, D. C. Sealing compound for tire inner tubes. 402,145; June 29. Class 5.
Marquette Manufacturing Company, St. Paul, to Marquette Manufacturing Company, Minneapolis, Minn. Rim tools and tire tools. 169,353; renewed June 12, 1943.
McKay, Arthur W., Sacramento, Calif. Shoes. 402,059; June 29; Serial No. 453,676; published Apr. 13, 1943. Class 39.
McKesson & Robbins, Incorporated, New York, N. Y. Analgesic tablets. 402,114–16; June 29; Serial Nos. 458,538–40; published Apr. 13, 1943. Class 6.
Metz, H. A., & Co., Inc., assignors to General Dyestuff Corporation, New York, N. Y. Dyes and dyestuffs. 170,413; renewed July 17, 1943.
Midwest Manufacturing & Engineering Corp., Boston, Mass. Cigarette cases. 402,104; June 29; Serial No. 458,430; published Apr. 20, 1943. Class 8.
Miller & Van Winkle, Inc., Brooklyn, N. Y., assignor to Miller & Van Winkle, Inc., Paterson, N. J. Springs for general use. 174,758; renewed Oct. 23, 1943.
Mills, Lyle W., doing business as Hill's Laboratories, Silver Spring, Md. Medicinal preparation for relief of muscular aches, headaches, post natal pains, etc. 402,117; June 29; Serial No. 458,543; published Apr. 13, 1943. Class 6.
Minor, Harriet A., New Orleans, La. Household cleaning and polishing paste. 402,086; June 29; Serial No. 458,157; published Apr. 13, 1943. Class 4.
Mission Hosiery Mills. (See Wittenberg, Armin H.)
Morris, Philip, & Co. Ltd., New York, N. Y. Cigarettes. 173,131; renewed Sept. 18, 1943.
Mutual Citrus Products Co., Inc., Anaheim, Calif. Powdered beverage base. 402,099; June 29; Serial No. 458,401; published Apr. 13, 1943. Class 45.
National Cash Register Company, The, Dayton, Ohio. Registering machines. 402,061–2; June 29; Serial Nos. 455,022–3; published Apr. 20, 1943. Class 26.
Neishtat, Maurice, New York, N. Y. Leather wrist watch straps. 402,063; June 29; Serial No. 455,986; published Apr. 13, 1943. Class 40.
New Jersey Charcoal Co., Inc., Irvington, N. J. Charcoal. 175,803; renewed Nov. 13, 1943.
New York Girl Coat Co., New York, N. Y., assignor to New York Girl Coat Co., Summit, N. J., and New York, N. Y. Girls' coats. 172,859; renewed Sept. 11, 1943.
Norristown Herald, Inc. (See Norristown Herald Printing and Publishing Co., assignor.)
Norristown Herald Printing and Publishing Co., assignor to Norristown Herald, Inc., Norristown, Pa. Periodical publication. 175,792; renewed Nov. 13, 1943.
Nostane Products Corporation, doing business as Dr. Browns Laboratories, Brooklyn, N. Y. Vitamin preparation. 402,093; June 29; Serial No. 458,279; published Apr. 20, 1943. Class 6.
Novocol Chemical Mfg. Co. Inc., Brooklyn, N. Y. Anesthetics. 402,055; June 29; Serial No. 451,316; published Apr. 14, 1942. Class 6.
Nyal Company, Detroit, Mich. Vitamin preparation. 402,128; June 29; Serial No. 458,690; published Apr. 20, 1943. Class 6.
Nyal Company, Detroit, Mich. Antacid. 402,129; June 29; Serial No. 458,691; published Apr. 20, 1943. Class 6.
Oil Base Drilling Fluids Co., Los Angeles, Calif. Powdered composition. 402,100; June 29; Serial No. 458,402; published Apr. 20, 1943. Class 1.
Paulus Bros. Packing Company. (See King's Food Products Company, assignor.)
Peerless Confection Company, Chicago, Ill. Candies. 174,660; renewed Oct. 23, 1943.
Peerless Confection Company, Chicago, Ill. Candies. 175,079; renewed Oct. 30, 1943.
Perry Food Products Co., Chicago, Ill. Smoked hams and bacon. 402,056; June 29; Serial No. 453,467; published Feb. 16, 1943. Class 46.
Phelps Dodge Copper Products Corporation. (See British American Metals Company, assignor.)
Philco Corporation, Philadelphia, Pa. Refrigerators, refrigerator cabinets, refrigerator doors, etc. 402,135; June 29; Serial No. 458,818; published Apr. 20, 1943. Class 31.
Phillips Petroleum Company, Bartlesville, Okla. Carbon black. 402,074–6; June 29; Serial Nos. 457,746–8; published Apr. 20, 1943. Class 1.
Plaut, Carl S., doing business as Inerto Company, San Francisco, Calif. Pipe couplings and feed valves. 402,124; June 29; Serial No. 458,660; published Apr. 20, 1943. Class 13.
Plough, Inc., Memphis, Tenn. Medicinal preparation. 402,081; June 29; Serial No. 458,106; published Apr. 20, 1943. Class 6.
Process Chemicals Incorporated, assignor to Zonite Products Corporation, New York, N. Y. Insecticide and mothproofing composition. 170,656; renewed July 17, 1943.
Putney, Stephen, Shoe Company, Richmond, Va. Children's leather shoes. 402,069; June 29; Serial No. 457,254; published Apr. 6, 1943. Class 39.
Richardson Company, The, Lockland, Ohio, assignor to The Flintkote Company, New York, N. Y. Bituminous compositions. 169,299; renewed June 12, 1943.
Richardson Company, The, Lockland, Ohio, assignor to The Flintkote Company, New York, N. Y. Sanitary sound-deadening and insulating fabric. 169,335; renewed June 12, 1943.
Ries Camera Co. (See Ries, Park J.)
Ries, Park J., doing business as Ries Camera Co., Hollywood, Calif. Tripods and locking attachments therefor. 402,149; June 29. Class 26.
Rohm & Haas Company, Philadelphia, Pa. Enzyme preparation. 402,105; June 29; Serial No. 458,431; published Apr. 13, 1943. Class 6.
Rood, Ashton B., Los Angeles, Calif. Chemical preparation. 402,101; June 29; Serial No. 458,409; published Apr. 20, 1943. Class 6.
Roper, Geo. D., Corporation, Rockford, Ill. Compilation of recipes, card index of recipes, and printed recipes. 174,857; renewed Oct. 23, 1943.
Rosenau Brothers. (See Goldman, Harry W., assignor.)
Rubber Service Laboratories Company, The, Akron, Ohio, assignor to Forest Products Chemical Company, Memphis, Tenn. Hardwood pitch. 175,004; renewed Oct. 30, 1943.
Rubin, Samuel, New York, N. Y. Perfume. 402,130; June 29; Serial No. 458,693; published Apr. 20, 1943. Class 6.
Safe-T-Seal Mfg. Co. (See Malasky, Maurice.)
San Jose Canning Company, Inc., San Jose, Calif. Canned vegetables. 175,801; renewed Nov. 13, 1943.
Schaffner Brothers Company, Erie, Pa. Bacon, ham, breakfast-bacon squares. 173,389; renewed Sept. 25, 1943.
Schaffner Brothers Company, Erie, Pa. Sausage, boiled ham, meat loaf, etc. 173,614; renewed Oct. 2, 1943.
Sloan, Dr. Earl S., Inc., New York, N. Y. Medicinal preparations. 402,125; June 29; Serial No. 458,663; published Apr. 20, 1943. Class 6.
Smart, David, Chicago, Ill. Magazine. 174,606; renewed Oct. 23, 1943.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Water-soluble fluid composition of soapless lathering material. 402,071; June 29; Serial No. 457,645; published Apr. 20, 1943. Class 4.
Specific Pharmaceuticals, Inc., New York, N. Y. Oleander glucoside product. 402,087; June 29; Serial No. 458,161; published Apr. 13, 1943. Class 6.
Sperlich and Uhlig Company, Detroit, Mich., by change of name to The Ironrite Ironer Company. Mangles. 171,075; renewed July 31, 1943.
Stanley Home Products, Inc., Westfield, Mass. Chemical preparation for use on silver, gold, etc. 402,057; June 29; Serial No. 453,475; published Apr. 20, 1943. Class 4.
Starr, Daniel, doing business as Starr Knitting Mill, Brooklyn, N. Y. Knit sweaters. 172,281; renewed Aug. 28, 1943.
Starr Knitting Mill. (See Starr, Daniel.)
State of Maine, Augusta, Maine. Potatoes. 402,142; June 29. Class 46.
Stearns, Frederick & Company, Detroit, Mich. Vitamin preparation. 402,131; June 29; Serial No. 458,694; published Apr. 13, 1943. Class 6.
Stein, A., & Company, Chicago, Ill. Undergarments of textile fabric. 168,157; renewed May 15, 1943.
Stern, L. & H., Inc., Brooklyn, N. Y. Smokers' pipes, cigar holders, and cigarette holders. 402,146; June 29. Class 8.
Stock, Roslyn, doing business as Tweets Novelty Company, New York, N. Y. Dolls. 402,095; June 29; Serial No. 458,346; published Apr. 20, 1943. Class 22.
Sunlite Mfg. Company, The, Milwaukee, Wis. Ironing board pads. 402,106; June 29; Serial No. 458,487; published Apr. 20, 1943. Class 24.
Sunray Stove Company, The, Delaware, Ohio. Gas ranges and heaters. 171,478; renewed Aug. 7, 1943.
Torrington Company, The. (See Excelsior Needle Company, assignor.)
Tweets Novelty Company. (See Stock, Roslyn.)
Union Oil Company of California, Los Angeles, Calif. Petroleum tailings, road oils, residual oils, etc. 168,103; renewed May 15, 1943.
Universal Paper Products Company, Chicago, Ill. Glass soda cup holders. 402,072; June 29; Serial No. 457,665; published Apr. 20, 1943. Class 33.
U. S. Bedding Company, Memphis, Tenn. Beds, bed springs, and mattresses. 175,727; renewed Nov. 13, 1943.
Vale Chemical Co., Inc., The, Allentown, Pa. Preparation for use in correction of nutritional deficiencies. 402,134; June 29; Serial No. 458,770; published Apr. 13, 1943. Class 6.
Valentine Laboratories, Inc., Chicago, Ill. Vitamin preparations for internal use. 402,123; June 29; Serial No. 458,640; published Apr. 13, 1943. Class 6.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Resin. 402,080; June 29; Serial No. 458,055; published Apr. 20, 1943. Class 1.
Van Raalte Company, Inc., New York, N. Y. Woman's underwear. 175,598; renewed Nov. 6, 1943.
Vanity Fair Silk Mills, Reading, Pa., by change of name to Vanity Fair Mills, Inc. Vests, bloomers, knickerbockers, etc. 175,353; renewed Nov. 6, 1943.
Vanity Fair Silk Mills, Reading, Pa., by change of name to Vanity Fair Mills, Inc. Veils and silk cloth in the piece. 175,517; renewed Nov. 6, 1943.
Victor Insulators, Inc., Victor, N. Y. Micaceous mineral material. 402,107; June 29; Serial No. 458,502; published Apr. 20, 1943. Class 1.
Victory Supply Company. (See Wentz, Willard W.)
Webb, Samuel E., doing business as Beverages of America Bottling Company, Philadelphia, Pa. Nonalcoholic and maltless beverages and products. 402,110; June 29; Serial No. 458,518; published Apr. 13, 1943. Class 45.
Wedgeplug Valve Company, New Orleans, La. Plug valves, gate valves, globe valves, etc. 402,148; June 29. Class 13.
Wentz, Willard W., doing business as Victory Supply Company, Passaic, N. J. Gauze bandages. 402,144; June 29. Class 44.
Wertheimer, Henry, doing business as Dairy Supply Company. Milking machines. 402,154; June 29. Class 23.
Westall, Evelyn, doing business as Evelyn Westall Co., New York, N. Y. Perfume, toilet water, and cologne. 402,137–8; June 29; Serial Nos. 458,870–1; published Apr. 20, 1943. Class 6.
Westbrook and McLaren, Dierks, Ark. Salve. 402,050; June 29; Serial No. 428,008; published Apr. 13, 1943. Class 6.
Western Auto Supply Company, Kansas City, Mo. Men's and boys' wearing apparel. 402,067; June 29; Serial No. 456,860; published Apr. 6, 1943. Class 39.
Western Paint & Varnish Company, New Duluth, Minn. Liquid and paste cold water paint. 402,065; June 29; Serial No. 456,783; published Apr. 20, 1943. Class 16.
Windsor-Lloyd Products, Inc. Windshield wipers. 402,151; June 29. Class 19.
Winorr Canning Company, The, Circleville, Ohio. Canned vegetables. 175,435; renewed Nov. 6, 1943.
Wittenberg, Armin H., doing business as Mission Hosiery Mills, Los Angeles, Calif. Hosiery, sweaters and knitted underwear. 173,372; renewed Sept. 25, 1943.
Zonite Products Corporation. (See Process Chemicals Incorporated, assignor.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Bituminous material, Liquid. Barrett Company. 172,004; renewed Aug. 21, 1943.
Bituminous material, Liquid. Barrett Company. 172,214; renewed Aug. 28, 1943.
Bituminous material, Solid. Barrett Company. 172,213; renewed Aug. 28, 1943.
Carbon black. Phillips Petroleum Company. 402,074–6; June 29; Serial Nos. 457,746–8; published Apr. 20, 1943.
Charcoal. New Jersey Charcoal Co. 175,803; renewed Nov. 13, 1943.
Coal, Bituminous. Eastern Coal Sales Company. 402,082–4; June 29; Serial Nos. 458,112–14; published Apr 20, 1943.
Fibers, Staple. Celanese Corporation of America. 402,094; June 29; Serial No. 453,325; published Apr. 20, 1943.
Fibers, Staple. Celanese Corporation of America. 402,121; June 29; Serial No. 458,626; published Apr. 20, 1943.
Grit for poultry feed, Calcite. Harry T. Campbell Sons' Corp. 402,098; June 29; Serial No. 458,387; published Apr. 20, 1943.
Hardwood pitch. Rubber Service Laboratories Company. 175,004; renewed Oct. 30, 1943.
Leather. John R. Evans & Company. 402,103; June 29; Serial No. 458,425; published Apr. 20, 1943.
Material, Micaceous mineral. Victor Insulators, Inc. 402,107; June 29; Serial No. 458,502; published Apr. 20, 1943.
Powdered composition. Oil Base Drilling Fluids Co. 402,100; June 29; Serial No. 458,402; published Apr. 20, 1943.
Resin. R. T. Vanderbilt Company, Inc. 402,080; June 29; Serial No. 458,055; published Apr. 20, 1943.

CLASS 3

Cases, duffle bags, furlough bags, etc., Military toilet kit. Heirloom Needlework Guild, Inc. 402,091; June 29; Serial No. 458,239; published Apr. 13, 1943.
Handbags, Ladies' and misses'. B. Kramer. 402,122; June 29; Serial No. 458,632; published Apr. 20, 1943.

CLASS 4

Chemical preparation for use on silver, gold, etc. Stanley Home Products, Inc. 402,057; June 29; Serial No. 453,475; published Apr. 20, 1943.
Cleaning and polishing paste, Household. H. A. Minor. 402,086; June 29; Serial No. 458,157; published Apr. 13, 1943.
Soaps. Colgate & Company. 173,810; renewed Oct. 2, 1943.
Water-soluble fluid composition of soapless lathering material. Socony-Vacuum Oil Company. 402,071; June 29; Serial No. 457,645; published Apr. 20, 1943.

CLASS 5

Sealing compound for tire inner tubes. M. Malasky. 402,145; June 29.

CLASS 6

Analgesic tablets. McKesson & Robbins, Incorporated. 402,114–16; June 29; Serial Nos. 458,538–40; published Apr. 13, 1943.
Anesthetics. Novocol Chemical Mfg. Co. Inc. 402,055; June 29; Serial No. 451,316; published Apr. 14, 1942.
Antacid. Nyal Company. 402,129; June 29; Serial No. 458,691; published Apr. 20, 1943.
Aqueous and non-aqueous wax emulsions which make absorptive fibrous and non-fibrous materials water-proof and water repellent. S. C. Johnson & Son, Inc. 402,064; June 29; Serial No. 456,559; published Apr. 13, 1943.
Chemical flux for degasifying and purifying aluminum and its light alloys, etc. Atlantic Chemicals & Metals Co. 402,102; June 29; Serial No. 458,423; published Apr. 13, 1943.
Chemical preparation. A. B. Rood. 402,101; June 29; Serial No. 458,409; published Apr. 20, 1943.
Composition of matter in tablet or powdered form. Double-Mix, Inc. 402,068; June 29; Serial No. 456,919; published Apr. 13, 1943.
Diuretic preparation. F. I. Carreras. 402,111; June 29; Serial No. 458,525; published Apr. 20, 1943.
Dyes and dyestuffs. H. A. Metz & Co. 170,413; renewed July 17, 1943.
Enzyme preparation. Rohm & Haas Company. 402,105; June 29; Serial No. 458,431; published Apr. 13, 1943.

Flesh builder and iron tonic. W. A. Lawler. 167,501; renewed May 1, 1943.
Insecticide and mothproofing composition. Process Chemicals Incorporated. 170,656; renewed July 17, 1943.
Medical preparation for direct application to the human skin. Cuprinol, Inc. 402,070; June 29; Serial No. 457,637; published Apr. 13, 1943.
Medicinal mineral preparations. Bovinine Company. 402,118; June 29; Serial No. 458,566; published Apr. 13, 1943.
Medicinal preparation. Plough, Inc. 402,081; June 29; Serial No. 458,106; published Apr. 20, 1943.
Medicinal preparation for relief of muscular aches, head aches, post natal pains, etc. L. W. Mills. 402,117; June 29; Serial No. 458,543; published Apr. 13, 1943.
Medicinal preparations. Dr. E. S. Sloan Inc. 402,125; June 29; Serial No. 458,663; published Apr. 20, 1943.
Medicine for the treatment of hemorrhage, stomach cramps and ulcers, a bowel and urine cleaner. J. Horvath. 402,079; June 29; Serial No. 458,037; published Apr. 13, 1943.
Oleander glucoside product. Specific Pharmaceuticals, Inc. 402,087; June 29; Serial No. 458,161; published Apr. 13, 1943.
Perfume. S. Rubin. 402,130; June 29; Serial No. 458,693; published Apr. 20, 1943.
Perfume, toilet water, and cologne. E. Westall. 402,137–8; June 29; Serial Nos. 458,870–1; published Apr. 20, 1943.
Powder puffs filled with powdered body deodorant. Madelaine, Inc. 402,097; June 29; Serial No. 458,368; published Apr. 20, 1943.
Preparation for use in correction of nutritional deficiencies. Vale Chemical Co. 402,134; June 29; Serial No. 458,770; published Apr. 13, 1943.
Salve. Westbrook and McLaren. 402,050; June 29; Serial No. 428,008; published Apr. 13, 1943.
Solvents, particularly for use in the preparation of cosmetic and like compositions. Givaudan-Delawanna, Inc. 402,133; June 29; Serial No. 458,730; published Apr. 13, 1943.
Tanning agents. Arkansas Company, Inc. 402,127; June 29; Serial No. 458,672; published Apr. 13, 1943.
Vitamin capsules. Grove Laboratories, Inc. 402,136; June 29; Serial No. 458,840; published Apr. 20, 1943.
Vitamin preparation. Nostane Products Corporation. 402,093; June 29; Serial No. 458,279; published Apr. 20, 1943.
Vitamin preparation. Nyal Company. 402,128; June 29; Serial No. 458,690; published Apr. 20, 1943.
Vitamin preparation. Frederick Stearns & Company. 402,131; June 29; Serial No. 458,694; published Apr. 13, 1943.
Vitamin preparation for internal use. Valentine Laboratories, Inc. 402,123; June 29; Serial No. 458,640; published Apr. 13, 1943.

CLASS 8

Cigarette cases. Midwest Manufacturing & Engineering Corp. 402,104; June 29; Serial No. 458,430; published Apr. 20, 1943.
Pipes, cigar holders, and cigarette holders, Smokers'. L. & H. Stern, Inc. 402,146; June 29.

CLASS 10

Germinating and promoting growth in seeds, plants, flors, etc., Preparation for. Agricultural Laboratories, Inc. 402,143; June 29.

CLASS 12

Bituminous compositions. Richardson Company. 169,299; renewed June 12, 1943.
Felt, Roofing and sheathing. Barrett Company. 169,149; renewed June 12, 1943.
Insulating fabric, Sanitary sound-deadening. Richardson Company. 169,334; renewed June 12, 1943.
Insulating paper. Barrett Company. 170,200; renewed July 10, 1943.
Roofing, Ready felt. Barrett Company. 174,747; renewed Oct. 23, 1943.
Sashes, Storm. H. J. Lunde. 402,147; June 29.
Shingles, Composition. Ford Roofing Products Company. 402,141; June 29.

CLASS 13

Metallic fittings. Aeroquip Corporation. 402,052; June 29; Serial No. 439,742; published Apr. 20, 1943.
Pipe couplings and feed valves. C. S. Plaut. 402,124; June 29; Serial No. 458,660; published Apr. 20, 1943.
Springs for general use. Miller & Van Winkle, Inc. 174,758; renewed Oct. 23, 1943.
Traps, Steam. V. D. Anderson Company. 402,120; June 29; Serial No. 458,621; published Apr. 20, 1943.
Tubes, seamless copper tubes, and condenser tubes, Seamless brass. British American Metals Company, Inc. 167,803; renewed May 8, 1943.
Valves, gate valves, globe valves, etc., Plug. Wedgeplug Valve Company. 402,148; June 29.

CLASS 14

Gold leaf, imitation gold leaf, and silver leaf, Sized. F. R. Coughlin. 168,120; renewed May 15, 1943.

CLASS 15

Petroleum tailings, road oils, residual oils, etc. Union Oil Company of California. 168,103; renewed May 15, 1943.

CLASS 16

Cleaner, wax and polish. Ken-Nite Company. 402,058; June 29; Serial No. 453,551; published Apr. 20, 1943.
Oil paint, linseed oils, floor wax, etc. G. M. Budeke. 175,295; renewed Nov. 6, 1943.
Paint, Liquid and paste cold water. Western Paint & Varnish Company. 402,065; June 29; Serial No. 456,783; published Apr. 20, 1943.
Paint and paint thinner, Ready-mixed. Barrett Company. 169,829; renewed July 3, 1943.
White lead, Pure. Eagle-Picher Lead Company. 167,926; renewed May 8, 1943.

CLASS 17

Cigarettes. Philip Morris & Co. Ltd. 173,131; renewed Sept. 18, 1943.

CLASS 19

Parachutes. General Textile Mills, Inc. 402,088; June 29; Serial No. 458,189; published Apr. 20, 1943.
Wipers, Windshield. Windsor-Lloyd Products, Inc. 402,151; June 29.

CLASS 21

Apparatus in telephone systems. Cook Electric Company. 402,112; June 29; Serial No. 458,528; published Apr. 20, 1943.
Lamps, Floor. Budd Electric Co. 402,140; June 29.
Radio signaling apparatus and parts thereof. Central Radio Laboratories. 174,599; renewed Oct. 23, 1943.

CLASS 22

Dolls. R. Stock. 402,095; June 29; Serial No. 458,346; published Apr. 20, 1943.
Rackets, Tennis, squash, and badminton playing. H. W. Hall. 402,053; June 29; Serial No. 448,758; published Apr. 6, 1943.
Toy musical blocks and toy books. B. F. Jay. 402,152; June 29.

CLASS 23

Machines for cutting sheet metal. Andrew C. Campbell, Incorporated. 171,567; renewed Aug. 7, 1943.
Milking machines. H. Wertcheimer. 402,154; June 29.
Shaft machines, tapping attachments, tapping machine equipment, etc., Flexible. Charles L. Jarvis Company. 402,150; June 29.
Shovels, spades, scoops, etc. Baldwin Tool Works. 174,760; renewed Oct. 23, 1943.
Tools and tire tools, Rim. Marquette Manufacturing Company. 169,353; renewed June 12, 1943.

CLASS 24

Ironing board pads. Sunlite Mfg. Company. 402,106; June 29; Serial No. 458,487; published Apr. 20, 1943.
Mangles. Sperlich and Uhlig Company. 171,075; renewed July 31, 1943.

CLASS 26

Gauge points and shoes for measuring devices. Crystaloy Laboratories. 402,132; June 29; Serial No. 458,726; published Apr. 20, 1943.
Ophthalmic mountings and goggles. Bausch & Lomb Optical Company. 402,119; June 29; Serial No. 458,581; published Apr. 20, 1943.
Registering machines. National Cash Register Company. 402,061–2; June 29; Serial Nos. 455,022–3; published Apr. 20, 1943.
Scales. O. D. Jennings & Company. 175,164; renewed Oct. 30, 1943.
Tripods and locking attachments therefor. P. J. Ries. 402,149; June 29.

CLASS 29

Brooms. Greenup Broom Co. Inc. 168,250; renewed May 15, 1943.

CLASS 31

Refrigerators, refrigerator cabinets, refrigerator doors, etc. Philco corporation. 402,135; June 29; Serial No. 458,818; published Apr. 20, 1943.

CLASS 32

Beds, bed springs, and mattresses. U. S. Bedding Company. 175,727; renewed Nov. 13, 1943.

CLASS 33

Glass soda cup holders. Universal Paper Products Company. 402,072; June 29; Serial No. 457,665; published Apr. 20, 1943.

CLASS 34

Heaters of the combustion type, Aircraft. Anchor Post Fence Company. 402,085; June 29; Serial No. 458,142; published Apr. 20, 1943.
Lanterns, Decorative. W. S. Lafans. 169,253; renewed June 12, 1943.
Rangers and heaters, Gas. Sunray Stove Company. 171,478; renewed Aug. 7, 1943.

Stoves and ranges, Solid fuel cooking and heating. Conservator Products Co. 402,077; June 29; Serial No. 457,894; published Apr. 20, 1943.

CLASS 35

Gaskets, packings, and washers, Leather. Excelsior Leather Washer Manufacturing Co. 402,113; June 29; Serial No. 458,532; published Apr. 20, 1943.
Hose made of rubber reenforced with fabric. B. F. Goodrich Company. 168,192; renewed May 15, 1943.

CLASS 36

Devices for controlling the starting and stopping of phonographic apparatus. T. A. Edison. 172,259; renewed Aug. 28, 1943.

CLASS 37

Crayons, chalks, and pencils. American Crayon Company. 170,248; renewed July 10, 1943.
Crayons, Marking. American Crayon Company. 402,096; June 29; Serial No. 458,351; published Apr. 20, 1943.
Desk sets, pens, fountain pens, etc. Gorham Manufacturing Company. 175,293; renewed Nov. 6, 1943.
Paper, paper napkins, paper towels, etc., Toilet. Fort Howard Paper Company. 175,326; renewed Nov. 6, 1943.
Paper, Writing. Cincinnati Cordage & Paper Company. 169,328; renewed June 12, 1943.
Paper, Writing. Fox River Paper Company. 175,299; renewed Nov. 6, 1943.

CLASS 38

Magazine. Catholic Students' Mission Crusade. 170,109; renewed July 10, 1943.
Magazine. D. Smart. 174,606; renewed Oct. 23, 1943.
Magazine and completely-printed books of various titles. Fiction House, Inc. 174,120; renewed Oct. 2, 1943.
Publication, periodical. Norristown Herald Printing and Publishing Co. 175,792; renewed Nov. 13, 1943.
Recipes, card index of recipes and printed recipes, Compilation of. Geo. D. Roper Corporation. 174,857; renewed Oct. 23, 1943.

CLASS 39

Blouses, ladies', children's and misses' dresses, knickers, etc., Middy. H. W. Goldman. 174,260; renewed Oct. 9, 1943.
Coats, girls'. New York Girl Coat Co. 172,859; renewed Sept. 11, 1943.
Gloves; hats and caps of fur and fabric, capes of fur and fabric, etc., Leather, fur, and fabric. Gordon & Ferguson. 157,509; renewed Aug. 8, 1942.
Hair nets. N. B. Cohen Company. 402,051; June 29; Serial No. 439,170; published Apr. 13, 1943.
Hats, Ladies' and misses'. Leighton Hats, Inc. 402,089; June 29; Serial No. 458,209; published Apr. 6, 1943.
Hats, Ladies' and misses'. Bradford-Norton. 402,108–9; June 29; Serial Nos. 458,503–4; Apr. 13, 1943.
Hosiery. E. Crutcher. 175,733; renewed Nov. 13, 1943.
Hosiery. S. A. Goldberg. 171,241; renewed July 31, 1943.
Hosiery, sweaters, and knitted underwear. A. H. Wittenberg. 173,372; renewed Sept. 25, 1943.
Heels, Rubber. Lynch Heel Company. 168,071; renewed May 15, 1943.
Shoes. A. W. McKay. 402,059; June 29; Serial No. 453,676 published Apr. 13, 1943.
Shoes, Children's leather. Stephen Putney Shoe Company. 402,060; June 29; Serial No. 457,254; published Apr. 6, 1943.
Socks, Foot. W. Livingston. 402,066; June 29; Serial No. 456,827; published Apr. 13, 1943.
Stockings and hosiery generally, Women's and girls'. Campe-Davis-Blair Co. Inc. 173,259; renewed Sept. 18, 1943.
Sweaters, Knit. D. Starr. 172,281; renewed Aug. 28, 1943.
Undergarments of textile fabric. A. Stein & Company. 168,157; renewed May 15, 1943.
Underwear, Woman's. Van Raalte Company, Inc. 175,598; renewed Nov. 6, 1943.
Vests, bloomers, knickerbockers, etc. Vanity Fair Silk Mills. 175,353; renewed Nov. 6, 1943.
Wearing apparel, Men's and boys'. Western Auto Supply Company. 402,067; June 29; Serial No. 456,860; published Apr. 6, 1943.

CLASS 40

Bows; ribbons sold in short cut lengths such as wrist watch ribbons; shoe and dress buckles and ornaments, etc., Ornamental shoe and dress. Briedman Bros. & Sons Neckwear Co. 402,054; June 29; Serial No. 450,332; published Apr. 13, 1943.

Needles. Excelsior Needle Company. 23,649; re-renewed Sept. 26, 1943.
Watch straps, Leather wrist. M. Neishtat. 402,063; June 29; Serial No. 455,986; published Apr. 13, 1943.

CLASS 41

Umbrella and parasol ribs. S. W. Evans & Sons. 162,503; renewed Dec. 19, 1942.

CLASS 42

Cotton blankets and cotton blanket piece goods. Esmond Mills. 171,608; renewed Aug. 7, 1943.
Cotton piece goods. John P. King Manufacturing Co. 172,006; renewed Aug. 21, 1943.
Fabric, Botany Worsted Mills. 175,177; renewed Oct. 30, 1943.
Fabric, Brocaded wool pile. Botany Worsted Mills. 174,506; renewed Oct. 16, 1943.
Fabric, Wool pile. Botany Worsted Mills. 174,507; renewed Oct. 16, 1943.
Fabric, Worsted yarn fabric. Botany Worsted Mills. 174,165–6; renewed Oct. 9, 1943.
Fabric, Worsted yarn. Botany Worsted Mills. 174,588; renewed Oct. 23, 1943.
Textile fabrics upholstery and dress fabrics, Woven. Esmond Mills. 175,176; renewed Oct. 30, 1943.
Veils and silk cloth in the piece. Vanity Fair Silk Mills. 175,517; renewed Nov. 6, 1943.

CLASS 43

Threads, Hand-sewing and machine-sewing linen. Barbour Flax Spinning Co. 175,550; renewed Nov. 6, 1943.

CLASS 44

Bandages, Gauze. W. W. Wentz. 402,144; June 29.
Dental apparatus. F. Allen. 402,078; June 29; Serial No. 458,029; published Apr. 20, 1943.
Manicure sets, nail files, nail buffers etc. C. J. Bates & Son. 402,073; June 29; Serial No. 457,670; published Apr. 20, 1943.
Nipples for nursing bottles. M. E. Donaldson. 402,153; June 29.
Sterilizing apparatus, Ultra-violet space. American Sterilizer Company. 402,090; June 29; Serial No. 458,216; published Apr. 20, 1943.

CLASS 45

Beverage base, Powdered. Mutual Citrus Products Co. 402,099; June 29; Serial No. 458,401; published Apr. 13, 1943.
Beverages and products, Nonalcoholic and maltless. S. E. Webb. 402,110; June 29; Serial No. 458,518; published Apr. 13, 1943.

CLASS 46

Bacon, ham, breakfast-bacon squares. Schaffner Brothers Company. 173,389; renewed Sept. 25, 1943.
Bakery products. T. H. Bueter. 402,139; June 29.
Candies. Peerless Confection Company. 174,660; renewed Oct. 23. 1943.
Candies. Peerless Confection Company. 175,079; renewed Oct. 30, 1943.
Canned and dehydrated fruits and vegetables. King's Food Products Company. 168,640; renewed May 29, 1943.
Canned vegetables. Winorr Canning Company. 175,435; renewed Nov. 6, 1943.
Canned vegetables. San Jose Canning Company, Inc. 175,801; renewed Nov. 13, 1943.
Codfish, Salt. Gorton-Pew Fisheries Company. 174,601; renewed Oct. 23, 1943.
Cooked and canned food products. College Inn Food Products Co. 175,067; renewed Oct. 30, 1943.
Feeds for carnivorous, herbivorous, and omnivorous animals. General Mills, Inc. 402,060; June 29; Serial No. 454,927; published Apr. 20, 1943.
Food, Prepared dog. Hill and Moore. 402,090; June 29; Serial No. 458,240; published Apr. 20, 1943.
Fruits, Oranges, grapefruit, and citrus. J. M. Knight. 171,270; renewed July 31, 1943.
Hams and bacon. Corkran, Hill & Co. Inc. 167,061; renewed Apr. 24, 1943.
Hams and bacon, Smoked. Perry Food Products Co. 402,056; June 29; Serial No. 453,467; published Feb. 16, 1943.
Potatoes. State of Maine. 402,142; June 29.
Potatoes and salt fish combined for fish cakes. Gorton-Pew Fisheries Company. 174,518; renewed Oct. 16, 1943.
Sausage, boiled ham, meat loaf, etc. Schaffner Brothers Company. 173,614; renewed Oct. 2, 1943.
Vegetables, Fresh. L. D. Anderson. 402,126; June 29; Serial No. 458,670; published Apr. 20, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Pritchard, Sydney C., London, England. Hair drying machine. Re. 22,339; June 29.

LIST OF DESIGN PATENTEES

Air Reduction Company. (See Dawson, Howard H., assignor.)

Barnes, James F., trustee. (See Rebholz, Elmer F., assignor.)

Bauer, Louise E., Zanesville, assignor to The A. E. Hull Pottery Company, Incorporated, Crooksville, Ohio. Cookie jar. 135,889; June 29.

Berger, Arthur M., New York, N. Y. Uniform. 135,901; June 29.

Brilhart, Arnold, Great Neck, N. Y. Cap for a musical instrument mouthpiece. 135,886; June 29.

Brogan, Frank C., Larchmont, N. Y. Dress. 135,885; June 29.

Button Rim Corporation. (See Frank, Charles H., assignor.)

Chernow, Michael, New York, N. Y. Earring clip. 135,873; June 29.

Clerc, Leonard F., Chicago, Ill. Portable refrigerating cabinet. 135,896; June 29.

Crossley, Frank, Philadelphia, Pa. Holder for garbage cans. 135,897; June 29.

De Witt-Seitz Company. (See Pulford, Maxon H., assignor.)

Dawson, Howard H., East Cleveland, Ohio, assignor to Air Reduction Company, Incorporated, New York, N. Y. Bottle. 135,898; June 29.

Dictaphone Corporation. (See Norton, L. D., and Wilson, assignors.)

Everett, Charles E., assignor to The Massey-Harris Company, Racine, Wis. Corn harvester. 135,874; June 29.

Frank, Charles H., New Rochelle, assignor to Button Rim Corporation, New York County, N. Y. Button. 135,875; June 29.

Geist, Irving, New York, N. Y. Belt fastener or similar article. 135,876; June 29.

Ghinsberg, Sol, Cleveland Heights, assignor of one-half to S. Schwartz, Cleveland, Ohio. Eye shield. 135,877; June 29.

Gruber, Abe, New York, N. Y. Suit. 135,902; June 29.

Haase, Wilbert W., assignor to Wilbert W. Haase Co., Forest Park, Ill. Strap lewis for burial vault parts. 135,878; June 29.

Haase, Wilbert W., Co. (See Haase, Wilbert W., assignor.)

Heintz, Ralph M., Cleveland, assignor to Jack & Heintz Research Corporation, Bedford, Ohio. Engine starter. 135,899; June 29.

Hull, A. E., Pottery Company, The. (See Bauer, Louise E., assignor.)

Jack & Heintz Research Corporation. (See Heintz, Ralph M., assignor.)

Kahn, David, Woodcliff, N. J. Fountain pen and pencil clip or the like. 135,890; June 29.

Kuznetz, Samuel, New York, N. Y. Lady's suit. 135,903; June 29.

Mackintosh-Hemphill Company. (See McConnell, William M., assignor.)

Massey-Harris Company, The. (See Everett, Charles E., assignor.)

McConnell, William M., McKeesport, assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa. Tailstock for lathes. 135,904; June 29.

McConnell, William M., McKeesport, assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa. Headstock for lathes. 135,905; June 29.

Norton, Leland D., Bridgeport, Conn., and C. K. Wilson, Hollis, assignors to Dictaphone Corporation, New York, N. Y. Combined stand and induction device for telephones. 135,891; June 29.

Powers, William E., Dayton, Ohio. Ash tray. 135,900; June 29.

Pulford, Maxon H., assignor to De Witt-Seitz Company, Duluth, Minn. Flexible slat bedspring. 135,887; June 29.

Rebholz, Elmer F., Chicago, Ill., assignor to J. F. Barnes, trustee. Toy figure or similar article. 135,879; June 29.

Reichman, Florence, New York, N. Y. Hat. 135,906; June 29.

Rouner, John G., Denver, Colo. Portfolio. 135,892; June 29.

Schenker, Jack E., Chicago, Ill. Correspondence folder or similar article. 135,893; June 29.

Schneier, Samuel D., Highland Park, N. J. Bottle. 135,894; June 29.

Schrader, Walter A., Brentwood, Mo. Game table. 135,895; June 29.

Schwartz, Sidney. (See Ghinsberg, Sol, assignor.)

Schwer, Walter B., Rye, N. Y. Game board. 135,880; June 29.

Stensgaard, W. L., & Associates, Inc. (See Williams, Findley, assignor.)

Swedlin, Jacob, Brooklyn, N. Y. Stuffed toy or similar article. 135,881; June 29.

Swedlin, Jacob, Brooklyn, N. Y. Mask for stuffed toys or similar article. 135,882; June 29.

Williams, Findley, Northbrook, Ill., assignor to W. L. Stensgaard & Associates, Inc. Child's vehicle. 135,883; June 29.

Williams, Findley, Northbrook, Ill., assignor to W. L. Stensgaard & Associates, Inc. Coaster vehicle. 135,884; June 29.

Wilson, C. Kenneth. (See Norton, L. D., and Wilson.)

Zimmerman, Edgar H., Chicago, Ill. Shoe rack. 135,888; June 29.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acme Visible Records, Inc. (See Hopkins, Harry J., assignor.)
Actino Laboratories, Inc. (See Gilman, M. A., and Anderson, assignors.)
Adney, Adrian P., and P. D. Barton, assignors to American-Marsh Pumps, Inc., Battle Creek, Mich. Priming device for pumps. 2,322,910; June 29.
Air Gas Company, The. (See Humrichouse, Walter E., and D. B., assignors.)
Aktiebolaget Gerh Arehns Mekaniska Verkstad. (See Danielson, Paul, assignor.)
Alessandri, Alessandro, Milan, Italy; vested in the Alien Property Custodian. Ignition magneto. 2,322,994; June 29.
Alien Property Custodian. (See Alessandri, Alessandro.)
Alien Property Custodian. (See Anschütz, R., and Gröschel.)
Alien Property Custodian. (See Anschütz, R., and Schmidt.)
Alien Property Custodian. (See Auwärter, M., Jedele, and Ruthardt.)
Alien Property Custodian. (See Bargeboer, Adolf.)
Alien Property Custodian. (See Baur, Paul.)
Alien Property Custodian. (See Bertele, Ludwig.)
Alien Property Custodian. (See Borgward, Carl.)
Alien Property Custodian. (See Claudot, A., and Mark.)
Alien Property Custodian. (See Decker, Gustav.)
Alien Property Custodian. (See Dohle, Hinrich.)
Alien Property Custodian. (See Dorn, Walter.)
Alien Property Custodian. (See Ferrari, D., and Torresi.)
Alien Property Custodian. (See Flechsig, Werner.)
Alien Property Custodian. (See Formhals, Anton.)
Alien Property Custodian. (See Gerstenkorn, Wilhelm.)
Alien Property Custodian. (See Glamann, Wilhelm.)
Alien Property Custodian. (See Gruetzmacher, Johannes.)
Alien Property Custodian. (See Hack, Ernst.)
Alien Property Custodian. (See Hagen, Wolfgang.)
Alien Property Custodian. (See Honsberg, Werner.)
Alien Property Custodian. (See Junker, O., Breuer, and Knauff.)
Alien Property Custodian. (See Klaue, Herman.)
Alien Property Custodian. (See Kroeper, Hugo.)
Alien Property Custodian. (See Kupferschmid, Ernst.)
Alien Property Custodian. (See Labour, Jean F. P. E.)
Alien Property Custodian. (See Lehmann, W., and Schröter.)
Alien Property Custodian. (See Martins, Borge.)
Alien Property Custodian. (See May, Alajos.)
Alien Property Custodian. (See Meyer, Gustav.)
Alien Property Custodian. (See Neugebauer, F., Hartmann, and Wagensell.)
Alien Property Custodian. (See Orthner, L., Balle, Dittus, and Wagner.)
Alien Property Custodian. (See Paul, H. Erich.)
Alien Property Custodian. (See Schmitz, Hilger P.)
Alien Property Custodian. (See Rabl, Alfred.)
Alien Property Custodian. (See Roosenstein, Hans O.)
Alien Property Custodian. (See Rumpf, Martin H.)
Alien Property Custodian. (See Ruppe, Hugo.)
Alien Property Custodian. (See Salomon, Arnold.)
Alien Property Custodian. (See Schroder, A., and Falk.)
Alien Property Custodian. (See Schroeder, Carl.)
Alien Property Custodian. (See Schwaiger, Karl.)
Alien Property Custodian. (See Ubbelohde, Leo.)
Alien Property Custodian. (See von Poser, Gottlieb.)
Alien Property Custodian. (See Wegener, Gustav.)
Alien Property Custodian. (See Wolfram, A., and Jahn.)
Alien Property Custodian. (See Wunsch, W. H. G., and Rolland.)
Alien Property Custodian. (See Zapf, Georg.)
Allen, Edwin L., and H. B. Muster, Cleveland Heights, assignors to R. I. Schonitzer, Shaker Heights, Ohio. Extracting and protecting device for cartridges or shells. 2,322,810; June 29.
Allen, James E., Ames, Iowa. Mattress handle. 2,322,995; June 29.
Alleyne, Ernest F., Nashville, Tenn. Obstetrical instrument. 2,323,183; June 29.
Allied Latex Corporation. (See Maywald, Frederick J., Jr., assignor.)
Allinson, John J., J. W. Poole, and F. R. Grant, assignors to Lion Oil Refining Company, El Dorado, Ark. Method for treating gasoline. 2,323,079; June 29.
Aluminum Company of America. (See Growdon, J. P., and Bleifuss, assignors.)
American Cabinet Hardware Corporation, Rockford, Ill. (See Borchers, Earl, assignor.)
American Can Company. (See Begg, Thomas, assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Cyanamid Company. (See West, Herbert J., assignor.)

American District Steam Company. (See Hall, R., and Rhodes, assignors.)
American Laundry Machinery Company, The. (See Heidenfelder, Fred A., assignor.)
American-Marsh Pumps, Inc. (See Adney, A. P., and Barton, assignors.)
American Optical Company. (See Peck, W. F., and Gradisar, assignors.)
American Pulley Company, The. (See Renton, Henry N., assignor.)
American Rayon Company. (See Furness, William H., assignor.)
American Smelting and Refining Company. (See Betterton, J. O., Phillips, and Linford, assignors.)
Amery, George, Oldbury, England. Fuel injection in internal combustion engines. 2,323,184; June 29.
Anderson, Carl. See Gilman, M. A., and Anderson.)
Anderson, Charles E., Nashville, Tenn. Lever type bottle opener. 2,323,080; June 29.
Anderson, Philip P., Jr., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,323,186; June 29.
Andrews, Troy M., and H. F. Reeves, Jr., Weeks, assignors to Bay Chemical Company, Inc., New Orleans, La. Rubber hydrohalide. 2,323,185; June 29.
Anschütz, Robert, Zella-Mehlis, and R. Gröschel, Suhl, Germany; vested in the Alien Property Custodian. Calculating machine storage device and indicator therefor. 2,322,996; June 29.
Anschütz, Robert, and F. Schmidt, Zella-Mehlis, Germany; vested in the Alien Property Custodian. Controlling means for combined typewriting and calculating machines. 2,322,997; June 29.
Anthony, John K. (See Palm, J. V. O., Anthony, and Wilkey.)
Arens, Hans, Dessau, K. Kümetat, R. Walter, and G. Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Photographic emulsion. 2,323,187; June 29.
Armstrong Manufacturing Co. (See Waldo, John E., assignor.)
Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Road grader. 2,322,998; June 29.
Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Road grader. 2,322,999; June 29.
Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Road grader. 2,323,108; June 29.
Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Road grader. 2,323,109; June 29.
Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Road grader. 2,323,110; June 29.
Ashley, Carlyle M., assignor to Carrier Corporation, Syracuse, N. Y. Cold diffuser. 2,323,176; June 29.
Associated Electric Laboratories, Inc. (See Perkins, William H., assignor.)
Atkinson, Wallace E., Petersburg, Va. Power filer. 2,323,188; June 29.
Atlas Powder Company. (See Brown, Kenneth R., assignor.)
Atwood Vacuum Machine Company. (See Harmon, J. F., and Johnson, assignors.)
Aurex Corporation. (See Nicholides, Emmanuel C., assignor.)
Austin, Paul R., and C. E. Frank, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Process and product. 2,323,111; June 29.
Auwärter, Max, A. Jedele, and K. Ruthardt, Hanau-on-the-Main, Germany; vested in the Alien Property Custodian. Guide for molten silicates. 2,323,000; June 29.
Badgett, Stephen H. (See Koch, F., and Badgett.)
Baily Meter Company. (See Junkins, Raymond D., assignor.)
Baird, Clyde W., Columbus, Ohio, assignor to The Traylor Vibrator Company. Vibration amplitude control system. 2,323,081; June 29.
Bakelite Corporation. (See Molinari, Vittorio, assignor.)
Baker, Frederick C., Portland, Oreg. Fluorescent light fixture and shade. 2,323,002; June 29.
Baker, Herbert N., Syracuse, assignor to Syracuse Chilled Plow Company, Inc., New York, N. Y. Plow bottom. 2,323,177; June 29.
Baldwin Locomotive Works, The. (See Essl, Max, assignor.)
Ball, Roland W., Garden City, Mich. Bolt. 2,322,811; June 29.
Ballard, Edwin L., Lansing, Mich. Floor surfacing machine. 2,323,082; June 29.

Balle, Gerhard. (See Orthner, L., Balle, Dittus, and Wagner.)
Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Cam grinding machine. 2,323,189; June 29.
Bargeboer, Adolf, Hague, Netherlands; vested in the Alien Property Custodian. Liquid spraying device for liquid fuel burners. 2,323,001; June 29.
Barnes, Alfred A., Syracuse, and J. F. Price, assignors to Oswego Falls Corporation, Fulton, N. Y. Bottle cap applying machine. 2,322,812; June 29.
Barry, Richard J., New York, N. Y., assignor to W. E. Irving, Glenbrook, Conn. Grating. 2,323,271; June 29.
Barry, Richard J., New York, N. Y., assignor to W. E. Irving, Glenbrook, Conn. Panel connection. 2,323,272; June 29.
Barry, Richard J., New York, N. Y., assignor to W. E. Irving, Glenbrook, Conn. Panel connection. 2,323,273; June 29.
Barton, Benjamin D. (See Adney, A. P., and Barton.)
Bartsch, Herbert E. (See Camp, P. B., and Bartsch.)
Baur, Paul, Heidenheim-on-the-Brenz, Germany; vested in the Alien Property Custodian. Apparatus for cutting paper sheets. 2,323,003; June 29.
Baxters (Bolts, Screws & Rivets) Limited. (See Dent, William C., assignor.)
Bay Chemical Company. (See Andrews, T. M., and Reeves, assignors.)
Baylor, Charles E., Sigourney, Iowa. Envelope and stamp moistener. 2,323,004; June 29.
Beam, Vilynn O., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Valve mechanism. 2,322,911; June 29.
Beck, Koller & Company. (See Siegel, Ernst F.)
Beck, William J., Yonkers, N. Y. Scale. 2,322,813; June 29.
Begg, Thomas, Nutley, N. J., assignor to American Can Company, New York, N. Y. Can treating machine. 2,323,190; June 29.
Bell Telephone Laboratories, Incorporated. (See Biggs, Burnard S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Blair, Royer R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Dickieson, A., and Edwards, assignors.)
Bell Telephone Laboratories, Incorporated. (See Hibbard, Frank H., assignor.)
Bell Telephone Laboratories, Incorporated. (See Howard, John B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kalb, Robert M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Krebs, Luther E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lang, Wilmarth Y., assignor.)
Bell Telephone Laboratories, Incorporated. (See Nordenswan, Robert, assignor.)
Bell Telephone Laboratories, Incorporated. (See Oliver, Bernard M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Rienstra, Albert R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Roetken, Alfred A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Walder, Victor T., assignor.)
Bell, William E. H., Glenside, assignor to H. W. Butterworth & Sons Company, Philadelphia, Pa. Package dyeing machine. 2,322,743; June 29.
Bemis, Kennet E., Oakland, Calif. Feed and discharge arrangement for conveyers. 2,323,083; June 29.
Bendix Aviation Corporation. (See Buxton, James E., assignor.)
Bendix Aviation Corporation. (See Christian, Frank T., assignor.)
Bendix Aviation Corporation. (See Kearney, Daniel P., assignor.)
Bendix Aviation Corporation. (See Reichel, Wladimir A., assignor.)
Bendix-Westinghouse Automotive Air Brake Company. (See Eaton, Wilfred A., assignor.)
Benjamin, Sidney H., Milwaukee, Wis. Safety razor blade. 2,322,744; June 29.
Bennett, Charles E., Ridgewood, assignor to The Okonite Company, Passaic, N. J. Apparatus for heat curing materials such as rubber compounds, plastics, etc. 2,323,191; June 29.
Berg, Emil G., Erie, Pa. Electrical shaving device. 2,323,084; June 29.
Berger Brothers Company, The. (See Loeffel, Lester H., assignor.)
Berger, Jakob. (See Gottfried, Louis, assignor.)
Berman, David, Brooklyn, N. Y. Sanitary measuring device. 2,322,912; June 29.
Bertele, Ludwig, Dresden, Germany; vested in the Alien Property Custodian. Photographic camera. 2,323,005; June 29.
Best, Frank C., and J. A. Lawler, Detroit, Mich. Pump. 2,322,913; June 29.
Betterton, Jesse O., Metuchen, A. J. Phillips, Plainfield, and H. B. Linford, Woodbridge, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Electrolytic parting. 2,322,786; June 29.
Beveridge, James B., Westmount, Quebec, Canada, and R. D. Kehoe, Hadlyme, Conn. Apparatus for the production of pulp from cellulosic material. 2,323,194; June 29.
Biggs, Burnard S., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manufacture of mononitriles of dicarboxylic acids. 2,322,914; June 29.
Bilhuber, E., Inc. (See Boie, H., and Wulzinger, assignors.)
Binckley, George S., Los Angeles, Calif., assignor, by decree of court and mesne assignments, to S. W. Binckley, as trustee. Viscosimeter. 2,322,814; June 29.
Binckley, Sydney W., trustee. (See Binkley, George S., assignor.)
Birnie, Annie, Sacramento, Calif. Curtain rod. 2,323,112; June 29.
Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Bottle crate. 2,322,917; June 29.
Blair, Royer R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regulator circuit. 2,323,192; June 29.
Bleifuss, Donald J. (See Growdon, J. P., and Bleifuss.)
Blosser, Herman G., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,323,113; June 29.
Bock, Fred H., Astoria, Long Island, N. Y. Combined lock and alarm for windows and the like. 2,322,815; June 29.
Boeker, Harold T., assignor to General Electric X-Ray Corporation, Chicago, Ill. Galvanometer. 2,322,816; June 29.
Bohn Aluminum & Brass Corporation. (See Enderich, W. S., and Eggenschwiler, assignors.)
Boie, Heinrich, and K. Wulzinger, Ludwigshafen-on-the-Rhine, Germany, assignors to E. Bilhuber Inc., Orange, N. J. Double compounds of calcium salicylate with pyrazolones. 2,323,193; June 29.
Bond Manufacturing Corporation, Inc. (See Rogers, Louis F., assignor.)
Bonnell, George M. (See Burns, M. E., and Bonnell.)
Borchers, Earl, assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill. Catch. 2,322,817; June 29.
Borgward, Carl, Bremen, Germany; vested in the Alien Property Custodian. Rigid rear axle for motor vehicles. 2,323,007; June 29.
Borg-Warner Corporation. (See Robbins, Henry H., assignor.)
Bouchillon, Farris O., Chattanooga, Tenn. Scaffolding. 2,323,195; June 29.
Boyce, William A., Bridgeport, Conn., assignor to A. F. Burkardt, New York, N. Y. Decorticating machine. 2,323,280; June 29.
Bradford, Zerbe C., C. J. Werner, and E. B. Sleeter, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Pole piece assembly. 2,323,114; June 29.
Braum, William L. (See Rickus, G. M., Hoffman, and Braum.)
Braun, G. A., Inc. (See Hewitt, William H., assignor.)
Breen, Robert. (See Hockey, H., and Breen.)
Brennan, Joseph B., Euclid, Ohio. Method and apparatus for melting metals. 2,322,787; June 29.
Breuer, Erich. (See Junker, O., Knauff, and Breuer.)
Brockett, Glenn F., assignor to Fisher Governor Company, Marshalltown, Iowa. Float. 2,322,818; June 29.
Brockhurst, James B., Red Bank, N. J. Sheet piling. 2,322,819; June 29.
Brooke, Frank W., assignor to Swindell-Dressler Corporation, Pittsburgh, Pa. Apparatus for tightening electrode joints. 2,322,918; June 29.
Brooks, Maxwell J., Beverly Hills, Calif., assignor to General Chemical Company, New York, N. Y. Manufacture of oxalic acid. 2,322,915; June 29.
Brown, Kenneth R., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Monoesters of inner ethers of hexahydric alcohols. 2,322,820; June 29.
Brown, Kenneth R., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Partial esters of ethers of polyhydroxylic compounds. 2,322,821; June 29.
Brown, Kenneth R., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Oil and water emulsion containing electrolytes. 2,322,822; June 29.
Brown, Robert S., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,322,823; June 29.
Bryant, Ozro N., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Hydraulic resistance apparatus. 2,323,115; June 29.
Bryce, Allan E., Providence, R. I. Fastener. 2,323,197; June 29.
Buchi, Alfred, Winterthur, Switzerland. Turbine driven blower. 2,322,824; June 29.
Bulbulian, Arthur H., Rochester, Minn. Aviation mask. 2,323,198; June 29.
Bulbulian, Arthur H., Rochester, Minn. Mask for aviation or clinical purposes. 2,323,199; June 29.
Bulldog Electric Products Company. (See Frank, William H., assignor.)
Burkardt, Anton F. (See Boyce, William A., assignor.)

Burke, William O., assignor to National Lock Co., Rockford, Ill. Refrigerator latch operating mechanism. 2,322,916; June 29.

Burnett, Carlos E., Maplewood, N. J., assignor to Radio Corporation of America. Luminescent material. 2,323,116; June 29.

Burns, Lloyd E. (See Dickson, J. B., and Burns.)

Burns, Murray E., and C. M. Bonnell, Boise, Idaho. Crawler tractor. 2,322,919; June 29.

Butterworth, H. W., & Sons Company. (See Bell, William E. H., assignor.)

Buxton, James E., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,323,196; June 29.

Caldwell, John R. (See Richardson, O., Gussow, and Caldwell.)

Camp, Percy B., Maywood, and H. E. Bartsch, Chicago, Ill., assignors to Universal Railway Devices Company. Railway brake. 2,323,200; June 29.

Campbell, Henry H., Cleveland, Ohio. Key holder. 2,322,920; June 29.

Caplan, Solomon, New York, N. Y., assignor to The Harvel Corporation. Floor covering and making the same. 2,323,118; June 29.

Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Automatic lock slider for slide fasteners. 2,322,826; June 29.

Carlson, Theodore E., Cumberland, Md., assignor to Celanese Corporation of America. Yarn guide. 2,322,825; June 29.

Carlson, Vernon E., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,322,921; June 29.

Carmo, John J., Billerica, Mass. Poultry feeder. 2,323,117; June 29.

Carnegie-Illinois Steel Corporation. (See Purnell, Charles G., assignor.)

Carrier Corporation. (See Ashley, Carlyle M., assignor.)

Carrington, Blake W., assignor to The General Industries Company, Elyria, Ohio. Coupling and controlling device. 2,323,008; June 29.

Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Tuned circuit and associated devices therefor. 2,323,201; June 29.

Carver, Emmett K., assignor to Eastman Kodak Company, Rochester, N. Y. Coating hopper. 2,322,827; June 29.

Cass, Oliver W. (See Levine, A. A., and Cass.)

Cederlund, Albert, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Detector finger and tip. 2,322,828; June 29.

Celanese Corporation of America. (See Stearn, William T., assignor.)

Celanese Corporation of America. (See Carlson, Theodore E., assignor.)

Certain-Teed Products Corporation. (See Gardner, Harry F., assignor.)

Channing, Robert, Company. (See Levaggi, Albert F., assignor.)

Chase, Corson W., assignor to Chicago Pump Company, Chicago, Ill. Comminutor. 2,322,922; June 29.

Chemical Foundation, Incorporated, The. (See Reeves, Richard E., assignor.)

Chicago Metal Hose Corporation. (See Fentress, David W., assignor.)

Chicago Pump Company. (See Chase, Corson W., assignor.)

Chisholm-Ryder Company. (See de Back, William, assignor.)

Christian, Frank T., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine control. 2,323,202; June 29.

Christianson, Oscar, trustee. (See Conradson, Conrad M., assignor.)

Chrysler Corporation. (See Eady Walter R., assignor.)

Chrysler Corporation. (See Fishburn, Otto E., assignor.)

Chrysler Corporation. (See Neeson, C. R., and Wyld, assignors.)

Chrysler Corporation. (See Saunders, S. G., and Morrison, assignors.)

Chrysler Corporation. (See Slack, Frederic W., assignor.)

Chrysler Corporation. (See Steensen, Bernard, assignor.)

Chrysler Corporation. (See Williams, Burdel S., assignor.)

Ciba Pharmaceutical Products, Incorporated. (See Miescher, K., and Wettstein, assignors.)

Claudot, Arsène, and A. Mark, Jette Saint Pierre, Belgium; vested in Alien Property Custodian. Photographic apparatus in detached parts. 2,323,009; June 29.

Clayton, William J., Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y. Making sponge rubber. 2,323,119; June 29.

Clements, Arthur D., Los Angeles, Calif. Dredge. 2,322,829; June 29.

Clements, Carl W., Aurora, Ill. Counterbalance. 2,322,788; June 29.

Cleveland Graphite Bronze Company, The. (See Palm, J. V. O., Anthony, and Wilkey, assignor.)

Cole, Allen T., and J. B. Duke, Mulberry, and K. F. Schilling, Lakeland, Fla., assignors, by mesne assignments, to Minerals Separation North American Corporation, New York, N. Y. Concentration of sylvinite ores. 2,322,789; June 29.

Cole, Robert M. (See Liedholm, G. E., Cole, and Schultz.)

Commercial Solvents Corporation. (See Tryon, Philip F., assignor.)

Conner, Harvey G., Paisley, Oreg. Anvil for riveting guard ledger plates. 2,322,830; June 29.

Continental Can Company. (See Goldsworthy, Norman H., assignor.)

Conradson, Conrad M., Detroit, Mich., deceased; F. R. Walter, administrator, assignor, by mesne assignments, to O. Christianson, Madison, Wis., trustee. Machine tool attachment. 2,323,010; June 29.

Consolidated Edison Company. (See Rudd, Wallace C., assignor.)

Conway, Mark A., assignor to Roach & Musser Company, Muscatine, Iowa. Window unit for trailers and the like. 2,323,121; June 29.

Cooper, Hugh S., assignor of one-half to F. H. Wilson, Cleveland, Ohio. Alloy for grinding balls. 2,323,120; June 29.

Cosman, Claus A., New Bedford, Mass., assignor to Wonder Weave, Incorporated, Bridgeport, Conn. Shuttle. 2,323,203; June 29.

Craine, Zur W., Norwich, N. Y. Silo door and silo. 2,322,923; June 29.

Crawford, Robert B. P., Washington, D. C. Air conditioning. 2,323,122; June 29.

Creper, Louis, Brooklyn, N. Y. Hat support for hat boxes. 2,323,011; June 29.

Cristadoro, Charles C., Venice, Calif. Low draft transport vessel. 2,322,790; June 29.

Crompton & Knowles Loom Works. (See Cederlund, Albert, assignor.)

Crosman, Loring P., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Listing calculator. 2,323,205; June 29.

Cross, Grosvenor M., New York, N. Y. Vehicle suspension mechanism. 2,323,204; June 29.

Daiger, George P., Canton, assignor to The Hoover Company, North Canton, Ohio. Making motors. 2,322,924; June 29.

Danielsson, Paul, assignor to Aktiebolaget Gerh Arehns Mekaniska Verkstad, Stockholm, Sweden. Method of and machine for eviscerating fish. 2,322,831; June 29.

Davidson, John T., Oakwood, assignor to The National Cash Register Company, Dayton, Ohio. Carriage operating mechanism for accounting machines. 2,323,012; June 29.

Davis, Bowen M., Laird Hill, Tex. Retrievable combination bridge plug and packer. 2,323,085; June 29.

Davis, Willard R., Houston, Tex., assignor to T. B. Wood's Sons Company, Chambersburg, Pa. Power transmission drive element. 2,322,832; June 29.

Deane, Gerard C., New York, N. Y. Combination container and cap remover. 2,322,843; June 29.

De Back, William, assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y. Juice extractor. 2,322,791; June 29.

Decker, Gustav, Berlin, Germany; vested in the Alien Property Custodian. Controlling the operation of vapor generators. 2,323,013; June 29.

Deere & Company. See Silver, Walter H., assignor.)

De Flores, Luis, Pomfret, Conn. Catalytic cracking process. 2,323,206; June 29.

De Havilland Aircraft Company Limited. (See Thomas, Frederick M., assignor.)

De Laney, Wallace, assignor to The Faultless Rubber Company, Ashland, Ohio. Molding means. 2,323,014; June 29.

Denman, Earl W., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Ventilating unit. 2,323,178; June 29.

Dent, William C., assignor to Baxters (Bolts, Screws & Rivets) Limited, Birmingham, England. Machine for setting or driving rivets and the like. 2,323,015; June 29.

Dent, William C., assignor to Baxters (Bolts, Screws & Rivets) Limited, Birmingham, England. Machine for setting or driving rivets and the like. 2,323,016; June 29.

Dent, William C., assignor to Baxters (Bolts, Screws & Rivets) Limited, Birmingham, England. Machine for setting or driving rivets and the like. 2,323,017; June 29.

De Pew, Chester C., assgnor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Aeronautical engine. 2,323,281; June 29.

De Roo, William C. (See Heasley, L. E., and De Roo.)

Detroit Harvester Company. (See Kost, Harold W., assignor.)

De Vellier, William A., New York, N. Y. Screw driver. 2,323,018; June 29.

Deubel, Justin A., assignor to Perfex Corporation, Milwaukee, Wis. Fuel burner system. 2,322,792; June 29.

Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. Azo compounds and material colored therewith. 2,322,925; June 29.

Dickieson, Alton C., Mountain Lakes, and P. G. Edwards, Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-way signaling system. 2,322,833; June 29.

Dickson, John B., Northampton, and L. E. Burns, Springfield, assignors to A. G. Spalding & Bros. Inc., Chicopee, Mass. Laminated article. 2,322,962; June 29.

Dittus, Georg. (See Orthner, L., Balle, Dittus, and Wagner.)

Doak, John H., Los Angeles, Calif. Incendiary bomb handling device. 2,323,086; June 29.

Dohle, Hinrich, Berlin-Alt-Glienicke, Germany; vested in the Alien Property Custodian. Impulse sender. 2,323,019; June 29.

Donato, Joseph J., and F. L. Hardin, Oakland, Calif. Book lock binder. 2,323,123; June 29.

Dorland, Gordon L., Ashton, Ill. Asparagus cutter. 2,322,926; June 29.

Dorn, Walter, Vaihingen-Rohr, Germany; vested in the Alien Property Custodian. Electrostatic condenser. 2,323,020; June 29.

Dornhofer, Louis J., assignor to Rotary Seal Company, Chicago, Ill. Seal. 2,322,834; June 29.

Dornhofer, Louis J., assignor to Rotary Seal Company, Chicago, Ill. Seal. 2,322,835; June 29.

Douglas, H. A., Mfg. Co. (See Johnson, Elmer E., assignor.)

Drewsen, Pierre, and J. R. Little, assignors to The Hinde & Dauch Paper Company, Sandusky, Ohio. Color printing. 2,322,927; June 29.

Drewsen, Pierre, and J. R. Little, assignors to The Hinde & Dauch Paper Company, Sandusky, Ohio. Color printing method. 2,322,928; June 29.

Drummond, Robert S., Detroit, Mich. Gear finishing tool. 2,322,793; June 29.

Duchamp, Clarence J. (See Labbe, J. C., and Duchamp.)

Duke, James B. (See Cole, A. T., Duke, and Schilling.)

Du Pont, E. I., de Nemours & Company. (See Austin, P. R., and Frank, assignors.)

Du Pont, E. I., de Nemours & Company. (See Ellis, Linus M., assignor.)

Du Pont, E. I., de Nemours & Company. (See Gocher, W. S., and Jennings, assignors.)

Du Pont, E. I., de Nemours & Company. (See Levine, A. A., and Cass, assignors.)

Du Pont, E. I., de Nemours & Company. (See Lontz, John F., assignor.)

Du Pont, E. I., de Nemours & Company. (See Peters, Franklin T., assignor.)

Du Pont, E. I., de Nemours & Company. (See Rossander, Swanie S., assignor.)

Du Pont, E. I., de Nemours & Company. (See Schwartz, G. L., and Walker, assignors.)

Du Pont, E. I., de Nemours & Company. (See Sparks, C. E., and Trepagnier, assignors.)

Eady, Walter R., Royal Oak, assignor to Chrysler Corporation, Highland, Park, Mich. Trim material. 2,322,836; June 29.

Eastman Kodak Company. (See Carver, Emmett K., assignor.)

Eastman Kodak Company. (See Dickey, Joseph B., assignor.)

Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Brake mechanism. 2,323,207; June 29.

Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Brake mechanism. 2,323,208; June 29.

Edison, Thomas A., Incorporated. (See Wilson, Herbert O., assignor.)

Edmundson, William C., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Electrical condenser. 2,323,124; June 29.

Edwards, Paul G. (See Dickieson, A. C., and Edwards.)

Eggenschwiler, Charles E. (See Enderich, W. S., and Eggenschwiler.)

Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,322,794; June 29.

Egry Register Company, The. (See Washburne, George F., assignor.)

Einson-Freeman Co. (See Horr, John V., assignor.)

Electrolux Corporation. (See Lofgren, Gustaf E., assignor.)

Ellert, Joseph. (See Litwin M., Milner, and Ellert.)

Ellis, Linus M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Printing composition. 2,322,837; June 29.

Emulsol Corporation, The. (See Katzman, M., and Epstein, assignors.)

Enderich, Winfield S., and C. E. Eggenschwiler, assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich. Apparatus for forming bearings. 2,322,795; June 29.

Engelhart, Robert A. G. (See Senesac, Adelor T., assignor.)

Epstein, Albert K. (See Katzman, M., and Epstein.)

Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc. Relief valve. 2,323,021; June 29.

Essl, Max, Drexel Hill, Pa., assignor, by mesne assignments, to The Baldwin Locomotive Works. Internal combustion engine construction. 2,323,209; June 29.

Esterow, Leo, and A. Klein, New York, N. Y. Container. 2,323,125; June 29.

Etten, Nicholas L., Waterloo, Iowa. Safety release. 2,323,210; June 29.

Evans, George H., assignor of one-half to R. K. Stevens, Washington, D. C. Display sign. 2,322,838; June 29.

Everett, Charles E., assignor to The Massey-Harris Company, Racine, Wis. Self-propelled corn harvester. 2,323,087; June 29.

Exact Weight Scale Company, The. (See Flanagan, T. B., and Pounds, assignor.)

Eysenbach, Hans. (See Logemann, W., Inhoffen, and Eysenbach.)

Fairchild Engine and Airplane Corporation. (See De Pew, Chester C., assignor.)

Falcon, Jeronimo, Detroit, Mich. Automobile top construction. 2,322,839; June 29.

Falk, Otto. (See Schroder, A., and Falk.)

Faltico, Frank J., Minneapolis, Minn. Method and means for automatic gain control. 2,323,211; June 29.

Faultless Rubber Company, The. (See De Laney, Wallace, assignor.)

Fenander, Edmund A., Yonkers, assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,323,212; June 29.

Fentress, David W., Evanston, assignor to Chicago Metal Hose Corporation, Maywood, Ill. Welding apparatus. 2,322,796; June 29.

Ferrari, Demetrio, and M. Torresi, Rome Italy; vested in the Alien Property Custodian. Saccharifying cellulose. 2,323,022; June 29.

Fischer, Joseph, New York, N. Y. Automobile accessory. 2,322,798; June 29.

Fishel, William J., Winston-Salem, N. C. Storage rack. 2,322,797; June 29.

Fisher Governor Company. (See Brockett, Glenn F., assignor.)

Fishburn, Otto E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Clutching mechanism. 2,322,840; June 29.

Flanagan, Thomas B., and R. T. Pounds, assignors to The Exact Weight Scale Company, Columbus, Ohio. Automatic weighing mechanism. 3,323,023; June 29.

Flechsig, Werner, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Television transmission tube. 2,323,024; June 29.

Foner, Newton F., Pittsburgh, Pa. Mechanical arm. 2,323,088; June 29.

Food Machinery Corporation. (See Kerr, Charles E., assignor.)

Fornhals, Anton, Mainz, Germany; vested in the Alien Property Custodian. Production of artificial fibers from fiber forming liquids. 2,323,025; June 29.

Foster, James M., Memphis, Tenn. Vehicle frame. 2,322,841; June 29.

Frank, Charles E. (See Austin, P. R., and Frank.)

Frank, Len. (See Weiss, G., and Frank.)

Frank, William H., assignor to Bulldog Electric Products Company, Detroit, Mich. Bus duct system. 2,322,799; June 29.

French, Gordon C., Yonkers, N. Y. Emergency plug for water pipes. 2,322,842; June 29.

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Conversion of hydrocarbons. 2,322,800; June 29.

Fulke, Frank L., assignor to Frank Prox Company, Inc., Terre Haute, Ind. Mining chain bit holder and bit. 2,322,929; June 29.

Furness, William H., Haddonfield, assignor to American Rayon Company, Inc., Riverton, N. J. Methods of removing copper and ammonia from cuprammonium yarn. 2,322,778; June 29.

Furness, William H., Haddonfield, assignor to American Rayon Company, Inc., Riverton, N. J. Manufacture of cuprammonium rayon. 2,322,801; June 29.

Galion Iron Works & Manufacturing Company, The. (See Arndt, Franklin E., assignor.)

Galvin Manufacturing Company. (See Holthouse, Harry B., assignor.)

Gardner, Harry F., Snyder, assignor to Certain-Teed Products Corporation, New York, N. Y. Filler composition. 2,322,930; June 29.

Gardner, Roland M., Swampscott, Mass., assignor to Sylvania Electric Products Inc. Glass tube baking apparatus. 2,323,214; June 29.

Garrison, Edgar W., Jr., Birmingham, Ala., assignor to Southern States Equipment Corporation. Electric fuse. 2,323,213; June 29.

Gaynor, James W. (See Loane, C. M., and Gaynor.)

General Aniline & Film Corporation. (See Arens, H., Kumetat, Walter, Wilmanns, assignors.)

General Aniline & Film Corporation. (See Schneider, W., Kuhbier, and Senger, assignors.)

General Aniline & Film Corporation. (See Zervas, Paul, assignor.)

General Chemical Company. (See Brooks, Maxwell J., assignor.)

General Electric X-Ray Corporation. (See Boeker, Harold T., assignor.)

General Industries Company, The. (See Carrington, Blake W., assignor.)

General Motors Corporation. (See Bradford, Z. C., Werner, and Sleeter, assignors.)

General Motors Corporation. (See Edmundson, William C., assignor.)

General Motors Corporation. (See Manney, David H., assignor.)

General Motors Corporation. (See Talmage, Charles R., assignor.)

Geneva Processes, Inc. (See Mclean, William A., assignor.)

Gersten Brothers. (See Triana, Rafael.)
Gerstenkorn, Wilhelm, Essen, Germany; vested in the Alien Property Custodian. Drilling implement. 2,323,027; June 29.
Gersten, Lee, et al. (See Triana, Rafael, assignor.)
Gersten, Louis, et al. (See Triana, Rafael, assignor.)
Gersten, Mortimer A., et al. (See Triana, Rafael, assignor.)
Geyer, Ernest H., assignor of one-half to H. A. Taubensee, Chicago, Ill. Roadway formation unit. 2,323,026; June 29.
Gibson Electric Refrigerator Corporation. (See Norberg, Oscar E., assignor.)
Gilman, Morris A., Chicago, and C. Anderson, Oak Park, Ill., assignors to Acting Laboratories, Inc. Sound recorder and reproducer. 2,323,215; June 29.
Gladden, McBean & Company. (See Goodrich, Hobert R., assignor.)
Glämann, Wilhelm, Stuttgart, Germany; vested in the Alien Property Custodian. Internal combustion engine. 2,323,028; June 29.
Glaser, Charles J., Jr. (See Limbert, R. J., and Glaser.)
Gocher, William S., Fairfield, and A. J. Jennings, Bridgeport, Conn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Rubber product. 2,322,779; June 29.
Goddard, De Witt R., Riverhead, N. Y., assignor to Radio Corporation of America. Multithrow relay. 2,323,126; June 29.
Goepfrich, George A. (See Pontius, George W., III, and Goepfrich.)
Goldschmidt, Max, assignor to Metalastik Limited, Leicester, England. Making resilient couplings. 2,323,216; June 29.
Goldschmidt, Max, assignor to Metalastik Limited, Leicester, England. Rubber and metal unit for resilient mountings, couplings, and the like. 2,322,844; June 29.
Goldsworthy, Norman H., Syracuse, assignor to Continental Can Company, New York, N. Y. Making black iron sheet metal containers. 2,322,845; June 29.
Goodrich, Hobert R., Glendale, assignor to Gladding, McBean & Company, San Francisco, Calif. Acidproof cement. 2,323,029; June 29.
Gorton, Walter T., U. S. Army, Springfield, Mass. Gun. 2,322,780; June 29.
Gottfried, Louis, Bronx, assignor of one-half to J. Berger, New York, N. Y. Foldable baby carriage. 2,322,931; June 29.
Gradisar, Albin A. (See Peck, W. F., and Gradisar.)
Graf, Joseph A., Findlay, Ohio. Dispensing tool. 2,323,217; June 29.
Grant, Francis R. (See Allinson, J. J., Pool, and Grant.)
Greenleaf, Nathaniel B., Toronto, Ontario, Canada. Mop construction. 2,323,031; June 29.
Gregg, Albert A., Kaycee, Wyo. Combination folding bed and tent support. 2,323,127; June 29.
Gröschel, Richard. (See Anschütz, R., and Gröschel.)
Growdon, James P., and D. J. Bleifuss, Mount Lebanon, assignors to Aluminum Company of America, Pittsburgh, Pa. Hydraulic gate structure and the like. 2,322,846; June 29.
Gruetzmacher, Johannes, Berlin, Germany; vested in the Alien Property Custodian. Electrode for piezoelectric crystal oscillators. 2,323,030; June 29.
Gussow, William A. (See Richardson, O., Caldwell, and Gussow.)
Guthrie, James E., assignor to Dr. Hess & Clark, Inc., Ashland, Ohio. Taeniacide. 2,323,218; June 29.
Hack, Ernst, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Sound recording system. 2,323,032; June 29.
Hagen, Wolfgang, Berlin, Germany; vested in the Alien Property Custodian. Carrier frequency telephone system. 2,323,033; June 29.
Hahn, Paul T., assignor to The Hoover Company, North Canton, Ohio. Electric motor cooling. 2,322,932; June 29.
Halco Chemical Corp. (See Hanks, Elden W., assignor.)
Hall, Robert, Lockport, and H. R. Rhodes, assignors to American District Steam Company, North Tonawanda, N. Y. Packed type expansion joint. 2,323,179; June 29.
Halliburton Oil Well Cementing Company. (See Lenahan, Thomas P., assignor.)
Hallinan, William W., Mendota, Ill. Combined air conditioning and heating unit. 2,323,034; June 29.
Hamilton Watch Company. (See Luckey, George P., assignor.)
Hanks, Elden W., Augusta, Maine, assignor to Halco Chemical Corp., New York, N. Y. Fire-extinguishing composition of matter. 2,322,781; June 29.
Hansen Mfg. Company. (See Hansen, W. L., and Hurst, assignors.)
Hansen, William L., and I. N. Hurst, assignors to Hansen Mfg. Company, Inc., Princeton, Ind. Synchronous motor. 2,323,035; June 29.
Hanson, Ezekiel, San Diego, Calif. Cream separating milk container. 2,323,036; June 29.
Hardin, Frederick L. (See Donato, J. J., and Hardin.)
Hare, Donald G. C., Houston, Tex., assignor to The Texas Company, New York, N. Y. Method and apparatus for determining liquid level. 2,323,128; June 29.
Harman, Marion W., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanizing rubber and product produced thereby. 2,323,037; June 29.
Harmon, Joseph F., and G. H. Johnson, assignors to The Atwood Vacuum Machine Company, Rockford, Ill. Automobile door hinge. 2,322,933; June 29.
Hart & Cooley Manufacturing Company. (See Heasley, L. E., and De Roo, assignors.)
Hartford-Empire Company. (See Willetts, Paul G., assignor.)
Hartley, Emmett C., Meadville, Pa., assignor to Talon, Inc. Lock slider. 2,322,847; June 29.
Hartmann, Edmund. (See Neugebauer, F., Hartmann, and Wgensell.)
Harvel Corporation, The. (See Caplan, Solomon, assignor.)
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvel Research Corporation. (See Harvey, Mortimer T., assignor.)
Harvey, Mortimer T., East Orange, N. J., assignor to Harvel Research Corporation. Condensation product of formaldehyde and a terpene alcohol and making it. 2,323,129; June 29.
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Polymerized chloroprene-cashew nut shell liquid composition. 2,323,130; June 29.
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Aldehyde condensation products of residual ethers of cashew nut shell liquid. 2,323,131; July 29.
Hat Corporation of America. (See Rickus, G. M., Braun, and Hoffman, assignors.)
Hayes, Lynn O., St. Louis, Mo., assignor to F. L. Smythe Machine Co., Inc., New York, N. Y. Apparatus for obviating distortion in gummed margins of sheetlike articles. 2,323,219; July 29.
Hazell, Eardley, North Kingstown, R. I., assignor to United States Rubber Company, New York, N. Y. Manufacturing rubber thread. 2,323,132; June 29.
Heard, Llewellyn. (See Marschner, R. F., Heard, and Oblad.)
Heasley, Loyd E., and W. C. De Roo, assignors to Hart & Cooley Manufacturing Company, Holland, Mich. Damper regulator. 2,323,038; June 29.
Heatherly, Lynn G., Whiteville, N. C. Telegraphic transmitter. 2,323,133; June 29.
Heidenfelder, Fred A., Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio. Semipower press and tandem control. 2,323,134; June 29.
Heintz, Ralph M., Cleveland, and P. F. Scofield, Cleveland Heights, assignors to Jack & Heintz, Inc., Bedford, Ohio. Hand crank mechanism. 2,323,135; June 29.
Hemstreet, Albert B., Flushing, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Servo system for aircraft. 2,322,782; June 29.
Hess, Dr., & Clark, Inc. (See Guthrie, James E., assignor.)
Hewitt, William H., assignor to G. A. Braun, Inc., Chicago, Ill. Keying pin holder for laundry marking. 2,323,220; June 29.
Hibbard, Frank H., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse regenerator. 2,322,848; June 29.
Hicks, William M., Cincinnati, Ohio. Tackless roller shade assembly. 2,322,934; June 29.
Higgins, George A., Jr., Huntington, Ind. Coat and trousers hanger. 2,322,935; June 29.
Hill, Frank, Borger, Tex. Welding apparatus. 2,323,039; June 29.
Hinde & Dauch Paper Company, The. (See Drewsen, P., and Little, assignors.)
Hirsch, Mano, Brooklyn, N. Y. Articulated joints for dolls or similar toys. 2,323,040; June 29.
Hite, Robert M., Indianapolis, Ind. Starting barrier. 2,322,936; June 29.
Hockey, Harry, Bronx, and R. Breen, New York, N. Y. Portable novelty bank. 2,323,221; June 29.
Hoffman, Stanley G. (See Rickus, G. M., Braun, and Hoffman.)
Holley, Earl. (See Holley, G. M., Olson, Udale, and Holley, assignors.)
Holley, George M., Grosse Pointe Farms, E. Olson, Ferndale, and S. M. Udale, Detroit, Mich., assignors to G. M. and E. Holley. Carburetor starting device. 2,323,222; June 29.
Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Conduit construction. 2,322,937; June 29.
Honig, Morris, Bronx, N. Y. Extensible fire ladder and elevator. 2,323,041; June 29.
Honsberg, Werner, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Properlty Custodian. Electrolytic decomposition of metal compounds. 2,323,042; June 29.
Hoover Company, The. (See Carlson, Vernon E., assignor.)
Hoover Company, The. (See Daiger, George P., assignor.)
Hoover Company, The. (See Hahn, Paul T., assignor.)

Hopkins, Harry J., assignor to Acme Visible Records, Inc., Chicago, Ill. Manufacture of visible index or record strips. 2,323,043; June 29.
Horr, John V., Hastings-on-Hudson, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Display container. 2,322,840; June 29.
Horsfield, Basil, assignor to Edwin L. Wiegand, Pittsburgh, Pa. Electrical heating element. 2,323,089; June 29.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner motor. 2,322,963; June 29.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Lubricating dispenser. 2,322,808; June 29.
Hoven & Allison Company, The. (See Schantz, Edwin M., assignor.)
Howard, John B., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilization of superpolymers. 2,322,938; June 29.
Humrichouse, Davis B. (See Humrichouse, Walter E. and D. B.)
Humrichouse, Walter E. and D. B., assignors to The Air Gas Company, Baltimore, Md. Gaseous fuel generator. 2,323,274; June 29.
Hurst, Ira N. (See Hansen, W. L., and Hurst.)
Hydraulic Development Corporation. (See Ernst, Walter, assignor.)
Hyland, William A., assignor to The Van Brunt Manufacturing Company, Horicon, Wis. Grain drill. 2,323,044; June 29.
Iams, Harley A., Summit, N. J., assignor to Radio Corporation of America. Electron discharge device and system. 2,322,807; June 29.
Illinois Tool Works. (See Poupitch, Ougljesa J., assignor.)
Inhoffen, Hans H. (See Logemann, W., Inhoffen, and Eysenbach.)
Inman, Ulysses A., Long Beach, Calif. Vehicle wheel balance tester. 2,322,939; June 29.
Iowa State College Research Foundation. (See Yoder, Lester, assignor.)
Ireland, George F., Washington, D. C. Display device. 2,323,090; June 29.
Irving, Walter E. (See Barry, Richard J., assignor.)
Jack & Heintz, Inc. (See Heintz, R. M., and Scofield, assignors.)
Jackson, Albert M., Reno, Nev. Flashhider for automatic weapons. 2,322,806; June 29.
Jackson, James H., South Norfolk, Va. Sliding tray for automobile compartments. 2,323,045; June 29.
Jahn, Hellmuth. (See Wolfram, A., and Jahn.)
Jean, James W., Altadena, Calif. Treatment of hydrocarbons. 2,322,850; June 29.
Jedele, Alfred. (See Auwärter, M., Jedele, and Ruthardt.)
Jenkins, Francis R., Des Moines, Iowa. Hair clipper. 2,323,046; June 29.
Jennings, Alfred J. (See Gocher, W. S., and Jennings.)
Jewell, Joseph W., Summit, assignor to The M. W. Kellogg Company, Jersey City, N. J. Distillation. 2,323,047; June 29.
Johanson, Johanna M., Concord, Mass. Mitten. 2,323,136; June 29.
Johnson, Alfred G., Seattle, Wash. Paper hanger's tear plate. 2,323,048; June 29.
Johnson, Alfred K., Chicago, Ill. Skate scabbard. 2,323,049; June 29.
Johnson, Alvin H., Mount Vernon, N. Y. Flotation tank. 2,323,223; June 29.
Johnson, Elmer E., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electric switch. 2,323,050; June 29.
Johnson, George H. (See Harmon, J. F., and Johnson.)
Johnson, Otto W., Oakland, Calif. Fruit pitter. 2,323,137; June 29.
Johnson, William B., U. S. Army. Cap retainer. 2,322,805; June 29.
Johnston, Harry M., and G. Sneddon, Jr., McKeesport, Pa., assignors to National Tube Company. Chuck. 2,323,091; June 29.
Junker, Otto, Lammersdorf über Aachen, E. Brener, Strauch Kreis Monschau, and K. Knauff, Lammersdorf über Aachen, Germany; vested in the Alien Property Custodian. Electric furnace. 2,323,051; June 29.
Junkins, Raymond D., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Control system. 2,323,180; June 29.
Kalb, Robert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic switchhook. 2,322,851; June 29.
Katzman, Morris, and A. K. Epstein, assignors to The Emulsol Corporation, Chicago, Ill. Preparation of amides. 2,322,783; June 29.
Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Drop wire for warping machines and the like. 2,323,282; June 29.
Kearney, Daniel P., Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,322,964; June 29.
Kearns, Thomas T., Greenville, Pa. Tuning barrel for wind instruments. 2,323,138; June 29.
Kehoe, Richard D. (See Beveridge, J. B., and Kehoe.)
Kellogg, M. W., Company, The. (See Jewell, Joseph W., assignor.)
Kellogg Switch Board and Supply Company. (See McCarthy, Fred M., assignor.)
Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Universal corn cutter. 2,323,092; June 29.
Kinsella, Frank E., assignor, by mesne assignments, to D. B. Rapaport, Chicago, Ill. Electrically driven toy vacuum cleaner. 2,322,804; June 29.
Kirby, George W., Yonkers, M. H. Rasmusson, Brooklyn, and S. A. McHugh, Bronx, assignors to Standard Brands Incorporated, New York, N. Y. Souring material. 2,322,940; June 29.
Klaue, Herman, Berlin-Frohnau, Germany; vested in the Alien Property Custodian. Disk brake for use in motor cars, airplanes, and the like. 2,323,052; June 29.
Klein, Abraham. (See Esterow, L., and Klein.)
Klein, Clarence J., Hollidays Cove, W. Va. Guide for strip coilers. 2,322,784; June 29.
Knauff, Karl. (See Junker, O., Breuer, and Knauff.)
Knox, Harry A., Washington, D. C. Suspension. 2,322,785; June 29.
Koch, Felix, Bellevue, and S. H. Badgett, Ben Avon, assignors to Pressed Steel Car Company, Inc., Pittsburgh, Pa. Car construction. 2,322,941; June 29.
Koch, Gustav H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Fastening device. 2,322,803; June 29.
Kost, Harold W., Birmingham, assignor to Detroit Harvester Company, Detroit, Mich. Panel fastener. 2,322,852; June 29.
Krebs, Luther E., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Method of and apparatus for testing coils. 2,322,853; June 29.
Kroeper, Hugo, Heidelberg, Germany; vested in the Alien Property Custodian. Condensation of an imide of a dicarboxylic acid with a polyamine. 2,323,054; June 29.
Krueger, Melvin W., Madison, Wis. Side wall stack frame. 2,323,055; June 29.
Kubbier, Fritz. (See Schneider, W. Kubbier, and Senger.)
Kuhnle, Frederick C., Grand Haven, Mich. Drain valve housing. 2,323,224; June 29.
Kúmetat, Karl. (See Arens, H. Kúmetat, Walter, and Wilmanns.)
Kupferschmid, Ernst, Oberschwandorf über Messkirch, Baden, Germany; vested in the Alien Propery Custodian. Quickly ready pouch for snapshot cameras. 2,323,053; June 29.
Labbe, James C., Broussard, and C. J. Duchamp, St. Martinville, La. Air-distribution casing. 2,323,139; June 29.
Labour, Jean F. P. E., Paris, France; vested in the Alien Property Custodian. Apparatus for the extraction of liquids such as petrol and all other hydrocarbons contained in jellies or like products. 2,323,056; June 29.
Lambach, Fritz, Belleville, N. J., assignor to Robert Reiner, Incornorated. Stocking blank and knitting the same. 2,322,802; June 29.
Lambert-Carez, René, New York, N. Y. Nut guard. 2,323,058; June 29.
Lammerding, William J., Roselle Park, N. J. Assembling and testing fixture. 2,323,057; June 29.
Lancaster, Jeter M., High Point, N. C. Air controlled work clamping machine. 2,323,141; June 29.
Land, Edwin H., Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del. Building construction unit comprising light-polarizing material. 2,323,059; June 29.
Landis Tool Company. (See Balsiger, Harold E., assignor.)
Lane, Clifford H., Jr., Brooklyn, N. Y., assignor to Radio Corporation of America. Mount support and contact for electron discharge devices. 2,323,140; June 29.
Lang, Wilmarth Y., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph signal measuring apparatus. 2,322,943; June 29.
Lange, Frederick E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Transformer motor. 2,322,942; June 29.
Langer, John G., Philadelphia, Pa. Combination insignia handkerchief and arm band. 2,322,854; June 29.
Larsson, Ernest A., assignor to The Ohio Brass Company, Mansfield, Ohio. Car and electric train line coupler. 2,323,060; June 29.
Lawler, Jack A. (See Best, F. C., and Lawler.)
Ledbetter, James C., New York, N. Y. Steam pressing iron. 2,323,225; June 29.
Lee Rubber & Tire Corporation. (See Limbert, R. J., and Glaser, assignors.)
Lehane, Timothy J. (See Parks, P. B., and Lehane.)
Lehmann, Wolfgang, Cologne-Mulheim, and R. Schröter, Leverkusen-Schlebusch, Germany; vested in the Alien Property Custodian. Isolation of dicarboxylic acids from their mixtures. 2,323,061; June 29.
Lenahan, Thomas P., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Method and apparatus for raising and permanently supporting heavy structures. 2,322,855; June 29.
Le Roue, Lloyd, Toppenish, Wash. Wrench reducing insert. 2,322,856; June 29.

Levaggi, Albert F., Brockton, assignor, by mesne assignments, to Robert Channing Company, East Bridgewater, Mass. Shoe form. 2,323,228; June 29.

Leverenz, Humboldt W., South Orange, N. J., assignor to Radio Corporation of America. Luminescent lamp. 2,323,142; June 29.

Levin, Joseph H., Washington, D. C. Portable receptacle. 2,323,093; June 29.

Levin, Joseph H., Brooklyn, N. Y. Handle for receptacles. 2,323,094; June 29.

Levine, Arthur A., and O. W. Cass, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of 2-chlorobutene-2. 2,323,226; June 29.

Levine, Arthur A., and O. W. Cass, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of 2,2,3-trichlorobutane. 2,323,227; June 29.

Liabastre, Albert, Manhasset, N. Y. Lighting fixture for sewing machines. 2,322,944; June 29.

Liabastre, Albert, Great Neck, N. Y. Ventilated lamp housing. 2,322,945; June 29.

Liabastre, Albert, Great Neck, N. Y. Sewing machine support. 2,322,946; June 29.

Liedholm, George E., Scarsdale, N. Y., and R. M. Cole and I. I. Shultz, Long Beach, assignors to Shell Development Company, San Francisco, Calif. Dehydrogenation process. 2,322,857; June 29.

Limbert, Rollin J., and C. J. Glaser, Jr., assignors to Lee Rubber & Tire Corporation, Conshohocken, Pa. Self-retaining catheter. 2,322,858; June 29.

Lindell, Sigurd I., assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse construction. 2,323,229; June 29.

Lion Oil Refining Company. (See Allinson, J. J., Poole, and Grant, assignors.)

Linford, Henry B. (See Betterton, J. O., Phillips, and Linford.)

Little, John R. (See Drewsen, P., and Little.)

Litwin & Sons: (See Litwin, M., Milner, and Ellert, assignors.)

Litwin, Max, and B. Milner, Cincinnati, and J. Ellert, St. Bernard, assignors to Litwin & Sons, Cincinnati, Ohio. Pin and socket connection. 2,322,947; June 29.

Loane, Clarence M., Hammond, Ind., and J. W. Gaynor, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,322,859; June 29.

Lockridge, William R., administrator. (See Loughridge, Matthew H.)

Loeffel, Lester H., West Haven, assignor to The Berger Brothers Company, New Haven, Conn. Brassière and breast pad. 2,323,143; June 29.

Loeffler, Bruno, West New York, and J. S. Pelan, North Plainfield, N. J., assignors to Mack Manufacturing Corporation, Long Island City, N. Y. Heat control time switch. 2,322,860; June 29.

Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y. Vacuum cleaner. 2,322,948; June 29.

Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, Dover, Del. Cord-winding device. 2,323,275; June 29.

Logemann, Willy, Berlin-Charlottenburg, H. H. Inhoffen, Berlin-Wilmerdorf, and H. Eysenbach, Berlin-Conradshohe, Germany, assignors to Schering Corporation, Bloomfield, N. J. Cyclopentano-polyhydrophenanthrene compounds and making the same. 2,322,809; June 29.

Long, Arnold, Menominee, Mich. Tire spreader. 2,323,144; June 29.

Long, John, Oakland, Calif. Ship. 2,323,063; June 29.

Lontz, John F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition and method. 2,322,759; June 29.

Lontz, John F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition and method. 2,322,760; June 29.

Lontz, John F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition and method. 2,322,761; June 29.

Loughridge, Matthew H., Bogota, N. J., deceased; W. R. Lockridge, administrator. Railway switching system and apparatus. 2,323,002; June 29.

Luckey, George P., assignor to Hamilton Watch Company, Lancaster, Pa. Constant speed body. 2,322,861; June 29.

Lustfield, Herman G., Brooklyn, N. Y. Floating automatic signaling apparatus. 2,323,064; June 29.

Lux Clock Mfg. Company, The. (See Lux, Frederick, assignor.)

Lux, Frederick, assignor to The Lux Clock Mfg. Company, Inc., Waterbury, Conn. Spindle and knob construction. 2,322,949; June 29.

Mabry, Helen M., New York, N. Y. Apparatus for applying coloring material to nails. 2,323,145; June 29.

Mack Manufacturing Corporation. (See Loeffler, B., and Pelan, assignors.)

Madsen, Paul S., Bethany, assignor to The Seamless Rubber Company, New Haven, Conn. Adhesive tape dispensing device. 2,322,950; June 29.

Maier, August R., Oil City, Pa., assignor to Oil Well Supply Company. Catline apparatus for hoists. 2,323,095; June 29.

Malhiot, Clarence J., Oak Park, assignor to F. B. Redington Co., Chicago, Ill. Weighing mechanism. 2,322,862; June 29.

Mallory, Marion, Detroit, Mich. Governor for internal combustion engines. 2,322,764; June 29.

Malone, Homer E., assignor to Perfex Corporation, Milwaukee, Wis. Heat motor actuated device. 2,322,762; June 29.

Maniscalco, Pietro, Chicago, Ill. Compressor. 2,323,068; June 29.

Manney, David H., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Breather plug for electric motors. 2,323,146; June 29.

Mark, Arthur. (See Claudot, A., and Mark.)

Marschner, Robert F., Chicago, Ill., L. Heard, Hammond, Ind., and A. G. Oblad, assignors to Standard Oil Company, Chicago, Il. Dehydroaromatization and hydroforming. 2,322,863; June 29.

Martin, Glenn L., Company. (See van Zelm, Willem D., assignor.)

Martin, Stoddard B., Lakewood, Ohio. Pusher. 2,323,067; June 29.

Martino, William, Detroit, Mich. Airplane propeller. 2,322,763; June 29.

Martins, Børge, Frederiksberg, Denmark; vested in the Alien Property Custodian. Spring shackle device. 2,323,065; June 29.

Marx, Louis & Company. (See Rexford, Willis E., assignor.)

Massey-Harris Company, The. (See Everett, Charles E., assignor.)

Mastropole, Alfred J., New York, assignor to Sonotone Corporation, Elmsford, N. Y. Microphone amplifier. 2,322,765; June 29.

Mathey, Alcide E. (See Scully, F. P., and Mathey.)

May, Alajos, Szekesfehervar, Hungary; vested in the Alien Property Custodian. Apparatus for the picking up and reproduction of sounds. 2,323,066; June 29.

Maywald, Frederick J., Jr., Rutherford, assignor to Allied Latex Corporation, East Newark, N. J. Machine for making certain rubber goods. 2,322,766; June 29.

McAvoy, Trush, Cincinnati, Ohio. Composition shingle. 2,323,230; June 29.

McCarthy, Fred M., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Trouble cutoff system. 2,322,864; June 29.

McDermott, Perry O., Los Banos, Calif. Eradicating tules. 2,322,865; June 29.

McDowell, Kenneth A., Chico, Calif. Fishing tackle. 2,323,096; June 29.

McDowell, Miles S., Lexington, Ky. Window guard. 2,323,097; June 29.

McHugh, Stanley A. (See Kirby, G. W., Rasmusson and McHugh.)

McKinnis Foods. (See McKinnis, Ronald B., assignor.)

McKinnis, Ronald B., assignor, by mesne assignments, to R. B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla. Conveyer. 2,323,147; June 29.

McKinnon, Alexander E., Homewood, assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Rail car. 2,323,069; June 29.

McLaren, Peter J., New York, N. Y. Computing and registering mechanism. 2,322,767; June 29.

McLaughlin, Kenneth M., Summit, N. J., assignor to Radio Corporation of America. Electrical contact assembly for use in electron discharge devices. 2,323,148; June 29.

McLean, William A., assignor to Geneva Processes, Inc., Geneva, N. Y. High speed mill. 2,323,149; June 29.

McMillan, Cullum H., San Saba, Tex. Barrier release. 2,323,150; June 29.

McNiel, William M., Wheaton, assignor to United States Gypsum Company, Chicago, Ill. Tread construction. 2,322,965; June 29.

Menzer, Anton, Brooklyn, N. Y. Universal measuring indicator. 2,322,951; June 29.

Merco Centrifugal Co. (See Peltzer, Albert, assignor.)

Meredith, Frederick W., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Automatic steering control for aircraft. 2,323,151; June 29.

Merrill, Frederick D., Jr., Millburn Township, Essex County, assignor to Miessner Inventions, Inc., Harding Township, Morris County, N. J. Method and apparatus for the production of music. 2,323,231; June 29.

Merrimac Hat Corporation. (See Neely, Le Baron W., assignor.)

Merz, Max, assignor to Mill & Mine Supply, Incorporated, Seattle, Wash. Mercury feeder. 2,322,866; June 29.

Metalastik Limited. (See Goldschmidt, Max, assignor.)

Metcalf, Andrew J., Ashland, Wis. Oil filter. 2,323,152; June 29.

Meyer, Gustav, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian. Change speed gear. 2,323,070; June 29.

Meyer, Walter W., Arlington Heights, assignor to Rotary Seal Company, Chicago, Ill. Seal. 2,322,867; June 29.

Miescher, Karl, Riehen, and A. Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Saturated and unsaturated pregnane compounds and making same. 2,323,276; June 29.

Miescher, Karl, Riehen, and A. Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Saturated and unsaturated pregnane compounds and making same. 2,323,277; June 29.

Miessner, Benjamin F., assignor to Miessner Inventions, Inc., Harding Township, Morris County, N. J. Apparatus for the production of music. 2,323,232; June 29.

Miessner Inventions, Inc. (See Merrill, Frederick D., Jr., assignor.)

Miessner Inventions, Inc. (See Miessner, Benjamin F., assignor.)

Mill & Mine Supply, Incorporated. (See Merz, Max, assignor.)

Miller Laundry Machinery Company. (See Miller, Morris, assignor.)

Miller, Morris, assignor to Miller Laundry Machinery Company, Detroit, Mich. Dispensing device. 2,323,233; June 29.

Milner, Bertram. (See Litwin, M., Milner, and Ellert.)

Minerals Separation North American Corporation. (See Cole, A. T., Duke, and Schilling, assignors.)

Minneapolis-Honeywell Regulator Company. (See Beam, Vilynn O., assignor.)

Minneapolis-Honeywell Regulator Company. (See Lance, Frederick E., assignor.)

Mintzes, Alvin. (See Mintzes, Louis and A.)

Mintzes, Louis and A., Brooklyn, N. Y. Polishing device. 2,323,098; June 29.

Misiura, Bronislaw, Duquesne, Pa. Toolholder. 2,322,868; June 29.

Mitcheltree, Walter F. (See Williamson, H. V., and Mitcheltree.)

Mohr, William H., Newport, R. I. Thimble. 2,322,869; June 29.

Molinari, Vittorio, North Plainfield, N. J., assignor to Bakelite Corporation, New York, N. Y. Resins from halogenated hydrocarbons and similar materials. 2,322,870; June 29.

Molins Machine Company, Limited. (See Pembroke, George F., assignor.)

Mollenhauer, Paul W., Alburnett, Iowa. Handle for milk cans. 2,322,871; June 29.

Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)

Monsanto Chemical Company. (See Harman, Marion W., assignor.)

Montgomery, Harley A., Highland Park, Mich. Drawing compound. 2,323,071; June 29.

Moore, Robert E., Park Ridge, Ill. Heating system. 2,322,872; June 29.

Moriarty, Wilson H., Shaker Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Grate bar for sintering machines. 2,322,873; June 29.

Morrison, Harry. (See Saunders, S. G., and Morrison.)

Murata, Seizo, San Francisco, Calif. Frame for glare shields. 2,323,072; June 29.

Muster, Harold B. (See Allen, E. L., and Muster.)

National Cash Register Company, The. (See Davidson, John T., assignor.)

National Lock Co. (See Burke, William O., assignor.)

National Malleable and Steel Castings Company. (See Moriarty, Wilson H., assignor.)

National Tube Company. (See Johnston, H. M., and Sneddon, assignors.)

Neal, Ernest C., Chicago, Ill., assignor to J. D. Roberts, Portland, Oreg., trustee. Tie puller. 2,322,768; June 29.

Neely, Le Baron W., Amesbury, Mass., assignor to Merrimac Hat Corporation. Web-guiding, tensioning, fulling, and smoothing mechanism for forming machines. 2,323,234; June 29.

Neeson, Charles, R., and R. G. Wyld, Dayton, Ohio, assignors to Chrysler Corporation, Detroit, Mich. Compressor oil cooling system. 2,322,874; June 26.

Netting, Ralph B., Grosse Pointe, Mich. Light reflector. 2,323,073; June 29.

Neugebauer, Franz, and E. Hartmann, Munich-Allach, and L. Wagensell, Munich-Obermenzing, Germany; vested in the Alien Property Custodian. Piston head. 2,323,074; June 29.

New York Air Brake Company, The. (See Brown, Robert S., assignor.)

Nicholides, Emmanuel C., Bronx, N. Y., assignor to Aurex Corporation, Chicago, Ill. Hearing aid device. 2,322,952; June 29.

Norberg, Oscar E., Cincinnati, Ohio, assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich. Refrigerator cabinet. 2,322,769; June 29.

Nordenswan, Robert, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic counting device. 2,323,235; June 29.

Oberly, Chester C., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Liquid dispenser. 2,322,966; June 29.

Oblad, Alex G. (See Marschner, R. F., Heard, and Oblad.)

Ocker, William C., San Antonio, Tex., assignor to the Government of the United States as represented by the Secretary of War. Process useful in blind flight training. 2,322,770; June 29.

Ohio Brass Company, The. (See Larsson, Ernest A., assignor.)

Oil and Gas Research, Inc. (See Wilcox, William D., assignor.)

Oil Well Supply Company. (See Maier, August R., assignor.)

Okonite Company, The. (See Bennett, Charles E., assignor.)

Oliver, Bernard M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric circuit. 2,322,875; June 29.

Olson, Elmer. (See Holley, G. M., Udale, and Olson.)

Ontario Research Foundation. (See Staples, Milfred L., assignor.)

O'Reilly, Joe, Tacoma, Wash. Egg carton. 2,322,876; June 29.

Orthner, Ludwig, and G. Balle, Frankfort-on-the-Main, G. Dittus, Ludwigshafen-on-the-Rhine, and H. Wagner, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Preparing thiuronium salts. 2,323,075; June 29.

Oswego Falls Corporation. (See Barnes, A. A., and Price, assignors.)

Palm, John V. O., Cleveland Heights, J. K. Anthony, Cleveland, and J. E. Wilkey, South Euclid, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing. 2,322,771; June 29.

Paquin, Joseph N. (See Stecher, H. D., and Paquin.)

Parker, Arthur L., Cleveland, Ohio. Coupling. 2,322,877; June 29.

Parks, Paul B., Oak Park, and T. J. Lehane, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Temperature regulating and ventilating system. 2,323,236; June 29.

Patten, Walter E., Catonsville, Md. Tube fitting. 2,323,099; June 29.

Paul, H. Erich, Berlin, Germany; vested in the Alien Property Custodian. Measuring arrangement adapted to check or measure mismatching. 2,323,076; June 29.

Payne, Ernest, Repton, Ky. Tire inflating valve. 2,323,237; June 29.

Peck, William F., Snyder, and Al. A. Gradisar, Buffalo, N. Y., assignors to American Optical Company, Southbridge, Mass. Eye testing instrument. 2,322,878; June 29.

Pelan, John S. (See Loeffler, B., and Pelan.)

Peltzer, Albert, assignor to Merco Centrifugal Co., San Francisco, Calif. Starch manufacturing process. 2,323,077; June 29.

Pelzer, Harold H. (See Pelzer, William and H. H.)

Pelzer, William and H. H., New York. Paper bottle. 2,323,078; June 29.

Pembroke, George F., assignor to Molins Machine Company Limited, Deptford, London, England. Gauging apparatus. 2,322,954; June 29.

Pennebaker, Robert H., Little Rock, Ark. Oil filter. 2,322,772; June 29.

Perfex Corporation. (See Deubel, Justin A., assignor.)

Perfex Corporation. (See Malone, Homer E., assignor.)

Perkins, William H., Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Current supply system. 2,322,955; June 29.

Perry, William R., assignor to Reeves Pully Company, Columbus, Ind. Belt splice. 2,322,967; June 29.

Peters, Franklin T., assignor to E. I. du Pont de Nemours & Company, Wimlington, Del. Coated fabric. 2,322,953; June 29.

Peters, Melville F., Beltsville, Md. Electrical conductor. 2,322,773; June 29.

Phillips, Albert J. (See Betterton, J. O., Phillips, and Linford.)

Phillips Petroleum Company. (See Frey, Frederick E., assignor.)

Phillips, Stephen A., Everett, Wash. Submarine escape. 2,323,238; June 29.

Pilson, Turner E., Roanoke, Va. Motor mount. 2,323,153; June 29

Piron, Emil H., New York, N. Y., assignor to Transit Research Corporation. Combined steel and rubber spring. 2,322,879; June 29.

Polack, Sidney L., Chicago, Ill. Counterweight apparatus for elevators. 2,322,774; June 29.

Polaroid Corporation. (See Land, Edwin H., assignor.)

Pollak, Alfred, New York, N. Y. Pickling, curing, and preserving fruits and vegetables. 2,322,880; June 29.

Pollock, John E., Bromley, England, assignor to Standard Oil Development Company. Solvent treating. 2,322,881; June 29.

Pontius, George W., III, and G. A. Goepfrich, South Bend, Ind. Trigger motor. 2,322,775; June 29.

Poole, John W. (See Allinson, J. J., Poole, and Grant.)

Pounds, Richard T. (See Flanagan, T. B., and Pounds.)

Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Fastener device. 2,322,776; June 29.

Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Slide fastener. 2,322,908; June 29.

Powell, Edward J., Kansas City, Mo. Machine for cutting leg bands. 2,323,100; June 29.

Pressed Steel Car Company. (See Koch, F., and Badgett, assignors.)

Price, John F. (See Barnes, A. A., and Price.)

Prosperity Company, Inc., The. (See Zimarik, Louis, assignor.)

Prox, Frank, Company. (See Fulke L., assignor.)

Pullman-Standard Car Manufacturing Company. (See McKinnon, Alexander E., assignor.)

Purnell, Charles G., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Heat treatment of hardenable steel. 2,322,777; June 29.

Rabl, Alfred, Wiener-Neudorf, Germany; vested in the Alien Property Custodian. Hub-operated dynamo for bicycles. 2,322,969; June 29.
Radio Corporation of America. (See Burnett, Carlos E., assignor.)
Radio Corporation of America. (See Carter, Philip S., assignor.)
Radio Corporation of America. (See Goddard, De Witt R., assignor.)
Radio Corporation of America. (See Iams, Harley A., assignor.)
Radio Corporation of America. (See Lane, Clifford H., Jr.)
Radio Corporation of America. (See Leverenz, Humboldt W., assignor.)
Radio Corporation of America. (See McLaughlin, Kenneth M., assignor.)
Radio Corporation of America. (See Smith, Jerome C., assignor.)
Radio Corporation of America. (See Wagenhals, Edward R., assignor.)
Radio Corporation of America. (See Wassell, Harold J. H., assignor.)
Radio Corporation of America. (See Widell, Emil G., assignor.)
Ransohoff, Nathan, Cincinnati, Ohio. Washing apparatus. 2,323,154; June 29.
Rapaport, David B. (See Kinsella, Frank E., assignor.)
Raskin, Walter, New York, N. Y. Refrigeration apparatus. 2,322,882; June 29.
Rasmusson, Marvin H. (See Kirby, G. W., Rasmusson, and McHugh.)
Reconstruction Finance Corporation. (See Williamson, H. V., and Mitcheltree, assignors.)
Red & White Laundry & Cleaning Company. (See Sullivan, Timothy J., assignor.)
Redington, F. B., Co. (See Malhiot, Clarence J., assignor.)
Reeves, Howard F., Jr. (See Andrews, T. M., and Reeves.)
Reeves Pully Company. (See Perry, William R., assignor.)
Reeves, Richard E., Yonkers, N. Y., assignor to The Chemical Foundation, Incorporated. Production of improved cellulosic materials. 2,323,181; June 29.
Reichel, Wladimir A., Bellerose, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Oxyen regulator. 2,322,883; June 29.
Reichhold Chemicals, Inc. (See Siegel, Ernest F., assignor.)
Reiner, Robert, Incorporated. (See Lambach, Fritz, assignor.)
Renton, Henry N., Wyncote, assignor to The American Pulley Company, Philadelphia, Pa. Black-out screening. 2,323,239; June 29.
Rexford, Willis E., Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy railway mail car or the like. 2,323,240; June 29.
Rhodes, Harold R. (See Hall R., and Rhodes.)
Richardson, Olan, Homewood, J. R. Caldwell, and W. A. Gussow, Birmingham, Ala., assignors to Southern States Equipment Corporation. Electric switch. 2,323,241; June 29.
Richardson, William. (See Shepherd, T. L., and Richardson.)
Rickus, George M., W. L. Braun, and S. G. Hoffman, assignors to Hat Corporation of America, Norwalk, Conn. Dyeing panama hats. 2,322,968; June 29.
Rienstra, Albert R., Garden City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric organ system. 2,323,242; June 29.
Ritter, Ferdinand T., Long Beach, Calif. Smoke disperser for pipes. 2,323,243; June 29.
Roach & Musser Company. (See Conway, Mark A., assignor.)
Robbins, Henry H., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission synchronizer. 2,322,970; June 29.
Roberts, James D., trustee. (See Neal, Ernest C., assignor.)
Roede, Charles B., Ridgefield, assignor to Sperry Products, Inc., Hoboken, N. J. Self-erecting means for gyroscopic devices. 2,323,244; June 29.
Roetken, Alfred A., Madison, N. J., assignor to Bell Telephone Laboratories, New York, N. Y. Amplifying system. 2,322,884; June 29.
Rogallo, Francis M., Hampton, Va. Lateral control for aircraft. 2,322,745; June 29.
Rogers, Louis F., Wilmington, Del., assignor to Bond Manufacturing Corporation, Inc. Making closures for collapsible tubes and the like. 2,322,885; June 29.
Rolland, Robert J. A. (See Wunsch, W. H. G., and Rolland.)
Roosenstein, Hans O., Berlin, Germany; vested in the Alien Property Custodian. Shielded antenna feeder lead or line. 2,322,971; June 29.
Rose, Luther S., Honolulu, Hawaii. Printing telegraph receiver. 2,323,155; June 29.
Rossander, Swanie S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Soluble trisazo dyes for cellulosic fibers. 2,322,746; June 29.
Rotary Seal Company. (See Dornhofer, Louis J., assignor.)
Rotary Seal Company. (See Meyer, Walter W., assignor.)
Rudd, Walter C., Yonkers, assignor to Consolidated Edison Company, Inc., New York, N. Y. Fuse construction. 2,323,006; June 29.
Rumpf, Martin H., Uccle-Brussels, Belgium; vested in the Alien Property Custodian. Devices for the protection of the guiding surfaces of the slides of machine tools. 2,322,972; June 29.
Ruppe, Hugo, Berlin, Germany; vested in the Alien Property Custodian. Magneto. 2,322,973; June 29.
Rustless Iron and Steel Corporation. (See Stevens, George, assignor.)
Ruthardt, Konrad. (See Auwärter, M., Jedele, and Ruthardt.)
Sadler, Edward P., assignor of one-half to C. M. Wheeler, Louisville, Ky. Coffee maker. 2,323,283; June 29.
Safride, Ltd. (See Voorhies, Roy K., assignor.)
Salomon, Arnold, Oss, Netherlands; vested in the Alien Property Custodian. Amino aryl sulphonamides. 2,322,974; June 29.
Saunders, Seymour G., Bloomfield Hills, and H. Morrison, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Adhesive and making the same. 2,322,886; June 29.
Schaack, Francis P., administrator. (See Schirmer, Clara.)
Schantz, Edwin M., assignor to The Hooven & Allison Company, Xenia, Ohio. Yarn control device. 2,322,956; June 29.
Schenker, Jack E., Chicago, Ill. Record holder file. 2,323,245; June 29.
Schering Corporation. (See Logemann, W., Inhoffen, and Eysenbach, assignors.)
Schilling, Karl F. (See Cole, A. T., Duke, and Schilling.)
Schirmer, Clara, Rib Lake, Wis., deceased; F. P. Schaack, administrator. Fish scaling device. 2,323,101; June 29.
Schmidt, Fritz. (See Anschütz, R., and Schmidt.)
Schmitz, Hilger P., Munich, Germany; vested in the Alien Property Custodian. Producing thin threads from polyvinyl alcohol and its water-soluble derivatives. 2,322,976; June 29.
Schneider, W., F. Kuhbier, and N. Senger, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Production of multicolored motion pictures with sound track. 2,323,246; June 29.
Schonitzer, Rudolph I. (See Allen, E. L., and Muster, assignors.)
Schroeder, Carl, Berlin, Germany; vested in the Alien Property Custodian. Controlling the operation of vapor generators. 2,322,975; June 29.
Schröder, Alfred, and O. Falk, Breslau, Germany; vested in the Alien Property Custodian. Guide roller support. 2,322,977; June 29.
Schröter, Rudolf. (See Lehmann, W., and Schröter.)
Schwaiger, Karl, Gaggenau, Baden, Germany; vested in the Alien Property Custodian. Device for withdrawing brake air from Diesel engine cylinders. 2,322,978; June 29.
Schwartz, George L., Wilmington, Del., and J. F. Walker, Lewiston, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical treatment of paper. 2,322,887; June 29.
Schwartz, George L., Wilmington, Del., and J. F. Walker, Lewiston, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing high wet strength paper. 2,322,888; June 29.
Schweitzer & Conrad, Inc. (See Lindell, Sigurd I., assignor.)
Scofield, Philip F. (See Heintz, R. M., and Scofield.)
Scully, Frank P., Cambridge, and A. E. Mathey, Boston, assignors to Scully Signal Company, East Cambridge, Mass. Liquid level indicator. 2,323,156; June 29.
Scully Signal Company. (See Scully, F. P., and Mathey, assignors.)
Seamless Rubber Company, The. (See Madsen, Paul S., assignor.)
Sellmeyer, Gilbert J., Indianapolis, Ind. Suspension means for reciprocal saws. 2,323,247; June 29.
Sellmeyer, Gilbert J., Indianapolis, Ind. Portable power driven saw. 2,323,248; June 29.
Senesac, Adelor T., assignor of one-third to S. A. Wilczynski and one-third to R. A. G. Engelhart, Chicago Heights, Ill. Changeable sign. 2,323,157; June 29.
Senger, Norbert. (See Schneider, W., Kuhbier, and Senger.)
Servel, Inc. (See Anderson, Philip P., Jr., assignor.)
Servel, Inc. (See Fenander, Edmund A., assignor.)
Servel, Inc. (See Shagaloff, Harry C., assignor.)
Shagaloff, Harry C., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigerator. 2,323,249; June 29.
Shand, William, Arlington, assignor to Tobacco Retention Corporation, Brookline, Mass. Machine for treating cigarettes. 2,322,747; June 29.
Shaw, Richard A. (See Shaw, Thomas E. and R. A.)
Shaw, Thomas E. and R. A., Cranston, R. I., assignors to Stackbin Corporation. Rack or supporting structure. 2,322,748; June 29.
Shayne, Alexander. (See Wittkuhns, B. A., and Shayne.)
Shell Development Company. (See Liedholm, George E., Cole, and Shultz, assignors.)
Shepherd, Thomas L., and W. Richardson, London, England. Collar fabric. 2,322,889; June 29.
Shultz, Irvin I. (See Liedholm, G. E., Cole, and Shultz.)
Siefken, George R., New York, N. Y. Humidifier. 2,323,158; June 29.

Siegel, Ernst F., Elizabeth, N. J., assignor to Reichhold Chemicals, Inc., formerly Beck, Koller & Company, Inc., Detroit, Mich. Manufacturing alcohol modified urea formaldehyde resins. 2,322,979; June 29.
Silhavy, John F., Chicago, Ill. Heating and treating wort. 2,322,749; June 29.
Silver, Walter H., assignor to Deere & Company, Moline, Ill. Lister. 2,323,278; June 29.
Singer Manufacturing Company, The. (See Denman, Earl W., assignor.)
Slack, Frederic W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle wheel suspension. 2,322,890; June 29.
Sleeter, Edward B. (See Bradford, Z. C., Warner, and Sleeter.)
Smith, Arthur E., Los Angeles, Calif. Syringe. 2,323,159; June 29.
Smith, Jerome C., Merchantville, N. J., assignor to Radio Corporation of America. Signaling system. 2,323,250; June 29.
Smith, Milton L., Chicago, Ill. Combination refrigerator and vending machine. 2,322,980; June 29.
Smith, S., & Sons (Motor Accessories) Limited. (See Meredith, Frederick W., assignor.)
Smith, Stanton W. (See Zielesch, A., and Smith.)
Smith, Thomas N., San Antonio, Tex. Valve operating mechanism. 2,323,251; June 29.
Smithe, F. L., Machine Co. (See Hayes, Lynn O., assignor.)
Sneddon, George, Jr. (See Johnston, H. M., and Sneddon.)
Snyder, David, Philadelphia, Pa. Flag mounting. 2,322,891; June 29.
Sonotone Corporation. (See Mastropole, Alfred J., assignor.)
Soundscriber Corporation, The. (See Thompson, L., and Stone, assignors.)
Southern States Equipment Corporation. (See Garrison, Edgar W., Jr., assignor.)
Southern States Equipment Corporation. (See Richardson, O., Caldwell, and Gussow.)
Spalding, A. G., & Bros. Inc. (See Dickson, J. B., and Burns, assignors.)
Sparkes, Harry P., West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric service installation. 2,323,252; June 29.
Sparks, Chiles E. and J. H., Trepagnier, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Trisazo dye. 2,322,750; June 29.
Sperry, Elmer A., Jr., New York, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J. Repeater system for magnetic compasses. 2,323,253; June 29.
Sperry Gyroscope Company. (See Hemstreet, Albert B., assignor.)
Sperry Products, Inc. (See Roede, Charles B., assignor.)
Sperry Products, Inc. (See Sperry, Elmer A., Jr., assignor.)
Sperry Products, Inc. (See Wittkuhns, B. A., and Shayne, assignor.)
Springer, Ray W., Detroit, Mich. Door lock mechanism. 2,322,892; June 29.
Stackbin Corporation. (See Shaw, Thomas E. and R. A., assignors.)
Standard Brands Incorporated. (See Kirby, G. W., Rasmusson, and McHugh, assignors.)
Standard Oil Company. (See Loane, C. M., and Gaynor, assignor.)
Standard Oil Company. (See Marschner, R. F., Heard, and Oblad, assignors.)
Standard Oil Development Company. (See Pollock, John E., assignor.)
Staples, Milfred L., assignor to Ontario Research Foundation, Toronto, Ontario, Canada. Maintaining the original characteristics of substances. 2,323,102; June 29.
Stearn, William T., Cumberland, Md., assignor to Celanese Corporation of America. Registering device. 2,322,893; June 29.
Stecher, Henry D., Lakewood, and J. N. Paquin, Euclid, assignors to The Weatherhead Company, Cleveland, Ohio. Dehydrator. 2,323,160; June 29.
Steel Heddle Manufacturing Company. (See Kaufmann, John J., assignor.)
Steensen, Bernard, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Twin carburetor intake silencer. 2,322,895; June 29.
Sterling, Bernard A., Chicago, Ill., deceased; S. Sterling, executrix. Hair curler. 2,323,254; June 29.
Sterling, Sara, executrix. (See Sterling, Bernard A.)
Stevens, George, Baltimore, Md., assignor to Rustless Iron and Steel Corporation. Twist drill. 2,322,894; June 29.
Stevens, Richard K. (See Evans, George H., assignor.)
Stewart, Ian G. (See Young, A., and Stewart.)
Stone, Robert L. (See Thompson, L., and Stone.)
Stouffer, Oscar F., Spencer, Iowa. Garage door suspension means. 2,323,161; June 29.
Stuckert, William P., Marblehead, Mass., assignor to Sylvania Electric Products Inc. Glass severing apparatus. 2,323,182; June 29.
Studler, René R., U. S. Army, Washington, D. C., assignor to United States of America as represented by the Secretary of War. Projectile. 2,322,751; June 29.
Sullivan, Timothy J., assignor to Red & White Laundry & Cleaning Company, Butte, Mont. Direct fired single tube flatwork ironer and drier. 2,322,957; June 29.
Sutherland, George R., Hayfield, Minn. Coin controlled vending machine. 2,323,255; June 29.
Swindell-Dressler Corporation. (See Brooke, Frank W., assignor.)
Sylvania Electric Products Inc. (See Gardner, Roland M., assignor.)
Sylvania Electric Products Inc. (See Stuckert, William P., assignor.)
Sylvania Electric Products Inc. (See Toorks, William P., assignor.)
Syracuse Chilled Plow Company. (See Baker, Herbert N., assignor.)
Talmage, Charles R., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Flatiron base. 2,323,162; June 29.
Talon, Inc. (See Carlile, Alfred E., assignor.)
Talon, Inc. (See Hartley, Emmett C., assignor.)
Talon, Inc. (See Poux, Noel J., assignor.)
Tarburton, John A., Dover, Del. Locater for submerged aircraft and the like. 2,323,163; June 29.
Taubensee, Henry A. (See Geyer, Ernest H., assignor.)
Taylor, Douglas, Solihull, near Birmingham, England. Lens grinding or polishing machine. 2,323,164; June 29.
Tenbrook, William E., Glenwood Springs, Colo. Vegetable topper. 2,322,905; June 29.
Terwilliger, Ivan M., Altadena, Calif. Motion picture film. 2,322,752; June 29.
Texas Company, The. (See Hare, Donald G. C., assignor.)
Thomas, Frederick M., assignor to The De Havilland Aircraft Company Limited, Hatfield, England. Airscrew. 2,323,165; June 29.
Thomas, George J., Pittsburgh, Pa. Surgical apparatus. 2,322,753; June 29.
Thomas, Phillip G., Park Rise, Leatherhead, England. Grinding and/or lapping machine. 2,322,896; June 29.
Thompson, Frank W., New Philadelphia, Ohio. Stovepipe seam. 2,323,256; June 29.
Thompson, Lincoln, Cheshire, and R. L. Stone, Hamden, assignors to The Soundscriber Corporation, New Haven, Conn. Stepback mechanism for phonograph transcribers. 2,323,257; June 29.
Thompson Products, Incorporated. (See Venditty, Anthony, assignor.)
Thompson, Udric, Jr., New York, N. Y. Apparatus for loading high explosive shells. 2,323,258; June 29.
Tobacco Retention Corporation. (See Shand, William, assignor.)
Tokheim Oil Tank and Pump Company. (See Oberly, Chester C., assignor.)
Toorks, William P., Salem, Mass., assignor to Sylvania Electric Products Inc. Luminescent material and method of preparing the same. 2,323,284; June 29.
Torresi, Mario. (See Ferrari, D., and Torresi.)
Transit Research Corporation. (See Piron, Emil H., assignor.)
Traylor Vibrator Company, The. (See Baird, Clyde W., assignor.)
Trepagnier, Joseph H. (See Sparks, C. E., and Trepagnier.)
Triana, Rafael, assignor to M. A., L., and L. Gersten, co-partners doing business as Gersten Brothers, New York, N. Y. Knockdown cabinet or the like. 2,323,103; June 29.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Ring binder. 2,323,285; June 29.
Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
Tryon, Philip F., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production oy hydroxylammonium sulphate. 2,322,958; June 29.
Ubbelohde, Leo, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Cellulose product. 2,322,981; June 29.
Udale, Stanley M. (See Holley, G. M., Olson, and Udale.)
Undy, Gustav E., assignor to Weltronic Corporation, Detroit, Mich. Timing control system. 2,322,754; June 29.
Union Steel Products Co. (See Bitney, Dewey H., assignor.)
Union Switch & Signal Company, The. (See Blosser, Herman G., assignor.)
United States Gypsum Company. (See McNiel, William M., assignor.)
United States Rubber Company. (See Clayton, William J., assignor.)
United States Rubber Company. (See Hazell, Eardley, assignor.)
United States Rubber Company. (See Wikle, George F., assignor.)
United States Rubber Company. (See Young, H. A., and Wendes, assignors.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Watson, Kenneth M., assignor.)

Universal Railway Devices Company. (See Camp, P. B., and Bartsch, assignors.)
Urfer, Adolf, New Rochelle, N. Y. Altimeter regulator. 2,323,166; June 29.
Van Brunt Manufacturing Company, The. (See Hyland, William A., assignor.)
Vanden Bergh, Alfred, Green Bay, Wis. Drive for paper manufacturing machines. 2,323,168; June 29.
Van Dresser, William C., Detroit, Mich. Visor structure. 2,322,898; June 29.
Van den Bogaerde, Arthur, Jr., Los Angeles, Calif. Leash stick. 2,322,897; June 29.
Van Vulpen, John, assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Ventilated vapor regulator. 2,323,259; June 29.
van Zelm, Willem D. Rutton assignor to The Glenn L. Martin Company Middle River, Md. Cargo landplane. 2,323,279; June 29.
Vapor Car Heating Company. (See Parks, P. B., and Lehane, assignors.)
Vapor Car Heating Company. (See Van Vulpen, John, assignor.)
Varga, Andor, Ilkley, near Leeds, England. Treatment of webs or fleeces produced on carding engines. 2,323,167; June 29.
Venditty, Anthony, Detroit, Mich., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Fastener. 2,323,260; June 29.
Vigo, David, Ann Arbor, Mich. Water cycle. 2,323,261; June 29.
Von Poser, Gottlieb, Wiesbaden, Germany; vested in the Alien Property Custodian. Photographic printing material. 2,322,982; June 29.
Voorhies, Roy K., Los Angeles, Calif., assignor to Safride, Ltd., Carson City, Nev. Safety device for occupants of vehicles. 2,322,755; June 29.
Wagenhals, Edward R., Summit, N. J., assignor to Radio Corporation of America. Plating metal bodies. 2,323,169; June 29.
Wagenseil, Ludwig. (See Neugebauer, F., Hartmann, and Wagenseil.)
Wagner, Gustave H. (See Wagner, Harold A. and G. H.)
Wagner, Harold A., Portland, Oreg. Automatic timing device. 2,322,899; June 29.
Wagner, Harold A. and G. H., Portland, Oreg. Concrete mixer. 2,322,900; June 29.
Wagner, Hermann. (See Orthner, L., Balle, Dittus, and Wagner.)
Waldo, John E., assignor to Armstrong Manufacturing Co., Bridgeport, Conn. Die stock. 2,322,901; June 29.
Walker, Joseph F. (See Schwartz, G. L., and Walker.)
Wallder, Victor T., Nutley, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impregnation. 2,322,756; June 29.
Walter, Frederick R., administrator. (See Conradson, Conrad M.)
Walter, Robert. (See Arens, H., Kúmetat, Walter, and Wilmanns.)
Wappler, Frederick C., New York, N. Y. Apparatus for making tubular bodies. 2,322,902; June 29.
War, Government of the United States as represented by the Secretary of. (See Ocker, William C., assignor.)
War, United States of America as represented by the Secretary of. (See Stuller, René R., assignor.)
Ward, Ralph E., Erie, Pa. Mold for helical springs. 2,322,757; June 29.
Ward, Ralph E., Erie, Pa. Mold for helical springs. 2,323,286; June 29.
Warren, Harry L., Kinmundy, Ill. Material spreader attachment. 2,323,262; June 29.
Washam, Patrick H., Jr., Pittsburgh, Pa. Uncoiler. 2,323,104; June 29.
Washburne, George F., New York, N. Y., assignor to The Egry Register Company, Dayton, Ohio. Sales book. 2,322,983; June 29.
Wassell, Harold J. H., Chelmsford, England, assignor to Radio Corporation of America. Spot adjusting mechanism for radio transmitters. 2,323,170; June 29.
Watson, Kenneth M., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,322,984; June 29.
Wayland, Edwin M., Covesville, Va. Preparing wet peaches and the like for defuzzing. 2,323,171; June 29.
Weatherhead Company, The. (See Stecher, H. D., and Paquin, assignors.)
Wedderburn, Frank A., Vienna, Va. Polishing cloth. 2,323,263; June 29.
Wegener, Gustav, Berlin, Germany; vested in the Alien Property Custodian. Synchronizing arrangement. 2,322,985; June 29.
Weiss, Gerhart, and L. Frank, New York, N. Y. Thread removing and disk cleaning mechanism. 2,322,986; June 29.
Weiss, Louis, St. Louis, Mo. Construction of cooling units. 2,323,264; June 29.
Welch, Arthur R., Hoquiam, Wash. Assembling plywood. 2,323,105; June 29.
Weltronic Corporation. (See Undy, Gustav E., assignor.)
Wendes, John C. H. (See Young, H. A., and Wendes.)
Werner, Calvin J. (See Bradford, Z. C., Werner, and Sleeter.)
West, Herbert J., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Tanning. 2,322,959; June 29.
West, Perry, Lexington, Ky. Turbine system. 2,322,987; June 29.
Westinghouse Electric & Manufacturing Company. (See Bryant, Ogro N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Koch, Gustav H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sparkes, Harry P., assignor.)
Wettstein, Albert. (See Miescher, K., and Wettstein.)
Wheeler, Clarence M. (See Sadler, Edward P., assignor.)
Whiteman, Roy D., Piedmont, Kans. Collapsible building. 2,323,106; June 29.
Whittaker, Edward H., Jersey City, N. J. Fluorescent lamp. 2,323,172; June 29.
Widell, Emil G., Bloomfield, N. J., assignor to Radio Corporation of America. Electrode wire. 2,323,173; June 29.
Wiegand, Edwin L. (See Horsfield, Basil, assignor.)
Wiegand, Edwin L., Pittsburgh, Pa. Electric heating. 2,322,988; June 29.
Wikle, George F., Grosse Pointe, Mich., assignor to United States Rubber Company, New York, N. Y. Apparatus for stacking sheet material. 2,323,174; June 29.
Wilcox, Mary P., executrix. (See Wilcox, William D.)
Wilcox, William D., Pekin, Ill., deceased; M. P. Wilcox, executrix, assignor to Oil and Gas Research, Inc., Wilmington, Del. Making carbon black and mixtures of carbon monoxide and hydrogen from hydrocarbon gases. 2,322,989; June 29.
Wilczynski, Stanley A. (See Senesac, Adelor T., assignor.)
Wilkey, John E. (See Palm, J. V. O., Anthony, and Wilkey.)
Wilkoff, Howard M., Worcester, Mass. Ignition harness. 2,322,903; June 29.
Willetts, Paul G., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Container for molten glass. 2,323,265; June 29.
Williams, Burdel S., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Casement window adapter. 2,322,904; June 29.
Williamson, Hilding V., and W. F. Micheltree, assignors, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Fire extinguishing method and apparatus. 2,322,758; June 29.
Wilmanns, Gustav. (See Arens, H., Kúmetat, Walter, and Wilmanns.)
Wilson, Bertha C., Evansville, Ind. Office desk. 2,323,107; June 29.
Wilson, Frank H. (See Cooper, H. S., assignor.)
Wilson, Herbert O., Benton Township, Columbia County, Pa., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Electrical control system. 2,323,266; June 29.
Wittkuhns, Bruno A., Summit, N. J., and A. Shayne, New York, N. Y., assignors to Sperry Products, Inc. Strain gauge for rolling mills and the like. 2,323,267; June 29.
Wolfram, Arthur, Frankfort-on-the-Main-Roedelheim, and H. Jahn, Bad Soden in Taunus, Germany; vested in Alien Property Custodian. Condensation products and preparing them. 2,322,990; June 29.
Wonder Weave, Incorporated. (See Cosman, Claus A., assignor.)
Wood, Fremont E., Cristo, Cuba. Metallurgical mill reagent feeder. 2,323,268; June 29.
Wood's, T. B., Sons Company. (See Davis, Willard R., assignor.)
Wright, Russell W., Sioux City, Iowa. Automatically closing pressure release valve. 2,322,960; June 29.
Wulzinger, Karl. (See Boie, H., and Wulzinger.)
Wunsch, Wilhelm H. G., and R. J. A. Rolland, Brussels, Belgium; vested in the Alien Property Custodian. Carburetor for obtaining gaseous mixtures for internal combustion engines. 2,322,991; June 29.
Wyld, Reginald G. (See Neeson, C. R., and Wyld.)
Yingling, Frank B., Hamilton, Ohio. Two-cycle engine. 2,322,961; June 29.
Yoder, Lester, assignor to Iowa State College Research Foundation, Ames, Iowa. Isolation of sterols from fats and oils. 2,322,906; June 29.
Young, Alexander, Glasgow, and I. G. Stewart, Edinburgh, Scotland. Manufacture of woven plush or pile fabrics. 2,323,269; June 29.
Young, Howard A., Westfield, N. J., and J. C. H. Wendes, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Wear testing machine. 2,323,175; June 29.
Zapf, Georg, Berlin-Charlottenburg, Germany; vested in The Alien Property Custodian. Telephone system. 2,322,992; June 29.
Zell, Julius S., Portland, Oreg. Vertically adjustable bifocal spectacles. 2,322,993; June 29.
Zervas, Paul, Cologne Mulheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. 1-acylaminoaryl-5-pyrazolones. 2,322,907; June 29.
Zielesch, Alvin, and S. W. Smith, Portland, Oreg. Dry ice refrigerating unit. 2,323,270; June 29.
Zimarik, Louis, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Flexible conduit coupling for shell-less washers and the like. 2,322,909; June 29.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Hair drying machine. S. C. Pritchard. Re. 22,339; June 29.

LIST OF DESIGN INVENTIONS

Bottle. S. D. Schneier. 135,894; June 29.
Bottle. H. H. Dawson. 135,898; June 29.
Button. C. H. Frank. 135,875; June 29.
Cabinet, Portable refrigerating. L. F. Clerc. 135,896; June 29.
Cap for a musical instrument mouthpiece. A. Brilhart. 135,886; June 29.
Clip, Earring. C. Michael. 135,873; June 29.
Dress. F. C. Brogan. 135,885; June 29.
Engine starter. R. M. Heintz. 135,899; June 29.
Fastener or similar article, Belt. I. Geist. 135,876; June 29.
Folder or similar article, Correspondence. J. E. Schenker. 135,893; June 29.
Game board. W. B. Schwer. 135,880; June 29.
Game table. W. A. Schrader. 135,895; June 29.
Harvester, Corn. C. E. Everett. 135,874; June 29.
Hat. F. Reichman. 135,906; June 29.
Headstock for lathes. W. M. McConnell. 315,905; June 29.
Holder for garbage cans. F. Crossley. 135,897; June 29.
Jar, Cookie. L. E. Bauer. 135,889; June 29.
Lewis for burial vault parts, Strap. W. W. Haase. 135,878; June 29.
Mask for stuffed toys or similar article. J. Swedlin. 135,882; June 29.
Pen and pencil clip or the like, Fountain. D. Kahn. 135,890; June 29.
Portfolio. J. G. Rouner. 135,892; June 29.
Shield, Eye. S. Ghinsberg. 135,877; June 29.
Shoe rack. E. H. Zimmerman. 135,888; June 29.
Slat bedspring, Flexible. M. H. Pulford. 135,887; June 29.
Stand and induction device for telephones, Combined. L. D. Norton. 135,891; June 29.
Suit. A. Gruber. 135,902; June 29.
Suit, Lady's. S. Kuznetz. 135,903; June 29.
Tailstock for lathes. W. M. McConnell. 135,904; June 29.
Toy figure or similar article. E. F. Rebholz. 135,879; June 29.
Toy or similar article, Stuffed. J. Swedlin. 135,881; June 29.
Tray, Ash. W. E. Powers. 135,900; June 29.
Uniform. A. M. Berger. 315,901; June 29.
Vehicle, Child's. F. Williams. 135,883; June 29.
Vehicle, Coaster. F. Williams. 135,884; June 29.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF JUNE, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adapter, Casement window. B. S. Williams. 2,322,904; June 29.
Adhesive and making the same. S. G. Saunders and H. Morrison. 2,322,886; June 29.
Adhesive tape dispensing device. P. S. Madsen. 2,322,950; June 29.
Aeronautical engine. C. C. De Pew. 2,323,281; June 29.
Air brake. R. S. Brown. 2,322,823; June 29.
Air conditioning. R. B. F. Crawford. 2,323,122; June 29.
Air conditioning and heating unit, Combined. W. W. Hallinan. 2,323,034; June 29.
Air distribution casing. J. C. Labbe and C. J. Duchamp. 2,323,139; June 29.
Airscrew. F. M. Thomas. 2,323,165; June 29.
Alcohol modified urea formaldehyde resins, Manufacturing. E. F. Siegel. 2,322,979; June 29.
Aldehyde condensation product of residual ethers of cashew nut shell liquid. M. T. Harvey. 2,323,131; June 29.
Alloy for grinding balls. H. S. Cooper. 2,323,120; June 29.
Altimeter regulator. A. Urfer. 2,323,166; June 29.
Amides, Preparation of. M. Katzman and A. K. Epstein. 2,322,783; June 29.
Amino aryl sulphonamides. A. Salomon. 2,322,974; June 29.
Amplifier, Microphone. A. J. Mastropole. 2,322,765; June 29.
Amplifying system. A. A. Roetken. 2,322,884; June 29.
Antenna feeder lead or line, Shielded. H. O. Roosenstein. 2,322,971; June 29.
Anvil for riveting guard ledger plates. H. G. Conner. 2,322,830; June 29.
Apparatus for applying coloring material to nails. H. M. Mabry. 2,323,145; June 29.
Apparatus for cutting paper sheets. P. Baur. 2,323,003; June 29.
Apparatus for forming bearings. W. S. Enderich and C. Eggenschwiler. 2,323,795; June 29.
Apparatus for heat curing materials such as rubber compounds, plastics, etc. C. E. Bennett. 2,323,191; June 29.
Apparatus for loading high explosive shells. U. Thompson, Jr. 2,323,258; June 29.
Apparatus for making tubular bodies. F. C. Wappler. 2,322,902; June 29.
Apparatus for obviating distortion in gummed margins of sheetlike articles. L. O. Hayes. 2,323,219; June 29.
Apparatus for stacking sheet material. G. F. Wikle. 2,323,174; June 29.
Apparatus for the extraction of liquids such as petrol and all other hydrocarbons contained in jellies or like products. J. F. P. E. Labour. 2,323,056; June 29.
Apparatus for the picking up and reproduction of sounds. A. May. 2,323,066; June 29.
Apparatus for the production of music. B. F. Miessner. 2,323,232; June 29.
Apparatus for the production of pulp from cellulosic material. J. B. Beveridge. 2,323,194; June 29.
Apparatus for tightening electrode joints. F. W. Brooke. 2,322,918; June 29.
Artificial fibers from fiber forming liquids, Production of. A. Formhals. 2,323,025; June 29.
Asparagus cutter. G. L. Dorland. 2,322,926; June 29.
Assemblying plywood. A. R. Welch. 2,323,105; June 29.
Automatic gain control. F. J. Faltico. 2,323,211; June 29.
Automatic lock slider for slide fasteners. A. E. Carlile. 2,322,826; June 29.
Automatic timing device. H. A. Wagner. 2,322,899; June 29.
Automatic weighing mechanism. T. B. Flanagan and R. T. Pounds. 2,323,023; June 29.
Automobile accessory. J. Fischer. 2,322,798; June 29.
Automobile top construction. J. Falcon. 2,322,839; June 29.
Axle for motor vehicles, Rigid rear. C. Borgward. 2,323,007; June 29.
Azo compounds and material colored therewith. J. B. Dickey. 2,322,925; June 29.
Baby carriage, Foldable. L. Gottfried. 2,322,931; June 29.
Balance tester, Vehicle wheel. U. A. Inman. 2,322,939; June 29.
Bank, Portable novelty. H. Hockey and R. Breen. 2,323,221; June 29.
Bar for sintering machines, Grate. W. H. Moriarty. 2,322,873; June 29.
Barrier release. C. H. McMillan. 2,323,150; June 29.
Barrier, Starting. R. M. Hite. 2,322,936; June 29.
Bearing. J. V. O. Palm, J. K. Anthony, and J. E. Wilkey. 2,322,771; June 29.
Belt splice. W. R. Perry. 2,322,967; June 29.
Binder, Ring. C. D. Trussell. 2,323,285; June 29.
Bit holder and bit, Mining chain. F. L. Fulke. 2,322,929; June 29.
Blade, Safety razor. S. H. Benjamin. 2,322,744; June 29.
Bolt. R. W. Ball. 2,322,811; June 29.
Book lock binder. J. J. Donato and F. L. Hardin. 2,323,123; June 29.
Book, Sales. G. F. Washburne. 2,322,983; June 29.
Bottle cap applying machine. A. A. Barnes and J. F. Price. 2,322,812; June 29.
Bottle crate. D. H. Bitney. 2,322,917; June 29.
Bottle opener, Lever type. C. E. Anderson. 2,323,080; June 29.
Brake: *See*—
Air brake. Railway brake.
Brake mechanism. W. A. Eaton. 2,323,207–8; June 29.
Brassière and breast pad. L. H. Loeffel. 2,323,143; June 29.
Breather plug for electric motors. D. H. Manney. 2,323,146; June 29.
Bridge plug and packer, Retrievable combination. B. M. Davis. 2,323,085; June 29.
Building construction unit comprising light-polarizing material. E. H. Land. 2,323,059; June 29.
Bus duct system. W. H. Frank. 2,322,799; June 29.
Cabinet: *See*—
Refrigerator cabinet.
Calculating machine storage device and indicator therefor. R. Anschütz and R. Gröschel. 2,322,996; June 29.
Calculator, Listing. L. P. Crosman. 2,323,205; June 29.
Cam grinding machine. H. E. Balsiger. 2,323,189; June 29.
Camera, Photographic. L. Bertele. 2,323,005; June 29.
Cameras, Quickly ready pouch for snapshot. E. Kupferschmid. 2,323,053; June 29.
Can treating machine. T. Begg. 2,323,190; June 29.
Car: *See*—
Rail car.
Car and electric train line coupler. E. A. Larsson. 2,323,060; June 29.
Car construction. F. Koch and S. H. Badgett. 2,322,941; June 29.
Carbon black and mixtures of carbon monoxide and hydrogen from hydrocarbon gases, Making. W. D. Wilcox. 2,322,989; June 29.
Carburetor for obtaining gaseous mixtures for internal combustion engines. W. H. G. Wunsch and R. J. A. Rolland. 2,322,991; June 29.
Carburetor starting device. G. M. Holley, E. Olson, and S. M. Udale. 2,323,222; June 29.
Cargo landplane. W. D. Van Zelm. 2,323,279; June 29.
Carriage operating mechanism for accounting machines. J. T. Davidson. 2,323,012; June 29.
Carton, Egg. J. O'Reilly. 2,322,876; June 29.
Catalytic cracking process. L. de Florez. 2,323,206; June 29.
Catch. E. Borchers. 2,322,817; June 29.
Catheter, Self retaining. R. J. Limbert and C. J. Glaser, Jr. 2,322,858; June 29.
Catline apparatus for hoists. A. R. Maier. 2,323,095; June 29.
Cellulose product. L. Ubbelohde. 2,322,981; June 29.
Cellulose, Saccharifying. D. Ferrari and M. Toresi. 2,323,022; June 29.
Cellulosic materials, Production of improved. R. E. Reeves. 2,323,181; June 29.
Cement, Acidproof. H. R. Goodrich. 2,323,029; June 29.
Change speed gear. G. Meyer. 2,323,070; June 29.
Changeable sign. A. T. Senesac. 2,323,157; June 29.
Chemical treatment of paper. G. L. Schwartz and J. F. Walker. 2,322,887; June 29.
Chuck. H. M. Johnston and G. Sneddon, Jr. 2,323,091; June 29.
Circuit: *See*—
Electric circuit.
Cleaner: *See*—
Suction cleaner. Vacuum cleaner.
Closures for collapsible tubes and the like, Making. L. F. Rogers. 2,322,885; June 29.
Cloth, Polishing. F. A. Wedderburn. 2,323,263; June 29.
Clutching mechanism. O. E. Fishburn. 2,322,840; June 29.
Coat and trousers hanger. G. A. Higgins, Jr. 2,322,935; June 29.

Coffee maker. E. P. Sadler. 2,323,283; June 29.
Coin controlled vending machine. G. R. Sutherland. 2,323,255; June 29.
Cold diffuser. C. M. Ashley. 2,323,176; June 29.
Collapsible building. R. D. Whiteman. 2,323,106; June 29.
Collar fabric. T. L. Shepherd and W. Richardson. 2,322,889; June 29.
Color printing. P. Drewsen and J. R. Little. 2,322,927; June 29.
Color printing method. P. Drewsen and J. R. Little. 2,322,928; June 29.
Comminutor. C. W. Chase. 2,322,922; June 29.
Composition and method. J. F. Lontz. 2,322,759–60–1; June 29.
Compounds of calcium salicylate with pyrazolones, Double. H. Boie and K. Wulzinger. 2,323,193; June 29.
Compressor. P. Maniscalco. 2,323,068; June 29.
Computing and registering mechanism. P. J. McLaren. 2,322,767; June 29.
Concrete mixer. H. A. and G. H. Wagner. 2,322,900; June 29.
Condensation of an imide of a dicarboxylic acid with a polamine. H. Kroeper. 2,323,054; June 29.
Condensation product of formaldehyde and a terpene alcohol and a process of making it. M. T. Harvey. 2,323,129; June 29.
Condensation products and a process of preparing them. A. Wolfram and H. Jahn. 2,322,990; June 29.
Condenser: *See*—
Electrical condenser. Electrostatic condenser.
Conduit construction. H. B. Holthouse. 2,322,937; June 29.
Constant speed body. G. P. Luckey. 2,322,861; June 29.
Construction of cooling units. L. Weiss. 2,323,264; June 29.
Container: *See*—
Cream separating milk container. Display container.
Container. L. Esterow and A. Klein. 2,323,125; June 29.
Container and cap remover, Combination. G. C. Deane. 2,322,843; June 29.
Container for molten glass. P. G. Willetts. 2,323,265; June 29.
Control for aircraft, Lateral. F. M. Rogallo. 2,322,745; June 29.
Control system. R. D. Junkins. 2,323,180; June 29.
Controlling means for combined typewriting and calculating machines. R. Anschütz and F. Schmidt. 2,322,997; June 29.
Controlling the operation of vapor generators. G. Decker. 2,323,013; June 29.
Control system, Timing. G. E. Undy. 2,322,754; June 29.
Conveyer. R. B. McKinnis. 2,323,147; June 29.
Copper and ammonia from cuproammonium yarn, Removing. W. H. Furness. 2,322,778; June 29.
Cord winding device. G. E. Lofgren. 2,323,275; June 29.
Corn harvester, Self propelled. C. E. Everett. 2,323,087; June 29.
Counterbalance. C. W. Clements. 2,322,788; June 29.
Counterweight apparatus for elevators. S. L. Polack. 2,322,774; June 29.
Coupling. A. L. Parker. 2,322,877; June 29.
Coupling and controlling, Device. B. W. Carrington. 2,323,008; June 29.
Coupling for shell-less washers and the like, Flexible conduit. L. Zimarik. 2,322,909; June 29.
Crawler tractor. M. E. Burns and G. M. Bonnell. 2,322,919; June 29.
Cream separating milk container. E. Hanson. 2,323,036; June 29.
Curler, Hair. B. A. Sterling. 2,323,254; June 29.
Current supply system. W. H. Perkins. 2,322,955; June 29.
Curtain rod. A. Birnie. 2,323,112; June 29.
Cut-off system, Trouble. F. M. McCarthy. 2,322,864; June 29.
Cutter: *See*—
Asparagus cutter. Universal corn cutter.
Cyclopentano-polyhydrophenanthrene compounds and making the same. W. Logemann, H. H. Inhoffen and H. Eysenbach. 2,322,809; June 29.
Damper regulator. L. E. Heasley and W. C. De Roo. 2,323,038; June 29.
Decorticating machine. W. A. Boyce. 2,323,280; June 29.
Dehydrator. H. D. Stecher and J. N. Paquin. 2,323,160; June 29.
Dehydroaromatization and hydro-forming. R. F. Marschner, L. Heard and A. G. Oblad. 2,322,863; June 29.
Dehydrogenation process. G. E. Liedholm, R. M. Cole and I. I. Shultz. 2,322,857; June 29.
Device for liquid fuel burners, Liquid spraying. A. Bargeboer. 2,323,001; June 29.
Device for the protection of the guiding surfaces of the slides of machine tools. M. H. Rumpf. 2,322,972; June 29.
Device for withdrawing brake air from Diesel engine cylinders. K. Schwaiger. 2,322,978; June 29.
Device, Spring shackle. B. Martins. 2,323,065; June 29.
Die stock. J. E. Waldo. 2,322,901; June 29.
Disk brake for use in motor cars, airplanes, and the like. H. Klaue. 2,323,052; June 29.
Dispensing device. M. Miller. 2,323,233; June 29.
Dispensing tool. J. A. Graf. 2,323,217; June 29.
Dispenser: *See*—
Liquid dispenser. Lubricating dispenser.
Disperser for pipes, Smoke. F. T. Ritter. 2,323,243; June 29.
Display container. J. V. Horr. 2,322,849; June 29.
Display device. G. F. Ireland. 2,323,090; June 29.
Display sign. G. H. Evans. 2,322,838; June 29.
Distillation. J. W. Jewell. 2,323,047; June 29.
Drawing compound. H. A. Montgomery. 2,323,071; June 29.
Dredge. A. D. Clements. 2,322,829; June 29.
Drill: *See*—
Grain drill. Twist drill.
Drilling implement. W. Gerstenkorn. 2,323,027; June 29.
Drive for paper manufacturing machines. A. Vanden Bergh. 2,323,168; June 29.
Dye, Trisazo. C. E. Sparks and J. H. Trepagnier. 2,322,750; June 29.
Dyes for cellulosic fibers, Soluble trisazo. S. S. Rossander. 2,322,746; June 29.
Dynamo for bicycles, Hub-operated. A. Rabl. 2,322,969; June 29.
Electric circuit. B. M. Oliver. 2,322,875; June 29.
Electric furnace. O. Junker, E. Breuer and K. Knauff. 2,323,051; June 29.
Electric fuse. E. W. Garrison, Jr. 2,323,213; June 29.
Electric heating. E. L. Wiegand. 2,322,988; June 29.
Electric motor cooling. P. T. Hahn. 2,322,932; June 19.
Electric organ system. A. R. Rienstra. 2,323,242; June 29.
Electric service installation. H. P. Sparkes. 2,323,252; June 29.
Electric switch. E. E. Johnson. 2,323,050; June 29.
Electric switch. O. Richardson, J. R. Caldwell and W. A. Gussow. 2,323,241; June 29.
Electrical condenser. W. C. Edmundson. 2,323,124; June 29.
Electrical conductor. M. F. Peters. 2,322,773; June 29.
Electrical contact assembly for use in electron discharge devices. K. M. McLaughlin. 2,323,148; June 29.
Electrical control system. H. O. Wilson. 2,323,266; June 29.
Electrical heating element. B. Horsfield. 2,323,089; June 29.
Electrical relay. H. G. Blosser. 2,323,113; June 29.
Electrical shaving device. E. G. Berg. 2,323,084; June 29.
Electrode for piezoelectric crystal oscillators. J. Gruetzmacher. 2,323,030; June 29.
Electrolytic decomposition of metal compounds. W. Honsberg. 2,323,042; June 29.
Electrolytic parting. J. O. Betterton, A. J. Phillips and H. B. Linford. 2,322,786; June 29.
Electromagnetic counting device. R. Nordenswan. 2,323,235; June 29.
Electron discharge device and system. H. A. Iams. 2,322,807; June 29.
Electrostatic condenser. W. Dorn. 2,323,020; June 29.
Emulsion, Photographic. H. Arens, K. Kumetat, R. Walter, and G. Wilmanns. 2,323,187; June 29.
Engine: *See*—
Aeronautical engine. Two-cycle engine.
Internal combustion engine.
Engine control. F. T. Christian. 2,323,202; June 29.
Engine starter gearing. J. E. Buxton. 2,323,196; June 29.
Engine starter gearing. D. P. Kearney. 2,322,964; June 29.
Esters of ethers of polyhydroxylic compounds, Partial. K. R. Brown. 2,322,821; June 21.
Extensible fire ladder and elevator. M. Honig. 2,323,041; June 29.
Extractor: *See*—
Juice extractor.
Extracting and protecting device for cartridges or shells. E. L. Allen and H. B. Muster. 2,322,810; June 29.
Eye testing instrument. W. F. Peck and A. A. Gradisar. 2,322,878; June 29.
Fabric, Coated. F. T. Peters. 2,322,953; June 29.
Fabrics, Manufacture of woven plush or pile. A. Young and I. G. Stewart. 2,323,269; June 29.
Fastener: *See*—
Panel fastener. Slide fastener.
Fastener. A. E. Bryce. 2,323,197; June 29.
Fastener. A. Venditty. 2,323,260; June 29.
Fastener device. O. J. Poupitch. 2,322,776; June 29.
Fastening device. G. H. Koch. 2,322,803; June 29.
Fats and oils, Isolation of sterols from. L. Yoder. 2,322,906; June 29.
Feed and discharge arrangement for conveyers. K. E. Bemis. 2,323,083; June 29.

Feeder: *See*—
Mercury feeder. Poultry feeder.
Metallurgical mill reagent feeder.
File, Record holder. J. E. Schenker. 2,323,245; June 29.
Filler composition. H. F. Gardner. 2,322,930; June 29.
Film, Motion picture. I. M. Terwilliger. 2,322,752; June 29.
Filter: *See*—
Oil filter.
Finger and tip, Detector. A. Cederlund. 2,322,828; June 29.
Fire extinguishing composition of matter. E. W. Hanks. 2,322,781; June 29.
Fire extinguishing method and apparatus. H. V. Williamson and W. F. Mitcheltree. 2,322,758; June 29.
Fish scaling device. C. Schirmer. 2,323,101; June 29.
Fishing tackle. K. A. McDowell. 2,323,096; June 29.
Fixture, Assembling and testing. W. J. Lammerding. 2,323,057; June 29.
Flag mounting. D. Snyder. 2,322,891; June 29.
Flash hider for automatic weapons. A. M. Jackson. 2,322,806; June 29.
Flatiron base. C. R. Talmage. 2,323,162; June 29.
Float. G. F. Brockett. 2,322,818; June 29.
Floating automatic signaling apparatus. H. G. Lustfield. 2,323,064; June 29.
Floor covering, and making the same. S. Caplan. 2,323,118; June 29.
Floor surfacing machine. E. L. Ballard. 2,323,082; June 29.
Flotation tank. A. H. Johnson. 2,323,223; June 29.
Fluorescent lamp. E. H. Whittaker. 2,323,172; June 29.
Fluorescent light fixture and shade. F. C. Baker. 2,323,002; June 29.
Folding bed and tent support, Combination. A. A. Gregg. 2,323,127; June 29.
Frame: *See*—
Side wall stack frame. Vehicle frame.
Frame for glare shields. S. Murata. 2,323,072; June 29.
Fuel burner system. J. A. Deubel. 2,322,792; June 29.
Fuel injection for internal combustion engines. G. Amery. 2,323,184; June 29.
Furnace: *See*—
Electric furnace.
Fuse construction. S. I. Lindell. 2,323,229; June 29.
Fuse construction. W. C. Rudd. 2,323,006; June 29.
Galvanometer. H. T. Boeker. 2,322,816; June 29.
Gaseous fuel generator. W. E. and D. B. Humrichouse. 2,323,274; June 29.
Gauge for rolling mills and the like. Strain. B. A. Wittkuhns and A. Shayne. 2,323,267; June 29.
Gauging apparatus. G. F. Pembroke. 2,322,954; June 29.
Gear: *See*—
Change speed gear.
Gear finishing tool. R. S. Drummond. 2,322,793; June 29.
Generator: *See*—
Gaseous fuel generator.
Glass severing apparatus. W. P. Stuckert. 2,323,182; June 29.
Glass tube baking apparatus. R. M. Gardner. 2,323,214; June 29.
Governor for internal combustion engines. M. Mallory. 2,322,764; June 29.
Grader, Road. F. E. Arndt. 2,322,998–9; June 29.
Grain drill. W. A. Hyland. 2,323,044; June 29.
Grating. R. J. Barry. 2,323,271; June 29.
Grinding and/or lapping machine. P. G. Thomas. 2,322,896; June 29.
Guide for molten silicates. M. Auwärter, A. Jedele, and K. Ruthardt. 2,323,000; June 29.
Guide for strip coilers. C. J. Klein. 2,322,784; June 29.
Guide roller support. A. Schroder and O. Falk. 2,322,977; June 29.
Gun. W. T. Gorton. 2,322,780; June 29.
Hair clipper. F. R. Jenkins. 2,323,046; June 29.
Hand crank mechanism. R. M. Heintz and P. F. Scofield. 2,323,135; June 29.
Handle: *See*—
Mattress handle.
Handle for milk cans. P. W. Mollenhauer. 2,322,871; June 29.
Hanger: *See*—
Coat and trousers hanger.
Harness, Ignition. H. M. Wilkoff. 2,322,903; June 29.
Hats, Dyeing panama. C. M. Rickus, W. L. Braum, and S. G. Hoffman. 2,322,968; June 29.
Hearing aid device. E. C. Nicholides. 2,322,952; June 29.
Heat control time switch. B. Loeffler and J. S. Pelan. 2,322,860; June 29.
Heating system. R. E. Moore. 2,322,872; June 29.
High speed mill. W. A. McLean. 2,323,149; June 29.
Hinge, Automobile door. J. F. Harmon and G. H. Johnson. 2,322,933; June 29.
Holder: *See*—
Key holder.
Holder for laundry marking, Keying pin. W. H. Hewitt. 2,323,220; June 29.
Hopper, Coating. E. K. Carver. 2,322,827; June 29.
Humidifier. G. R. Siefken. 2,323,158; June 29.
Hydraulic gate structure and the like. J. P. Growdon and D. J. Bliefuss. 2,322,846; June 29.
Hydraulic resistance apparatus. O. N. Bryant. 2,323,115; June 29.
Hydrocarbon conversion. G. Egloff. 2,322,794; June 29.
Hydrocarbon conversion. K. M. Watson. 2,322,984; June 29.
Hydrocarbons, Conversion of. F. E. Frey. 2,322,800. June 29.
Hydrocarbons, Treatment of. J. W. Jean. 2,322,850; June 29.
Hydrohalide, Rubber. T. M. Andrews and H. F. Reeves, Jr. 2,323,185; June 29.
Hydroxylammonium sulphate, Production. P. F. Tryon. 2,322,958; June 29.
Impregnation. V. T. Wallder. 2,322,756; June 29.
Impulse sender. H. Döhle. 2,323,019; June 29.
Incendiary bomb handling, Device. J. H. Doak. 2,323,086; June 29.
Indicator: *See*—
Liquid level indicator.
Universal measuring indicator.
Insignia handkerchief and arm band, Combination. J. G. Langer. 2,322,854; June 29.
Internal combustion engine. W. Glamann. 2,323,028; June 29.
Internal combustion engine construction. M. Essl. 2,323,209; June 29.
Iron: *See*—
Steam pressing iron.
Ironer and drier, Direct fired single tube flatwork. T. J. Sullivan. 2,322,957; June 29.
Isolation of dicarboxylic acids from their mixtures. W. Lehmann and R. Schröter. 2,323,061; June 29.
Joint for dolls or similar toys, Articulated. M. Hirsch. 2,323,040; June 29.
Juice extractor. W. De Back. 2,322,791; June 29.
Key holder. H. H. Campbell. 2,322,920; June 29.
Knockdown cabinet or the like. R. Triana. 2,323,103; June 29.
Laminated article. J. B. Dickson and L. E. Burns. 2,322,962; June 29.
Lamp: *See*—
Fluorescent lamp. Luminescent lamp.
Lamp housing, Ventilated. A. Llabastre. 2,322,945; June 29.
Leash stick. A. Van den Bogaerde, Jr. 2,322,897; June 29.
Lens grinding or polishing machine. D. Taylor. 2,323,164; June 29.
Lighting fixture for sewing machines. A. Llabastre. 2,322,944; June 29.
Liquid dispenser. C. C. Oberly. 2,322,966; June 29.
Liquid level indicator. F. P. Scully and A. E. Mathey. 2,323,156; June 29.
Lister. W. H. Silver. 2,323,278; June 29.
Locater for submerged aircraft and the like. J. A. Tarburton. 2,323,163; June 29.
Lock and alarm for windows and the like, Combined. F. H. Bock. 2,322,815; June 29.
Lock mechanism, Door. R. W. Springer. 2,322,892; June 29.
Lock slider. E. C. Hartley. 2,322,847; June 29.
Lubricant. C. M. Loane and J. W. Gaynor. 2,322,859; June 29.
Lubricating dispenser. J. M. Hothersall. 2,322,808; June 29.
Luminescent lamp. H. W. Leverenz. 2,323,142; June 29.
Luminescent material. C. E. Burnett. 2,323,116; June 29.
Luminescent material and preparing the same. W. P. Toorks. 2,323,284; June 29.
Machine for cutting leg bands. E. J. Powell. 2,323,100; June 29.
Machine for making certain rubber goods. F. J. Maywald, Jr. 2,322,766; June 20.
Machine for setting or driving rivets and the like. W. C. Dent. 2,323,015–7; June 29.
Machine for treating cigarettes. W. Shand. 2,322,747; June 29.
Machine tool attachment. C. M. Conradson. 2,323,010; June 29.
Magneto. H. Ruppe. 2,322,973; June 29.
Magneto ignition. A. Alessandri. 2,322,994; June 29.
Maintaining the original characteristics of substances. M. L. Staples. 2,323,102; June 29.
Mask, Aviation. A. H. Bulbulian. 2,323,198; June 29.
Mask for aviation or clinical purposes. A. W. Bulbulian. 2,323,199; June 29.
Material spreader attachment. H. L. Warren. 2,323,262; June 29.
Mattress handle. J. E. Allen. 2,322,995; June 29.
Measuring arrangement adapted to check or measure mismatching. H. E. Paul. 2,323,076; June 29.
Mechanical arm. N. F. Foner. 2,323,088; June 29.
Mechanism for phonograph transcribers, Stepback. L. Thompson, and R. L. Stone. 2,323,257; June 29.
Mercury feeder. M. Merz. 2,322,866; June 29.

Metal bodies, Plating. E. R. Wagenhals. 2,323,169; June 29.
Metallurgical mill reagent feeder. F. E. Wood. 2,323,268; June 29.
Method and apparatus for determining liquid level. D. G. C. Hare. 2,323,128; June 29.
Method and apparatus for melting metals. J. B. Brennan. 2,322,787; June 29.
Method and apparatus for raising and permanently supporting heavy structures. T. P. Lenahan. 2,322,855; June 29.
Method of and apparatus for testing coils. L. E. Krebs. 2,322,853; June 29.
Method and apparatus for the production of music. F. D. Merrill, Jr. 2,323,231; June 29.
Method of and machine for eviscerating fish. P. Danielsson. 2,322,831; June 29.
Mill: *See*—
High speed mill.
Mitten. J. M. Johanson. 2,323,136; June 29.
Mixer: *See*—
Concrete mixer.
Moistener, Envelope and stamp. C. E. Baylor. 2,323,004; June 29.
Mold for helical springs. R. E. Ward. 2,322,757; June 29.
Mold for helical springs. R. E. Ward. 2,323,286; June 29.
Molding means. W. De Laney. 2,323,014; June 29.
Monoesters of inner ethers of hexahydric alcohols. K. R. Brown. 2,322,820; June 29.
Mononitriles of dicarboxylic acids, Manufacture of. B. S. Biggs. 2,322,914; June 29.
Mop construction. N. B. Greenleaf. 2,323,031; June 29.
Motor: *See*—
Synchronous motor. Trigger motor.
Transformer motor. Windshield cleaner motor.
Motor actuated device, Heat. H. E. Malone. 2,322,762; June 29.
Motor mount. T. E. Pilson. 2,323,153; June 29.
Motors, Making. G. P. Daiger. 2,322,924; June 29.
Mounting: *See*—
Flag mounting.
Multicolored motion pictures with sound track, Production of. W. Schneider, F. Kuhbier, and N. Senger. 2,323,246; June 29.
Multithrow relay. De W. R. Goddard. 2,323,126; June 29.
Nut guard. R. Lambert-Carez. 2,323,058; June 29.
Obstetrical instrument. E. F. Alleyne. 2,323,183; June 29.
Office desk. B. C. Wilson. 2,323,107; June 29.
Oil and water emulsion containing electrolytes. K. R. Brown. 2,322,822; June 29.
Oil cooling system Compressor. C. R. Neeson and R. G. Wyld. 2,322,874; June 29.
Oil filter. A. J. Metcalf. 2,323,152; June 29.
Oil filter. R. H. Pennebaker. 2,322,772; June 29.
1-Acylaminoaryl-5-pyrazolones. P. Zervas. 2,322,907; June 29.
Ores, Concentration of sylvinite. A. T. Cole, J. B. Duke, and K. F. Schilling. 2,322,789; June 29.
Oxalic acid, Manufacture of. M. J. Brooks. 2,322,915; June 29.
Oxygen regulator. W. A. Reichel. 2,322,883; June 29.
Package dyeing machine. W. E. H. Bell. 2,322,743; June 29.
Packed type expansion joint. R. Hall and H. R. Rhodes. 2,323,179; June 29.
Panel connection. R. J. Barry. 2,323,272; June 29.
Panel connection. R. J. Barry. 2,323,273; June 29.
Panel fastener. H. W. Kost. 2,322,852; June 29.
Paper bottle. W. and H. H. Pelzer. 2,323,078; June 29.
Paper hanger's tear plate. A. G. Johnson. 2,323,048; June 29.
Paper, Producing high wet strength. G. L. Schwartz and J. F. Walker. 2,322,888; June 29.
Peaches and the like for defuzzing, Preparing wet. E. M. Wayland. 2,323,171; June 29.
Photographic apparatus in detached parts. A. Claudot and A. Mark. 2,323,009; June 29.
Photographic printing material. G. von Poser. 2,322,982; June 29.
Pickling, curing, and preserving fruits and vegetables. A. Pollak. 2,322,880; June 29.
Pin and socket connection. M. Litwin, B. Milner and J. Ellert. 2,322,947; June 29.
Piston head. F. Neugebauer, E. Hartmann and L. Wagenseil. 2,323,074; June 29.
Pitter, Fruit. O. W. Johnson. 2,323,137; June 29.
Plow bottom. H. N. Baker. 2,323,177; June 29.
Plug for water pipes, Emergency. G. C. French. 2,322,842; June 29.
Pole piece assembly. Z. C. Bradford, C. J. Werner and E. B. Sleeter. 2,323,114; June 29.
Polishing device. L. and A. Mintzes. 2,323,098; June 29.
Polymerized chloroprene-cashew nut shell liquid composition. M. T. Harvely. 2,323,130; June 29.
Portable receptacle. J. H. Levin. 2,323,093–4; June 29.
Poultry feeder. J. J. Carmo. 2,323,117; June 29.
Power filer. W. E. Atkinson. 2,323,188; June 29.
Power transmission device element. W. R. Davis. 2,322,832; June 29.
Pregnane compounds and process of making same, Saturated and unsaturated. K. Miescher and A. Wettstein. 2,323,276–7; June 29.
Preparation of amides. M. Katzman and A. K. Epstein. 2,322,783; June 29.
Preparation of 2-chlorobutene-2. A. A. Levine and O. W. Cass. 2,323,226; June 29.
Preparation of 2,2,3-trichlorobutane. A. A. Levine and O. W. Cass. 2,323,227; June 29.
Preparing thiuronium salts. L. Orthner, G. Balle, G. Dittus, and H. Wagner. 2,323,075; June 29.
Press and tandem control, Semi-power. F. A. Heidenfelder. 2,323,134; June 29.
Pressure release valve, Automatically closing. R. W. Wright. 2,322,960; June 29.
Priming device for pumps. A. P. Adney and B. D. Barton. 2,322,910; June 29.
Printing composition. L. M. Ellis. 2,322,837; June 29.
Process and product. P. R. Austin and C. E. Frank. 2,323,111; June 29.
Process useful in blind flight training. O. C. Ocker. 2,322,770; June 29.
Producing thin threads from polyvinyl alcohol and its water-soluble derivatives. H. P. Schmitz. 2,322,976; June 29.
Projectile. R. R. Studler. 2,322,751; June 29.
Propeller, Airplane. W. Martino. 2,322,763; June 29.
Puller: *See*—
Tie puller.
Pump. F. C. Best and J. A. Lawler. 2,322,913; June 29.
Pusher. S. B. Martin. 2,323,067; June 29.
Rack: *See*—
Storage rack.
Rack or supporting structure. T. E. and R. A. Shaw. 2,322,748; June 29.
Rail car. A. E. McKinnon. 2,323,069; June 29.
Railway brake. P. B. Camp and H. E. Bartsch. 2,323,200; June 29.
Railway switching system and apparatus. M. H. Loughridge. 2,323,062; June 29.
Rayon, Manufacture of cuprammonium. W. H. Furness. 2,322,801; June 29.
Receptacle: *See*—
Portable receptacle.
Recorder and reproducer, Sound. M. A. Gilman and C. Anderson. 2,323,215; June 29.
Reflector, Light. R. B. Netting. 2,323,073; June 29.
Refrigerating unit, Dry ice. A. Zielesch and S. W. Smith. 2,323,270; June 29.
Refrigeration. P. P. Anderson, Jr. 2,323,186; June 29.
Refrigeration. E. A. Fenander. 2,323,212; June 29.
Refrigeration apparatus. W. Raskin. 2,322,882; June 29.
Refrigerator. H. C. Shagaloff. 2,323,249; June 29.
Refrigerator and vending machine, Combination. M. L. Smith. 2,322,980; June 29.
Refrigerator cabinet. O. E. Norberg. 2,322,769; June 29.
Refrigerator latch operating mechanism. W. O. Burke. 2,322,916; June 29.
Regenerator, Pulse. F. H. Hibbard. 2,322,848; June 29.
Registering device. W. T. Stearn. 2,322,893; June 29.
Regulator: *See*—
Altimeter regulator. Oxygen regulator.
Damper regulator. Ventilated vapor regulator.
Regulator circuit. R. R. Blair. 2,323,192; June 29.
Release, Safety. N. L. Etten. 2,323,210; June 29.
Relief valve. W. Ernst. 2,323,021; June 29.
Resilient couplings, Making. M. Goldschmidt. 2,323,216; June 29.
Resins from halogenated hydrocarbons and similar materials. V. Molinari, 2,322,870; June 29.
Retainer, Cap. W. B. Johnson. 2,322,805; June 29.
Road grader. F. E. Arndt. 2,323,108; June 29.
Road grader. F. E. Arndt. 2,323,109–10; June 29.
Roadway formation unit. E. H. Geyer. 2,323,026; June 29.
Rod: *See*—
Curtain rod.
Rubber and metal unit for resilient mountings, couplings, and the like. M. Goldschmidt. 2,322,844; June 29.
Rubber and product produced thereby, Vulcanizing. M. W. Harman. 2,323,037; June 29.
Rubber products. W. S. Gocher and A. J. Jennings. 2,322,779; June 29.
Rubber thread, Manufacturing. E. Hazell. 2,323,132; June 29.
Saccharifying cellulose. D. Ferrari and M. Torresi. 2,323,022; June 29.
Safety device for occupants of vehicles. R. K. Voorhies. 2,322,755; June 29.
Sanitary measuring device. D. Berman. 2,322,912; June 29.
Saw, Portable power driven. G. J. Sellmeyer. 2,323,248; June 29.
Scaffolding. F. O. Bouchillon. 2,323,195; June 29.
Scale. W. J. Beck. 2,322,813; June 29.
Screening, Black-out. H. N. Renton. 2,323,239; June 29.
Screw driver. W. A. De Vellier. 2,323,018; June 29.
Seal. L. J. Dornhofer. 2,322,834–5; June 29.
Seal. W. W. Meyer. 2,322,867; June 29.

Self-erecting means for gyroscopic devices. C. B. Roede. 2,323,244; June 29.
Servo system for aircraft. A. B. Hemstreet. 2,322,782; June 29.
Sewing machine support. A. Liabastre. 2,322,946; June 29.
Sheet metal containers, Making black iron. N. H. Goldsworthy. 2,322,845; June 29.
Sheet piling. J. B. Brockhurst. 2,322,819; June 29.
Shingle, Composition. T. McAvoy. 2,323,230; June 29.
Ship. J. Long. 2,323,063; June 29.
Shoe form. A. F. Levaggi. 2,323,228; June 29.
Shuttle. C. A. Cosman. 2,323,203; June 29.
Side wall stack frame. M. W. Krueger. 2,323,055; June 29.
Sign; *See*—
Changeable sign. Display sign.
Signaling system. J. C. Smith. 2,323,250; June 29.
Signaling system, Two-way. A. C. Dickieson and P. G. Edyards. 2,322,833; June 29.
Silencer, Twin carburetor intake. B. Steensen. 2,322,895; June 29.
Silo door and silo. Z. W. Craine. 2,322,923; June 29.
Skate scabbard. A. K. Johnson. 2,323,049; June 29.
Slide fastener. N. J. Poux. 2,322,908; June 29.
Solvent treating. J. E. Pollock. 2,322,881; June 29.
Souring material. G. W. Kirby, M. H. Rasmusson, and S. A. McHugh. 2,322,990; June 29.
Spectacles, Vertically adjustable bifocal. J. S. Zell. 2,322,993; June 29.
Spindle and knob construction. F. Lux. 2,322,949; June 29.
Sponge rubber, Making. W. J. Clayton. 2,323,119; June 29.
Spot adjusting mechanism for radio transmitters. H. J. H. Wassell. 2,323,170; June 29.
Spreader, Tire. A. Long. 2,323,144; June 29.
Stabilization of superpolymers. J. B. Howard. 2,322,938; June 29.
Starch manufacturing process. A. Peltzer. 2,323,077; June 29.
Steam pressing iron. J. C. Ledbetter. 2,323,225; June 29.
Steel and rubber spring, Combined. E. H. Piron. 2,322,879; June 29.
Steel, Heat treatment of hardenable. C. G. Purnell. 2,322,777; June 29.
Steering control for aircraft, Automatic. F. W. Meredith. 2,323,151; June 29.
Stocking blank and knitting the same. F. Lambach. 2,322,802; June 29.
Storage rack. W. J. Fishel. 2,322,797; June 29.
Stovepipe seam. F. W. Thompson. 2,323,256; June 29.
Submarine escape. S. A. Phillips. 2,323,238; June 19.
Suction cleaner. V. E. Carlson. 2,322,921; June 29.
Support; *See*—
Guide roller support. Sewing machine support.
Support and contact for electron discharge devices. C. H. Lane, Jr. 2,323,140; June 29.
Support for hat boxes, Hat. L. Creper. 2,323,011; June 29.
Surgical apparatus. G. J. Thomas. 2,322,753; June 29.
Suspension. H. A. Knox. 2,322,785; June 29.
Suspension means for reciprocal saws. G. J. Sellmeyer. 2,323,247; June 29.
Suspension means, Garage door. O. F. Stouffer. 2,323,161; June 29.
Switch; *See*—
Electric switch. Heat control time switch.
Switchhook, Magnet. R. M. Kalb. 2,322,851; June 29.
Synchronizer, Transmission. H. H. Robbins. 2,322,970; June 29.
Synchronizing arrangement. G. Wegener. 2,322,985; June 29.
Synchronous motor. W. L. Hansen and I. N. Hurst. 2,323,035; June 29.
Syringe. A. E. Smith. 2,323,159; June 29.
System for magnetic compasses, Repeater. E. A. Sperry, Jr. 2,323,253; June 29.
System, Sound recording. E. Hacke. 2,323,032; June 29.
Tackless roller shade assembly. W. M. Hicks. 2,322,934; June 29.
Taeniacide. J. E. Guthrie. 2,323,218; June 29.
Tank; *See*—
Flotation tank.
Tanning. H. J. West. 2,322,959; June 29.
Telegraph receiver, Printing. L. S. Rose. 2,323,155; June 29.
Telegraph signal measuring apparatus. W. Y. Lang. 2,322,943; June 29.
Telegraphic transmitter. L. G. Heatherly. 2,323,133; June 29.
Telephone system. G. Zapf. 2,322,992; June 29.
Telephone system, Carrier frequency. W. Hagen. 2,323,033; June 29.
Television transmission tube. W. Flechsig. 2,323,024; June 29.
Temperature regulating and ventilating system. P. B. Parks and T. J. Lehane. 2,323,236; June 29.
Thimble. W. H. Mohr. 2,322,869; June 29.
Thread removing and disc cleaning mechanism. G. Weiss and L. Frank. 2,322,986; June 29.
Tie puller. E. C. Neal. 2,322,768; June 29.
Tire inflating valve. E. Payne. 2,323,237; June 29.
Tool; *See*—
Dispensing tool. Gear finishing tool.
Toolholder. B. Misiura. 2,322,868; June 29.
Toy railway mail car or the like. W. E. Rexford. 2,323,240; June 29.
Toy vacuum cleaner, Electrically driven. F. E. Kinsella. 2,322,804; June 29.
Transformer motor. F. E. Lange. 2,322,942; June 29.
Tray for automobile compartments, Sliding. J. H. Jackson. 2,323,045; June 29.
Tread construction. W. M. McNiel. 2,322,965; June 29.
Treating gasoline. J. J. Allinson, J. W. Poole, and F. R. Grant. 2,323,079; June 29.
Trigger motor. G. W. Pontius, III, and G. A. Goepfrich. 2,322,775; June 29.
Trim material. W. R. Eady. 2,322,836; June 29.
Tube; *See*—
Television transmission tube.
Tube fitting. W. E. Patten. 2,323,099; June 29.
Tules, Eradicating. P. O. McDermott. 2,322,865; June 29.
Tuned circuit and associated devices therefor. P. S. Carter. 2,323,201; June 29.
Tuning barrel for wind instruments. T. T. Kearns. 2,323,138; June 29.
Turbine driven blower. A. Buchi. 2,322,824; June 29.
Turbine system. P. West. 2,322,987; June 29.
Twist drill. G. Stevens. 2,322,894; June 29.
Two-cycle engine. F. B. Yingling. 2,322,961; June 29.
Uncoiler. P. H. Washam, Jr. 2,323,104; June 29.
Universal corn cutter. C. E. Kerr. 2,323,092; June 29.
Universal measuring indicator. A. Menzer. 2,322,951; June 29.
Vacuum cleaner. G. E. Lofgren. 2,322,948; June 29.
Valve; *See*—
Relief valve. Tire inflating valve.
Valve housing, Drain. F. C. Kuhnle. 2,323,224; June 29.
Valve mechanism. V. O. Beam. 2,322,911; June 29.
Valve operating mechanism. T. N. Smith. 2,323,251; June 29.
Vapor generators, Controlling the operation of. C. Schroeder. 2,322,975; June 29.
Vegetable topper. W. E. Tenbrook. 2,322,905; June 29.
Vehicle frame. J. M. Foster. 2,322,841; June 29.
Vehicle suspension mechanism. G. M. Cross. 2,323,204; June 29.
Vehicle wheel suspension. F. W. Slack. 2,322,890; June 29.
Ventilated vapor regulator. J. Van Vulpen. 2,323,259; June 29.
Ventilating unit. E. W. Denman. 2,323,178; June 29
Vessel, Low draft transport. C. C. Cristadoro. 2,322,790; June 29.
Vibration amplitude control system. C. W. Baird. 2,323,081; June 29.
Viscosimeter. G. S. Binckley. 2,322,814; June 29.
Visible index or record strips, Manufacture of. H. J. Hopkins. 2,323,043; June 29.
Visor structure. W. C. Van Dresser. 2,322,898; June 29.
Washing apparatus. N. Ransohoff. 2,323,154; June 29.
Water cycle. D. Vigo. 2,323,261; June 29.
Wear testing machine. H. A. Young and J. C. H. Wendes. 2,323,175; June 29.
Web-guiding tensioning, fulling, and smoothing mechanism for forming machines. L. W. Neely. 2,323,234; June 29.
Webs or fleeces produced on carding engines, Treatment of. A. Varga. 2,323,167; June 29.
Weighing mechanism. C. J. Malhiot. 2,322,862; June 29.
Welding apparatus. D. W. Fentress. 2,322,796; June 29.
Welding apparatus. F. Hill. 2,323,039; June 29.
Window guard. M. S. McDowell. 2,323,097; June 29.
Window units for trailers and the like. M. A. Conway. 2,323,121; June 29.
Windshield cleaner motor. E. C. Horton. 2,322,963; June 29.
Wire, Electrode. E. G. Widell. 2,323,173; June 29.
Wire for warping machines and the like, Drop. J. J. Kaufmann. 2,323,282; June 29.
Work clamping machine, Air controlled. J. M. Lancaster. 2,323,141; June 29.
Wort, Heating and treating. J. F. Silhavy. 2,322,749; June 29.
Wrench reducing insert. L. Le Roue. 2,322,856; June 29.
Yarn control device. E. M. Schantz. 2,322,956; June 29.
Yarn guide. T. E. Carlson. 2,322,825; June 29.

CLASSIFICATION OF PATENTS

ISSUED JUNE 29, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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